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ASSESSMENT REPORT



January 13,
2022

Jackfish Lake Project – 2021 Prospecting
Program

SYINE TOWNSHIP
NTS Sheet 042D15

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Assessment Report

JACKFISH LAKE PROJECT – 2021 PROSPECTING PROGRAM

SUMMARY

On July 4th and 5th, and then between September 29th and October 11th, a surficial prospecting program was completed on the Jackfish Project, which is currently under option to Fulcrum Metals. The property is located 20km east of the town of Terrace Bay, Ontario in Syine Township. Bayside Geoscience, based out of Thunder Bay, ON, was contracted to complete the program. The crew consisted of a senior field geologist, 2 geologists in training, and 2 field assistants. The crew mobilized to site via Highway 17 and were accommodated at the Jackfish Lake cottages, which is situated on the mineral claim property itself.

The program was completed in two phases. The first phase was a two-day confirmatory sampling program completed by Steven Flank. The results of this sampling program, returned 6 grab samples with greater than 1 g / ton, including a sulfide mineralized granite that returned 39.8 g/t Au. Following up on these very encouraging results, a second phase of work focused on a 1.5 square kilometer area located along the southern margin of the property. Areas of historical surface mineralization were rigorously prospected and sampled during this phase of work resulting in 141 grab samples being collected and sent for assay and geochemical analysis.

The work program has outlined an area of anomalous Au mineralization along the southern margin of the Terrace Bay Batholith, where it is in contact with metavolcanic rocks of the Terrace Bay-Schreiber greenstone belt. This area of the property has seen no modern geophysics and no diamond drilling is recorded. A follow up work program comprised of an induced polarization survey, trenching and diamond drilling is recommended.

INTRODUCTION

On July 4th and July 5th Steven Flank, of Bayside Geoscience, conduct a confirmatory sampling program on zones of historic mineralization. Steven was guided by local prospector and optionee Wayne Richards. On the second phase of the program, between September 29th and October 11th, Bayside Geoscience completed a prospecting and mapping program. The program was staffed by a team of 5 personnel: Steven Flank (Senior Field Geologist), Megan Landman (Geologist in Training), Rami Abou-Shamalah (Geologist in Training), Cameron Mitchell (Field Assistant), and Daniel Flank (Field Assistant). While actively participating in the field program, Steven Flank, oversaw all operations, and was responsible for the final data compilation, interpretation and technical contents of this report.

The co-ordinate system used throughout this report is: UTM NAD 83 Zone 16U

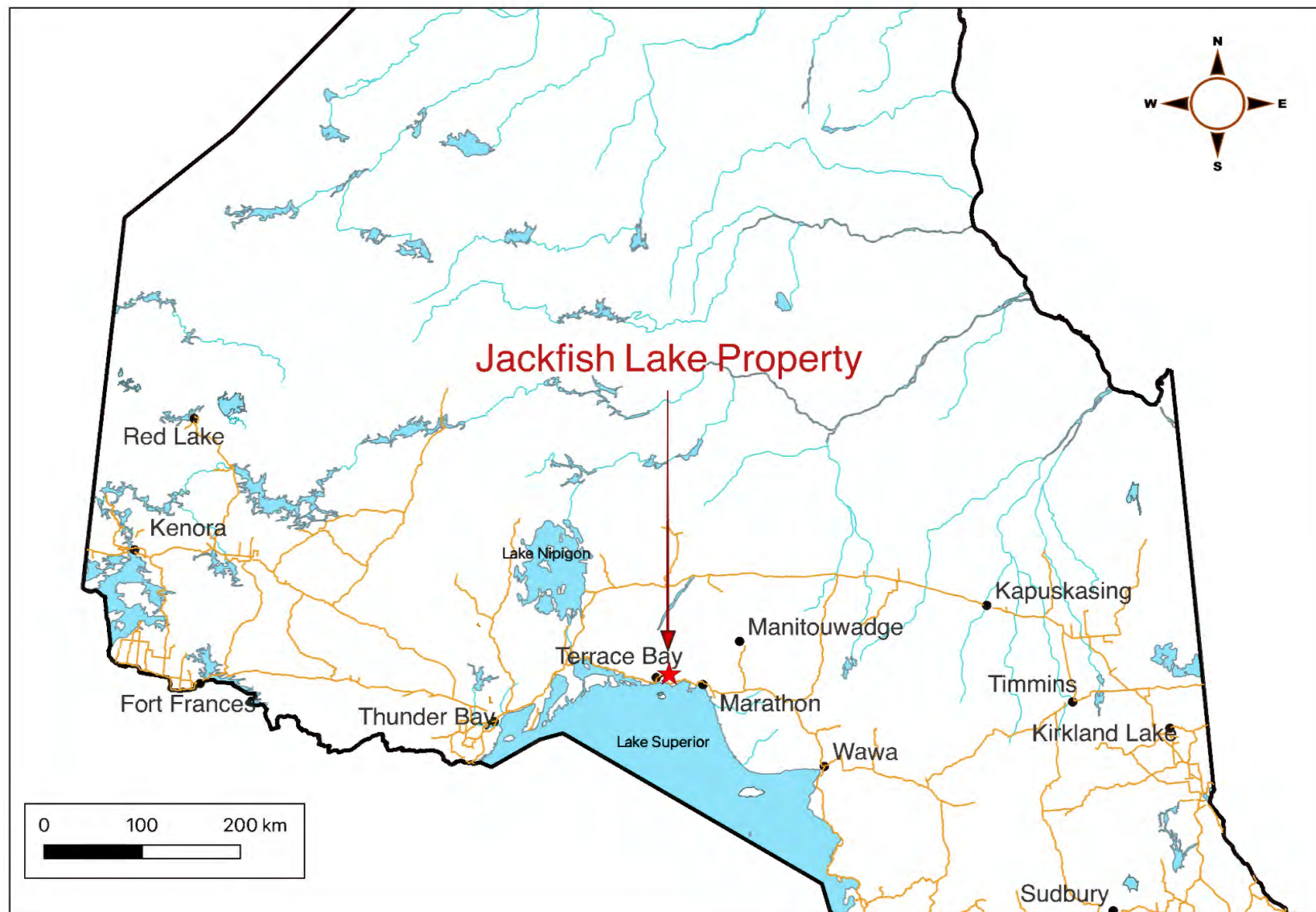


Figure 1: Location of the Jackfish Property

LOCATION AND ACCESS

The Jackfish property is located 20km east of Terrace Bay, off the northern shores of Lake Superior (Figure 1). Highway 17, cuts through the property, providing excellent access to the property. There are few trails cut the property itself, which is characterized by rugged topography and thick forest cover. Hiking on foot is the primary means of access to the eastern and northern portions of the property.

During the 2021 prospecting program, the crew was lodged at Jackfish Lake cottages.

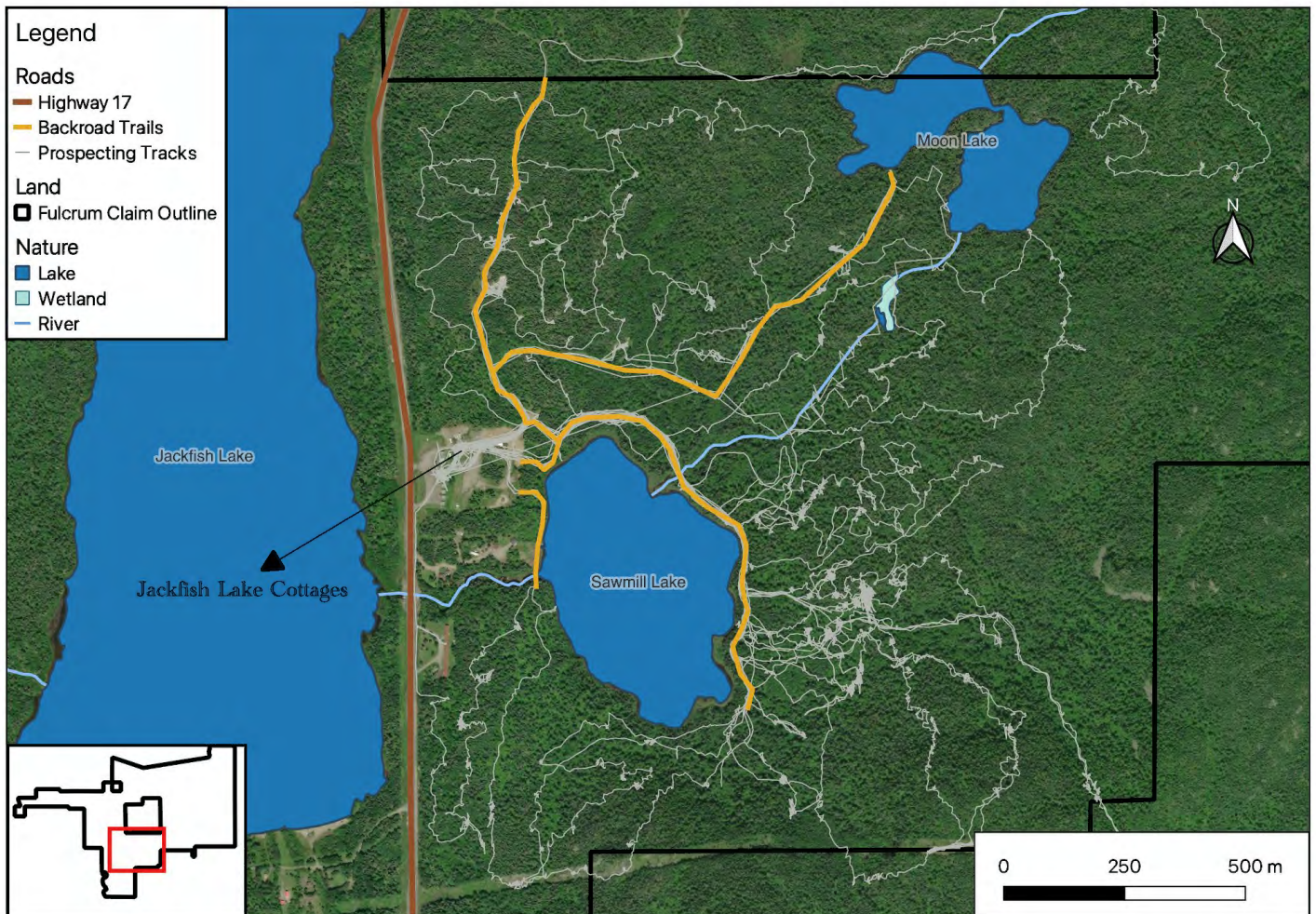


Figure 2: Location of accommodations, trails and prospecting tracks.

PROPERTY OWNERSHIP AND CLAIMS

The Jackfish Lake Property is located within the Thunder Bay Mining Division and comprises 264 total claim blocks, totaling 3,921 Ha. All the claims are under option to Fulcrum Metals with current owners summarized in Appendix A. Claim locations are shown in Figure 3.

EXPLORATION HISTORY

Exploration activity in this area started at the end of the 19th century, spurred by the discovery of the Empress Mine in 1895 (Walker, 1967) and silver mineralization at the Elgin Silver Mine in 1882 (). The focus of exploration on the property has been for gold and silver-copper-lead-zinc. A summary of the exploration history is presented below in Table 1.

REGIONAL GEOLOGY

The property is located in the Wawa subprovince of the Superior Province of the Canadian Shield, which is the world's largest Archean craton; it formed by amalgamation of subprovinces of various origins (plutonic, volcanic-plutonic, gneissic, sedimentary) (Polat and Kerrich, 2000). The subprovinces range in age from 3.0 to 2.65 Ga. The Wawa Subprovince extends from Minnesota in the west to the Kapuskasing structural zone in the east (Magnus, 2016).

"The Schreiber–Hemlo greenstone belt is part of the Wawa–Abitibi granite–greenstone terrane of the Superior Province. Locally, the supracrustal rocks of the Wawa–Abitibi terrane have been interpreted to have formed in an island arc volcanic setting offshore of the proto-continental Wabigoon and Marmion granite–greenstone terranes (Williams 1989). The Coldwell alkalic intrusive complex, which occupies the eastern edge of the map area, and a multitude of diabase and lamprophyre dikes that crosscut the map area, were emplaced into the Archean bedrock during the formation of the Midcontinent Rift (circa 1.1 Ga (Keweenawan): Sage, 1991).

Based on structural interpretation, the stratigraphically oldest rocks in the map area include the felsic-dominated volcanic to volcanoclastic rocks that form the core of an eastward-plunging anticline that stretches from the Terrace Bay pluton to McKellar Lake. These rocks comprise felsic lapilli and crystal tuffs, tuff-breccia and monolithic clast-supported breccia (likely proximal to unobserved coherent felsic rocks) with minor pillowed mafic rocks and lenses of chemical metasedimentary rocks (i.e., chert, graphitic argillite and iron sulphide). Higher in the volcanic stratigraphy, massive to pillowed mafic flows become more dominant. Pillows are commonly bun shaped, with rinds up to 2 cm thick, and interstices filled with hyaloclastite and locally filled with iron-sulphide mineralization. Locally, the cores of the pillows are variolitic (Magnus and Walker 2015).

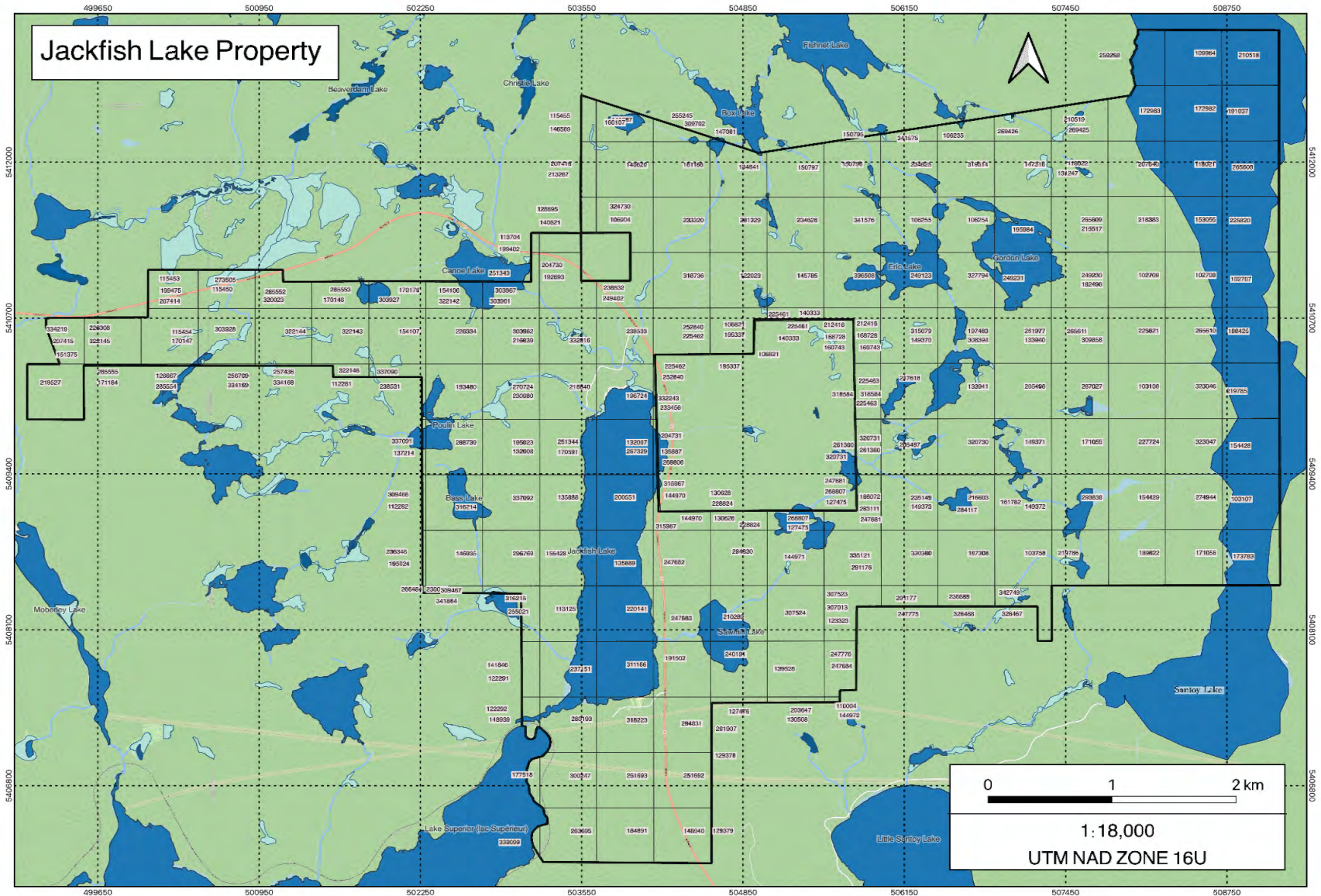


Figure 3: Jackfish Property Map

Geological Report

Table 1: History of exploration work on the Jackfish Property

| Year | Company | Type of Work | Results | Assessment |
|------|---|--|---|-------------|
| 1882 | Elgin Silver | Underground mining from 2 adits | No production data | 42D155W8353 |
| 1932 | Siville-Ferrier Syndicate | Stripping, sampling | Up to 10.29 g/t Au over 0.91 m | 42D155W8353 |
| 1982 | Micham Explorations Inc. | Magnetic and electromagnetic (VLF) surveys | No magnetic anomalies; several weak to moderate conductors | 42D145E1074 |
| 1983 | Rose Resource Corp. | Magnetic and electromagnetic (VLF) surveys | 10 EM conductors and no significant magnetic anomalies | 42D155E0128 |
| 1983 | Wasabi Resources | Airborne magnetic and EM (VLF) survey | Identified 6 EM conductors | 42D155W0088 |
| 1983 | Wasabi Resources | Ground proofing of airborne EM conductors | All 6 conductors sulfide iron formation with no Au values | 42D155W0066 |
| 1984 | John Ferguson | Magnetic and electromagnetic surveys | No significant mag; 2 weak VLF anomalies | 42D155W0121 |
| 1984 | Goldhurst Resources | Magnetic and electromagnetic surveys | No significant mag; 11 very weak EM conductors | 42D155W0116 |
| 1984 | Goldhurst Resources | Drilling, 4 drill holes; total 305.1m (1001 feet) | Drill hole 84-04: 2.87 g/t Au over 2.44 m including 6.07g/t Au over 0.91m and 0.96g/t Au over 1.22m | 42D155W0118 |
| 1985 | Micham Explorations Inc. | Mapping, trenching, sampling (58 rock samples) | Highest assay 13.54g/t Au in quartz vein at N Siville showing outside of Jackfish claims | 42D155W0114 |
| 1985 | Micham Explorations Inc. | Soil sampling (1521 samples) | Two anomalous areas; Empress structure W Siville showing; Mocan valley structure | 42D155W0115 |
| 1985 | Micham Explorations Inc. | Diamond drilling 4 drill holes 482.9m (1584.2 ft) | Highest assays 1166 ppb Au over 1.52; 1588 ppb Au over 1.83m, 44.23 g/t Au over 0.61 m | 42D155W0117 |
| 1986 | John Ferguson | Stripping, de-watering, trenching; sampling | Highest assay 13.03 g/t Au; 4.075 g/t Ag | 42D155W0504 |
| 1986 | John Ferguson | Magnetic and electromagnetic surveys | No significant results | 42D155W0111 |
| 1987 | John Ferguson | Soil sampling | No significant results | 42D155W0106 |
| 1987 | Forerunner Resources | Mapping, stripping, trenching, sampling | Highest assay 93.24 g/t Au; 109.03 g/t Ag; 1.2% Cu; 7.85% Pb | 42D155W0505 |
| 1987 | Micham Explorations Inc. | Diamond drilling 10 drill holes, total 1674m | No assays recorded | 42D155W0109 |
| 1988 | Beardmore Resources | Trenching, soil sampling, bedrock sampling | Highest assays: 21.05 g/t Au plus 13.3 g/t Ag and 11.45 g/t Au plus 0.2 g/t Ag | 42D155W8353 |
| 1989 | J.R. Hamel | sampling (11 samples), diamond drilling | Highest assay 93.26 g/t Au, 82.79 g/t Ag | 42D155W0110 |
| 1991 | J.R. Hamel | Stripping and sampling | Highest assay 21.05 g/t Au and 26.06g/t Ag | 42D155W0102 |
| 1992 | Beavercreek Exploration (J.R. Hamel) | Drilling 2 drill holes 28.04m | Highest assay 12.21 g/t Au over 1.52 m | 42D155W0002 |
| 1994 | Beavercreek Exploration (J.R. Hamel) | Drilling 5 drill holes 45.1m | Best result: 0.51 g/t Au over 3.05 m | 42D155W0001 |
| 1995 | George Daniels et al. | Stripping, trenching, sampling, line cutting, VLF survey | 16.39 g/t Au on claim #1207882 Santoy Lake; 15.77 g/t Au Syine Twp. Historic claim #1224852 | 42D15NW0009 |
| 1996 | Big Lake Geological Consulting on behalf of J. Ferguson | Mapping, sampling | Highest assays from trench 14.3 g/t Au and 16.39 g/t Au | 42D15NW0038 |

| Year | Company | Type of Work | Results | Assessment |
|------|--------------------------|---|--|----------------------|
| 1996 | George Daniels | Prospecting, stripping, trenching | Highest assays from trench 21.94 g/t Au | 42D15NW0028 |
| 1996 | Rudolph Wahl et al., | Rock sampling (100 samples); soil sampling | No significant results | 42D15SW0008 |
| 1997 | Landis Mining Corp. | Evaluation of previous exploration activity in the area | 20 lb composite grab sample: 22.97 g/t Au over 3.05 m from Empress structure | 42D15SW2002 |
| 1998 | George Daniels | sampling (11 samples), diamond drilling | Highest assays from Jon's showing 1.45 g/t Au | 42D15SW2003 |
| 1999 | Cameco Gold Inc. | Line cutting; map., IP; trenching; re-logging & re-sampling | DDH 441087-9: 8.07 g/t Au; 93.8 g/t Ag over 0.52 m; DDH 44184-7: 7.09 g/t Au; 19.8 g/t Ag over 1.4 m | 42D15SW2010 |
| 2000 | George Daniels | Trench cleaning, minor blasting | No results | 42D15SW2013 |
| 2004 | Brian Fowler | Line cutting; mag; prospecting, sampling (21) | Highest assay 324 ppb Au | 42D15SW2024 |
| 2005 | Phoenix Matachewan Mines | Prospecting sampling (19 rock samples) | Highest assay 262 ppb Au | 20000001155 |
| 2007 | Wayne Richards | Prospecting, mapping, stripping, sampling (4 samples) | No Au assays; two samples >100 g/t Ag | 20000003831 |
| 2007 | Alto Ventures Ltd. | Mapping, prospecting and sampling (47 rock samples) | Highest assay 2,278 ppb Au | 20000002005 |
| 2008 | Alto Ventures Ltd. | Drilling 2 drill holes 332 m on Empress structure | 0.66 g/t Au over 2.3 m | 20000003772 |
| 2009 | Rudolph Wahl | Prospecting, mapping, sampling (22 samples) | No significant results | 20000004525 |
| 2010 | Galahad Metals | Soil sampling (619 samples), mapping trenching, sampling (89 samples) | 26.8 g/t Au and 119 g/t Ag; 24.7 g/t Au and 40.4 g/t Ag at creek showing | 20000005783 |
| 2010 | Bond et al. | Prospecting, mapping, rock samples (63 samples) and lake sediment samples (7 samples) | 309 and 459 ppb Au | 20000006073 |
| 2010 | Bond et al. | Drilling 2 holes 240 m | No significant results | 20000006073 |
| 2012 | Rudolph Wahl | Prospecting, mapping, sampling (30 samples) | 1.9 g/t Au sample # 997103 | 20000007183 |
| 2012 | Hamel et al. | sampling (11 samples), diamond drilling | No significant results | 20000007081, 2.53866 |
| 2014 | Alto Ventures Ltd. | Bedrock sampling (21 samples) | No significant results | 20000008044 |
| 2015 | Alto Ventures Ltd. | Surface Till and Bedrock Sampling | | 20000013949 |
| 2016 | Wayne Richards | Diamond drilling, outcrop stripping, sampling | 38.3g/t and 5.21g/t Au grab samples, no significant results from drilling | 20000013548 |
| 2016 | Alto Ventures Ltd. | Surface Glacial Till Sampling | | 20000013750 |
| 2017 | Wayne Richards | Ground VLF Survey | Weak conductors identified | 20000015411 |
| 2017 | Santana Resources Inc | UAV airborne magnetic survey | Magnetic anomalies to follow up | 20000017132 |
| 2017 | Santana Resources Inc | SPOT remote sensing | Digital terrain map | 20000017281 |
| 2017 | Santana Resources Inc | Outcrop stripping, channel sampling on Rudy Block | 2 prospects with significant channel sample Au results #5 and #7 | 20000017291 |
| 2017 | Santana Resources Inc | Ground VLF Survey on Rudy Block | One strong conductor identified | 20000017298 |
| 2017 | Santana Resources Inc | Geological Compilation and Interpretation | Recommendations for future exploration | 20000017310 |

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A band of chemical metasedimentary rock, composed of chert and graphitic argillite with local beds of iron sulphide, separates the metavolcanic rocks in the north from a sequence of siliciclastic metasedimentary rocks. These rocks comprise decimeter- to metre-scale beds of turbiditic wacke, which display normal grading upward (generally southward), with intermittent beds of mudstone. Fralick, Purdon and Davis (2006) collected 2 samples of turbiditic wacke along McKellar Harbour from the interpreted stratigraphically lowest and highest locations of the depositional package. These samples yielded overlapping youngest zircon ages (maximum ages of deposition) of 2696 ± 3 Ma and 2693 ± 4 Ma, respectively. However, the Jackfish–Middleton–McKellar Harbour shear zone (JMMHSZ), which crosscuts sedimentary rocks in the vicinity of the 2 samples, has complicated the interpretation of local stratigraphy. Hence, the maximum age of deposition for these samples may not reliably constrain the base of the metasedimentary package, nor do they provide a minimum age for the deposition of chemical metasedimentary rocks that underlie the clastic metasedimentary package.

A panel of metavolcanic rock is present south of the clastic metasedimentary package, composed mainly of massive to pillowed (locally variolitic) mafic flows with minor volcanoclastic rocks. On the islands east of Prairie Cove, felsic volcanoclastic rocks (tuff, tuff-breccia and epiclastic conglomerate) are present, with minor pillowed mafic flows. The contact between these metavolcanic rocks and the metasedimentary rocks to the north lie within the JMMHSZ (Jackfish-Middleton-McKellar Harbour shear zone), which makes the nature of the contact difficult to determine and precludes stratigraphic correlation between these metavolcanic rocks and those in the north.

Mafic intrusive rocks (melanocratic to leucocratic metagabbro) are abundant in the map area and crosscut all of the previously described supracrustal rocks. Mylonitic textures have been observed in these intrusive rocks, especially in the vicinity of the JMMHSZ and, based on the map pattern, the intrusive rocks appear to have been affected by folding along with the supracrustal rocks. Several large granitoid plutons of unknown age crosscut and surround all of the previously described rock types in the map area". (Magnus 2016)

Structure

The overall trend of the belt is in the southeast direction. Near the contact of the supracrustal rocks and the batholith, the geological units dip steeply away from the batholith. Furthermore, the supracrustal rocks form a synclinal fold with a southeast trending axis northwest of the batholith (ITR, 2017).

Whereas the trend of the belt is SE, foliation and schistosity dip to the north and northwest (Marmont 1984).

There are 2 major faults in the area: the right lateral Schreiber Point Fault, and the Worthington Bay Fault. Although both of these faults are outside the property perhaps they still influence the geology.

Consistently across the pluton, sub-parallel quartz veins with often-times stockworking, occur as both vitreous and less-so smoky. More often than not, the parallel set of quartz veins are associated with mineralization, whereas the perpendicular, vertical trending veins are barren. The veins range from 0.5 to

40cm in width and appear undeformed. Oftentimes the host granodiorite around the veins is altered, and especially around the stockwork veins.

Mineralization

Gold mineralization at the margins of the Terrace Bay Batholith was noticed by Marmont in 1984.

Mineralization is also associated with the parallel system of quartz veins, that usually have perpendicular quartz veins in lesser width, and more often than not these vertical veins are smoky. This mineralization type is hosted by quartz-carbonate veins, and is usually enveloped by potassium, carbonate and silica alteration halos. Whereas these veins trend sub-parallel, in the abandoned North Shore Mine, they cross-cut the intrusions. These veins also fill fractures that show moderate to extensive shearing. Like for example at the abandoned Empress mine, where the mafic rocks are sheared, and late northeast or northwest trending faults are offsetting the fracture filled veins. The dominant sulfides in the veins are pyrite, chalcopyrite, sphalerite, galena, and molybdenite. These sulfide-mineralized veins, contain gold mineralization, which is the typical mineralization style observed at the North zone and Hematite zone.

LOCAL GEOLOGY

The property is centered on the eastern part of the Terrace Bay batholith, which is a massive, medium grained granodiorite intrusion about 25km long by 8km wide. The granodiorite is typically grey whereas in proximity to fractures, veins and shears, it occurs as a pink to red granodiorite with a lower magnetic susceptibility (Magnus, 2016). This batholith is cut by late diabase and lamprophyre dikes which occur throughout the property. This batholith intruded the schreiber–Hemlo greenstone belt, which now borders the property on the surrounding topographic highs. The intrusion of this batholith caused contact metamorphism in the host rocks that extends 400m into the greenstone rocks. The greenstone rocks are intermediate to mafic and range from iron-rich tholeiitic basalts to andesite with pillow structures to calc-alkalic rocks (Independent Technical Report, 2017).

Mineralized Zones

North Zone

“The North zone is located in a stripped outcrop exposure of granodiorite crosscut by several parallel quartz veins with interstitial stockwork veining and alteration halos. The veins exposed on the surface have an average strike of 121° with dips between 26 and 41° (southwest). Pyrite, chalcopyrite and galena are present in veins and are disseminated in the altered granodiorite around the veins. The Resident Geologist Program staff collected and assayed grab samples of the sulphide-bearing granodiorite; these samples yielded a range of values from 131 up to 580 ppb Au, and 1 sample returned a value of 2377 ppb Au (Puumala et al. 2014). A sample of a quartz vein

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collected by Magnus in 2015 returned 287 ppb Au. A distinct zone of green altered granodiorite, oriented 018/85 (southeast), crosscuts the granodiorite and the stacked quartz veins, and has returned low gold values (W. Richards, prospector, personal communication, 2016).” (Magnus, 2016)

Hematite Zone

“The Hematite zone is a stripped exposure located to the southeast of the North zone. The zone is dominantly massive, unaltered, grey granodiorite with horizontal quartz veins occurring at the top of the outcrop. Several horizontal veins crosscut the granodiorite, range in width from 0.5 to 15 cm and consistently strike 210° with a near-horizontal dip of 5° (northwest). Several vertical quartz veins with black tourmaline along the vein walls occur at the south end of the outcrop. Veins in both orientations host sulphide minerals, such as pyrite and chalcopyrite, and a sample of a near-horizontal vein sampled by Magnus in 2015 returned 799 ppb Au. A distinct zone of dark red, highly altered granodiorite oriented 294/85 (northeast) crosscuts the granodiorite and veins, with a 15 cm wide calcite vein along its northern boundary. Samples collected by Magnus in 2015 of both the altered zone and the calcite vein yielded no discernable gold.” (Magnus, 2016)

2021 PROSPECTING PROGRAM

Summary

The program was completed in two phases. An initial phase of sampling was conducted by Steven Flank who was accompanied by prospector Wayne Richards. On the first phase, Steven Flank visited the property on July 4th and July 5th. He was guided around the property by local prospector Wayne Richard. Based on encouraging results from this sampling program a second prospecting program was initiated in the SE portion of the property around Sawmill Lake. A crew of 5 personnel mobilized from Thunder Bay to Jackfish Lake Cottages on September 28th, 2021 and demobilized from Terrace Bay to Thunder Bay on October 12th, 2021. A total of 13 days were spent in the field. The daily log of their activities is included in Appendix B. The objectives of the program were to prospect and sample around the known mineralization zones and focus the mapping efforts on a roughly 1km by 1km squared area on the claim, just south of the exclusion square on the claims.

312 geological stations were recorded utilizing the QField application using Samsung Tab A tablets. A sample database was setup in QField to capture predetermined fields consisting of sample ID, sample medium, lithology, structure, alteration, mineralization, photos and notes. A Garmin 64s handheld GPS was utilized to collect high accuracy waypoints at each station, as well as tracks.

A digital printout of the station database is included in Appendix C. Maps showing station and sample locations, as well as GPS tracks from each traverse are included in Appendix D. A total of 129 grab samples were collected during the program. Sample locations and results are included in Appendix E and assay certificates in Appendix F. All coordinates are recorded in NAD 83 UTM Zone 16N.

Sampling Procedures & QA/QC

Rock samples were collected by field personnel utilizing rock hammers and placed into poly bags labelled with a unique station ID and sample number. Field personnel recorded sample information in a digital data collector and recorded GPS coordinates, geological observations, and photographs at each sample location.

Field standards and blanks were inserted into the sample stream every 25th sample, alternating between standard and blank. All standards and blanks reported in the ALS analytical certificates and all field standard and blank QA/QC samples were within acceptable values.

Samples were transported by Bayside personnel to the ALS Chemex preparation laboratory in Thunder Bay, Ontario. ALS then ships sample pulps to ALS Chemex Vancouver for analysis. Au values were determined via fire assay with an ICP-AES finish. Any Au samples that were above the detection limits for this method were analyzed via fire assay with a gravimetric finish. Major and trace element geochemistry was analyzed via Aqua Regia digest followed by an ICP-MS finish.

Phase 1 Results

During the Phase 1 sampling program four mineralized zones were visited; Cliff Zone, North Zone, Hematite Zone and Creek Zone/John's showing. A description of the zones is summarized below.

Cliff Zone

The Cliff Zone is located approximately 250m east of Sawmill Lake and is accessed via a walking trail. Outcrop exposure of the mineral showings is along a cliff up to 10m tall that is oriented at 55 degrees. Historic sampling here has returned gold grades of up to 25.9 g/t (Sample MP-WR-13-06) within chalcopyrite and pyrite bearing quartz veins.

The terrain is hazardous due to talus, and vegetation along the cliff edge. The granite outcrop is also very unstable and fractured in places creating a hazard while sampling. Extra care must be taken not to disturb overlying rocks (Figure 4).

A total of 5 mineralized quartz veins were examined during the site visit. Red/pink granite hosts the veins which are variably mineralized and range in thickness from 1-20cm. Mineralization is comprised of pyrite, chalcopyrite, galena, sphalerite and arsenopyrite (e.g Figure 5, 6). A few examples of sulfide mineralized granite adjacent to the veins were noted but this relationship could be better understood with more detailed sampling; systematically moving away from veins to determine degree of alteration and mineralization. One cursory observation was that there is a zonation of sulfide mineralization and alteration as you traverse along the cliff edge. On the SW most exposure pyrite mineralization was noted in the quartz veins but as we traversed to the NE more evolved sulfide species were observed, including chalcopyrite, galena, arsenopyrite and sphalerite. A zone of strong carbonate alteration was noted in a rubble pile at the furthest extent of the zone which may also be important in the context of a widespread hydrothermal alteration system. This zonation should be further investigated.



Figure 4: Example of the Cliff Zone outcrop exposures.

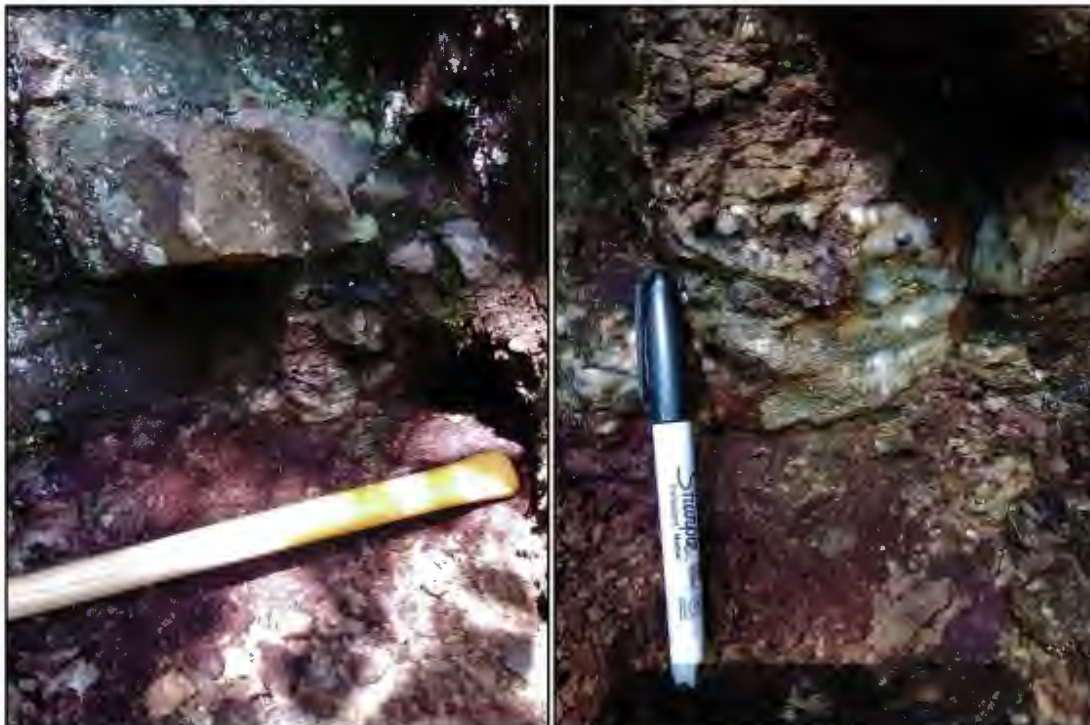


Figure 5: Chalcopyrite, pyrite and arsenopyrite mineralized quartz vein at JK-SF-006.

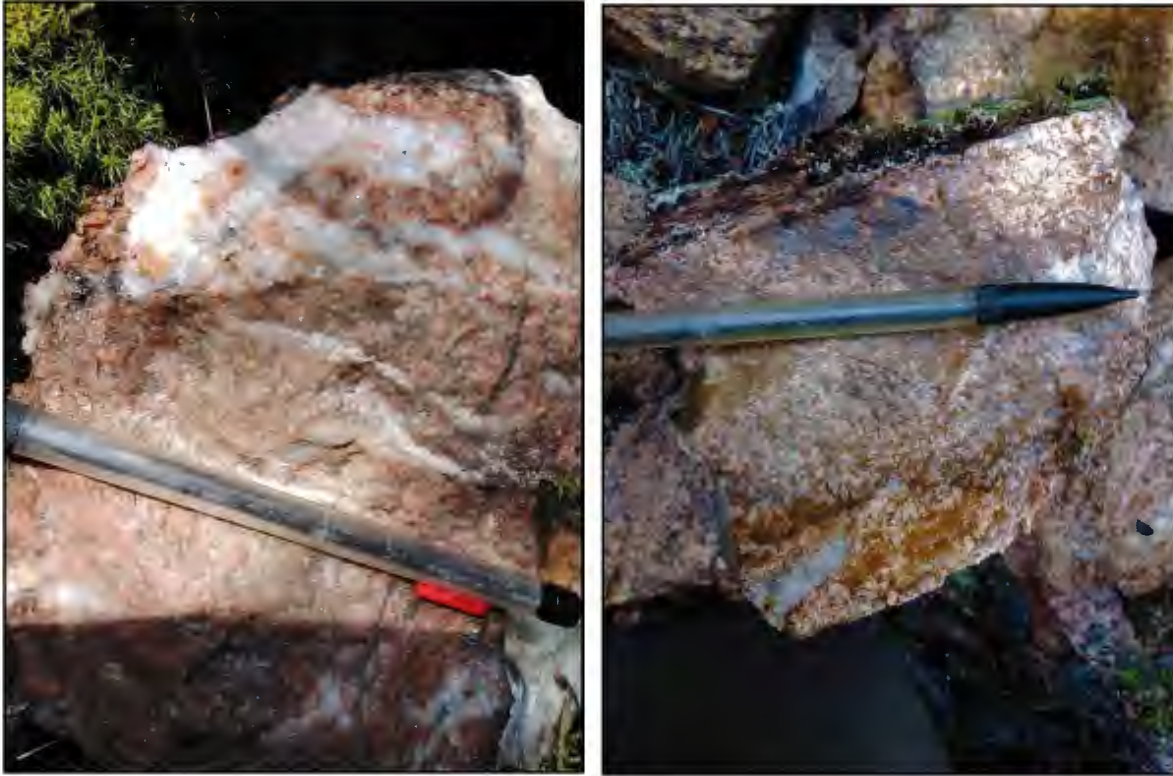


Figure 6: Quartz veining and pyrite mineralization in rubble pile on top of cliff zone (left). Ankerite alteration in granite found within same rubble pile. Both samples taken from station JK-SF-012.

Hematite Zone

The Hematite Zone was accessed via a short ATV trail from the Jackfish Cottage property. The trail leads to a stripped outcrop that is approximately 40m x 10m. The stripped outcrop is comprised of granite with a couple of stepped terraces and is similar in composition and texture to that observed at Cliff Zone. Granite is beige/pink in colour, generally massive and comprised of plagioclase, orthoclase, quartz and minor biotite. Shallowly dipping, narrow quartz veins terminate at a shear zone to the SE and pinch out to the NW. The zone was previously channel sampled by Santana Gold (VR12192 is one sample ID observed but these samples are not in the historic database). Veins are extensional with vein fibres oriented perpendicular to the contacts (Figure 8). All veining occupies a brittle structure that is 1.5m wide and dips shallowly to the NW. A hematite and carbonate altered shear zone causes granite to weather to rubble. Appears to display sinistral displacement evidenced by drag folds and displacement of the mineralized quartz vein. It displaces the vein by about 30cm. Sampled the vein where crack and seal textures are observed. 5% pyrite and 2% galena occupy cracks in the vein.

North Showing

The north showing is a 30m x 30m stripped outcrop of granite, similar to what was observed at the Hematite Zone (Figure 9). The stripping exposed strong, nearly stockwork type quartz veining throughout in



Figure 7: Quartz veining within brittle, shallowly dipping structure at Hematite zone (left). Carbonate/hematite altered shear zone on SE side of trench. Quartz veins terminate near top of picture at structure (right).

various orientations. Some appear to be vertical while others are flatter. Mineralization within veins consists of chalcopyrite and galena and the historical sample database indicates some high-grade samples including 11.69 g/t Au. This zone was drilled with hole JK-19-001, which aimed directly underneath the main mass of quartz veins but it failed to intersect mineralization. It is likely that the main controlling structure is shallowly dipping to the west, as observed at Hematite Zone and within some of the veins at this trench. The vertical veins observed may be interpreted as tension gashes off the main, flatter, structure. This would explain the lack of veining underneath the zone in the drill hole.

Disseminated mineralization within the granite host rock is comprised of chalcopyrite and pyrite and occurs adjacent to veins in silicified zones of the granite at JK-SF-015 (Figure 10). The veining here dips shallowly to the northwest.

Along the access trail that runs west of the showing, a strongly weathered and carbonate altered granite was observed (Figure 11). The rock is extremely vuggy with open pores that contain a combination of carbonate, biotite and pyrite/chalcopyrite. A historic sample here returned 50 ppb Au but no Cu assays were reported (MP16WPT1143).



Figure 8: Quartz vein with crack and seal textures along margins at Hematite showing (JK-SF-013). Vein fibres oriented perpendicular to vein suggest extensional type veining. Pyrite and galena mineralization noted.



Figure 9: Stripped outcrop at North showing (top). Channel sampling completed by Santana Resources across quartz veining (bottom).



Figure 10: Shallowly dipping quartz veins at JK-SF-015 (left). Disseminated py and cpy mineralization in weakly silicified granite adjacent to veining also at JK-SF-015 (right).



Figure 11: Vuggy, carbonate altered granite with biotite/calcite/pyrite/chalcopyrite in void spaces (JK-SF-016)

Northern Au Showings

On July 5th Steve Flank and Wayne Richards drove to 3 locations in the northern part of the property to examine the Adit, Creek and John showings. A map of their location is shown in Figure 12 below. In comparison to the geology of the previous day, we are working across the contact of the Terrace Bay batholith and an inlier of mafic volcanic rocks. All showings are located proximal to this contact which may be an important structural feature for gold mineralization in the area.

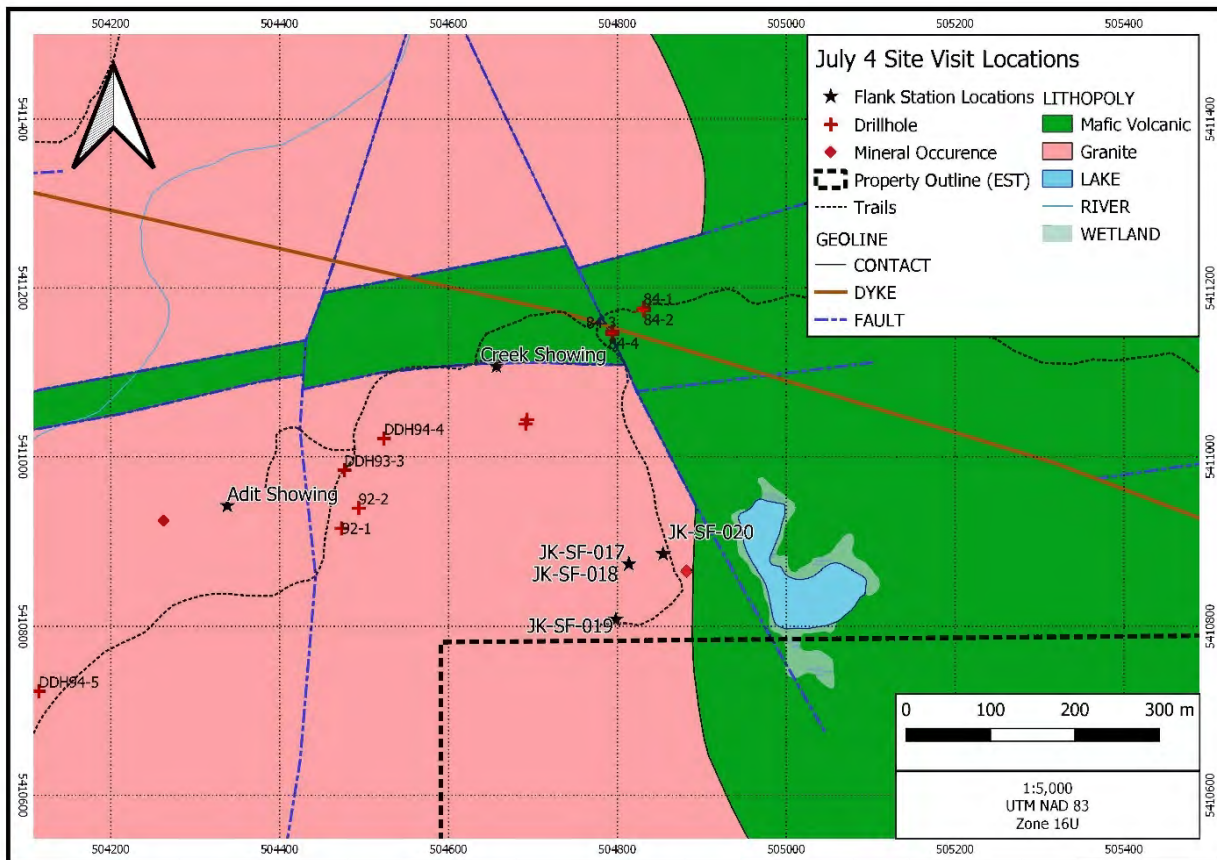


Figure 12: Map showing the locations of the Adit, Creek and Jon showings.

Adit Showing

The Adit showing is a 50m x 50m stripped outcrop located SE and above two adits where small scale gold mining took place historically (Figure 13). Fairly complex geology here and a review of the channel sampling and historic sampling did not seem to indicate strong mineralization.

The geology is quite variable with mica schists, granites, metasandstones, granite, gabbro, possibly syenite and abundant quartz veins observed. Strong folding is observed as open, z-shaped patterns in quartz veins and surrounding geology (Figure 14). Quartz veins are boudinaged in places, particularly when hosted

within mica schist which is schistose and appears to accommodate most of the strain (Figure 13). A shallow WNW plunge is inferred on the hinges of the folded quartz veins. The granite observed at the Adit showing is different in composition and structure here compared to the previous locations visited. It's comprised of 60% white feldspar, 30% quartz and 10% biotite.

The complex structural geology here may be worth further investigating but first a review of the character of the gold bearing structure in the two adits below should be completed to determine if there is a relationship between this trench and the mineralization below.



Figure 13: Adit showing stripped outcrop, looking NW.



Figure 14: Quartz vein folded around mica schist and sandstone units (left). Boudinaged quartz vein in mica schist (right).

Creek Zone

The creek showing area is located in a small creek bed that is quite overgrown. The showing itself was not located although two boulders of sulfide bearing quartz veins were observed in the rubble of the creek bed (Figure 15). It appears that in recent time a flood may have collapsed portions of the bank and pushed boulders on top of the mineralized vein itself. Adjacent wall rock was comprised of crenulated, schistose mafic volcanics that strike 78 degrees and dip 78 degrees. 1% euhedral pyrite was observed in these volcanics.



Figure 15: Creek Zone rubble pile concealing apparent location of showing (left). Quartz mineralized float in creek bed (right)

John's Showing

A series of stripped outcrops were observed at John's Showing with variable geology. At JK-SF-017 a shear zone with a series of quartz veins striking 37 degrees and dipping 42 degrees to the NW was noted (Figure 16). Veins anastomose within shear zone and range in thickness from 5cm to 2m. Most appear bullish/white but did locate an 8cm wide vein with blebs of chalcopyrite and galena (Figure 17). Wall rock surrounding the vein is strongly sheared. Altered granite within the shear zone hosts the quartz veins described above. Pervasive ankerite alteration causes the rock to crumble easily. 2-3% c.g-m.g euhedral pyrite at location JK-SF-017 (Figure 18).

In total the shear zone here is about 3.5m wide overall, strikes 37 degrees and dips 42 degrees to the NW. Competent granite in the hanging wall shows evidence of multiple pulses of granitic material. Massive, pink granite veins cut an inclusion bearing granite that is weakly foliated. The foliation, defined by biotite alteration trends 200 degrees while inclusions are preferably oriented at 310 degrees. Narrow (<1cm wide) extensional quartz veins are oriented oblique to the contact of the pink granite dyke which they are hosted within.



Figure 16: Shear zone with quartz veining exposed at JK-SF-016

Further south, there is a lot of rubble covering the majority of the ground, apparently a relic of previous mining activities. The trenches that are exposed do not contain much sulfide mineralization, but the rubble pile does contain quartz veining with chalcopyrite, galena and native silver Figure 18.

A large, stripped outcrop on east side of Jon Showing was the last site visited. Here, granite is in contact with mafic volcanic rocks, observed to brecciate and melt into them (Figure 20). A prominent 2m wide calcite vein trends 248 degrees and is surrounded by a 50cm halo of carbonate alteration and in-situ brecciation.



Figure 17: Chalcopyrite and galena in sulfide bleb at JK-SF-016. Hosted within 10cm wide quartz vein.

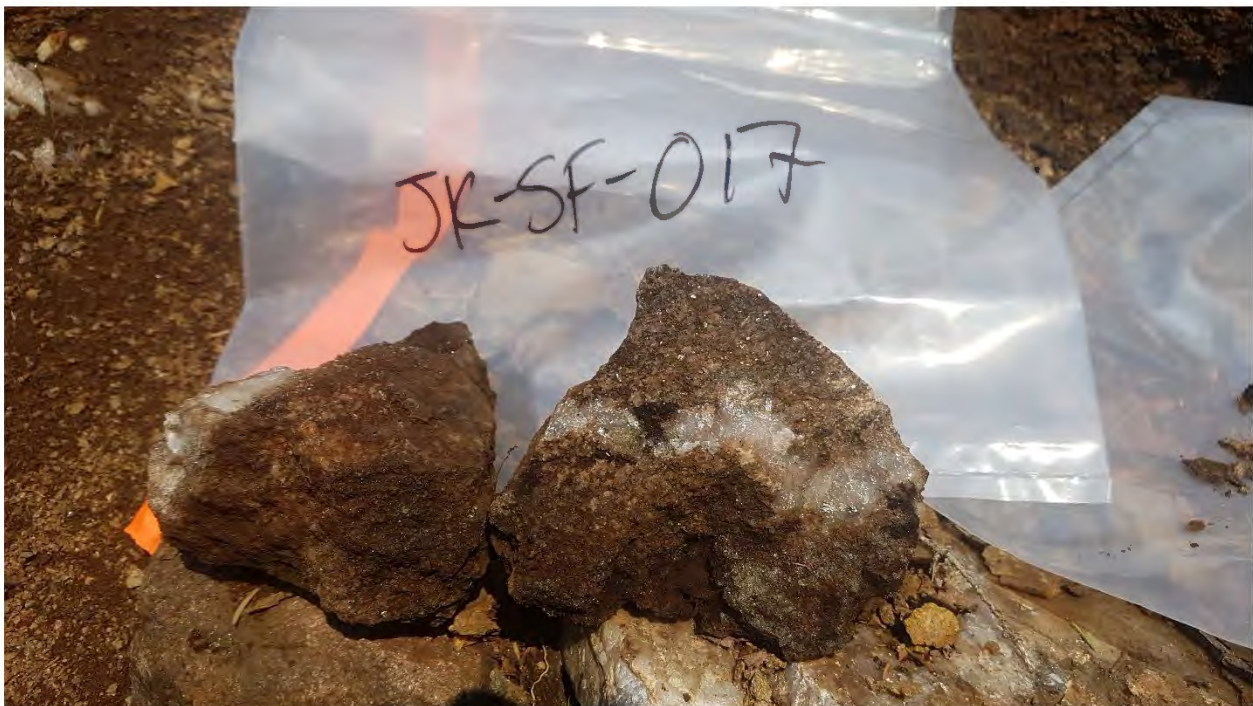


Figure 18: Ankerite altered granite host rock in adjacent to shear zone at JK-SF-018 (Note sample bag # is incorrect here).



Figure 19 Cpy, Ag and Gn mineralized quartz float in rubble pile at Jon showing.



Figure 20: Granite intruding and brecciating pillowed mafic volcanics at Jon showing North outcrop.

A total of 14 samples were collected for assay and elemental analysis. 6 of those results returned greater than 1 g/ton including one sample that returned 39.8 g/t Au from the North Zone trench area (Figure 4, Table 2).

Mineralization was confirmed at the North Zone (historic trench), and the Cliff Zone (historic grab samples). Anomalous mineralization was sampled at the Hematite Zone (historic trench).

Table 2: Significant results from Phase 1 sampling

| Sample ID | Date | Sample Medium | Easting | Northing | Zone | Lithology | Au (ppm) |
|-----------|----------|---------------|---------|----------|-------|-------------|----------|
| B731082 | 7/5/2021 | Outcrop | 504397 | 5408661 | North | Granite | 39.8 |
| B731076 | 7/4/2021 | Outcrop | 505145 | 5408003 | Cliff | Quartz Vein | 13.65 |
| B731078 | 7/4/2021 | Outcrop | 505172 | 5408016 | Cliff | Quartz Vein | 12.35 |
| B731077 | 7/4/2021 | Outcrop | 505172 | 5408016 | Cliff | Granite | 5.81 |
| B731079 | 7/4/2021 | Subcrop | 505160 | 5408029 | Cliff | Quartz Vein | 5.26 |
| B731075 | 7/4/2021 | Outcrop | 505122 | 5408006 | Cliff | Quartz Vein | 1.165 |
| B731081 | 7/4/2021 | Float | 505159 | 5408043 | Cliff | Granite | 0.605 |

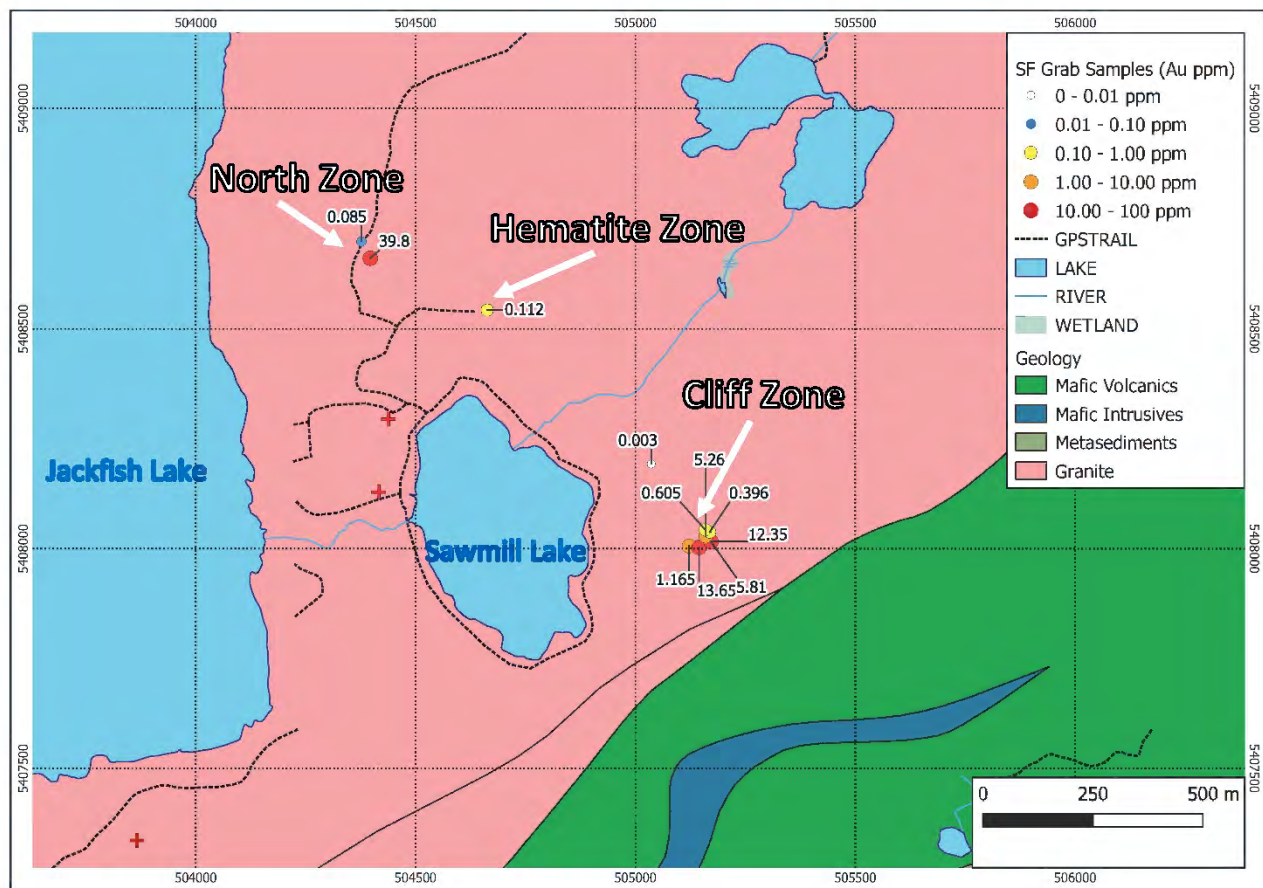


Figure 21: Significant results of phase 1 sampling program near Sawmill Lake.

Phase 2 Program

Based on the positive results from the first program, a follow up 2-week prospecting program was completed. On this prospecting program, the team focused on diligently exploring the south-eastern portion of the Terrace Bay Batholith across its contact with volcanic rocks of the Terrace Bay-Schreiber Greenstone belt. The second area of focus was further north on the property proximal to the historic gold showing at Creek Zone.

A total of 129 grab samples were collected during the campaign. Sampling focused on focusing on quartz veins and sulfide mineralization hosted within the granite. Known areas of gold mineralization were prospected and hand stripped using grub hoes to get better exposure in these areas. Sampling resulted in 18 samples with gold assay results greater than 0.1 g/t, 6 samples returned between 0.5 and 1.0 g/t, and 3 samples returned with results greater than 1.0 g/t. These results are summarized in Table 3 and Figure 21 shows locations of anomalous samples.

Prospecting around the North and Hematite Zones did not uncover any new gold showings. A series of diabase dykes are found between the two showings and no additional areas of quartz veining in the granite were observed.

A traverse completed up a small creek running from Sawmill Lake to Moon Lake revealed the presence of intensely altered granites suggestive of a fault zone through the area. Sampling did not return any significant results in this area, and it is unlikely this structure is directly related to gold mineralization.

The best results were returned from the Cliff Zone area. Workers delineated a broad area proximal to the southern contact of the Terrace Bay Batholith where sporadic quartz veining, alteration and sulfide mineralization was observed. Strong mineralization is confined to an area measuring 175m x 90m, appearing to follow an escarpment that trends NE-SW (Figure 22). Within this area historic blasted pits were observed which appear to be previously unsampled in modern times. Given the amount of moss and tree growth in these areas, these pits could have been blasted during the early days of exploration in the region. Pits were located in proximity to JK-RA-027, JK-RA-030 and JK-ML-040 which returned anomalous to mid-grade gold mineralization.

A new area of anomalous gold mineralization was located on the Eastern margin of the Terrace Bay Batholith in the vicinity of station JK-SF-114 and 115. Up to 0.43 g/t Au was returned from a rubble pile of carbonate altered, silicified and pyrite bearing granite. The style of mineralization here is the same as observed in the Cliff Zone and it's also likely that this exposure was due to historic blasting. Only one day was spent in this area but given the results a return visit is warranted.

Table 3: Significant results from Phase 2 sampling

| Station ID | Sample ID | Easting | Northing | Sample Medium | Lithology | Au (ppm) | Ag (ppm) | Cu (ppm) |
|------------|-----------|---------|----------|---------------|----------------|----------|----------|----------|
| JK-ML-082 | D904025 | 505149 | 5408009 | Outcrop | Granite | 23.3 | 114 | 4210 |
| JK-RA-043 | D904005 | 504395 | 5407585 | Float | Quartz Vein | 7.78 | 13.9 | 199.5 |
| JK-ML-040 | D579963 | 505214 | 5408048 | Outcrop | Granite | 3.33 | 18.6 | 535 |
| JK-SF-054 | D579917 | 505224 | 5408050 | Float | Quartz Vein | 0.92 | 14.85 | 21.2 |
| JK-RA-030 | D579940 | 505097 | 5408060 | Outcrop | Quartz Vein | 0.863 | 2.13 | 4.5 |
| JK-SF-052 | D579915 | 505229 | 5408062 | Outcrop | Granite | 0.708 | 2.1 | 6.1 |
| JK-RA-058 | D579998 | 504999 | 5407644 | Subcrop | Mafic Volcanic | 0.682 | 1.59 | 8 |
| JK-SF-053 | D579916 | 505229 | 5408062 | Outcrop | Granite | 0.566 | 1.84 | 4 |
| JK-RA-082 | D904034 | 505360 | 5408382 | Outcrop | Granite | 0.562 | 1.19 | 1480 |
| JK-SF-114 | D579987 | 505918 | 5408908 | Outcrop | Quartz Vein | 0.438 | 4.53 | 2.6 |
| JK-SF-051 | D579912 | 505229 | 5408060 | Outcrop | Granite | 0.372 | 1.2 | 4.5 |
| JK-SF-107 | D579980 | 504995 | 5407638 | Float | Granite | 0.258 | 0.39 | 21 |
| JK-RA-019 | D579935 | 505010 | 5408037 | Outcrop | Granite | 0.253 | 0.45 | 4.5 |
| JK-RA-057 | D579997 | 505160 | 5407869 | Subcrop | Granite | 0.24 | 0.29 | 2.3 |
| JK-SF-094 | D579972 | 505108 | 5407962 | Outcrop | Quartz Vein | 0.221 | 6.09 | 4.3 |
| JK-SF-106 | D579979 | 504992 | 5407652 | Outcrop | Granite | 0.221 | 0.62 | 9 |
| JK-SF-082 | D579967 | 504860 | 5407555 | Subcrop | Granite | 0.196 | 0.17 | 30.9 |
| JK-ML-076 | D904023 | 505137 | 5407829 | Float | Granite | 0.192 | 0.26 | 4.5 |
| JK-RA-041 | D904004 | 504438 | 5407421 | Outcrop | Quartz Vein | 0.164 | 0.65 | 10.7 |
| JK-SF-026 | D579905 | 505217 | 5408896 | Float | Quartz Vein | 0.155 | 2.54 | 16.1 |
| JK-ML-027 | D579951 | 504843 | 5408631 | Outcrop | Granite | 0.149 | 0.5 | 2 |
| JK-RA-033 | D579942 | 505106 | 5408023 | Outcrop | Granite | 0.149 | 0.32 | 4.8 |
| JK-RA-053 | D904006 | 505139 | 5407825 | Outcrop | Granite | 0.128 | 0.65 | 2.9 |
| JK-RA-069 | D904012 | 504872 | 5411024 | Outcrop | Quartz Vein | 0.127 | 9.52 | 108.5 |
| JK-RA-021 | D579936 | 505094 | 5408065 | Subcrop | Granite | 0.112 | 0.32 | 1.5 |
| JK-SF-115 | D579988 | 505929 | 5408884 | Subcrop | Granite | 0.109 | 0.22 | 1.2 |

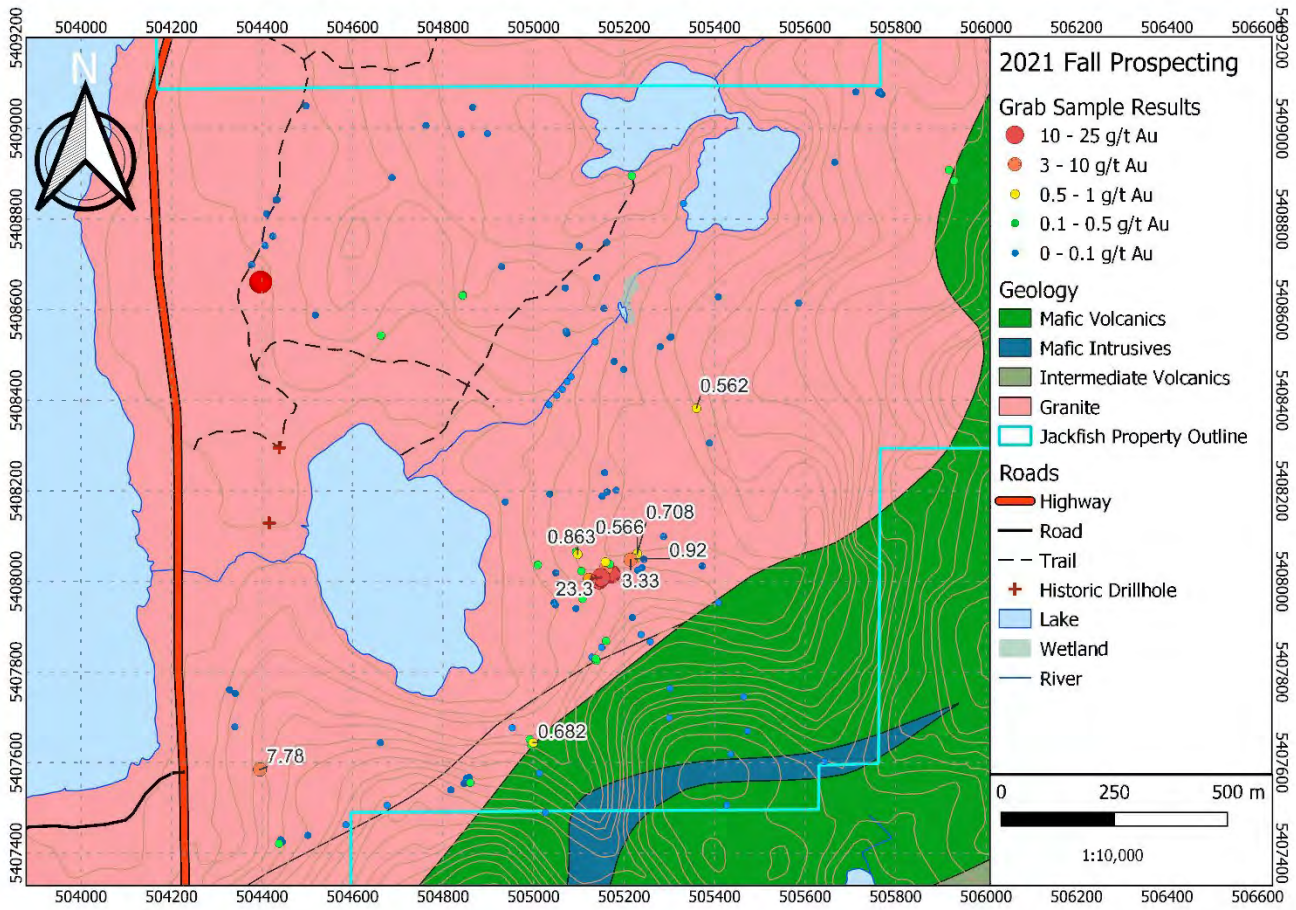


Figure 22: Significant results from the 2021 phase 2 prospecting program. Labels indicate phase 2 sample Au values (ppm).

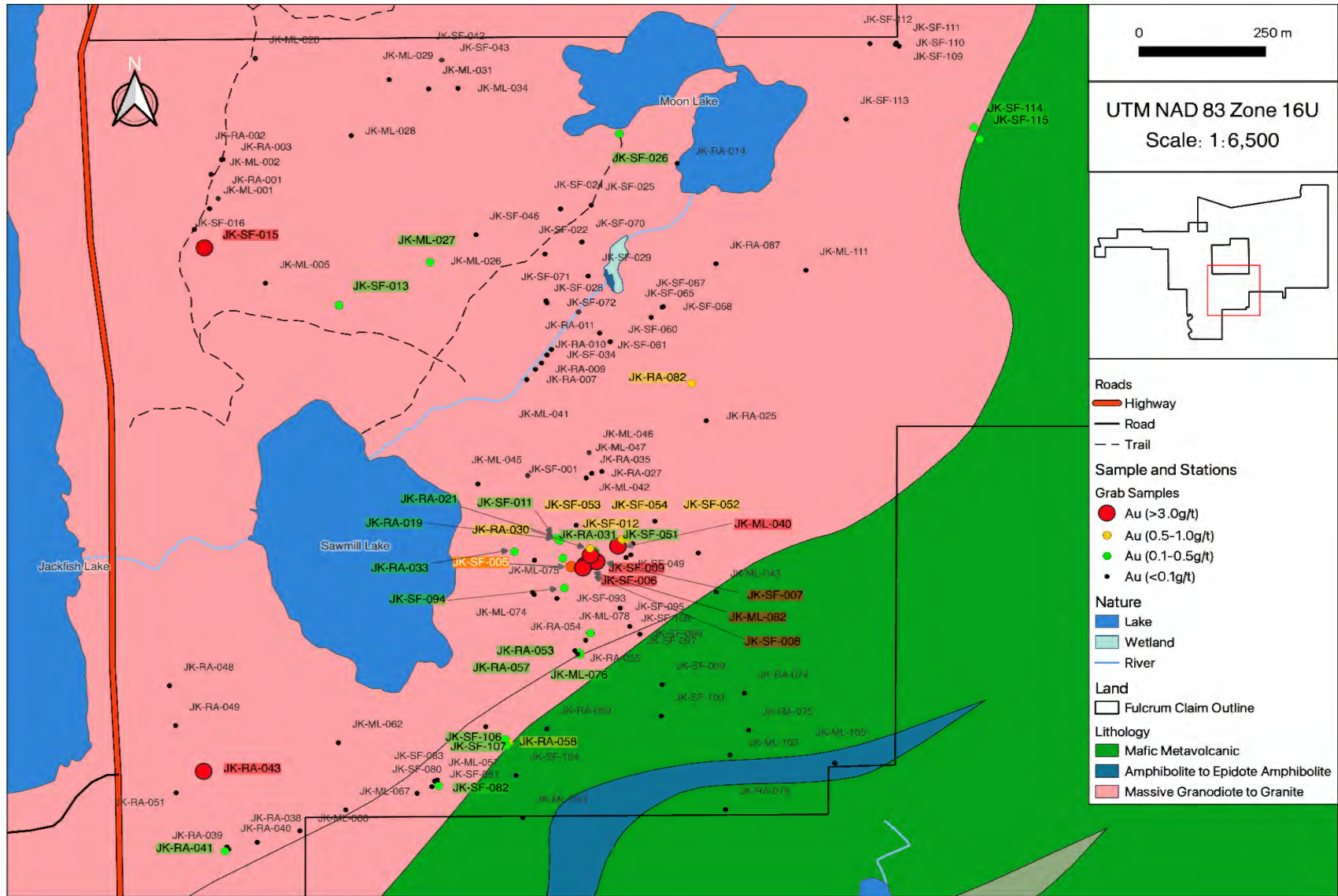


Figure 23: Combined results of the 2021 sampling program in the SE portion of the Jackfish Property.

CONCLUSIONS AND RECOMMENDATIONS

The 2021 prospecting program was successful in confirming the presence of historic Au mineralization on the Jackfish property near Sawmill Lake at the North and Cliff Zones. High grade gold mineralization is associated with pyrite-chalcopyrite-galena mineralization in quartz veins cutting granitic rocks of the Terrace Bay Batholith as well as within carbonate altered, sulfide bearing granite adjacent to vein systems.

This area has no historic record of modern geophysics or any drilling and represents an intriguing early-stage exploration prospect. Given the results of the 2021 program the following is recommended:

1. Additional prospecting along the contact of the Terrace Bay Batholith and the surrounding volcanic rocks. Particularly the eastern contact where anomalous gold samples were returned.
2. Establishment of a cut grid to cover the North Zone through to the Cliff Zone, terminating near the property boundary to the south and east.
3. Completion of an IP survey to identify areas of increased sulfide within the granite which appears to be related to quartz-carbonate alteration and gold mineralization
4. Trenching of any near surface anomalies where possible
5. Diamond drilling to test any anomalies at depth.

STATEMENT OF EXPENDITURES

| Description | Cost |
|-----------------------------|-----------------|
| July 4-5 Truck Rental Costs | \$180 |
| July 4-5 Geologist | \$1,500 |
| July 4-5 UTV Rental | \$400 |
| July 4-5 Accomodations | \$140 |
| July 4-5 Fuel | \$248 |
| July 4-5 Assays | \$1,101 |
| Phase 2 Mob | \$3,150 |
| Phase 2 Demob | \$3,150 |
| Phase 2 Field Supplies | \$250 |
| Phase 2 Prospecting Team | \$36,000 |
| Phase 2 Assays | \$9,440 |
| Assessment Report | \$4,000 |
| Total | \$59,558 |

| | |
|-----------------------|-----------------|
| Analysis Total | \$10,540 |
| Total Samples | 144 |
| Cost/Sample | \$73.20 |

| Claim Cell ID | # of Stations | # of Samples | Proportion of Stations | Proportion Cost | Samples Cost | Total Cost |
|---------------|---------------|--------------|------------------------|--------------------|--------------------|--------------------|
| 307524 | 55 | 33 | 17.68488746 | \$8,668.78 | \$2,415.60 | \$11,084.38 |
| 139528 | 34 | 20 | 10.93247588 | \$5,358.88 | \$1,464.00 | \$6,822.88 |
| 144971 | 28 | 16 | 9.003215434 | \$4,413.20 | \$1,171.20 | \$5,584.40 |
| 247682 | 28 | 8 | 9.003215434 | \$4,413.20 | \$585.60 | \$4,998.80 |
| 294830 | 24 | 5 | 7.717041801 | \$3,782.74 | \$366.00 | \$4,148.74 |
| 122023 | 26 | 13 | 8.360128617 | \$4,097.97 | \$951.60 | \$5,049.57 |
| 240191 | 21 | 11 | 6.752411576 | \$3,309.90 | \$805.20 | \$4,115.10 |
| 191502 | 13 | 4 | 4.180064309 | \$2,048.98 | \$292.80 | \$2,341.78 |
| 228824 | 12 | 5 | 3.8585209 | \$1,891.37 | \$366.00 | \$2,257.37 |
| 210289 | 14 | 4 | 4.501607717 | \$2,206.60 | \$292.80 | \$2,499.40 |
| 294831 | 10 | 5 | 3.215434084 | \$1,576.14 | \$366.00 | \$1,942.14 |
| 335121 | 6 | 2 | 1.92926045 | \$945.68 | \$146.40 | \$1,092.08 |
| 291176 | 2 | 2 | 0.643086817 | \$315.23 | \$146.40 | \$461.63 |
| 281329 | 8 | 3 | 2.572347267 | \$1,260.91 | \$219.60 | \$1,480.51 |
| 127476 | 6 | 3 | 1.92926045 | \$945.68 | \$219.60 | \$1,165.28 |
| 203647 | 5 | 1 | 1.607717042 | \$788.07 | \$73.20 | \$861.27 |
| 318736 | 5 | 3 | 1.607717042 | \$788.07 | \$219.60 | \$1,007.67 |
| 283111 | 1 | 1 | 0.321543408 | \$157.61 | \$73.20 | \$230.81 |
| 247681 | 2 | 3 | 0.643086817 | \$315.23 | \$219.60 | \$534.83 |
| 247684 | 3 | 1 | 0.964630225 | \$472.84 | \$73.20 | \$546.04 |
| 144970 | 2 | 1 | 0.643086817 | \$315.23 | \$73.20 | \$388.43 |
| 127475 | 2 | | 0.643086817 | \$315.23 | | \$315.23 |
| 307523 | 1 | | 0.321543408 | \$157.61 | | \$157.61 |
| 307013 | 1 | | 0.321543408 | \$157.61 | | \$157.61 |
| 247683 | 1 | | 0.321543408 | \$157.61 | | \$157.61 |
| 233320 | 1 | | 0.321543408 | \$157.61 | | \$157.61 |
| Total | 311 | 144 | 100 | \$49,018.00 | \$10,540.80 | \$59,558.80 |

10. SIGNATURES

I, Steven D. Flank, of the City of Thunder Bay, in the Province of Ontario, do hereby certify that:

1. I am the President and Principal Geoscientist of Bayside Geoscience Inc., a geological consulting company based in Thunder Bay, Ontario.
2. I am a member in good standing with the Association of Professional Geoscientists of Ontario (#2695), residing at 124 Sherwood Drive, Thunder Bay, Ontario, P7B 6L1.
3. I attained an H.BSc. in Geology from Lakehead University in Thunder Bay, Ontario (2011) and an M.Sc. in Mineral Exploration from Laurentian University in Sudbury, Ontario (2017).
4. I have worked as an exploration geologist for over 10 years focusing on project generation and early-stage gold projects including shear zone hosted lode gold and intrusion related disseminated gold deposits and intrusion related Ni-Cu-PGE deposits.
5. I personally conducted and supervised work at the 2021 Prospecting Program at the Jackfish Property as described in this report.

Dated

December 9th, 2021

Thunder Bay, Ontario, Canada



Steven D. Flank, M.Sc., P.Geo.

1. REFERENCES

Magnus, S.J., and K. A. Arnold. 2016. "Project NW-16-003 and Project Unit 15-004. Geology and Mineral Potential of the Western Schreiber-Hemlo Greenstone Belt." Ontario Geological Survey Open File Report 6323 p. 11-1 to 11-7.

McKenzie J., Ronacher E., Farahani F. "Independent Technical Report", Jackfish Property, Ontario, 2017. Prepared for Sanatana Resources Inc. Prepared by Ronacher McKenzie Geoscience Inc.

http://www.geologyontario.mndm.gov.on.ca/mndmfiles/afri/data/imaging/20000017310/20000017310_01.pdf

APPENDIX A: CLAIM DETAILS

| Claim ID | Claim Type | Expiry Date | HOLDER |
|----------|------------|-------------|---|
| 337090 | BCMC | 2022-05-07 | (100) WAYNE LARRY RICHARDS |
| 337091 | BCMC | 2022-05-07 | (100) WAYNE LARRY RICHARDS |
| 337092 | SCMC | 2022-05-07 | (100) WAYNE LARRY RICHARDS |
| 336508 | SCMC | 2021-07-08 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 341575 | SCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 341576 | SCMC | 2021-07-03 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 339099 | SCMC | 2022-03-03 | (100) WAYNE LARRY RICHARDS |
| 102707 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 102708 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 102709 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 106235 | SCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
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| 105921 | BCMC | 2021-07-26 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 103106 | SCMC | 2021-10-01 | (100) WAYNE LARRY RICHARDS |
| 103107 | SCMC | 2021-10-01 | (100) WAYNE LARRY RICHARDS |
| 106904 | BCMC | 2021-12-27 | (100) SANATANA RESOURCES INC. |
| 108758 | SCMC | 2022-03-18 | (50) WAYNE LARRY RICHARDS, (50) FRANCINE RICHARDS |
| 110004 | BCMC | 2022-06-07 | (100) SANATANA RESOURCES INC. |
| 113125 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 113704 | BCMC | 2022-04-08 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 109964 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 112281 | BCMC | 2022-04-21 | (100) MICHEL P. DORVAL |
| 112282 | BCMC | 2022-04-21 | (100) MICHEL P. DORVAL |
| 115450 | BCMC | 2021-11-03 | (100) WAYNE LARRY RICHARDS |
| 115453 | BCMC | 2022-07-11 | (100) SANATANA RESOURCES INC. |
| 115454 | BCMC | 2022-07-11 | (100) SANATANA RESOURCES INC. |
| 115455 | BCMC | 2022-07-15 | (100) SANATANA RESOURCES INC. |
| 118021 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 118022 | BCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 122291 | BCMC | 2022-04-21 | (100) MICHEL P. DORVAL |
| 122292 | BCMC | 2022-04-21 | (100) MICHEL P. DORVAL |
| 122023 | SCMC | 2021-07-03 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 127475 | BCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
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| 123323 | BCMC | 2022-03-18 | (50) WAYNE LARRY RICHARDS, (50) FRANCINE RICHARDS |
| 126667 | BCMC | 2022-04-21 | (100) MICHEL P. DORVAL |
| 128695 | BCMC | 2022-07-15 | (100) SANATANA RESOURCES INC. |
| 130508 | BCMC | 2022-03-16 | (100) SANATANA RESOURCES INC. |
| 131247 | BCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 130628 | BCMC | 2024-05-15 | (100) RUDOLF WAHL |
| 133940 | BCMC | 2021-12-09 | (100) WAYNE LARRY RICHARDS |
| 133941 | SCMC | 2021-12-09 | (100) WAYNE LARRY RICHARDS |
| 132007 | BCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 132008 | BCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
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| 137214 | BCMC | 2022-04-21 | (100) MICHEL P. DORVAL |
| 140620 | SCMC | 2022-04-08 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
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| 170146 | BCMC | 2022-04-16 | (100) SANATANA RESOURCES INC. |

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| 188425 | SCMC | 2021-10-01 | (100) WAYNE LARRY RICHARDS |
| 191037 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 191502 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 193480 | SCMC | 2022-05-07 | (100) WAYNE LARRY RICHARDS |
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| 195237 | BCMC | 2024-05-15 | (100) RUDOLF WAHL |
| 195084 | SCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 196724 | SCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
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| 200551 | SCMC | 2022-02-02 | (100) WAYNE LARRY RICHARDS |
| 199402 | BCMC | 2022-07-15 | (100) SANATANA RESOURCES INC. |
| 199475 | BCMC | 2021-12-11 | (100) SANATANA RESOURCES INC. |
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| 207416 | BCMC | 2022-07-15 | (100) SANATANA RESOURCES INC. |
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| 257436 | BCMC | 2022-04-21 | (100) MICHEL P. DORVAL |
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| 261907 | BCMC | 2022-03-16 | (100) SANATANA RESOURCES INC. |
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| 318736 | SCMC | 2022-03-30 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
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| 322143 | SCMC | 2022-05-07 | (100) WAYNE LARRY RICHARDS |
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| 322145 | BCMC | 2021-11-03 | (100) WAYNE LARRY RICHARDS |
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| 327794 | SCMC | 2021-07-03 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
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| 334219 | BCMC | 2022-06-27 | (100) OREN KRAVCHIK |
| 332816 | SCMC | 2021-12-09 | (50) JAMES MARK HAMEL, (50) WAYNE LARRY RICHARDS |
| 332243 | BCMC | 2024-05-15 | (100) RUDOLF WAHL |
| 334168 | BCMC | 2021-11-03 | (100) WAYNE LARRY RICHARDS |

APPENDIX B: DAILY WORK LOGS

| Date | Team | Station ID | Sample ID | Notes |
|------------|---|---|---|--|
| 2021-09-29 | Megan Landman [Geologist], Ram Abou-Shamalah [Geologist] | JK-ML-003 JK-ML-004 JK-RA-004 | D579945 D579946 D579947 D579948 | Location: Kellyn Objective: Given a tour of previously trenched areas and a history of the property by the local prospector Wayne Richards. Visited a mineralized zone with both teams, and then transected the northern part of the Jackfish Lake Property Notes: The land has steep elevation climbs and dense forest. The samples were taken on topographical highs, with little to no overburden. |
| 2021-09-30 | Megan Landman [Geologist], Cameron Mitchell [Field Assistant] | JK-ML-006 - JK-ML-019, JK- ML-021 - JK-ML-023 | D579948 | Location: Kellyn Objective: transect around the previous day, fill in the gaps and find any mineralized outcrops Notes: Filled in the gap in the previous day, and took over 13 station points, and 1 good sample of a mineralized outcrop. |
| 2021-10-01 | Megan Landman [Geologist], Steven Flank [Geologist], Dan Flank [Field Assistant] | JK-ML-024 JK-ML-025 JK-ML-030a JK-ML-032 JK-ML-033 JK-ML-035, JK-SF-035-JK-SF- 041, JK-SF-044 JK-SF-045 JK-SF-047 | D579949 D579951 D579952 D579953 D579954 D579955, D579909 D579910 D579911 | Location: Jackfish Lake, north of Sawmill Lake Objective: Continue to cover the land east of the previous 2 samples Notes: The area had lots of outcrops, the team took lots of samples and stations. Granites in this area were more magnetized than previous. Also noted white granite varieties and took measurements of the dyke that runs narrowly [relatively] through the property. |
| 2021-10-02 | Megan Landman [Geologist], Steven Flank [Geologist], Dan Flank [Field Assistant] | JK-ML-038, JK-SF-048 JK-SF-055 JK-SF-056 | D579961 D579962 D579963 D579964 D579965, D579914 D579913 D579912 D579915 D579916 D579917 | Location: Jackfish Lake, east of Sawmill Lake, and south of the river Objective: Exploring new areas, and mapping the targeted area of the project, which is the intensified squared area south of the exclusion zone on the property. Notes: Found mineralized float samples, took a few samples of quartz veining, and identified and sampled mineralized quartz outcrops, that contained disseminated pyrite |
| 2021-10-03 | Megan Landman [Geologist], Ram Abou-Shamalah [Geologist] | JK-ML-044 JK-ML-048 JK-ML-049 | D579958 D579959 D579960 | Location: Jackfish Lake, east of Sawmill Lake, and south of the river Objective: cover the unmapped area between the river and the 2 transects more south of the river. Notes: Took the prospecting route that Wayne Richards had developed over the years. Although it's not absolutely amazing, well-maintained it provides great access to parts of the property that would otherwise take a while to get to. During this transect the crew went over rocky terrain. In spite of these hurdles, good rusty, ankerite altered granites were observed and noted. In addition, the granites were mineralized. |
| 2021-10-04 | Megan Landman [Geologist], Ram Abou-Shamalah [Geologist], Cameron Mitchells [Field Assistant] | JK-ML-051 JK-ML-054 JK-ML-055 JK-ML-056 | D904006 D904007 | Location: Jackfish Lake, the southern extent of the property claim outline Objective: walk up the power-line which gives good exposure to outcrops that are on the property, then walk down the property, intersecting the cliff zone, and down the topographical highs to make notes of what we see The power-line runs on the topographical high, which the topographical highs surrounding the property are mafic volcanics, and down the topographical highs, towards Jackfish Lake, are the granites. As the team walked up the power-line, typical non-mineralized granites were observed, there was a few spots of rusty granites. As the team transected down the 'hill' there was mineralized areas, and especially the cliff zone, were highly mineralization sulfide was associated with the quartz vein, which the crew sampled and look around. |
| 2021-10-05 | Megan Landman [Geologist], Cameron Mitchell [Field Assistant] | JK-ML-058 JK-ML-059 JK-ML-060 JK-ML-063 JK-ML-064 JK-ML-065 JK-ML-068 | D904033 D904008 D904020 | Location: Jackfish Lake, the southern extent of the property claim outline Objective: transect between the previous route, along the powerline, and the route of the other team, which is west of Sawmill Lake Went up the topographical highs, and west of the cliff zone, to find perhaps another mineralized zone proximal to cliff and follow-up on the mineralization along the outcrop of the previous days. This section seemed dry compared to the last, but 3 samples were taken: Sulfur pocket sample, and a sample of rusty granite that was ankerite replaced. |
| 2021-10-06 | Megan Landman [Geologist], Cameron Mitchell [Field Assistant] | JK-ML-069 JK-ML-070 JK-ML-071 JK-ML-072 JK-ML-073 | | Location: Jackfish Lake, north-west most of the square intensified area Objective: Cover the west-most section of the squared area, follow-up on the previous 2 transects in the area Cameron's arm was injured so the team took a more relaxed day of taking proximal samples, and completed administrative duties by uploading GPS and cleaning data, back at the cottage |
| 2021-10-07 | Megan Landman [Geologist], Ram Abou-Shamalah [Geologist], Cameron Mitchells [Field Assistant] | JK-ML-077 JK-ML-079 JK-ML-080 JK-ML-081 | D904032 D904021 D904023 D904024 D904025 D904006 D579995 D579996 D579997 D579998 D579999 | Location: Jackfish Lake, southeast of Sawmill Lake Objective: complete a covering of the mapping area and explore unexplored areas Cover the area missed south of the river. There the team split apart and Cameron and Ram visited a mineralized river spot, with historical gold findings. There was floats near the outcrop with quartz and lots of sulfide mineralization. Took 2 samples of that. Along that same transect, we intersected mineralized mafic volcanics with disseminated 1-2% pyrite euhedral crystals. Megan resampled good looking mineralized granite. |
| 2021-10-08 | Megan Landman [Geologist], Ram Abou-Shamalah [Geologist] | | | Location: Kellyn. Observe the property, familiarize ourselves with the land, and view the previous trenching. |
| 2021-10-09 | Megan Landman [Geologist], Dan Flank [Field Assistant] | JK-ML-083 JK-ML-084 JK-ML-086 JK-ML-088 JK-ML-091 JK-ML-092 JK-ML-093 JK-ML-094 JK-ML-095 JK-ML-096 JK-ML-097 | D904026 D904027 D904028 D904029 | Location: Kellyn Objective: map and prospect the area between the 2 known mineralized and highly trenched areas Granites in this area were more magnetized than normal. In addition, the team found a contact between pillows and the granites. Mapped and sample various mafic rocks, such as diorite, basalt, diabase. |
| 2021-10-10 | Megan Landman [Geologist], Ram Abou-Shamalah [Geologist] | JK-ML-098 JK-ML-099 JK-ML-100 JK-ML-102 JK-ML-104 JK-RA-076 JK-RA-077 JK-RA-079 JK-RA-080 | D904030 D904032 D904017 D904018 D904019 | Location: Jackfish Lake, southeast of Sawmill Lake Objective: complete a covering of the mapping area and explore unexplored areas Notes: took the route along Sawmill Lake with the intention of transecting up the topographical high and sampling along the way. Then, to go northward along the power-line, and then transect again down the topographical high on a separate line. The weather was raining which made the steep terrain difficult and a slow endeavour. In spite of this, the team gathered 10 data points, and 5 samples. |
| 2021-10-11 | Megan Landman [Geologist], Ram Abou-Shamalah [Geologist] | JK-ML-106 JK-ML-107 JK-ML-108 JK-ML-109 JK-ML-110 JK-ML-112 JK-ML-113 JK-RA-081 JK-RA-082 JK-RA-083 JK-RA-084 JK-RA-085 JK-RA-086 | D904036 D904034 D904035 | Location: Jackfish Lake, around the river, north east of Sawmill Lake Objective: complete a covering of the mapping area and explore unexplored areas Notes: made a transect around the previous transects around the river, filling in the missing spots. Also visited previous historically blasted areas. Took many stations, but nothing extraordinary in terms of mineralization caught our attention enough to sample. |

| Date | Team | Start ID | Stop ID | Notes |
|------------|--|--|--|---|
| 2021-09-29 | Steven Flank [Geologist], Daniel Flank [Field Assistant], Cameron Mitchell [Field Assistant] | JK-SF-020 JK-SF-021 JK-SF-023 | D579902 D579903 D579904 D579905 | Location: Kellyn Objective: Given a tour of previously trenched areas and a history of the property by the local prospector Wayne Richards. Visited a mineralized zone with both teams, and then transacted the northern part of the Jackfish Lake Property Resampled the mineralized zones |
| 2021-09-30 | Steven Flank [Geologist], Daniel Flank [Field Assistant], Rami Abou-Shamalah [Geologist] | JK-RA-005 JK-RA-006 JK-RA-008 JK-RA-012 JK-RA-013 JK-RA-015 JK-RA-016 JK-SF-027 JK-SF-010 JK-SF-011 JK-SF-032 JK-SF-033 | D579930 D579931 D579932 D579933 D579934 D579906 D579907 D579908 | Location: Jackfish Lake Objective: Following the river upstream and transact down Notes: Beginning at the pathway from Jackfish cottages to the route around Sawmill, to get to the river. Then followed the river pathway upstream to the lake north-east. Took plentiful of samples and outcrops and made good observations of the mineralization trend in the river valley, which seemed to end near the northeast lake. |
| 2021-10-01 | Rami Abou-Shamalah [Geologist], Cameron Mitchell [Field Assistant] | JK-RA-017 JK-RA-018 JK-RA-020 JK-RA-023 JK-RA-024 JK-RA-026 JK-RA-028 JK-RA-029 | D579935 D579936 D579937 D579938 D579939 | Location: Jackfish Lake, east of Sawmill Lake, and south of the previous river transect Objective: Walk out structures searching for outcrop. Notes: The team traversed through tough terrain, made elevation gains of 500m or more and saw an overview of the mapping property. Noted a historically previously exploded area using dynamite. Also noted a few different varieties of granites, and familiarized ourselves with the different types of mineralizations. |
| 2021-10-02 | Rami Abou-Shamalah [Geologist], Cameron Mitchell [Field Assistant] | JK-RA-032 JK-RA-034 | D579940 D579941 D579942 D579943 | Location: Jackfish Lake, east of Sawmill Lake, same location as the previous day Objective: Fill in a smaller transect within the semi-circle of the previous day, and do more detailed search around the exploded mineralized parts Notes: Somewhat of a shorter transect because so much time was spent digging and taking detailed photographs. Also happened to find another location that was clearly blasted and we dug that out, and took more samples |
| 2021-10-03 | Steven Flank [Geologist], Cameron Mitchell [Field Assistant] | JK-SF-057 JK-SF-058 JK-SF-059 JK-SF-062 JK-SF-063 JK-SF-066 JK-SF-069 JK-SF-073 JK-SF-074 JK-SF-075 JK-SF-076 JK-SF-077 | D579918 D579919 D579920 D579921 D579922 D579923 D579924 D579926 | Location: Jackfish Lake, the upstream river from Sawmill Lake to the northeastern Lake Objective: Take a wider more expansive transect around the previous transect upstream the river. Notes: Though we took more of a distance from the river than the last route, we still experienced mineralization of the granites proximal to the river. There was very rusty granites, sulfur pockets, hematite replacement of the granites was common in this area. |
| 2021-10-04 | Steven Flank [Geologist], Daniel Flank [Field Assistant] | | | Notes: Administrative work back at Thunder Bay |
| 2021-10-05 | Rami Abou-Shamalah [Geologist], Dan Flank [Field Assistant] | JK-RA-036 JK-RA-037 JK-RA-042 | D579991 D904003 D904004 D904005 | Location: Jackfish Lake, West of Sawmill Lake Objective: Check out west of Sawmill Lake, on the satellite images it seems barren of outcrop and flat, but needs groundproofing Notes: The team took the route east of Sawmill Lake until the end of it, walked around the southern tip of the Lake, and continued on westward, noting any outcrops and taking samples along the way. On the way back, north back to the cottage, now west of Sawmill Lake, there was a very nice quartz vein / float, with the mineralized galena, and strong sulfide mineralization. No VG was noted but samples are interesting. The team also noted many topographical highs with lots of outcrop that were not visible on the satellite |
| 2021-10-06 | Rami Abou-Shamalah [Geologist], Dan Flank [Field Assistant] | JK-RA-044 JK-RA-045 JK-RA-046 JK-RA-047 JK-RA-050 JK-RA-052 | D579992 D579993 D579994 | Location: Jackfish Lake, West of Sawmill Lake, westmost portion of the squared mapping area Objective: Follow-up on the previous day, and map the unexplored areas Notes: The team continued to map the area west of Sawmill Lake. There we noted many different outcrop clusters of mafic volcanics and granites interspersed together. It was surprising given the lack of mafics on the geological map. The area was thoroughly mapped and the area west of Sawmill was now mapped. We noted many outcrops, and took as much as we could given the time. Mineralization of granites was few, and surely enough there was also lots of dry land near the topographical lows and sediment abundance of the Sawmill Lake. |
| 2021-10-07 | Steven Flank [Geologist], Daniel Flank [Field Assistant] | JK-SF-078 JK-SF-079 | D579965 D579966 D579967 D579968 | Location: Jackfish Lake, southeast of the river Objective: Stay in the vicinity of Team 1 and map in the general close area. Notes: found trailside outcrop of granite, about 15m north of contact with diabase, unaltered and non mineralized. In addition, about 30% amphibole rich sample with a late pegmatite vein that contacts the granite parallel to foliation. |
| 2021-10-08 | Steven Flank [Geologist], Daniel Flank [Field Assistant] | | | Location: Kellyn. Observe the property, familiarize ourselves with the land, and view the previous trenching, |
| 2021-10-09 | Steven Flank [Geologist], Rami Abou-Shamalah [Geologist] | JK-RA-062 JK-RA-063 JK-RA-065 JK-RA-066 JK-SF-086 JK-SF-087 JK-SF-088 | D904001 D904009 D904010 D904011 D904012 D904013 D904014 D904015 D904015 D579969 D579990 D579970 | Location: Kellyn Objective: map and prospect the area between the 2 known mineralized and highly trenched areas Notes: There is a historical gold sample running in the river that we were sampling near. We could not find it, but still managed to take good samples on the riverbed, of rusty granite and quartz veins, and on the walls of the valley created by the now quiet river. In addition, the team transacted away from the river, noted an old drill hole collar, and took many samples of mineralized granites. Granite was ankeritic altered along the river valley, and patches of rusty granitic were noted, as well. |
| 2021-10-10 | Steven Flank [Geologist], Daniel Flank [Field Assistant] | JK-SF-090 JK-SF-091 JK-SF-092 JK-SF-098 JK-SF-101 JK-SF-102 JK-SF-103 JK-SF-105 | D579971 D579972 D579973 D579974 D579976 D579977 D579989 D579978 D579979 D579980 D579981 | Location: Jackfish Lake, southeast of Sawmill Lake Objective: to transact up the topographical highs Notes: Check out the mineralization along the topo highs going up the mountain. Noted mineralized granites, and took many samples along the way. Noted that mineralization of granites was very localized. Ranging from not mineralized and weakly altered, to rusted and strongly ankeritic alteration. |
| 2021-10-11 | Steven Flank [Geologist], Daniel Flank [Field Assistant] | | D579982 D579983 D579984 D579985 D579986 D579987 D579988 | Location: Jackfish Lake, visited the north-east-most portion of the mapping area Objective: visit hard to access and underexplored area Notes: took a car for quite the length along a moderately maintained prospecting route through the property, along the south part of the exclusion zone to the property until we reached the north-east portion of the property. took 2 samples of 2cm wide quartz veins em bedded in altered granites. with 1% pyrite along the contact margins. |

APPENDIX C: STATION DESCRIPTIONS

| Station ID | Easting | Northing | Elevation | Lithology | Lith Mod | Minz #1 | (%) | Minz #2 | (%) | Notes |
|--------------|---------|----------|-----------|-------------|----------|--------------|-----|--------------|-----|--|
| JK-SF-001 | 505056 | 5408193 | 219 | Granite | | | | | | Stockwork area. Stripped outcrop approximately 25m long and approximately 5m tall. |
| JK-SF-002 | 505052 | 5408231 | 217 | Diorite | | | | | | Granite in contact with thin veneer of either diorite or mafic volcanic. Qtz flooding observed throughout granite and mafic unit. |
| JK-SF-003 | 505072 | 5408243 | 216 | Granite | | | | | | Same ridge. Station taken at last zone of Qtz veining before it transitions to a brick red, hem altered granite. No sulfide noted. |
| JK-SF-004 | 505023 | 5408162 | 224 | Granite | | | | | | White-beige granite with pervasive silica alteration. Silica alteration observed as smokey grey cherty overprint of granite. |
| JK-SF-005 | 505122 | 5408006 | 218 | Quartz Vein | | Pyrite | 2 | | | grey granite. Granite is same texture and composition as those observed in the Stockwork area. |
| JK-SF-006 | 505145 | 5408003 | 231 | Quartz Vein | | Chalcopyrite | 20 | Galena | 1 | 10cm wide Qtz vein with heavy cpv and galena minz. Cuts sericite altered granites. Multiple narrow veins subparallel appear more bullish. |
| JK-SF-007 | 505172 | 5408016 | 231 | Granite | | Pyrite | 5 | | | notebook |
| JK-SF-009 | 505160 | 5408029 | 225 | Quartz Vein | | Galena | 2 | Pyrite | 1 | Rubble pile of Qtz with granite. Ds galena and pyrite. Should run for sure. Sulfides are in crack-seal textures in veins. Sampled |
| JK-SF-010 | 505177 | 5408017 | 240 | Granite | | | | | | Station describes typical granite near Qtz veins. Red colour with 30% amphibole, 45% alkali feldspar, 35% Qtz. Jointing is prominent here and hosts Qtz veins in places. Brittle defm. |
| JK-SF-011 | 505169 | 5408038 | 201 | Granite | | Pyrite | 3 | Arsenopyrite | 1 | Bottom of cliff face. 10cm wide subhorizontal Qtz vein with pyrrasp in stockwork veining. Granite looks silicified as well. |
| JK-SF-012 | 505159 | 5408043 | 233 | Granite | | Chalcopyrite | 1 | Pyrite | 2 | Rubble pile on top of cliff face. Silicified and carbonatized (ankerite) granite with ds cpv-py-sph minz. Some samples here show ductile deformation. Strongest alteration seen so far. |
| JK-SF-013 | 504663 | 5408543 | 201 | Granite | | Pyrite | 5 | Galena | 2 | Some of the stripped outcrop of granite is a complex of prospect textures. Granite is beige pink in colour, generally massive and comprised of plagioclase, orthoclase, quartz and minor biotite. Shallowly dipping, narrow quartz veins terminate at a shear zone to the SE and pinch out to the NW. Previously channel sampled by Santana Gold (VR12192 is one sample ID observed). Veins are extensional with vein fibres oriented perpendicular to the contacts. All veining occupies a brittle structure that is 1.5m wide and dips shallowly to the NW. A hematite and carbonate altered shear zone causes granite to weather to rubble. Appears to display sinistral displacement evidenced by drag folds and displacement of the mineralized quartz vein. It displaces the vein by about 30cm. Sampled the vein where crack and seal textures are observed. 5% pyrite and 2% galena occupy cracks in the vein. |
| JK-SF-014 | 504412 | 5408665 | 202 | Granite | | | | | | Some of the stripped outcrop of granite is a complex of prospect textures. Granite is beige pink in colour, generally massive and comprised of plagioclase, orthoclase, quartz and minor biotite. Shallowly dipping, narrow quartz veins terminate at a shear zone to the SE and pinch out to the NW. Previously channel sampled by Santana Gold (VR12192 is one sample ID observed). Veins are extensional with vein fibres oriented perpendicular to the contacts. All veining occupies a brittle structure that is 1.5m wide and dips shallowly to the NW. A hematite and carbonate altered shear zone causes granite to weather to rubble. Appears to display sinistral displacement evidenced by drag folds and displacement of the mineralized quartz vein. It displaces the vein by about 30cm. Sampled the vein where crack and seal textures are observed. 5% pyrite and 2% galena occupy cracks in the vein. |
| JK-SF-015 | 504397 | 5408661 | 208 | Granite | | Pyrite | 2 | Chalcopyrite | 1 | silicified granite adjacent to quartz veins. Not so much in the veins themselves. Veins appear to dip shallowly to the west. |
| JK-SF-016 | 504377 | 5408699 | 202 | Granite | | Pyrite | 2 | Chalcopyrite | 0.5 | Strangely weathered granite beside trail near trenches. Appears vuggy with open pores partly filled with carbonate, biotite and euhedral py-yl-cpv. Looks like it could be part of a shear zone. Chlorite on broken surfaces with slickenlines. |
| JK-SF-017 | 504813 | 5410873 | 329 | Quartz Vein | | Chalcopyrite | 2 | Galena | 2 | Stripped outcrop exposing shear zone with a series of quartz veins striking 37 degrees and dipping 42 degrees to the NW. Veins anastomose within shear zone and range in thickness from 5cm to 2m. Most appear bullish/white but did locate an 8cm wide vein with blebs of chalcopyrite and galena. Wall rocks surrounding the vein is strongly sheared. |
| JK-SF-018 | 504813 | 5410873 | 329 | Granite | | | | | | 018. Pervasive ankerite alteration causes the rock to crumble easily. 2-3% c.g-m.g. euhedral pyrite. |
| JK-SF-019 | 504798 | 5410808 | 325 | Quartz Vein | | Chalcopyrite | 2 | Silver | 1 | Largely covered by blasted rock which contains boulders and rubble of quartz, calcite and wall rock. Observed one piece of rubble which contained 2% total chalcopyrite, native Ag and Galena. Note a shear zone in chlorite schist in this location with Az=240. |
| JK-SF-020 | 504854 | 5410885 | 331 | Granite | | | | | | Large stripped outcrop on east side of Jon Showing. Granite is in contact with mafic volcanic rocks, observed to brecciate and melt into them. 2m wide calcite vein trends 248 degrees and is surrounded by a 50cm halo of carbonate alteration and in-situ brecciation. |
| Adit Showing | 504338 | 5410942 | 350 | | | | | | | |

Geological Report

| Strat ID | Easting | Northing | Elev (m) | Lithology | Lith Mod | Mt #1 | % | Mt #2 | % | Notes |
|-----------|---------|----------|----------|----------------|----------|--------|---|-------|---|--|
| JK-ML-003 | 504431 | 5408842 | 211 | Mafic Volcanic | | Pyrite | | 3 | | Mafic volc unit becomes strongly foliated/schistose [1-2m thick unit] near contact with granite. |
| JK-ML-004 | 504555 | 5408635 | 227 | Gabbro | | | | | | |
| JK-ML-006 | 504448 | 5408396 | 214 | Mafic Volcanic | | Pyrite | | 1 | | Qtz-feldspar vein 1cm wide |
| JK-ML-007 | 504502 | 5408840 | 220 | Granite | | | | | | Regular of granite |
| JK-ML-008 | 504515 | 5408788 | 216 | Granite | | | | | | Granite |
| JK-ML-009 | 504497 | 5408756 | 214 | Gabbro | | Pyrite | | 5 | | Old trench |
| JK-ML-010 | 504473 | 5408746 | 213 | Granite | | | | | | Granite with 1cm or smaller Qtz veins. All unmineralized |
| JK-ML-011 | 504530 | 5408742 | 219 | Granite | | | | | | Qtz-feldspar dyke 3cm |
| JK-ML-012 | 504587 | 5408799 | 223 | Granite | | | | | | Granite |
| JK-ML-013 | 504678 | 5408845 | 232 | Dabase | | Pyrite | | 1 | | Dabase magnetic |
| JK-ML-014 | 504628 | 5408790 | 239 | Gabbro | | | | | | Pervasive Qtz veins, all 100's/5'sish - Heavy epidote alt |
| JK-ML-015 | 504607 | 5408711 | 236 | Gabbro | | | | | | Dabase |
| JK-ML-016 | 504610 | 5408653 | 229 | Granite | | | | | | below dabase sill |
| JK-ML-017 | 504632 | 5408570 | 223 | Granite | | | | | | Granite |
| JK-ML-018 | 504552 | 5408551 | 222 | Granite | | | | | | Granite weak mag |
| JK-ML-019 | 504552 | 5408596 | 207 | Granite | | | | | | Granite |
| JK-ML-021 | 504638 | 5408984 | 220 | Granite | | | | | | Weak mag |
| JK-ML-022 | 504654 | 5408980 | 224 | Syenite | | Pyrite | | 5 | | High potential for gold mineralization |
| JK-ML-023 | 504505 | 5408911 | 214 | Granite | | | | | | Granite |
| JK-ML-024 | 504738 | 5408596 | 210 | Granite | | | | | | Set of subparallel Qtz veins granite is magnetic |
| JK-ML-025 | 504844 | 5408627 | 236 | Gabbro | | Pyrite | | 2 | | Enclave within granite host. Fine grained. |
| JK-ML-026 | 504814 | 5409014 | 241 | Granite | | | | | | Granite |
| JK-ML-032 | 504847 | 5408974 | 251 | Granite | | | | | | Granite |
| JK-ML-033 | 504892 | 5409004 | 256 | Dabase | | Pyrite | | 1 | | Contact with granite |
| JK-ML-035 | 504926 | 5408719 | 236 | Granite | | | | | | Might be contact w mafic volcanic or dabase |
| JK-ML-038 | 505125 | 5408037 | 239 | Granite | | | | | | Bit rusty |
| JK-ML-044 | 504950 | 5408186 | 208 | Gabbro | | | | | | Hornblende alt. |
| JK-ML-048 | 505274 | 5408233 | 234 | Granite | | | | | | Granite dry |
| JK-ML-049 | 505158 | 5408331 | 232 | Mafic Volcanic | | | | | | Dy granite contact w basalt(?) Fol. is measured for granite... fault features |
| JK-ML-051 | 504563 | 5407438 | 270 | Granite | | | | | | Qtz vein network- most prominent trend 240 deg |
| JK-ML-052 | 504963 | 5407518 | 282 | Diorite | | Pyrite | | 1 | | Increasing frequency of intermediate/mafic boulders... trace py |
| JK-ML-054 | 505037 | 5407560 | 276 | Mafic Volcanic | | Pyrite | | 3 | | Chalkopyrite |
| JK-ML-055 | 505041 | 5407516 | 269 | Granite | | | | | | Same unit as ML 53 |
| JK-ML-056 | 504964 | 5407597 | 244 | Granite | | | | | | Dy granite |
| JK-ML-058 | 504632 | 5407747 | 207 | Granite | | | | | | Dy granite |
| JK-ML-059 | 504494 | 5407676 | 226 | Granite | | | | | | Granite boulder |
| JK-ML-060 | 504610 | 5407678 | 223 | Granite | | | | | | Minor fracture set |
| JK-ML-061 | 504622 | 5407666 | 222 | Granite | | | | | | Dy granite |
| JK-ML-062 | 504564 | 5407542 | 257 | Granite | | | | | | Dy granite with 295 fracture set |
| JK-ML-064 | 504506 | 5407506 | 259 | Granite | | | | | | Dy granite - weak mag |
| JK-ML-065 | 504561 | 5407446 | 269 | Granite | | | | | | Permatite dike |
| JK-ML-068 | 504736 | 5407601 | 239 | Granite | | | | | | weakly hematite altered |
| JK-ML-069 | 504450 | 5409063 | 210 | Granite | | | | | | Dy granite |
| JK-ML-070 | 504363 | 5408965 | 210 | Granite | | | | | | Dy granite |
| JK-ML-071 | 504351 | 5408921 | 214 | Granite | | | | | | Dy granite |
| JK-ML-072 | 504359 | 5408857 | 210 | Granite | | | | | | Dy granite w repeating fracture set |
| JK-ML-073 | 504365 | 5408767 | 204 | Granite | | | | | | Dy granite |
| JK-ML-077 | 505151 | 5407847 | 223 | Mafic Volcanic | | Pyrite | | 1 | | Check samples for circular mineral |
| JK-ML-079 | 505112 | 5407891 | 214 | Mafic Volcanic | | Pyrite | | 1 | | Magnetite |
| JK-ML-080 | 505096 | 5407925 | 218 | Quartz Vein | | Pyrite | | 1 | | Sharp contact with granite. Mafic volcanic is highly magnetic |
| JK-ML-081 | 505110 | 5407996 | 234 | Granite | | Pyrite | | 1 | | Granite with multiple parallel quartz veins, 1-5cm thick. Co occurs with black mineral though longitudinal section |
| JK-ML-083 | 504713 | 5411170 | 304 | Mafic Volcanic | Pillowed | Pyrite | | 1 | | Trace py in granite |
| JK-ML-084 | 504743 | 5411176 | 309 | Mafic Volcanic | | Pyrite | | 2 | | Contact w pillow basalt [East] and granite [West] |
| JK-ML-086 | 504751 | 5411330 | 318 | Diorite | | | | | | Highly magnetic. Contact with granite enclaves observed ten metres away |
| JK-ML-088 | 504790 | 5411398 | 320 | Mafic Volcanic | | | | | | Diorite |
| JK-ML-091 | 504693 | 5411500 | 306 | Granite | | | | | | Seems to be alternating layers of basalt and diorite/granodiorite |
| JK-ML-092 | 504631 | 5411416 | 300 | Mafic Volcanic | | Pyrite | | 0 | | Mafic clasts in granite |
| JK-ML-093 | 504595 | 5411390 | 286 | Mafic Volcanic | | | | | | Trace py in fine grained basalt |
| JK-ML-094 | 504556 | 5411336 | 272 | Granite | | | | | | Foliated schistose mafic volcanic. Unmineralized |
| JK-ML-095 | 504835 | 5411227 | 258 | Diorite | | | | | | Looks rusty but lacks mineralization |
| JK-ML-096 | 504419 | 5411172 | 265 | Diorite | | | | | | Mixing of basalt and diorite. Basalt enclaves in diorite [or granodiorite] host. |
| JK-ML-097 | 504450 | 5411128 | 271 | Mafic Volcanic | | Pyrite | | 1 | | Pure diorite unmineralized with large fracture through outcrop |
| JK-ML-098 | 505166 | 5407941 | 222 | Granite | | | | | | 15E/NW |
| JK-ML-099 | 505279 | 5407918 | 215 | Granite | | | | | | Basalt mineralized w pyrite |
| JK-ML-100 | 505364 | 5407856 | 251 | Granite | | | | | | Dy granite |
| JK-ML-101 | 505467 | 5407777 | 267 | Mafic Volcanic | | Pyrite | | 1 | | Dy granite with weak hematite alteration |
| JK-ML-102 | 505472 | 5407740 | 321 | Mafic Volcanic | | | | | | Mafic volcanic subcrop surrounded by boulders of same lithology. |
| JK-ML-103 | 505360 | 5407501 | 366 | Mafic Volcanic | Pillowed | | | | | Trace pyrite |
| JK-ML-106 | 505386 | 5408413 | 240 | Granite | | | | | | Stockwork vein system in mafic unit |
| JK-ML-107 | 505400 | 5408403 | 263 | Granite | | | | | | North is up [younging direction] |
| JK-ML-108 | 505427 | 5408389 | 270 | Mafic Volcanic | Dyke | Pyrite | | 2 | | Dy granite |
| JK-ML-109 | 505525 | 5408423 | 281 | Granite | | | | | | Mafic volcanic subcrop surrounded by boulders of same lithology. |
| JK-ML-110 | 505541 | 5408515 | 283 | Granite | | | | | | Trace pyrite |
| JK-ML-112 | 505552 | 5408720 | 255 | Mafic Volcanic | | | | | | Rust pervasive through unit - appears as if pyrite has oxidized out |
| JK-ML-113 | 505311 | 5408665 | 247 | Granite | | | | | | Strongly magnetic enclave(?) Of volcanic unit surrounded by granite on either side. Possibly mafic dike |
| JK-RA-004 | 504544 | 5408622 | 230 | Gabbro | | | | | | Dy granite |
| JK-RA-005 | 504887 | 5408399 | 191 | Granite | | | | | | Real elevation relative to surrounding terrain. Purple staining, magnetic weakly overall, magnetic phenocrysts, dabase |
| JK-RA-006 | 505012 | 5408369 | 188 | Granite | | | | | | Granite no mineralization, massive, baring |
| JK-RA-008 | 505037 | 5408401 | 203 | Granite | | | | | | Typical massive granite, angular boulders found in creek bed. Quartz megacrysts in a potassium enriched granite |
| JK-RA-012 | 505122 | 5408529 | 218 | Syenite | | | | | | Granite typical with out any indicators of mineralization |
| JK-RA-013 | 505264 | 5408710 | | Granite | | | | | | On the northern side of the creek, a relief topography, strongly mineralized and granite weathered shear indicator with strong fractures shallow dipping localized and concordant to the creek direction |
| JK-RA-015 | 505102 | 5408902 | 251 | Granite | | | | | | Typical granite |
| JK-RA-016 | 505271 | 5408888 | 248 | Granite | | | | | | Granitic altered with hornblende perthite, notably more salmon and purple amorphous groundmass |
| JK-RA-017 | 505012 | 5408033 | 211 | Dabase | Dyke | Pyrite | | 3 | | White granite with smoky quartz vein |
| JK-RA-018 | 505012 | 5408036 | 213 | Granite | | Pyrite | | 1 | | 4 inch wide mafic dike shallow dipping subparallel contacting weakly altered granite, sulfide mineralization contains pyrite, chalcocite |
| JK-RA-020 | 505071 | 5408015 | 233 | Granite | | | | | | Chlorite altered w/ trace sulfides |
| JK-RA-021 | 505116 | 5408189 | 241 | Granite | | | | | | Pink granite |
| JK-RA-024 | 505407 | 5408279 | 266 | Granite | | | | | | Purple to blue colored groundmass no mineralization |
| JK-RA-026 | 505191 | 5408170 | 243 | Granite | | | | | | Granite neither completely salmon nor white but a mix between the two 50/50 |
| JK-RA-028 | 505092 | 5408186 | 228 | Granite | | | | | | Salmon granite |
| JK-RA-029 | 505038 | 5407727 | 203 | Diorite | | Pyrite | | 1 | | Dick blue purple groundmass chert |
| JK-RA-032 | 505098 | 5408061 | 234 | Quartz Vein | | Pyrite | | 1 | | Looks ultra mafic, black to dark blue groundmass with epidote altered feldspar? irregular subdial hornblende |
| JK-RA-034 | 505185 | 5408046 | 242 | Dabase | | Pyrite | | 2 | | 4 inch milky quartz rusted strongly at contact with granite host, mineralization present |
| JK-RA-036 | 504887 | 5407607 | 238 | Granite | | | | | | Rusted and purple stained angular boulder 1.0m2m trace mineralization |
| JK-RA-037 | 504494 | 5407500 | 255 | Dabase | | | | | | White granite w/ 25 % mafic comp, crossset fractured |
| JK-RA-042 | 504990 | 5407570 | 232 | Dabase | | | | | | Basalt to dabase host with granite dike fracturing consistent with region direction |
| JK-RA-044 | 504426 | 5407936 | 200 | Dabase | | | | | | Almost perpendicular late fracturing cross-sets, the vertical fracture defines contact between granite and volcanic. Volcanics are rusty with purple staining but no mineralization |
| | | | | | | | | | | 30x30m outcrop of massive, purple stained, basalt to dabase. |

| Station ID | Easting | Northing | Elevation | Lithology | Lith. Mod. | Mineral | Qz | Mineral | Qz | Notes |
|------------|---------|----------|-----------|----------------|--------------|---------|----|--------------|----|---|
| JF-RA-045 | 504370 | 5407905 | 201 | Granite | | | | | | White granite, no mineralization, massive |
| JF-RA-046 | 504327 | 5407778 | 213 | Granite | | | | | | White granite host with micro to coarse quartz veining parallel system, trending north-south |
| JF-RA-047 | 504186 | 5407857 | 211 | Dabase | | Pyrite | 1 | | | Mineralized basalt |
| JF-RA-050 | 504374 | 5407511 | 224 | Granite | | | | | | Chlorite altered white granite, massive, weakly fractured |
| JF-RA-052 | 504295 | 5407678 | 209 | Dabase | | | | | | blobby patches of larger than usual grain sized granites with prominent red color alteration in a very fine grained mafic volcanic |
| JF-RA-062 | 504700 | 5411100 | 322 | Gabbro | | Pyrite | 1 | | | Chlorite altered gabbro, trace sulfides, quartz coarse veins throughout and granitic dikes gradate locally in the gabbro with feldspar phenos |
| JF-RA-063 | 504667 | 5411057 | 293 | Mafic Volcanic | | Pyrite | 1 | | | Greenstone mafics with felsic veining and later quartz veins |
| JF-RA-065 | 504734 | 5411111 | 297 | Gabbro | | | | | | Gabbro just meters from the fault, felsic veining, south dipping veins are between 3 to 7 inches wide in areas of other vein system smaller |
| JF-RA-066 | 504783 | 5411089 | 312 | Gabbro | | | | | | Gabbro host with early N-S trending felsic veining offset by a later foliated, |
| JF-RA-067 | 504853 | 5411055 | 332 | Gabbro | | Pyrite | 1 | Chalkopyrite | 1 | Chlorite altered gabbro with feldspar phenocrysts euhedral salmon to orange colored, looks porphyritic |
| JF-RA-076 | 505383 | 5407512 | 369 | Mafic Volcanic | | | | | | Massive basalt, patchy rust, barren quartz veining |
| JF-RA-077 | 505329 | 5407500 | 371 | Mafic Volcanic | Lapilli Tuff | | | | | Lapilli tuff on the powerline, weakly trending north-west, patchy rust |
| JF-RA-079 | 505645 | 5407619 | 327 | Melagabbro | | Pyrite | 1 | | | Basalt host with carbonate veins trending same as pillowz, rusty stringers with associated pyrite |
| JF-RA-080 | 505639 | 5407629 | 309 | Mafic Volcanic | | Pyrite | 1 | | | Moderately to strong foliation, a 20m stretch, trending parallel to creek direction, of rusted mafic, foliated, contacting rusted but non mineralized granite |
| JF-RA-081 | 505111 | 5408316 | 219 | Syenite | | | | | | Massive, non altered quartz and feldspar syenite |
| JF-RA-082 | 505360 | 5408382 | 249 | | | | | | | |
| JF-RA-083 | 505431 | 5408388 | 299 | Granite | | | | | | Mix of white and pink granite with fine grained biotite clusters and medium grained biotite sheets |
| JF-RA-084 | 505505 | 5408389 | 282 | Granite | | | | | | Pink granite, weakly alt, amphiboles, medium grain biotite sheets |
| JF-RA-085 | 505535 | 5408344 | 281 | Granite | | | | | | Weakly patchy rusted pink granite |
| JF-RA-086 | 505589 | 5408663 | | Granite | | | | | | White, K depleted granite, massive |
| JF-SF-020 | 504866 | 5408520 | 210 | Granite | | | | | | Ridge on side of hill which was mostly boulders. Mg granite. Red-pink. qtz-plug-like parallel. Very weak sericitic. |
| JF-SF-021 | 504941 | 5408576 | 225 | Granite | | | | | | Low lying moss covered outcrop on snowmobile trail. Poor exposure but looks like typical granite. Non mineralized. |
| JF-SF-023 | 505129 | 5408691 | 240 | Granite | | | | | | Series of outcrops on east side of trail. Generally all msv granite. No sulfide or qtz veining. |
| JF-SF-027 | 504848 | 5408629 | 229 | Gabbro | Dyke | | | | | F.g msv diabase in secondary creek. Magnetic. Guesses on trend based on sighting of outcrop. |
| JF-SF-030 | 505241 | 5408694 | 228 | Granite | | | | | | brick red granite with prominent qtz crystals. Feldspar groundmass is red, crystal structure appears to be destroyed, giving rock an anhedral appearance. |
| JF-SF-031 | 505358 | 5408686 | 239 | Gabbro | Dyke | | | | | Poorly exposed diabase dyke on shore of Moon lake |
| JF-SF-032 | 505404 | 5408985 | | Granite | | | | | | Lake side oc of white granite-granodiorite |
| JF-SF-033 | 505319 | 5408945 | 239 | Gabbro | | | | | | F.g diabase dyke adjacent to granite. |
| JF-SF-035 | 504843 | 5408621 | | Gabbro | | | | | | Second oc of gabbro or mafic volcanic, same as ML-Q25. 10% biotite and 5% k-spar. Appears to trend roughly N-S |
| JF-SF-036 | 504852 | 5408722 | 230 | Granite | | | | | | 50m long white granite ridge trends around 140 degrees. Located 40m from gabbro ridge to the west. Contact lies between |
| JF-SF-037 | 504641 | 5408788 | 224 | Dabase | | | | | | Mg subophitic diabase dyke. Within 30m of south contact with granite. |
| JF-SF-038 | 504678 | 5408876 | | Granite | | | | | | First oc of granite near diabase. Red-orange due to hem atn. Remobilized by diabase? |
| JF-SF-039 | 504702 | 5408999 | 235 | Dabase | | | | | | Diabase dyke in contact with granite. 2.50cm wide blocks of granite within dyke. Looks like it lines up with other diabase to the SW. |
| JF-SF-040 | 504668 | 5408874 | 221 | Dabase | | | | | | Mg diabase on trend with sf 09. Likely centre of dyke. |
| JF-SF-041 | 504843 | 5409074 | | Granite | | | | | | White unaltered granite from here to 50m west. |
| JF-SF-044 | 505021 | 5408948 | | Granite | | | | | | Grey-white granite all along this top high. Lots of outcrop but nothing of interest. |
| JF-SF-045 | 504998 | 5408762 | 250 | Granite | | | | | | Series of rugged outcrops of red granite. Possible diabase alteration? |
| JF-SF-047 | 504911 | 5408597 | 228 | Granite | | | | | | White granite with 2cm wide bull qtz vein |
| JF-SF-048 | 505039 | 5408044 | 231 | Granite | | | | | | Unaltered granite ridge trends roughly N-S. Prospected 40m along and no veins out mine. |
| JF-SF-055 | 505222 | 5408097 | 237 | Granite | | | | | | Weakly foliated granite. Note a thin layer of ankerite alteration at surface |
| JF-SF-056 | 505431 | 5407999 | 223 | Granite | | | | | | 30m long oc of red granite. Round the odd narrow up but not worth sampling. Approaching contact with volcanics. |
| JF-SF-057 | 505006 | 5408258 | 205 | Granite | | | | | | Pink-white granite with 3-5cm 3-qtz tourmaline vein. Tourm forms along margins of vein and with in shear fabric. |
| JF-SF-058 | 505159 | 5408433 | 228 | Granite | | | | | | Ridge oc of red granite. Minor sub cm scale qtz vein observed looks bullish. |
| JF-SF-059 | 505205 | 5408419 | 221 | Mafic Volcanic | | | | | | Small enclave of mafic volcanics within granite. Strongly foliated with slickenlines comprised of chlorite. Not continuous. |
| JF-SF-062 | 505203 | 5408497 | 233 | Dabase | | | | | | F.g grey diabase with c.g. plag phenocrysts. Magnetic. |
| JF-SF-063 | 505220 | 5408501 | 233 | Granite | | | | | | Granite at contact with diabase to south. Sharp contact trends roughly E-W |
| JF-SF-066 | 505288 | 5408520 | 244 | Dabase | | | | | | Narrow diabase dyke poorly exposed. Trends E-W between granite exposure on either side. |
| JF-SF-069 | 505227 | 5408641 | 231 | Granite | | | | | | Small oc of white granite on shore of beaver pond/creek. Looks like tonalite here. |
| JF-SF-073 | 505029 | 5408520 | 227 | Granite | | | | | | Outcrop on west side of ravine. Lithology point for map. |
| JF-SF-074 | 504914 | 5408435 | 213 | Granite | | | | | | White unmineralized granite. |
| JF-SF-075 | 504974 | 5408404 | 208 | Granite | | | | | | Unmineralized white-pink granite. |
| JF-SF-076 | 504466 | 5408358 | 213 | Dabase | | | | | | High standing ridge of diabase south of trench access trail. |
| JF-SF-077 | 504430 | 5408522 | 201 | Granite | | | | | | Trail side outcrop of granite about 15m north of contact with diabase. Unaltered, not mineralized. |
| JF-SF-078 | 504751 | 5407480 | 312 | Granite | | | | | | Amphibole rich (30%), foliated granite. Foliation defined by amphibole orientation. Late pegmatite vein cuts granite roughly parallel to foliation. |
| JF-SF-079 | 504763 | 5407487 | 304 | Dabase | | | | | | Narrow diabase dyke exposed along edge of oc. F.g and moderately magnetic. |
| JF-SF-086 | 504644 | 5411032 | 284 | Dabase | | | | | | Diabase dyke intruding gneissic granite. F.g chilled, with blocks of granite in dyke. |
| JF-SF-087 | 504740 | 5411105 | 306 | Dabase | | | | | | Small ridge of diabase near contact with gabbro-granite. Massive, weakly magnetic. |
| JF-SF-088 | 504852 | 5410987 | | Mafic Volcanic | | | | | | Outcrop exposed along creek bed. Now mafic volcanic with numerous felsic-aplitic dikes cross cutting |
| JF-SF-090 | 504969 | 5407944 | 191 | Granite | | | | | | 10m long oc exposed in creek bed. Hard to sample but looks like red granite, non mineralized. |
| JF-SF-091 | 505040 | 5407972 | 197 | Granite | | | | | | Low lying oc of unaltered granite with a narrow qtz vein along face. Oc is too rounded to sample with hammer. No minz noted, not altered. |
| JF-SF-092 | 505050 | 5407999 | 203 | Granite | | | | | | Small ridge of unmineralized unaltered granite. |
| JF-SF-098 | 505289 | 5407786 | | Granite | | | | | | Walked up about 100m of similar white, unaltered granite. |
| JF-SF-101 | 505295 | 5407669 | | Mafic Volcanic | | | | | | First outcrop of mafic volcanic south of granite. Grey, massive, foliated. |
| JF-SF-102 | 505071 | 5407562 | 233 | Mafic Volcanic | | | | | | Massive mafic volcanic in creek bed. Outcrop or huge boulder. |
| JF-SF-103 | 505067 | 5407592 | 236 | Mafic Volcanic | | | | | | Definite outcrop of msv mafic volcanics. Good control pt for map. Granitic outcrop that is more mafic than typical granite. Cut by narrow diffuse red veins. 49% amphibole, 40% plag, 15% qtz |
| JF-SF-105 | 505007 | 5407577 | 250 | Diorite | | | | | | |

| Station_ID | Alteration | Alt Intensity | Alt. Style | Alteration #2 | Alt Intensity | Alt. Style |
|--------------|------------|---------------|------------|---------------|---------------|------------------|
| JK-SF-001 | Silica | Strong | Veins | | | |
| JK-SF-002 | Silica | Moderate | Pervassive | Chlorite | Weak | Pervassive |
| JK-SF-003 | Silica | Strong | Veins | | | |
| JK-SF-004 | Silica | Strong | Pervassive | | | |
| JK-SF-005 | | | | | | |
| JK-SF-006 | Sericite | Moderate | Pervassive | | | |
| JK-SF-007 | Sericite | Moderate | Pervassive | | | |
| JK-SF-009 | | | | | | |
| JK-SF-010 | Hematite | Weak | Pervassive | | | |
| JK-SF-011 | Silica | Moderate | Veins | | | |
| JK-SF-012 | Silica | Moderate | Veins | Ankerite | Moderate | Pervassive |
| JK-SF-013 | Ankerite | Moderate | Pervassive | Hematite | Moderate | Pervassive |
| JK-SF-014 | Silica | Moderate | Veins | | | |
| JK-SF-015 | Silica | Strong | Veins | | | |
| JK-SF-016 | Ankerite | Strong | Pervassive | Chlorite | Weak | Fracture Filling |
| JK-SF-017 | | | | | | |
| JK-SF-018 | Ankerite | Moderate | Pervassive | | | |
| JK-SF-019 | | | | | | |
| JK-SF-020 | | | | | | |
| Adit Showing | | | | | | |

| Station ID | Alteration | Alt Intensity | Alt #1 Style | Alteration #2 | Alt #2 Int. | Alt #2 Style |
|------------|------------|---------------|---------------------|---------------|-------------|---------------------|
| JK-ML-003 | | | | | | |
| JK-ML-004 | Chlorite | Strong | Pervasive | Epidote | Moderate | Patchy |
| JK-ML-006 | Hematite | Moderate | Fracture Controlled | Chlorite | Moderate | Pervasive |
| JK-ML-007 | | | | | | |
| JK-ML-008 | | | | | | |
| JK-ML-009 | Sericite | Weak | Patchy | | | |
| JK-ML-010 | | | | | | |
| JK-ML-011 | | | | | | |
| JK-ML-012 | | | | | | |
| JK-ML-013 | Epidote | Weak | Fracture Controlled | Hematite | Strong | Pervasive |
| JK-ML-014 | Epidote | Strong | Fracture Controlled | | | |
| JK-ML-015 | Epidote | Strong | Fracture Controlled | Hematite | Weak | Fracture Controlled |
| JK-ML-016 | Hematite | Weak | Fracture Controlled | Sericite | Moderate | Pervasive |
| JK-ML-017 | | | | | | |
| JK-ML-018 | | | | | | |
| JK-ML-019 | | | | | | |
| JK-ML-021 | | | | | | |
| JK-ML-022 | Hematite | Strong | Patchy | Chlorite | Weak | Patchy |
| JK-ML-023 | Sericite | Moderate | Patchy | | | |
| JK-ML-024 | | | | | | |
| JK-ML-025 | Sericite | Moderate | Fracture Controlled | | | |
| JK-ML-030a | | | | | | |
| JK-ML-032 | | | | | | |
| JK-ML-033 | | | | | | |
| JK-ML-035 | | | | | | |
| JK-ML-038 | | | | | | |
| JK-ML-044 | Chlorite | Weak | Pervasive | Ankerite | Weak | Pervasive |
| JK-ML-048 | | | | | | |
| JK-ML-049 | Sericite | Moderate | Pervasive | Ankerite | Moderate | Massive |
| JK-ML-051 | | | | | | |
| JK-ML-052 | Sericite | Moderate | Pervasive | | | |
| JK-ML-054 | | | | | | |
| JK-ML-055 | | | | | | |
| JK-ML-056 | | | | | | |
| JK-ML-058 | | | | | | |
| JK-ML-059 | | | | | | |
| JK-ML-060 | | | | | | |
| JK-ML-061 | | | | | | |
| JK-ML-063 | | | | | | |
| JK-ML-064 | | | | | | |
| JK-ML-065 | | | | | | |
| JK-ML-068 | Hematite | Weak | Patchy | | | |
| JK-ML-069 | | | | | | |
| JK-ML-070 | | | | | | |
| JK-ML-071 | | | | | | |
| JK-ML-072 | | | | | | |
| JK-ML-073 | | | | | | |
| JK-ML-077 | Chlorite | Weak | Fracture Controlled | | | |
| JK-ML-079 | Chlorite | Weak | | | | |
| JK-ML-080 | | | | | | |
| JK-ML-081 | | | | | | |
| JK-ML-083 | Hematite | Strong | Fracture Controlled | | | |
| JK-ML-084 | Sericite | Moderate | Surficial | | | |
| JK-ML-086 | | | | | | |
| JK-ML-088 | | | | | | |
| JK-ML-091 | | | | | | |
| JK-ML-092 | Sericite | Weak | Surficial | | | |
| JK-ML-093 | Sericite | Weak | Pervasive | | | |
| JK-ML-094 | | | | | | |
| JK-ML-095 | | | | | | |
| JK-ML-096 | Sericite | Weak | Surficial | | | |
| JK-ML-097 | Sericite | Weak | Surficial | | | |
| JK-ML-098 | | | | | | |
| JK-ML-099 | Hematite | Weak | Pervasive | | | |
| JK-ML-100 | | | | | | |
| JK-ML-101 | Hematite | Weak | Pervasive | | | |
| JK-ML-102 | Hematite | Moderate | Fracture Controlled | | | |
| JK-ML-104 | Hematite | Weak | Massive | | | |
| JK-ML-106 | | | | | | |
| JK-ML-107 | | | | | | |
| JK-ML-108 | Sericite | Moderate | Pervasive | | | |
| JK-ML-109 | | | | | | |
| JK-ML-110 | | | | | | |
| JK-ML-112 | Sericite | Moderate | Pervasive | | | |
| JK-ML-113 | | | | | | |
| JK-RA-004 | Chlorite | Moderate | Pervasive | Epidote | Weak | Patchy |
| JK-RA-005 | | | | | | |
| JK-RA-006 | | | | | | |
| JK-RA-008 | | | | | | |
| JK-RA-012 | Sericite | Strong | Pervasive | | | |
| JK-RA-013 | | | | | | |
| JK-RA-015 | Sericite | Moderate | Pervasive | | | |

| Station ID | Alteration | Alt Intensity | Alt #1 Style | Alteration #2 | Alt #2 Int. | Alt #2 Style |
|------------|------------|---------------|--------------|---------------|-------------|--------------|
| JK-RA-016 | | | | | | |
| JK-RA-017 | | | Massive | | | |
| JK-RA-018 | Chlorite | Weak | Massive | | | |
| JK-RA-020 | | | | | | |
| JK-RA-023 | Chlorite | Moderate | Massive | | | |
| JK-RA-024 | | | | | | |
| JK-RA-026 | | | | | | |
| JK-RA-028 | Chlorite | Moderate | Massive | | | |
| JK-RA-029 | Epidote | Moderate | Massive | | | |
| JK-RA-032 | Hematite | Moderate | Massive | | | |
| JK-RA-034 | | | | | | |
| JK-RA-036 | Hematite | Weak | Massive | | | |
| JK-RA-037 | | | | | | |
| JK-RA-042 | | | | | | |
| JK-RA-044 | | | | | | |
| JK-RA-045 | | | | | | |
| JK-RA-046 | Hematite | Weak | Massive | | | |
| JK-RA-047 | | | | | | |
| JK-RA-050 | Chlorite | Weak | Massive | | | |
| JK-RA-052 | Hematite | Weak | Massive | | | |
| JK-RA-062 | | | | | | |
| JK-RA-063 | Chlorite | Moderate | Massive | Value | | |
| JK-RA-065 | | | | | | |
| JK-RA-066 | | | | | | |
| JK-RA-067 | Chlorite | Moderate | Massive | | | |
| JK-RA-076 | Silica | Weak | Massive | | | |
| JK-RA-077 | Epidote | Moderate | Massive | | | |
| JK-RA-079 | Silica | Weak | Massive | | | |
| JK-RA-080 | Epidote | Weak | Massive | | | |
| JK-RA-081 | | | | | | |
| JK-RA-082 | | | | | | |
| JK-RA-083 | Chlorite | Weak | Massive | | | |
| JK-RA-084 | Ankerite | Weak | Patchy | Silica | Weak | Massive |
| JK-RA-085 | Ankerite | Weak | Massive | | | |
| JK-RA-086 | | | | | | |
| JK-SF-020 | | | | | | |
| JK-SF-021 | | | | | | |
| JK-SF-023 | | | | | | |
| JK-SF-027 | | | | | | |
| JK-SF-030 | Hematite | Strong | Pervasive | | | |
| JK-SF-031 | | | | | | |
| JK-SF-032 | | | | | | |
| JK-SF-033 | | | | | | |
| JK-SF-035 | Biotite | Moderate | Pervasive | | | |
| JK-SF-036 | | | | | | |
| JK-SF-037 | | | | | | |
| JK-SF-038 | Hematite | Moderate | Pervasive | | | |
| JK-SF-039 | | | | | | |
| JK-SF-040 | | | | | | |
| JK-SF-041 | | | | | | |
| JK-SF-044 | | | | | | |
| JK-SF-045 | | | | | | |
| JK-SF-047 | | | | | | |
| JK-SF-048 | | | | | | |
| JK-SF-055 | Ankerite | Weak | Surficial | | | |
| JK-SF-056 | Hematite | Weak | Pervasive | | | |
| JK-SF-057 | | | | | | |
| JK-SF-058 | Hematite | Weak | Pervasive | | | |
| JK-SF-059 | Chlorite | Weak | Pervasive | | | |
| JK-SF-062 | | | | | | |
| JK-SF-063 | | | | | | |
| JK-SF-066 | | | | | | |
| JK-SF-069 | | | | | | |
| JK-SF-073 | | | | | | |
| JK-SF-074 | | | | | | |
| JK-SF-075 | | | | | | |
| JK-SF-076 | | | | | | |
| JK-SF-077 | | | | | | |
| JK-SF-078 | | | | | | |
| JK-SF-079 | | | | | | |
| JK-SF-086 | | | | | | |
| JK-SF-087 | | | | | | |
| JK-SF-088 | | | | | | |
| JK-SF-090 | | | | | | |
| JK-SF-091 | | | | | | |
| JK-SF-092 | | | | | | |
| JK-SF-098 | | | | | | |
| JK-SF-101 | | | | | | |
| JK-SF-102 | | | | | | |
| JK-SF-103 | | | | | | |
| JK-SF-105 | Hematite | Moderate | Pervasive | | | |

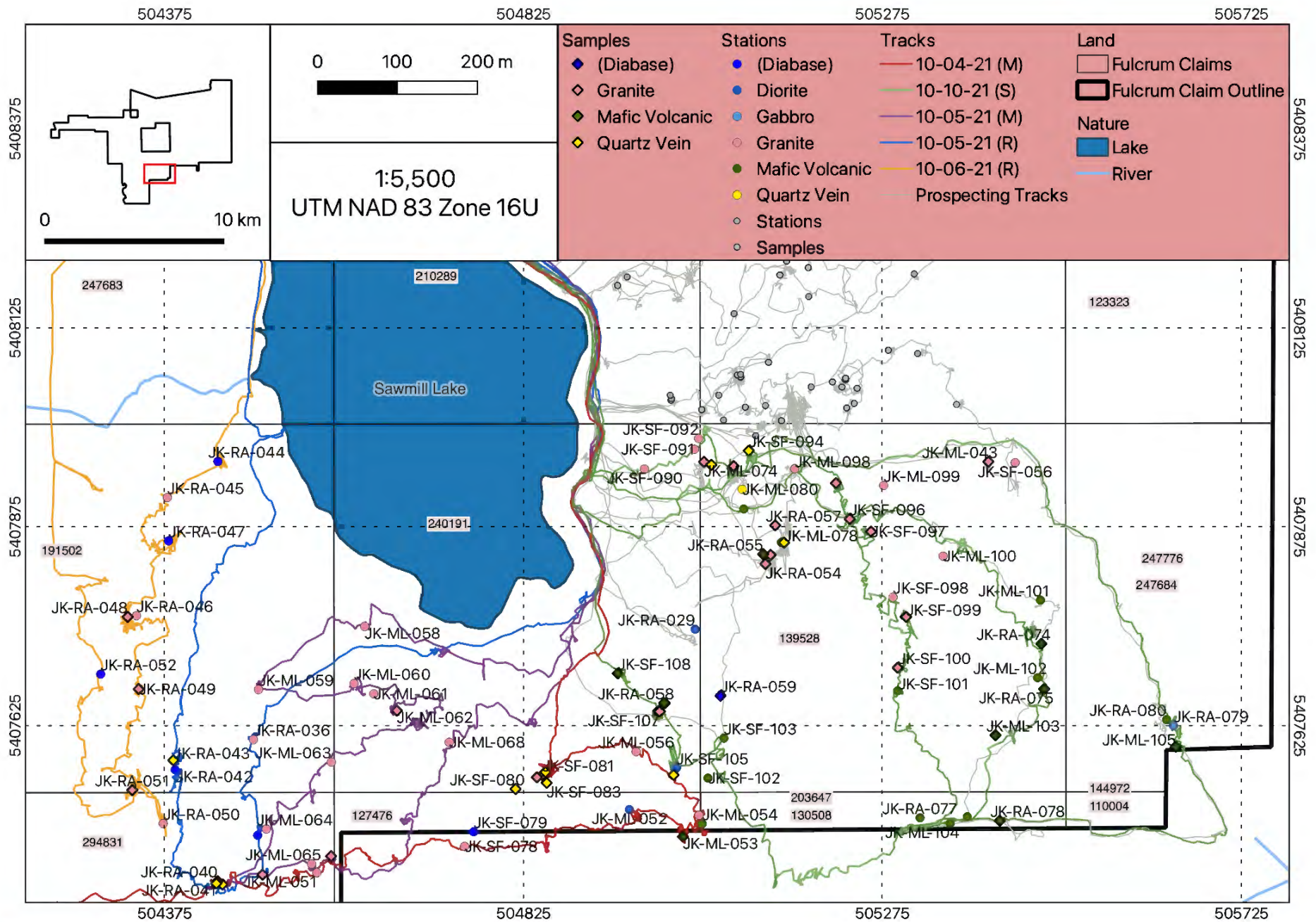
| Station ID | Structure #1 | Azimuth | Dip | Const. | Generation | Structure #2 | Azimuth | Dip | Const. | Generation |
|--------------|--------------|---------|-----|---------|------------|--------------|---------|-----|--------|------------|
| JK-SF-001 | Vein | 6 | | | | | | | | |
| JK-SF-002 | | | | | | | | | | |
| JK-SF-003 | | | | | | | | | | |
| JK-SF-004 | | | | | | | | | | |
| JK-SF-005 | Vein | 98 | 52 | | | | | | | |
| JK-SF-006 | Vein | 172 | 35 | | | | | | | |
| JK-SF-007 | | | | | | | | | | |
| JK-SF-009 | | | | | | | | | | |
| JK-SF-010 | Fracture | 145 | 51 | | | | | | | |
| JK-SF-011 | Vein | 359 | 5 | | | | | | | |
| JK-SF-012 | | | | | | | | | | |
| JK-SF-013 | Vein | 40 | 12 | Quartz | | Shear | 300 | | | |
| JK-SF-014 | | | | | | | | | | |
| JK-SF-015 | Vein | 200 | 38 | Quartz | | | | | | |
| JK-SF-016 | | | | | | | | | | |
| JK-SF-017 | Vein | 37 | 42 | Quartz | | Shear | 37 | 42 | | |
| JK-SF-018 | | | | | | | | | | |
| JK-SF-019 | | | | | | | | | | |
| JK-SF-020 | Vein | 248 | | Calcite | | Foliation | 10 | | | |
| Adit Showing | | | | | | | | | | |

Geological Report

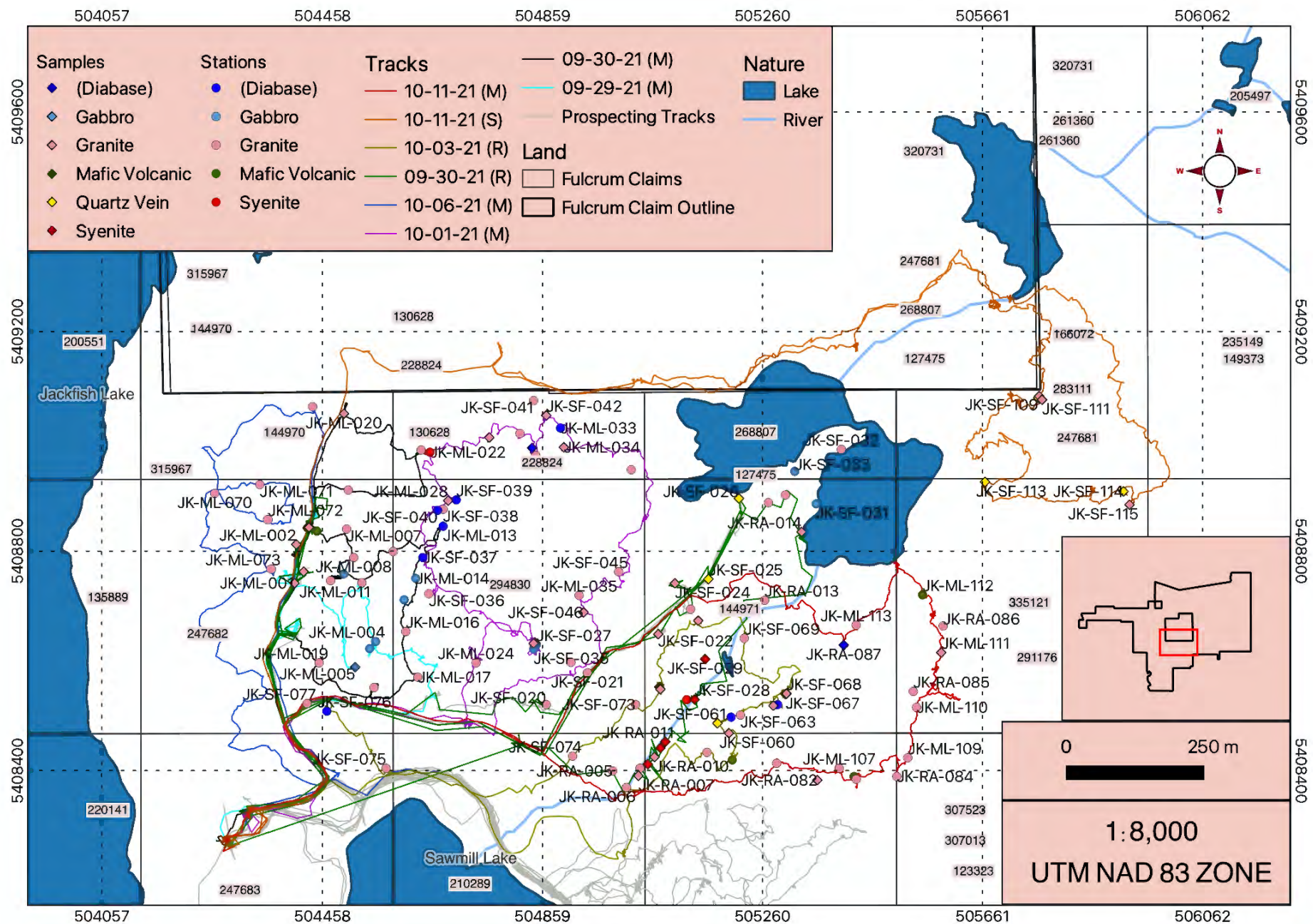
| Station ID | Structure #1 | Azimuth | Dip | Const. | Generation | Structure #2 | Azimuth | Dip | Const. | Generation |
|------------|--------------|---------|-----|--------|------------|--------------|---------|-----|--------|------------|
| JK-ML-003 | Contact | | 185 | 42 | | Foliation | | 185 | 42 | |
| JK-ML-004 | | | | | | | | | | |
| JK-ML-006 | Vein | | 165 | 85 | | | | | | |
| JK-ML-007 | | | | | | | | | | |
| JK-ML-008 | | | | | | | | | | |
| JK-ML-009 | | | | | | | | | | |
| JK-ML-010 | Vein | | 350 | 65 | | Vein | | 350 | 65 | |
| JK-ML-011 | Vein | | 280 | 55 | | | | | | |
| JK-ML-012 | | | | | | | | | | |
| JK-ML-013 | | | | | | | | | | |
| JK-ML-014 | Vein | | 100 | 85 | | | | | | |
| JK-ML-015 | Vein | | 300 | 85 | | | | | | |
| JK-ML-016 | | | | | | | | | | |
| JK-ML-017 | | | | | | | | | | |
| JK-ML-018 | | | | | | | | | | |
| JK-ML-019 | | | | | | | | | | |
| JK-ML-021 | | | | | | | | | | |
| JK-ML-022 | | | | | | | | | | |
| JK-ML-023 | | | | | | | | | | |
| JK-ML-024 | Vein | | 325 | 88 | | | | | | |
| JK-ML-025 | | | | | | | | | | |
| JK-ML-030a | | | | | | | | | | |
| JK-ML-032 | | | | | | | | | | |
| JK-ML-033 | Contact | | 263 | 65 | | | | | | |
| JK-ML-035 | | | | | | | | | | |
| JK-ML-038 | | | | | | | | | | |
| JK-ML-044 | | | | | | | | | | |
| JK-ML-048 | | | | | | | | | | |
| JK-ML-049 | Foliation | | 300 | 78 | | Contact | | 280 | 81 | |
| JK-ML-051 | Vein | | 20 | 60 | | Vein | | 240 | 80 | Quartz |
| JK-ML-052 | | | | | | | | | | |
| JK-ML-054 | | | | | | | | | | |
| JK-ML-055 | | | | | | | | | | |
| JK-ML-056 | | | | | | | | | | |
| JK-ML-058 | | | | | | | | | | |
| JK-ML-059 | Fracture | | 220 | 85 | | | | | | |
| JK-ML-060 | Fracture | | 305 | 80 | | | | | | |
| JK-ML-061 | Vein | | 210 | 84 | | | | | | |
| JK-ML-063 | Fracture | | 295 | 81 | | | | | | |
| JK-ML-064 | | | | | | | | | | |
| JK-ML-065 | Vein | | 20 | 72 | | | | | | |
| JK-ML-068 | | | | | | | | | | |
| JK-ML-069 | | | | | | | | | | |
| JK-ML-070 | | | | | | | | | | |
| JK-ML-071 | | | | | | | | | | |
| JK-ML-072 | Fracture | | 120 | 78 | | | | | | |
| JK-ML-073 | | | | | | | | | | |
| JK-ML-077 | | | | | | | | | | |
| JK-ML-079 | Contact | | 30 | | | | | | | |
| JK-ML-080 | Vein | | 358 | 88 | | | | | | |
| JK-ML-081 | Vein | | 40 | | | | | | | |
| JK-ML-083 | Contact | | 300 | 85 | 4 | Vein | | 318 | 80 | Feldspar |
| JK-ML-084 | | | | | | | | | | 3 |
| JK-ML-086 | | | | | | | | | | |
| JK-ML-088 | | | | | | | | | | |
| JK-ML-091 | | | | | | | | | | |
| JK-ML-092 | | | | | | | | | | |
| JK-ML-093 | Foliation | | 91 | 10 | | | | | | |
| JK-ML-094 | Vein | | 10 | 90 | | | | | | |
| JK-ML-095 | | | | | | | | | | |
| JK-ML-096 | Fracture | | 120 | | | | | | | |
| JK-ML-097 | | | | | | | | | | |
| JK-ML-098 | | | | | | | | | | |
| JK-ML-099 | | | | | | | | | | |
| JK-ML-100 | | | | | | | | | | |
| JK-ML-101 | | | | | | | | | | |
| JK-ML-102 | Vein | | 270 | 55 | | | | | | |
| JK-ML-104 | | | | | | | | | | |
| JK-ML-106 | | | | | | | | | | |
| JK-ML-107 | | | | | | | | | | |
| JK-ML-108 | Contact | | 315 | 90 | | Fracture | | 296 | 84 | |
| JK-ML-109 | | | | | | | | | | |
| JK-ML-110 | | | | | | | | | | |
| JK-ML-112 | Contact | | 340 | 90 | | | | | | |
| JK-ML-113 | | | | | | | | | | |
| JK-RA-004 | | | | | | | | | | |
| JK-RA-005 | | | | | | | | | | |
| JK-RA-006 | | | | | | | | | | |
| JK-RA-008 | | | | | | | | | | |
| JK-RA-012 | Fault | | 55 | 31 | | | | | | |
| JK-RA-013 | | | | | | | | | | |
| JK-RA-015 | | | | | | | | | | |

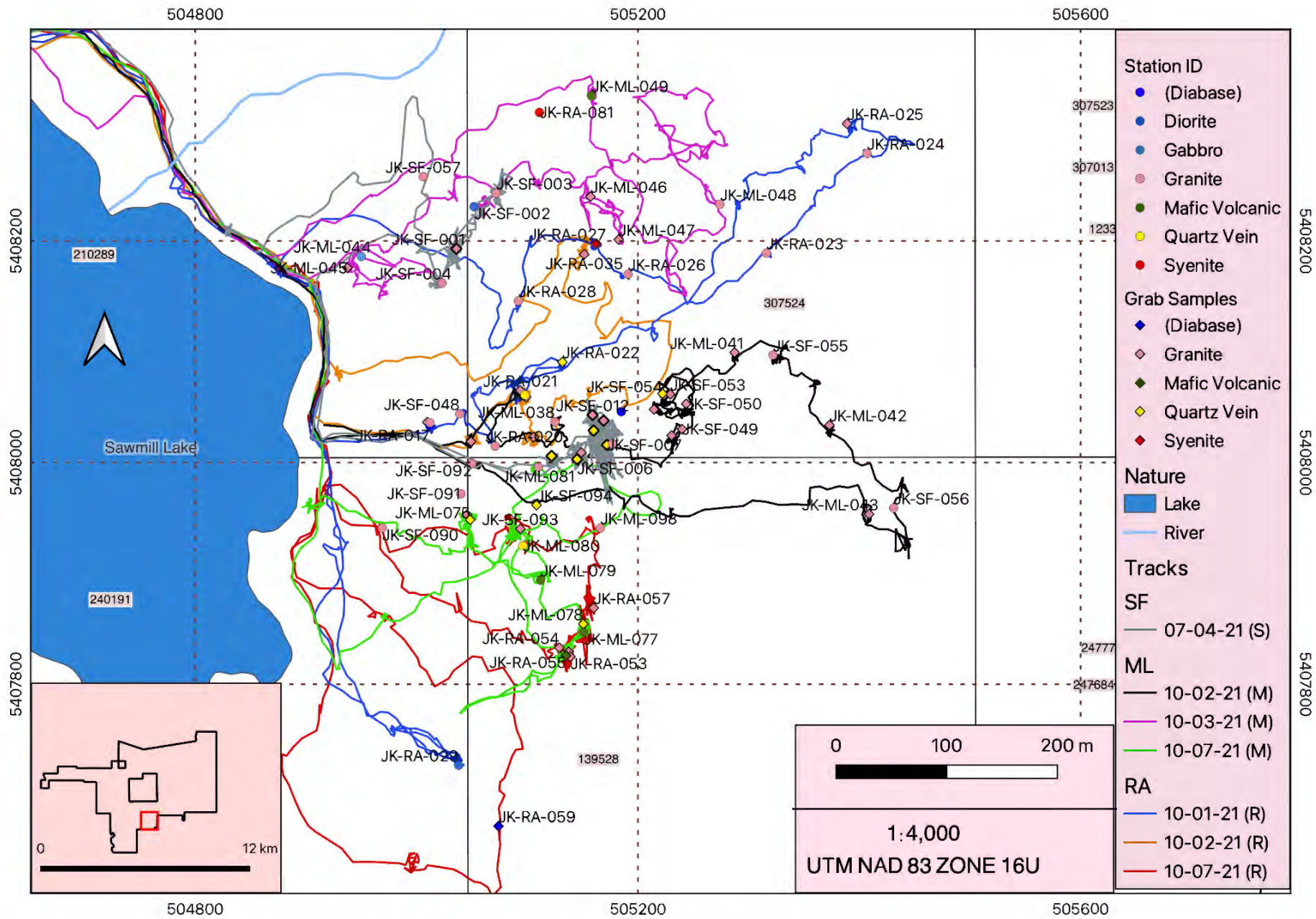
| Station ID | Structure #1 | Azimuth | Dip | Const. | Generation | Structure #2 | Azimuth | Dip | Const. | Generation |
|------------|--------------|---------|-----|--------|------------|--------------|---------|-----|--------|------------|
| JK-RA-016 | Vein | 90 | 63 | | | | | | | |
| JK-RA-017 | Contact | 18 | 8 | | | 3 | | | | |
| JK-RA-018 | | | | | | | | | | |
| JK-RA-020 | | | | | | | | | | |
| JK-RA-023 | | | | | | | | | | |
| JK-RA-024 | | | | | | | | | | |
| JK-RA-026 | | | | | | | | | | |
| JK-RA-028 | | | | | | | | | | |
| JK-RA-029 | | | | | | | | | | |
| JK-RA-032 | Vein | 22 | 66 | | | | | | | |
| JK-RA-034 | | | | | | | | | | |
| JK-RA-036 | Vein | 342 | 30 | | | Vein | 80 | 84 | | |
| JK-RA-037 | Contact | 240 | 75 | | | Fracture | 214 | 76 | | |
| JK-RA-042 | Contact | 300 | 79 | | | Fracture | 11 | 32 | | |
| JK-RA-044 | | | | | | | | | | |
| JK-RA-045 | | | | | | | | | | |
| JK-RA-046 | Vein | 352 | 72 | | | | | | | |
| JK-RA-047 | | | | | | | | | | |
| JK-RA-050 | | | | | | | | | | |
| JK-RA-052 | | | | | | | | | | |
| JK-RA-062 | | | | | | | | | | |
| JK-RA-063 | Vein | 250 | 70 | | | | | | | |
| JK-RA-065 | Vein | 68 | 66 | | | Vein | 180 | 69 | | |
| JK-RA-066 | Vein | 90 | 66 | | | 2 Foliation | 150 | 90 | | |
| JK-RA-067 | Vein | 36 | 60 | | | | | | | |
| JK-RA-076 | | | | | | | | | | |
| JK-RA-077 | | 287 | 90 | | | | | | | |
| JK-RA-079 | Foliation | 40 | 72 | | | | | | | |
| JK-RA-080 | Foliation | 250 | 80 | | | | | | | |
| JK-RA-081 | | | | | | | | | | |
| JK-RA-082 | | | | | | | | | | |
| JK-RA-083 | Vein | 350 | 90 | | | | | | | |
| JK-RA-084 | Fracture | 238 | 72 | | | 2 Fracture | 296 | 40 | | 3 |
| JK-RA-085 | | | | | | | | | | |
| JK-RA-086 | | | | | | | | | | |
| JK-SF-020 | | | | | | | | | | |
| JK-SF-021 | | | | | | | | | | |
| JK-SF-023 | | | | | | | | | | |
| JK-SF-027 | Contact | 75 | | | | | | | | |
| JK-SF-030 | | | | | | | | | | |
| JK-SF-031 | | | | | | | | | | |
| JK-SF-032 | | | | | | | | | | |
| JK-SF-033 | | | | | | | | | | |
| JK-SF-035 | Foliation | 357 | 90 | | | 3 | | | | |
| JK-SF-036 | | | | | | | | | | |
| JK-SF-037 | | | | | | | | | | |
| JK-SF-038 | | | | | | | | | | |
| JK-SF-039 | Contact | 66 | 80 | | | 5 | | | | |
| JK-SF-040 | | | | | | | | | | |
| JK-SF-041 | | | | | | | | | | |
| JK-SF-044 | | | | | | | | | | |
| JK-SF-045 | | | | | | | | | | |
| JK-SF-047 | Vein | 320 | 68 | | | | | | | |
| JK-SF-048 | | | | | | | | | | |
| JK-SF-055 | Foliation | 215 | 71 | | | | | | | |
| JK-SF-056 | | | | | | | | | | |
| JK-SF-057 | Vein | 348 | 70 | | | 4 | | | | |
| JK-SF-058 | Vein | 2 | 78 | | | 4 | | | | |
| JK-SF-059 | | | | | | | | | | |
| JK-SF-062 | | | | | | | | | | |
| JK-SF-063 | Contact | 78 | | | | | | | | |
| JK-SF-066 | | | | | | | | | | |
| JK-SF-069 | | | | | | | | | | |
| JK-SF-073 | | | | | | | | | | |
| JK-SF-074 | | | | | | | | | | |
| JK-SF-075 | | | | | | | | | | |
| JK-SF-076 | | | | | | | | | | |
| JK-SF-077 | Foliation | 12 | 85 | | | | | | | |
| JK-SF-078 | Foliation | 249 | 83 | | | 2 | | | | |
| JK-SF-079 | Contact | 110 | | | | 5 | | | | |
| JK-SF-086 | | | | | | | | | | |
| JK-SF-087 | | | | | | | | | | |
| JK-SF-088 | | | | | | | | | | |
| JK-SF-090 | | | | | | | | | | |
| JK-SF-091 | Vein | 199 | 54 | | | 3 | | | | |
| JK-SF-092 | | | | | | | | | | |
| JK-SF-098 | | | | | | | | | | |
| JK-SF-101 | Foliation | 210 | 85 | | | | | | | |
| JK-SF-102 | | | | | | | | | | |
| JK-SF-103 | Foliation | 12 | 78 | | | 2 | | | | |
| JK-SF-105 | | | | | | | | | | |

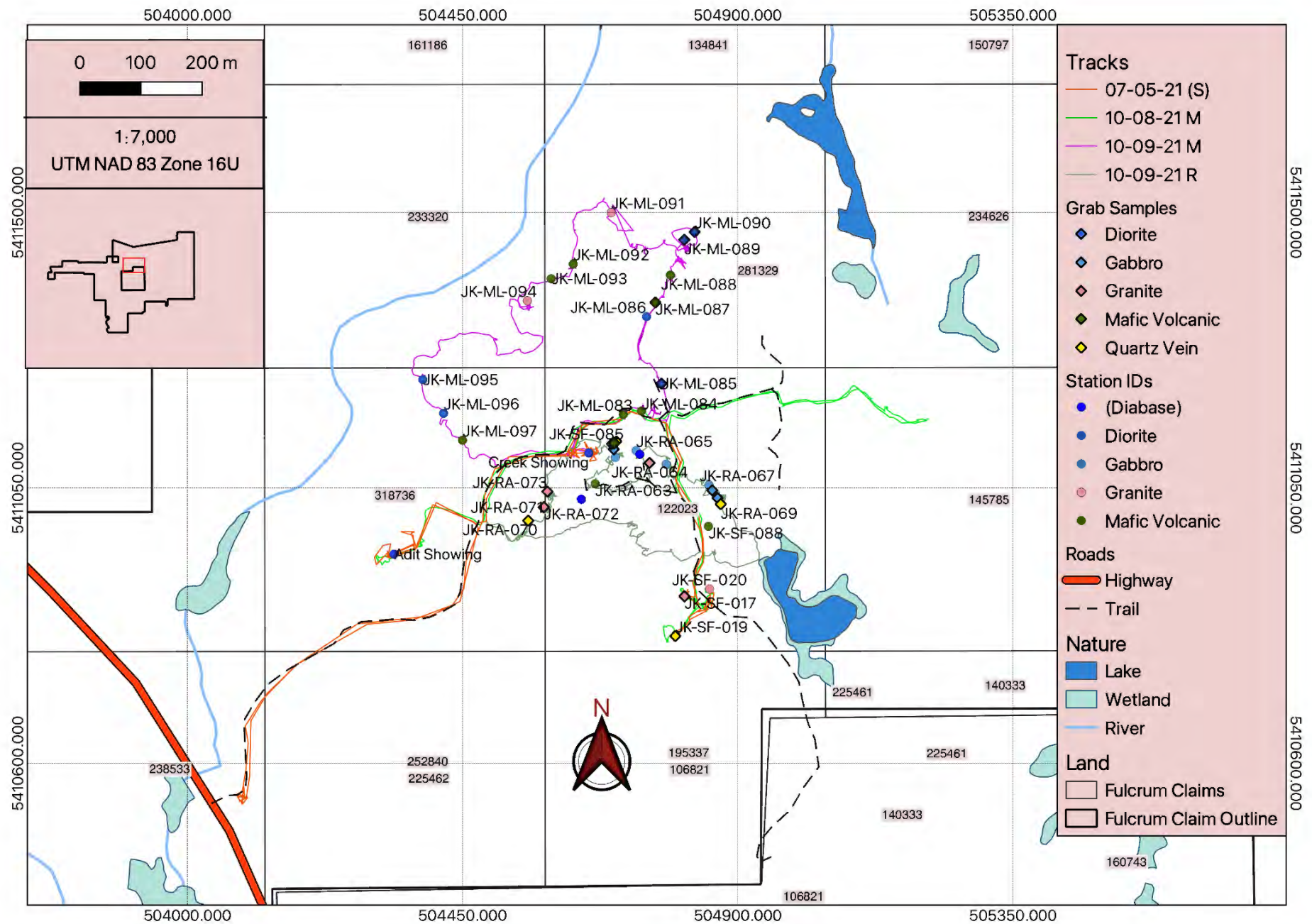
APPENDIX D: MAPS



Geological Report







APPENDIX E: SAMPLE LOCATIONS AND AU RESULTS

| Station_ID | Sample_ID | Date | Sample_Med | Easting | Northing | Lithology | Au (Best) | Au-ICP21 | Au-GRA21 |
|------------|-----------|----------|------------|---------|----------|-------------|-----------|----------|----------|
| JK-SF-001 | B731074 | 7/4/2021 | Outcrop | 505036 | 5408193 | Granite | 0.003 | 0.003 | |
| JK-SF-005 | B731075 | 7/4/2021 | Outcrop | 505122 | 5408006 | Quartz Vein | 1.165 | 1.165 | |
| JK-SF-006 | B731076 | 7/4/2021 | Outcrop | 505145 | 5408003 | Quartz Vein | 13.65 | >10.0 | 13.65 |
| JK-SF-007 | B731077 | 7/4/2021 | Outcrop | 505172 | 5408016 | Granite | 5.81 | 5.81 | |
| JK-SF-008 | B731078 | 7/4/2021 | Outcrop | 505172 | 5408016 | Quartz Vein | 12.35 | >10.0 | 12.35 |
| JK-SF-009 | B731079 | 7/4/2021 | Subcrop | 505160 | 5408029 | Quartz Vein | 5.26 | 5.26 | |
| JK-SF-011 | B731080 | 7/4/2021 | Outcrop | 505169 | 5408038 | Granite | 0.396 | 0.396 | |
| JK-SF-012 | B731081 | 7/4/2021 | Float | 505159 | 5408043 | Granite | 0.605 | 0.605 | |
| JK-SF-013 | B731083 | 7/5/2021 | Outcrop | 504663 | 5408543 | Granite | 0.112 | 0.112 | |
| JK-SF-015 | B731082 | 7/5/2021 | Outcrop | 504397 | 5408661 | Granite | 39.8 | >10.0 | 39.8 |
| JK-SF-016 | B731084 | 7/5/2021 | Subcrop | 504377 | 5408699 | Granite | 0.085 | 0.085 | |
| JK-SF-017 | B731085 | 7/5/2021 | Outcrop | 504813 | 5410873 | Quartz Vein | 0.233 | 0.233 | |
| JK-SF-018 | B731086 | 7/5/2021 | Outcrop | 504813 | 5410873 | Granite | 0.005 | 0.005 | |
| JK-SF-019 | B731087 | 7/5/2021 | Float | 504798 | 5410808 | Quartz Vein | 0.046 | 0.046 | |

| Station ID | Sample ID | Date | Sample Medium | Easting | Northing | Elevation | Lithology | Au ICP21 (ppm) | Au GRA21 (ppm) |
|------------|-----------|------------|---------------|---------|----------|-----------|----------------|----------------|----------------|
| JK-ML-001 | D579945 | 2021-09-29 | Outcrop | 504407 | 5408741 | 197 | Granite | 0.061 | |
| JK-ML-002 | D579946 | 2021-09-29 | Outcrop | 504410 | 5408812 | 205 | Granite | 0.008 | |
| JK-ML-005 | D579947 | 2021-09-29 | Outcrop | 504518 | 5408588 | 220 | Gabbro | 0.017 | |
| JK-ML-020 | D579948 | 2021-09-30 | Outcrop | 504497 | 5409050 | 209 | Granite | 0.014 | |
| JK-ML-026 | D579949 | 2021-10-01 | Outcrop | 504845 | 5408633 | 228 | Granite | 0.014 | |
| JK-ML-027 | D579951 | 2021-10-01 | Outcrop | 504843 | 5408631 | | Granite | 0.149 | |
| JK-ML-028 | D579952 | 2021-10-01 | Outcrop | 504687 | 5408892 | 225 | Granite | 0.003 | |
| JK-ML-029 | D579953 | 2021-10-01 | Outcrop | 504762 | 5409007 | | Granite | 0.001 | |
| JK-ML-031 | D579954 | 2021-10-01 | Outcrop | 504840 | 5408988 | 249 | Diabase | 0.001 | |
| JK-ML-034 | D579955 | 2021-10-01 | Subcrop | 504898 | 5408989 | 254 | Granite | 0.004 | |
| JK-ML-037 | D579961 | 2021-10-02 | Outcrop | 505049 | 5408019 | 218 | Granite | 0.004 | |
| JK-ML-039 | D579962 | 2021-10-02 | Outcrop | 505230 | 5408025 | 226 | Granite | 0.001 | |
| JK-ML-040 | D579963 | 2021-10-02 | Outcrop | 505214 | 5408048 | 243 | Granite | 3.33 | |
| JK-ML-041 | D579956 | 2021-10-02 | Outcrop | 505287 | 5408099 | 244 | Granite | 0.052 | |
| JK-ML-042 | D579964 | 2021-10-02 | Outcrop | 505373 | 5408034 | 237 | Granite | 0.013 | |
| JK-ML-043 | D579957 | 2021-10-02 | Outcrop | 505409 | 5407954 | 221 | Granite | 0.004 | |
| JK-ML-045 | D579958 | 2021-10-03 | Outcrop | 504938 | 5408176 | 201 | Granite | 0.001 | |
| JK-ML-046 | D579959 | 2021-10-03 | Subcrop | 505157 | 5408240 | 233 | Granite | 0.054 | |
| JK-ML-047 | D579960 | 2021-10-03 | Outcrop | 505183 | 5408201 | 245 | Granite | 0.004 | |
| JK-ML-053 | D904006 | 2021-10-04 | Outcrop | 505026 | 5407490 | 286 | Mafic Volcanic | 0.001 | |
| JK-ML-057 | D904007 | 2021-10-04 | Outcrop | 504852 | 5407565 | 253 | Quartz Vein | 0.053 | |
| JK-ML-062 | D904033 | 2021-10-05 | Outcrop | 504662 | 5407644 | 236 | Granite | 0.001 | |
| JK-ML-066 | D904008 | 2021-10-05 | Outcrop | 504585 | 5407463 | 279 | Granite | 0.007 | |
| JK-ML-067 | D904020 | 2021-10-05 | Outcrop | 504676 | 5407506 | 288 | Granite | 0.001 | |
| JK-ML-074 | D904022 | 2021-10-07 | Outcrop | 505046 | 5407953 | 219 | Granite | 0.027 | |
| JK-ML-075 | D904021 | 2021-10-07 | Outcrop | 505048 | 5407948 | 208 | Quartz Vein | 0.001 | |
| JK-ML-076 | D904023 | 2021-10-07 | Float | 505137 | 5407829 | 216 | Granite | 0.192 | |
| JK-ML-078 | D904024 | 2021-10-07 | Outcrop | 505151 | 5407854 | 229 | Quartz Vein | 0.009 | |
| JK-ML-082 | D904025 | 2021-10-07 | Outcrop | 505149 | 5408009 | 226 | Granite | 23.3 | 23.3 |
| JK-ML-085 | D904026 | 2021-10-09 | Outcrop | 504775 | 5411221 | 316 | Diorite | 0.057 | |
| JK-ML-087 | D904027 | 2021-10-09 | Subcrop | 504765 | 5411353 | 323 | Mafic Volcanic | 0.034 | |
| JK-ML-089 | D904028 | 2021-10-09 | Subcrop | 504813 | 5411456 | 322 | Diorite | 0.003 | |
| JK-ML-090 | D904029 | 2021-10-09 | Subcrop | 504830 | 5411468 | 336 | Diorite | 0.006 | |
| JK-ML-103 | D904030 | 2021-10-10 | Subcrop | 505436 | 5407619 | 353 | Mafic Volcanic | 0.001 | |
| JK-ML-105 | D904032 | 2021-10-10 | Outcrop | 505643 | 5407602 | 324 | Mafic Volcanic | 0.001 | |
| JK-ML-111 | D904036 | 2021-10-11 | Outcrop | 505586 | 5408615 | 295 | Granite | 0.004 | |
| JK-RA-001 | D579927 | 2021-09-29 | Outcrop | 504424 | 5408762 | 207 | Granite | 0.001 | |
| JK-RA-002 | D579928 | 2021-09-29 | Outcrop | 504431 | 5408842 | 205 | Quartz Vein | 0.001 | |
| JK-RA-003 | D579929 | 2021-09-29 | Outcrop | 504434 | 5408843 | 213 | Granite | 0.002 | |
| JK-RA-007 | D579930 | 2021-09-30 | Subcrop | 505034 | 5408390 | 188 | Granite | 0.001 | |
| JK-RA-009 | D579931 | 2021-09-30 | Outcrop | 505051 | 5408411 | 212 | Syenite | 0.001 | |
| JK-RA-010 | D579932 | 2021-09-30 | Outcrop | 505063 | 5408424 | 201 | Granite | 0.011 | |
| JK-RA-011 | D579933 | 2021-09-30 | Outcrop | 505083 | 5408452 | 217 | Syenite | 0.001 | |
| JK-RA-014 | D579934 | 2021-09-30 | Outcrop | 505331 | 5408835 | 239 | Granite | 0.001 | |
| JK-RA-019 | D579935 | 2021-10-01 | Outcrop | 505010 | 5408037 | 207 | Granite | 0.253 | |
| JK-RA-021 | D579936 | 2021-10-01 | Subcrop | 505094 | 5408065 | 222 | Granite | 0.112 | |
| JK-RA-022 | D579937 | 2021-10-01 | Subcrop | 505132 | 5408091 | 241 | Quartz Vein | 0.001 | |
| JK-RA-025 | D579938 | 2021-10-01 | Outcrop | 505389 | 5408306 | 259 | Granite | 0.001 | |
| JK-RA-027 | D579939 | 2021-10-01 | Subcrop | 505163 | 5408198 | 239 | Syenite | 0.005 | |
| JK-RA-030 | D579940 | 2021-10-02 | Outcrop | 505097 | 5408060 | 228 | Quartz Vein | 0.863 | |
| JK-RA-031 | D579941 | 2021-10-02 | Outcrop | 505099 | 5408059 | 226 | Granite | 0.106 | |
| JK-RA-033 | D579942 | 2021-10-02 | Outcrop | 505106 | 5408023 | 241 | Granite | 0.149 | |
| JK-RA-035 | D579943 | 2021-10-02 | Outcrop | 505151 | 5408188 | 242 | Granite | 0.003 | |
| JK-RA-038 | D579991 | 2021-10-05 | Outcrop | 504501 | 5407439 | 255 | Granite | 0.001 | |
| JK-RA-039 | D579944 | 2021-10-05 | Subcrop | 504445 | 5407425 | 247 | Quartz Vein | 0.001 | |
| JK-RA-040 | D904003 | 2021-10-05 | Subcrop | 504441 | 5407430 | | Granite | 0.076 | |
| JK-RA-041 | D904004 | 2021-10-05 | Outcrop | 504438 | 5407421 | 245 | Quartz Vein | 0.164 | |
| JK-RA-043 | D904005 | 2021-10-05 | Float | 504395 | 5407585 | 225 | Quartz Vein | 7.78 | |
| JK-RA-048 | D579992 | 2021-10-06 | Outcrop | 504328 | 5407761 | 198 | Granite | 0.001 | |
| JK-RA-049 | D579993 | 2021-10-06 | Subcrop | 504340 | 5407679 | 225 | Granite | 0.001 | |
| JK-RA-051 | D579994 | 2021-10-06 | Outcrop | 504341 | 5407541 | 220 | Granite | 0.043 | |
| JK-RA-053 | D904006 | 2021-10-07 | Outcrop | 505139 | 5407825 | 226 | Granite | 0.128 | |
| JK-RA-054 | D579995 | 2021-10-07 | Subcrop | 505129 | 5407833 | 228 | Granite | 0.026 | |
| JK-RA-055 | D579996 | 2021-10-07 | Outcrop | 505135 | 5407826 | 223 | Mafic Volcanic | 0.011 | |
| JK-RA-057 | D579997 | 2021-10-07 | Subcrop | 505160 | 5407869 | 227 | Granite | 0.24 | |
| JK-RA-058 | D579998 | 2021-10-07 | Subcrop | 504999 | 5407644 | 219 | Mafic Volcanic | 0.682 | |

| Station ID | Sample ID | Date | Sample Medium | Easting | Northing | Elevation | Lithology | Au ICP21 (ppm) | Au GRA21 (ppm) |
|------------|-----------|------------|---------------|---------|----------|-----------|-----------------|----------------|----------------|
| JK-RA-059 | D579999 | 2021-10-07 | Outcrop | 505074 | 5407672 | 235 | Diabase | 0.001 | |
| JK-RA-060 | D904001 | 2021-10-09 | Outcrop | 504697 | 5411113 | 296 | Gabbro | 0.002 | |
| JK-RA-061 | D904009 | 2021-10-09 | Outcrop | 504694 | 5411122 | 301 | Granite | 0.001 | |
| JK-RA-064 | D904010 | 2021-10-09 | Outcrop | 504756 | 5411091 | 312 | Granite | 0.001 | |
| JK-RA-068 | D904011 | 2021-10-09 | Outcrop | 504867 | 5411034 | 329 | Gabbro | 0.002 | |
| JK-RA-069 | D904012 | 2021-10-09 | Outcrop | 504872 | 5411024 | 329 | Quartz Vein | 0.127 | |
| JK-RA-070 | D904013 | 2021-10-09 | Outcrop | 504557 | 5410997 | 275 | Quartz Vein | 0.002 | |
| JK-RA-071 | D904014 | 2021-10-09 | Outcrop | 504583 | 5411018 | 271 | Quartz Vein | 0.001 | |
| JK-RA-072 | D904015 | 2021-10-09 | Outcrop | 504583 | 5411019 | 280 | Granite | 0.004 | |
| JK-RA-073 | D904016 | 2021-10-09 | Outcrop | 504589 | 5411044 | 286 | Granite | 0.013 | |
| JK-RA-074 | D904017 | 2021-10-10 | Outcrop | 505464 | 5407746 | 292 | Mafic Volcanic | 0.001 | |
| JK-RA-075 | D904018 | 2021-10-10 | Outcrop | 505473 | 5407670 | 338 | Mafic Volcanic | 0.001 | |
| JK-RA-078 | D904019 | 2021-10-10 | Subcrop | 505427 | 5407507 | 369 | Mafic Volcanic | 0.001 | |
| JK-RA-082 | D904034 | 2021-10-11 | Outcrop | 505360 | 5408382 | 249 | Granite | 0.562 | |
| JK-RA-087 | D904035 | 2021-10-11 | Outcrop | 505408 | 5408628 | 250 | Diabase | 0.008 | |
| JK-SF-022 | D579902 | 2021-09-29 | Outcrop | 505070 | 5408648 | 229 | Granite | 0.004 | |
| JK-SF-024 | D579903 | 2021-09-29 | Outcrop | 505101 | 5408741 | 239 | Granite | 0.002 | |
| JK-SF-025 | D579904 | 2021-09-29 | Float | 505162 | 5408749 | 247 | Quartz Vein | 0.005 | |
| JK-SF-026 | D579905 | 2021-09-29 | Float | 505217 | 5408896 | 241 | Quartz Vein | 0.155 | |
| JK-SF-028 | D579906 | 2021-09-30 | Outcrop | 505136 | 5408529 | 226 | Syenite | 0.002 | |
| JK-SF-029 | D579907 | 2021-09-30 | Outcrop | 505156 | 5408603 | 224 | Syenite | 0.013 | |
| JK-SF-034 | D579908 | 2021-09-30 | Outcrop | 505074 | 5408441 | | Syenite | 0.001 | |
| JK-SF-042 | D579909 | 2021-10-01 | Outcrop | 504866 | 5409047 | 249 | Quartz Vein | 0.005 | |
| JK-SF-043 | D579910 | 2021-10-01 | Outcrop | 504866 | 5409047 | 249 | Granite | 0.004 | |
| JK-SF-046 | D579911 | 2021-10-01 | Subcrop | 504934 | 5408688 | 231 | Granite | 0.024 | |
| JK-SF-049 | D579914 | 2021-10-02 | Subcrop | 505240 | 5408030 | | Granite | 0.004 | |
| JK-SF-050 | D579913 | 2021-10-02 | Outcrop | 505244 | 5408053 | 237 | Granite | 0.02 | |
| JK-SF-051 | D579912 | 2021-10-02 | Outcrop | 505224 | 5408060 | 249 | Granite | 0.372 | |
| JK-SF-052 | D579915 | 2021-10-02 | Outcrop | 505224 | 5408061 | 242 | Granite | 0.708 | |
| JK-SF-053 | D579916 | 2021-10-02 | Outcrop | 505229 | 5408062 | | Granite | 0.566 | |
| JK-SF-054 | D579917 | 2021-10-02 | Float | 505222 | 5408062 | 233 | Quartz Vein | 0.92 | |
| JK-SF-060 | D579918 | 2021-10-03 | Outcrop | 505199 | 5408468 | 227 | Granite | 0.005 | |
| JK-SF-061 | D579919 | 2021-10-03 | Subcrop | 505178 | 5408486 | 228 | Quartz Vein | 0.001 | |
| JK-SF-065 | D579920 | 2021-10-03 | Outcrop | 505280 | 5408518 | 247 | Granite | 0.004 | |
| JK-SF-067 | D579921 | 2021-10-03 | Outcrop | 505302 | 5408539 | 235 | Granite | 0.001 | |
| JK-SF-068 | D579922 | 2021-10-03 | Outcrop | 505304 | 5408540 | 241 | Granite | 0.001 | |
| JK-SF-070 | D579923 | 2021-10-03 | Outcrop | 505143 | 5408673 | 240 | Granite | 0.009 | |
| JK-SF-071 | D579924 | 2021-10-03 | Outcrop | 505072 | 5408552 | 228 | Mafic Volcanic | 0.055 | |
| JK-SF-072 | D579926 | 2021-10-03 | Subcrop | 505074 | 5408548 | 230 | Granite | 0.001 | |
| JK-SF-080 | D579965 | 2021-10-07 | Outcrop | 504817 | 5407540 | 264 | Quartz Vein | 0.001 | |
| JK-SF-081 | D579966 | 2021-10-07 | Outcrop | 504846 | 5407553 | 256 | Granite | 0.004 | |
| JK-SF-082 | D579967 | 2021-10-07 | Subcrop | 504860 | 5407555 | 244 | Granite | 0.196 | |
| JK-SF-083 | D579968 | 2021-10-07 | Outcrop | 504857 | 5407568 | 249 | Quartz Vein | 0.001 | |
| JK-SF-084 | D579969 | 2021-10-09 | Outcrop | 504701 | 5411126 | 285 | Quartz Vein | 0.006 | |
| JK-SF-085 | D579990 | 2021-10-09 | Outcrop | 504698 | 5411123 | 287 | Mafic Volcanic | 0.005 | |
| JK-SF-089 | D579970 | 2021-10-09 | Outcrop | 504858 | 5411046 | 276 | Gabbro | 0.008 | |
| JK-SF-093 | D579971 | 2021-10-10 | Outcrop | 505094 | 5407940 | 203 | Granite | 0.001 | |
| JK-SF-094 | D579972 | 2021-10-10 | Outcrop | 505108 | 5407962 | 211 | Quartz Vein | 0.221 | |
| JK-SF-095 | D579973 | 2021-10-10 | Outcrop | 505219 | 5407921 | 228 | Granite | 0.001 | |
| JK-SF-096 | D579974 | 2021-10-10 | Subcrop | 505238 | 5407883 | 245 | Granite | 0.025 | |
| JK-SF-097 | D579976 | 2021-10-10 | Outcrop | 505258 | 5407867 | 250 | Granite | 0.001 | |
| JK-SF-099 | D579977 | 2021-10-10 | Outcrop | 505302 | 5407763 | 288 | Granite | 0.001 | |
| JK-SF-100 | D579989 | 2021-10-10 | Outcrop | 505300 | 5407699 | 321 | Granite | 0.002 | |
| JK-SF-104 | D579978 | 2021-10-10 | Subcrop | 505013 | 5407577 | 250 | Quartz Vein | 0.001 | |
| JK-SF-106 | D579979 | 2021-10-10 | Outcrop | 504992 | 5407652 | 219 | Granite | 0.221 | |
| JK-SF-107 | D579980 | 2021-10-10 | Float | 504995 | 5407638 | 216 | Granite | 0.258 | |
| JK-SF-108 | D579981 | 2021-10-10 | Outcrop | 504953 | 5407677 | 204 | Mafic Volcanic | 0.004 | |
| JK-SF-109 | D579982 | 2021-10-11 | Outcrop | 505763 | 5409079 | 293 | Quartz Vein | 0.001 | |
| JK-SF-110 | D579983 | 2021-10-11 | Outcrop | 505765 | 5409082 | | Granite | 0.012 | |
| JK-SF-111 | D579984 | 2021-10-11 | Outcrop | 505770 | 5409076 | | Granite | 0.066 | |
| JK-SF-112 | D579985 | 2021-10-11 | Subcrop | 505712 | 5409081 | 289 | Chlorite Schist | 0.001 | |
| JK-SF-113 | D579986 | 2021-10-11 | Outcrop | 505666 | 5408926 | 280 | Quartz Vein | 0.001 | |
| JK-SF-114 | D579987 | 2021-10-11 | Outcrop | 505918 | 5408908 | 307 | Quartz Vein | 0.438 | |
| JK-SF-115 | D579988 | 2021-10-11 | Subcrop | 505929 | 5408884 | 305 | Granite | 0.109 | |

APPENDIX F: ASSAY CERTIFICATES



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 This copy reported on
 17-AUG-2021
 Account: BGCETTMQ

CERTIFICATE TB21189640

Project: Jackfish-Kellyn

This report is for 14 samples of Rock submitted to our lab in Thunder Bay, ON, Canada on 21-JUL-2021.

The following have access to data associated with this certificate:

| | | |
|--------------------------------|----------------|----------|
| STEVEN FLANK EDWARD SLOWLEY | JAMES FRANKLIN | RYAN MEE |
|--------------------------------|----------------|----------|

| SAMPLE PREPARATION | |
|--------------------|---------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-21 | Sample logging - ClientBarCode |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize up to 250g 85% <75 um |

| ANALYTICAL PROCEDURES | | |
|-----------------------|--------------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| ME-MS61 | 48 element four acid ICP-MS | |
| Ag-OG62 | Ore Grade Ag - Four Acid | |
| ME-OG62 | Ore Grade Elements - Four Acid | ICP-AES |
| Au-ICP21 | Au 30g FA ICP-AES Finish | ICP-AES |
| Au-GRA21 | Au 30g FA-GRAV finish | WST-SIM |

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

Signature: 
 Saa Traxler, General Manager, North Vancouver



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Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21189640

| Sample Description | Method Analyte Units LOD | WEI-21 | Au-ICP21 | Au-GRA21 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|--------------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Recvd Wt. kg | Au ppm | Au ppm | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm |
| | | 0.02 | 0.001 | 0.05 | 0.01 | 0.01 | 0.2 | 10 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.1 | 1 | 0.05 |
| B731074 | | 1.50 | 0.003 | | 0.09 | 2.70 | 0.3 | 70 | 0.30 | 1.17 | 0.04 | <0.02 | 14.90 | 1.2 | 20 | 0.73 |
| B731075 | | 1.16 | 1.165 | | 8.28 | 0.18 | 0.6 | 90 | 0.05 | 1.20 | 0.27 | 0.45 | 3.96 | 1.5 | 29 | 0.21 |
| B731076 | | 1.06 | >10.0 | 13.65 | 45.6 | 1.49 | 0.6 | 80 | 0.21 | 41.3 | 1.30 | 1.67 | 7.89 | 74.5 | 16 | 0.20 |
| B731077 | | 1.87 | 5.81 | | 36.5 | 3.28 | 0.8 | 410 | 0.36 | 34.2 | 0.94 | 0.45 | 21.7 | 13.5 | 23 | 0.18 |
| B731078 | | 1.57 | >10.0 | 12.35 | 47.3 | 1.70 | 0.8 | 260 | 0.22 | 38.6 | 0.35 | 1.17 | 9.71 | 9.2 | 18 | 0.43 |
| B731079 | | 1.10 | 5.26 | | 18.20 | 0.31 | 0.7 | 190 | <0.05 | 15.95 | 0.04 | 0.18 | 1.32 | 1.0 | 38 | 0.05 |
| B731080 | | 1.73 | 0.396 | | 1.35 | 6.66 | 0.2 | 670 | 1.14 | 0.66 | 1.85 | 0.08 | 36.1 | 7.2 | 27 | 1.24 |
| B731081 | | 1.76 | 0.605 | | 2.25 | 4.78 | 0.6 | 950 | 0.55 | 0.56 | 1.09 | 0.22 | 37.1 | 7.9 | 25 | 0.34 |
| B731082 | | 1.30 | 0.112 | | 0.38 | 5.75 | 0.3 | 740 | 1.22 | 0.08 | 0.98 | 0.10 | 23.5 | 2.8 | 21 | 0.47 |
| B731083 | | 1.43 | >10.0 | 39.8 | 77.3 | 0.69 | 0.3 | 580 | 0.21 | 38.3 | 0.15 | 0.99 | 8.82 | 16.3 | 28 | 0.34 |
| B731084 | | 1.38 | 0.085 | | 0.41 | 9.08 | 0.3 | 4050 | 1.78 | 0.67 | 1.57 | 0.08 | 103.0 | 6.6 | 30 | 0.39 |
| B731085 | | 0.99 | 0.233 | | >100 | 0.37 | <0.2 | 300 | 0.23 | 304 | 0.14 | 0.76 | 5.53 | 1.4 | 23 | 0.34 |
| B731086 | | 0.88 | 0.005 | | 0.92 | 7.88 | 0.7 | 1540 | 2.67 | 1.98 | 0.79 | 0.24 | 127.0 | 21.7 | 84 | 2.78 |
| B731087 | | 2.20 | 0.046 | | 47.3 | 0.03 | 0.8 | 230 | 0.13 | 99.7 | 0.47 | 0.12 | 107.0 | 9.4 | 21 | 0.07 |



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CERTIFICATE OF ANALYSIS TB21189640

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Cu ppm | Fe % | Ga ppm | Ge ppm | Hf ppm | In ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm |
| | | 0.2 | 0.01 | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.2 | 0.01 | 5 | 0.05 | 0.01 | 0.1 | 0.2 |
| B731074 | | 6.0 | 0.57 | 5.38 | 0.05 | 0.7 | 0.007 | 0.43 | 6.8 | 2.9 | 0.13 | 55 | 0.16 | 1.43 | 1.1 | 4.2 |
| B731075 | | 2.3 | 0.42 | 0.64 | <0.05 | 0.1 | <0.005 | 0.05 | 1.8 | 0.6 | 0.02 | 66 | 2.52 | 0.06 | 0.1 | 2.4 |
| B731076 | | 3600 | 8.08 | 3.65 | <0.05 | 0.4 | 0.069 | 0.13 | 3.7 | 2.0 | 0.05 | 100 | 223 | 0.97 | 0.2 | 121.0 |
| B731077 | | 2680 | 2.77 | 9.52 | 0.05 | 0.9 | 0.116 | 0.27 | 10.3 | 2.1 | 0.05 | 120 | 68.1 | 2.29 | 0.6 | 20.7 |
| B731078 | | 2550 | 2.89 | 5.01 | <0.05 | 0.4 | 0.290 | 0.31 | 4.4 | 2.0 | 0.06 | 83 | 24.4 | 0.98 | 0.3 | 14.3 |
| B731079 | | 106.5 | 0.67 | 0.83 | <0.05 | 0.1 | 0.008 | 0.04 | 0.6 | 0.2 | <0.01 | 46 | 14.35 | 0.22 | 0.1 | 1.6 |
| B731080 | | 18.4 | 1.12 | 16.35 | 0.10 | 2.0 | 0.022 | 1.10 | 16.4 | 7.2 | 0.13 | 208 | 0.98 | 4.37 | 2.3 | 13.6 |
| B731081 | | 13.7 | 1.54 | 14.15 | 0.10 | 1.4 | 0.015 | 0.56 | 16.9 | 2.4 | 0.16 | 281 | 9.25 | 3.19 | 1.1 | 11.3 |
| B731082 | | 23.0 | 1.08 | 17.35 | 0.09 | 1.7 | 0.016 | 1.19 | 11.1 | 8.1 | 0.28 | 177 | 0.42 | 3.30 | 1.4 | 9.6 |
| B731083 | | 3.4 | 1.60 | 2.41 | 0.06 | 0.4 | 0.005 | 0.18 | 4.1 | 2.7 | 0.03 | 52 | 65.1 | 0.26 | 0.3 | 12.9 |
| B731084 | | 17.2 | 1.60 | 22.8 | 0.16 | 3.0 | 0.017 | 0.50 | 43.8 | 11.3 | 0.55 | 343 | 0.35 | 7.35 | 7.2 | 10.5 |
| B731085 | | 3500 | 0.94 | 0.98 | 0.05 | 0.1 | 0.280 | 0.06 | 2.6 | 1.6 | 0.09 | 88 | 1.73 | 0.19 | 0.1 | 5.5 |
| B731086 | | 49.8 | 3.61 | 17.50 | 0.19 | 3.4 | 0.033 | 0.82 | 57.8 | 13.0 | 1.18 | 1010 | 45.9 | 5.30 | 2.2 | 62.0 |
| B731087 | | 60.6 | 2.00 | 0.81 | 0.19 | 0.1 | 0.008 | 0.01 | 35.1 | 0.4 | 0.01 | 64 | 6.69 | 0.01 | 1.8 | 4.6 |



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CERTIFICATE OF ANALYSIS TB21189640

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----|
| | | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Tl | Tl |
| | | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm |
| | 10 | 0.5 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 1 | 0.2 | 0.2 | 0.05 | 0.05 | 0.01 | 0.005 | 0.02 | |
| B731074 | 70 | 1.6 | 18.8 | <0.002 | <0.01 | 0.08 | 1.4 | <1 | 0.2 | 38.1 | 0.08 | 0.22 | 1.23 | 0.050 | 0.09 | |
| B731075 | 20 | 131.5 | 2.2 | <0.002 | 0.08 | 0.15 | 0.2 | <1 | <0.2 | 41.5 | <0.05 | 4.49 | 0.24 | 0.006 | <0.02 | |
| B731076 | 90 | 466 | 4.4 | <0.002 | 7.92 | 0.11 | 0.8 | 1 | <0.2 | 2070 | <0.05 | 25.9 | 0.84 | 0.011 | 0.03 | |
| B731077 | 280 | 2180 | 7.8 | <0.002 | 2.01 | 0.17 | 1.5 | 1 | 0.3 | 3370 | <0.05 | 15.70 | 1.57 | 0.028 | 0.05 | |
| B731078 | 150 | 961 | 10.0 | <0.002 | 1.92 | 0.11 | 1.0 | <1 | 0.2 | 1395 | <0.05 | 16.55 | 0.75 | 0.019 | 0.04 | |
| B731079 | 40 | 2820 | 1.1 | <0.002 | 0.19 | 0.12 | 0.1 | 2 | <0.2 | 118.0 | <0.05 | 7.60 | 0.16 | 0.005 | 0.02 | |
| B731080 | 560 | 40.3 | 31.9 | <0.002 | 0.47 | 0.19 | 3.3 | <1 | 0.5 | 378 | 0.16 | 0.83 | 2.41 | 0.097 | 0.15 | |
| B731081 | 350 | 36.0 | 16.1 | <0.002 | 0.68 | 0.13 | 2.2 | <1 | 0.3 | 317 | 0.08 | 1.74 | 3.02 | 0.045 | 0.07 | |
| B731082 | 350 | 5.3 | 33.0 | <0.002 | 0.14 | 0.09 | 2.9 | <1 | 0.5 | 941 | 0.10 | 0.21 | 2.54 | 0.072 | 0.11 | |
| B731083 | 30 | 5720 | 6.0 | <0.002 | 1.48 | 0.13 | 0.4 | 4 | <0.2 | 46.5 | <0.05 | 56.4 | 0.52 | 0.014 | 0.06 | |
| B731084 | 740 | 27.3 | 13.0 | <0.002 | 0.62 | 0.09 | 3.6 | <1 | 0.4 | 424 | 0.14 | 0.40 | 34.6 | 0.119 | 0.07 | |
| B731085 | 70 | 3260 | 2.1 | <0.002 | 0.48 | 0.05 | 0.6 | 5 | 0.2 | 32.0 | <0.05 | 22.1 | 0.35 | 0.011 | 0.07 | |
| B731086 | 2060 | 22.0 | 25.7 | 0.002 | 1.44 | 0.07 | 12.3 | 1 | 0.5 | 508 | 0.08 | 0.23 | 6.87 | 0.195 | 0.19 | |
| B731087 | 2150 | 662 | 0.5 | <0.002 | 1.34 | 0.11 | 0.5 | 2 | <0.2 | 812 | <0.05 | 6.31 | 215 | 0.028 | <0.02 | |



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CERTIFICATE OF ANALYSIS TB21189640

| Sample Description | Method Analyte Units LOD | ME-MS61 U ppm 0.1 | ME-MS61 V ppm 1 | ME-MS61 W ppm 0.1 | ME-MS61 Y ppm 0.1 | ME-MS61 Zn ppm 2 | ME-MS61 Zr ppm 0.5 | Ag-OG62 Ag ppm 1 |
|--------------------|--------------------------------|----------------------------|--------------------------|----------------------------|----------------------------|---------------------------|-----------------------------|---------------------------|
| B731074 | | 0.2 | 13 | 0.4 | 1.9 | 9 | 26.6 | |
| B731075 | | 0.2 | 2 | 0.7 | 0.7 | 64 | 3.9 | |
| B731076 | | 0.7 | 4 | 1.0 | 2.4 | 136 | 19.0 | |
| B731077 | | 0.6 | 11 | 2.7 | 3.0 | 36 | 35.9 | |
| B731078 | | 0.3 | 8 | 1.1 | 1.4 | 65 | 17.0 | |
| B731079 | | 0.2 | 1 | 0.5 | 0.3 | 9 | 4.4 | |
| B731080 | | 0.5 | 32 | 8.0 | 4.6 | 16 | 76.5 | |
| B731081 | | 0.5 | 14 | 5.3 | 3.8 | 26 | 54.0 | |
| B731082 | | 0.4 | 36 | 7.4 | 3.2 | 24 | 60.3 | |
| B731083 | | 0.2 | 7 | 1.4 | 1.0 | 4 | 12.9 | |
| B731084 | | 4.0 | 19 | 5.2 | 19.9 | 37 | 125.0 | |
| B731085 | | 0.1 | 6 | 1.2 | 1.1 | 14 | 6.9 | 96 |
| B731086 | | 1.1 | 63 | 2.5 | 17.9 | 58 | 159.0 | |
| B731087 | | 3.9 | 3 | 3.5 | 41.9 | 3 | 19.0 | |



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| |
|---|
| CERTIFICATE OF ANALYSIS TB21189640 |
|---|

| | CERTIFICATE COMMENTS | | | | | | | | |
|--------------------|--|----------|----------|----------|---------|---------|--------|--------|--|
| Applies to Method: | <p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REEs may not be totally soluble in this method. ME-MS61</p> | | | | | | | | |
| Applies to Method: | <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%; text-align: right;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table> | CRU-31 | CRU-QC | LOG-21 | PUL-31 | PUL-QC | SPL-21 | WEI-21 | |
| CRU-31 | CRU-QC | LOG-21 | PUL-31 | | | | | | |
| PUL-QC | SPL-21 | WEI-21 | | | | | | | |
| Applies to Method: | <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Au-GRA21</td> <td style="width: 33%;">Au-ICP21</td> <td style="width: 15%; text-align: right;">ME-MS61</td> </tr> <tr> <td>ME-OG62</td> <td></td> <td></td> <td></td> </tr> </table> | Ag-OG62 | Au-GRA21 | Au-ICP21 | ME-MS61 | ME-OG62 | | | |
| Ag-OG62 | Au-GRA21 | Au-ICP21 | ME-MS61 | | | | | | |
| ME-OG62 | | | | | | | | | |



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Plus Appendix Pages
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 Account: BGCEITMQ

CERTIFICATE TB21288637

Project: Jackfish-Kellyn

This report is for 136 samples of Rock submitted to our lab in Thunder Bay, ON, Canada on 25-OCT-2021.

The following have access to data associated with this certificate:

| | | |
|--------------------------------|----------------|----------|
| STEVEN FLANK EDWARD SLOWLEY | JAMES FRANKLIN | RYAN MEE |
|--------------------------------|----------------|----------|

| SAMPLE PREPARATION | |
|--------------------|---------------------------------|
| ALS CODE | DESCRIPTION |
| WEI-21 | Received Sample Weight |
| LOG-21 | Sample logging - ClientBarCode |
| LOG-23 | Pulp Login - Rcvd with Barcode |
| CRU-QC | Crushing QC Test |
| PUL-QC | Pulverizing QC Test |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize up to 250g 85% <75 um |

| ANALYTICAL PROCEDURES | | |
|-----------------------|--------------------------------|------------|
| ALS CODE | DESCRIPTION | INSTRUMENT |
| Aq-OG62 | Ore Grade Ag - Four Acid | |
| ME-OG62 | Ore Grade Elements - Four Acid | ICP-AES |
| Cu-OG62 | Ore Grade Cu - Four Acid | |
| Au-ICP21 | Au 30g FA ICP-AES Finish | ICP-AES |
| Au-GRA21 | Au 30g FA-GRAV finish | WST-SIM |
| ME-MS61 | 48 element four acid ICP-MS | |

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

Signature: 
 Saa Traxler, General Manager, North Vancouver



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Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Recvd Wt. kg | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | Fe % |
| D579901 | | 0.04 | 0.02 | 7.57 | 2.5 | 890 | 0.97 | 0.03 | 1.77 | 0.03 | 28.6 | 4.3 | 25 | 0.41 | 28.4 | 2.62 |
| D579902 | | 0.97 | 0.01 | 7.85 | 0.6 | 890 | 1.33 | 0.03 | 1.61 | 0.03 | 51.3 | 6.2 | 41 | 1.29 | 1.3 | 1.71 |
| D579903 | | 1.94 | 0.04 | 4.34 | 0.7 | 390 | 0.68 | 0.05 | 0.84 | 0.04 | 23.8 | 3.6 | 36 | 1.47 | 4.9 | 0.95 |
| D579904 | | 0.90 | 0.11 | 1.49 | 3.0 | 70 | 0.33 | 0.32 | 0.64 | 0.03 | 17.45 | 3.2 | 37 | 0.16 | 7.5 | 0.62 |
| D579905 | | 1.85 | 2.54 | 2.18 | 0.3 | 260 | 0.33 | 4.68 | 0.21 | 0.04 | 10.65 | 1.3 | 40 | 0.38 | 16.1 | 0.52 |
| D579906 | | 1.24 | 0.05 | 3.13 | 1.6 | 110 | 1.03 | 0.23 | 2.28 | 0.04 | 5.76 | 1.7 | 88 | 2.58 | 14.4 | 2.35 |
| D579907 | | 1.24 | <0.01 | 7.22 | 0.8 | 270 | 2.03 | 0.20 | 2.65 | 0.14 | 22.0 | 37.0 | 713 | 2.96 | 2.3 | 6.22 |
| D579908 | | 1.49 | 0.02 | 8.89 | 7.2 | 200 | 1.36 | 0.11 | 0.25 | <0.02 | 53.0 | 10.8 | 32 | 1.55 | 1.8 | 2.54 |
| D579909 | | 1.88 | 0.01 | 3.64 | 0.5 | 350 | 0.81 | 0.04 | 0.10 | <0.02 | 19.55 | 0.9 | 30 | 1.59 | 1.3 | 0.73 |
| D579910 | | 2.56 | 0.20 | 3.66 | 0.8 | 360 | 0.99 | 0.31 | 0.27 | 0.03 | 22.6 | 3.4 | 42 | 1.43 | 4.7 | 1.40 |
| D579911 | | 1.12 | 0.18 | 7.54 | 0.6 | 410 | 1.33 | 0.18 | 1.22 | 0.09 | 54.5 | 4.3 | 28 | 1.66 | 3.2 | 1.58 |
| D579912 | | 1.45 | 1.20 | 7.03 | 1.2 | 680 | 1.33 | 0.26 | 1.15 | 0.16 | 44.4 | 5.9 | 29 | 0.79 | 4.5 | 1.56 |
| D579913 | | 1.67 | 0.05 | 6.77 | 0.4 | 770 | 1.49 | 0.06 | 2.13 | 0.17 | 40.7 | 4.2 | 28 | 1.61 | 13.1 | 1.29 |
| D579914 | | 0.84 | 0.01 | 5.84 | 0.4 | 800 | 1.21 | 0.02 | 1.79 | 0.10 | 35.6 | 3.9 | 31 | 2.40 | 0.9 | 1.40 |
| D579915 | | 1.15 | 2.10 | 6.76 | 1.0 | 840 | 1.24 | 1.56 | 0.42 | 0.11 | 50.5 | 8.9 | 28 | 0.82 | 6.1 | 1.88 |
| D579916 | | 1.67 | 1.84 | 6.71 | 0.8 | 650 | 1.18 | 0.76 | 0.90 | 0.17 | 45.1 | 6.8 | 26 | 0.80 | 4.0 | 1.59 |
| D579917 | | 1.71 | 14.85 | 1.22 | 1.4 | 4050 | 0.15 | 22.3 | 1.52 | 1.15 | 10.45 | 2.0 | 30 | 0.15 | 21.2 | 0.86 |
| D579918 | | 1.35 | 0.09 | 6.25 | 0.7 | 500 | 1.34 | 0.12 | 1.02 | 0.07 | 37.9 | 4.0 | 27 | 1.08 | 4.1 | 1.27 |
| D579919 | | 1.92 | 0.02 | 0.66 | 0.3 | 140 | 0.15 | 0.02 | 0.07 | <0.02 | 2.67 | 0.6 | 30 | 0.45 | 1.0 | 0.40 |
| D579920 | | 1.23 | 0.21 | 5.96 | 0.2 | 190 | 1.02 | 0.54 | 0.88 | 0.04 | 37.4 | 5.5 | 30 | 1.17 | 5.1 | 1.30 |
| D579921 | | 1.03 | 0.03 | 1.90 | 0.6 | 70 | 0.40 | 0.39 | 0.12 | 0.02 | 12.75 | 1.9 | 24 | 1.10 | 2.9 | 0.66 |
| D579922 | | 1.18 | 0.04 | 1.07 | 1.0 | 40 | 0.62 | 0.30 | 0.13 | <0.02 | 12.15 | 2.9 | 53 | 1.62 | 1.5 | 0.93 |
| D579923 | | 1.67 | 0.04 | 7.68 | 0.5 | 710 | 1.64 | 0.09 | 1.34 | 0.07 | 52.3 | 6.2 | 31 | 2.58 | 3.6 | 1.66 |
| D579924 | | 2.16 | 0.07 | 2.58 | 0.8 | 570 | 0.38 | 0.04 | 0.33 | 0.05 | 13.15 | 2.8 | 41 | 0.62 | 13.6 | 0.75 |
| D579925 | | 0.04 | 0.56 | 7.70 | 17.9 | 1280 | 0.91 | 0.18 | 4.66 | 0.68 | 20.3 | 17.3 | 31 | 1.97 | 792 | 4.42 |
| D579926 | | 1.11 | 0.01 | 7.37 | 0.5 | 1330 | 1.46 | 0.02 | 2.31 | 0.20 | 34.2 | 5.1 | 41 | 3.00 | 1.6 | 1.82 |
| D579927 | | 0.73 | 0.01 | 4.57 | 0.6 | 140 | 0.90 | 0.05 | 0.10 | <0.02 | 18.85 | 0.6 | 12 | 1.20 | 1.4 | 0.95 |
| D579928 | | 1.67 | 0.01 | 0.43 | 0.5 | 60 | 0.09 | 0.01 | 1.87 | 0.06 | 3.75 | 0.9 | 27 | 0.33 | 2.0 | 0.41 |
| D579929 | | 1.27 | 0.05 | 5.97 | 0.3 | 290 | 1.13 | 0.04 | 1.04 | 0.06 | 34.6 | 3.4 | 28 | 0.41 | 13.1 | 1.16 |
| D579930 | | 2.03 | <0.01 | 6.53 | 0.4 | 600 | 1.37 | 0.03 | 2.05 | 0.03 | 39.0 | 5.7 | 32 | 2.44 | 1.8 | 1.30 |
| D579931 | | 1.90 | 0.06 | 6.93 | 2.6 | 590 | 1.49 | 0.10 | 5.60 | 0.13 | 166.0 | 6.0 | 21 | 2.22 | 6.5 | 2.09 |
| D579932 | | 1.85 | 0.01 | 6.89 | 0.4 | 1200 | 1.37 | 0.05 | 1.02 | 0.02 | 6.23 | 4.1 | 30 | 4.21 | 1.0 | 1.48 |
| D579933 | | 2.56 | 0.01 | 6.04 | 0.2 | 550 | 1.39 | 0.03 | 4.93 | <0.02 | 31.9 | 9.0 | 25 | 1.41 | 0.6 | 2.01 |
| D579934 | | 1.10 | 0.02 | 7.32 | 0.8 | 880 | 1.61 | 0.06 | 1.69 | 0.09 | 50.4 | 5.4 | 22 | 2.35 | 1.5 | 1.59 |
| D579935 | | 0.87 | 0.45 | 4.26 | 0.7 | 970 | 0.78 | 0.15 | 0.37 | 0.03 | 21.6 | 4.5 | 23 | 0.56 | 4.5 | 1.56 |
| D579936 | | 2.08 | 0.32 | 5.32 | 0.6 | 300 | 0.48 | 0.24 | 0.64 | 0.12 | 26.9 | 7.1 | 22 | 0.28 | 1.5 | 1.60 |
| D579937 | | 1.60 | <0.01 | 0.97 | 0.3 | 80 | 0.12 | 0.01 | 0.08 | 0.02 | 2.60 | 0.8 | 29 | 0.26 | 1.4 | 0.53 |
| D579938 | | 0.42 | 0.01 | 2.95 | 0.5 | 390 | 0.62 | 0.01 | 0.33 | 0.02 | 12.00 | 1.7 | 20 | 1.19 | 1.2 | 0.77 |
| D579939 | | 1.23 | 0.05 | 5.39 | 3.7 | 720 | 1.13 | 0.21 | 0.75 | 0.06 | 43.8 | 6.9 | 30 | 1.46 | 4.6 | 1.63 |
| D579940 | | 1.54 | 2.13 | 0.50 | 0.6 | 990 | 0.16 | 0.64 | 0.10 | 0.02 | 2.10 | 2.6 | 33 | 0.20 | 4.5 | 0.74 |

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



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Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Ga ppm | Ge ppm | Hf ppm | In ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm | P ppm | Pb ppm |
| D579901 | | 13.85 | 0.19 | 2.0 | 0.024 | 1.92 | 15.3 | 3.0 | 0.41 | 630 | 4.51 | 3.35 | 6.6 | 15.3 | 390 | 3.5 |
| D579902 | | 21.5 | 0.24 | 2.3 | 0.022 | 1.97 | 22.9 | 16.3 | 0.64 | 313 | 0.26 | 3.75 | 4.4 | 17.0 | 500 | 10.4 |
| D579903 | | 11.60 | 0.16 | 1.0 | 0.015 | 0.99 | 10.7 | 9.7 | 0.22 | 192 | 0.80 | 2.03 | 2.0 | 10.2 | 300 | 5.9 |
| D579904 | | 3.98 | 0.15 | 0.4 | <0.005 | 0.10 | 7.4 | 1.5 | 0.05 | 122 | 8.55 | 1.01 | 1.3 | 6.2 | 160 | 10.0 |
| D579905 | | 6.24 | 0.11 | 0.7 | <0.005 | 0.17 | 5.2 | 2.2 | 0.08 | 75 | 0.34 | 1.52 | 0.9 | 4.0 | 130 | 181.5 |
| D579906 | | 11.95 | 0.15 | 1.1 | 0.016 | 1.01 | 2.5 | 49.3 | 0.22 | 438 | 0.57 | 0.02 | 1.8 | 9.5 | 430 | 11.9 |
| D579907 | | 21.9 | 0.15 | 2.4 | 0.048 | 1.02 | 9.3 | 30.7 | 1.25 | 469 | 0.33 | 0.01 | 6.5 | 134.5 | 1500 | 3.4 |
| D579908 | | 25.1 | 0.15 | 2.5 | 0.024 | 1.59 | 30.1 | 18.2 | 0.48 | 78 | 0.19 | 0.02 | 4.9 | 20.0 | 560 | 4.1 |
| D579909 | | 9.30 | 0.12 | 1.1 | 0.011 | 0.99 | 9.0 | 4.3 | 0.15 | 49 | 0.41 | 1.65 | 1.0 | 5.6 | 140 | 7.0 |
| D579910 | | 9.37 | 0.05 | 1.1 | 0.012 | 0.96 | 10.2 | 4.2 | 0.15 | 67 | 1.13 | 1.85 | 1.1 | 8.4 | 180 | 12.8 |
| D579911 | | 21.8 | 0.08 | 2.3 | 0.026 | 1.39 | 25.0 | 10.1 | 0.21 | 362 | 0.58 | 4.79 | 2.5 | 12.0 | 540 | 6.1 |
| D579912 | | 22.2 | 0.07 | 2.3 | 0.024 | 1.44 | 20.3 | 10.9 | 0.34 | 355 | 2.06 | 4.07 | 2.6 | 14.7 | 490 | 24.6 |
| D579913 | | 20.4 | 0.07 | 2.4 | 0.022 | 1.98 | 17.5 | 11.6 | 0.25 | 244 | 0.39 | 3.38 | 2.5 | 13.7 | 530 | 30.6 |
| D579914 | | 17.25 | 0.07 | 1.9 | 0.019 | 1.66 | 15.1 | 12.6 | 0.34 | 356 | 0.20 | 2.45 | 2.1 | 12.8 | 400 | 12.0 |
| D579915 | | 19.85 | 0.06 | 2.1 | 0.027 | 1.17 | 24.4 | 7.9 | 0.17 | 301 | 33.9 | 4.07 | 1.9 | 14.1 | 530 | 94.8 |
| D579916 | | 19.90 | 0.07 | 2.1 | 0.022 | 1.22 | 22.1 | 8.1 | 0.25 | 321 | 4.20 | 4.13 | 2.3 | 13.4 | 470 | 35.4 |
| D579917 | | 3.88 | 0.06 | 0.3 | 0.009 | 0.06 | 4.3 | 0.7 | 0.01 | 209 | 13.45 | 0.92 | 0.3 | 4.3 | 1970 | 2140 |
| D579918 | | 19.70 | 0.07 | 1.9 | 0.018 | 1.49 | 17.3 | 11.0 | 0.38 | 230 | 0.72 | 3.20 | 3.1 | 11.4 | 390 | 16.2 |
| D579919 | | 2.28 | <0.05 | 0.2 | <0.005 | 0.35 | 1.2 | 1.6 | 0.04 | 56 | 0.42 | 0.02 | 0.3 | 1.9 | 40 | 1.4 |
| D579920 | | 17.45 | 0.06 | 2.0 | 0.021 | 0.84 | 17.2 | 3.9 | 0.35 | 218 | 1.12 | 3.59 | 2.9 | 13.0 | 420 | 18.7 |
| D579921 | | 4.85 | <0.05 | 0.6 | 0.006 | 0.33 | 6.0 | 2.1 | 0.13 | 53 | 0.47 | 0.94 | 1.0 | 5.3 | 120 | 1.8 |
| D579922 | | 5.36 | <0.05 | 0.7 | 0.013 | 0.46 | 4.9 | 3.2 | 0.20 | 84 | 0.44 | 0.03 | 1.0 | 8.2 | 290 | 1.1 |
| D579923 | | 22.4 | 0.07 | 2.2 | 0.023 | 1.70 | 23.7 | 11.4 | 0.44 | 336 | 1.18 | 3.77 | 2.5 | 14.7 | 540 | 9.0 |
| D579924 | | 7.15 | 0.05 | 0.8 | 0.007 | 0.24 | 5.3 | 4.3 | 0.28 | 182 | 0.96 | 1.77 | 0.9 | 5.9 | 240 | 5.5 |
| D579925 | | 17.40 | 0.07 | 1.6 | 0.110 | 1.54 | 10.0 | 17.9 | 1.63 | 862 | 16.10 | 2.55 | 3.0 | 16.1 | 890 | 24.2 |
| D579926 | | 27.8 | 0.08 | 2.1 | 0.034 | 2.27 | 15.1 | 14.0 | 0.56 | 509 | 0.36 | 2.39 | 3.1 | 16.7 | 500 | 24.5 |
| D579927 | | 9.59 | <0.05 | 0.7 | 0.006 | 0.83 | 10.4 | 63.4 | 0.07 | 39 | 0.15 | 0.05 | 1.2 | 4.0 | 40 | 3.0 |
| D579928 | | 1.05 | <0.05 | 0.1 | <0.005 | 0.08 | 1.7 | 3.9 | 0.14 | 236 | 0.87 | 0.15 | 0.2 | 4.1 | 90 | 1.3 |
| D579929 | | 14.70 | 0.06 | 1.9 | 0.015 | 0.40 | 16.2 | 6.6 | 0.45 | 215 | 1.20 | 4.43 | 3.0 | 14.1 | 490 | 6.5 |
| D579930 | | 19.15 | 0.06 | 2.1 | 0.019 | 1.70 | 16.9 | 12.2 | 0.46 | 308 | 0.19 | 2.55 | 4.0 | 14.8 | 430 | 6.7 |
| D579931 | | 18.75 | 0.16 | 2.5 | 0.035 | 1.30 | 67.5 | 26.8 | 0.91 | 927 | 0.35 | 0.03 | 4.4 | 14.9 | 490 | 3.8 |
| D579932 | | 20.3 | <0.05 | 1.9 | 0.029 | 1.80 | 2.7 | 8.7 | 0.44 | 141 | 0.49 | 2.54 | 4.6 | 13.0 | 420 | 4.7 |
| D579933 | | 21.2 | 0.07 | 2.5 | 0.026 | 1.69 | 11.1 | 17.2 | 0.43 | 455 | 0.22 | 0.04 | 4.3 | 22.0 | 480 | 5.5 |
| D579934 | | 21.9 | 0.08 | 2.4 | 0.022 | 2.20 | 23.0 | 20.8 | 0.56 | 339 | 0.40 | 3.45 | 4.1 | 14.1 | 450 | 12.4 |
| D579935 | | 11.40 | <0.05 | 1.3 | 0.013 | 0.90 | 10.3 | 5.7 | 0.22 | 119 | 16.60 | 2.28 | 1.2 | 9.4 | 280 | 11.8 |
| D579936 | | 12.40 | 0.05 | 1.1 | 0.005 | 0.22 | 12.5 | 1.0 | 0.17 | 362 | 10.50 | 4.12 | 0.9 | 9.2 | 280 | 6.2 |
| D579937 | | 2.94 | <0.05 | 0.2 | <0.005 | 0.12 | 1.2 | 0.9 | 0.15 | 108 | 0.45 | 0.27 | 0.3 | 4.3 | 20 | 2.2 |
| D579938 | | 8.42 | <0.05 | 0.9 | 0.009 | 0.58 | 5.6 | 7.7 | 0.21 | 118 | 0.49 | 1.51 | 1.2 | 5.6 | 160 | 4.3 |
| D579939 | | 16.45 | 0.06 | 1.7 | 0.018 | 1.32 | 19.9 | 7.6 | 0.30 | 324 | 0.37 | 2.50 | 4.2 | 22.9 | 720 | 6.8 |
| D579940 | | 1.96 | <0.05 | 0.2 | <0.005 | 0.15 | 1.0 | 0.8 | 0.03 | 62 | 51.4 | 0.22 | 0.2 | 4.2 | 40 | 47.8 |



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|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm |
| | | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 1 | 0.2 | 0.2 | 0.05 | 0.05 | 0.01 | 0.005 | 0.02 | 0.1 | 1 |
| D579901 | | 44.9 | <0.002 | 0.01 | 0.35 | 6.7 | 1 | 1.9 | 207 | 0.45 | <0.05 | 3.37 | 0.191 | 0.22 | 1.4 | 32 |
| D579902 | | 54.2 | <0.002 | 0.01 | 0.07 | 4.0 | 1 | 0.8 | 768 | 0.29 | <0.05 | 4.20 | 0.160 | 0.27 | 0.7 | 34 |
| D579903 | | 47.2 | <0.002 | 0.01 | 0.06 | 2.0 | 1 | 0.5 | 183.0 | 0.13 | <0.05 | 2.59 | 0.079 | 0.19 | 0.6 | 21 |
| D579904 | | 3.8 | <0.002 | 0.12 | 0.21 | 0.9 | 1 | <0.2 | 77.7 | <0.05 | 0.06 | 2.29 | 0.027 | 0.10 | 0.9 | 9 |
| D579905 | | 5.4 | <0.002 | 0.06 | 0.05 | 0.9 | 1 | 0.2 | 58.8 | 0.06 | 0.96 | 1.18 | 0.029 | 0.03 | 0.2 | 8 |
| D579906 | | 55.4 | <0.002 | 0.01 | 3.08 | 4.2 | 1 | 0.4 | 52.4 | 0.10 | <0.05 | 2.05 | 0.100 | 0.29 | 0.7 | 43 |
| D579907 | | 46.8 | <0.002 | <0.01 | 0.73 | 31.5 | 1 | 0.6 | 56.6 | 0.25 | <0.05 | 3.15 | 0.235 | 0.20 | 1.7 | 186 |
| D579908 | | 68.3 | <0.002 | <0.01 | 0.15 | 3.9 | 1 | 0.7 | 63.7 | 0.33 | <0.05 | 5.24 | 0.162 | 0.34 | 1.5 | 34 |
| D579909 | | 30.8 | <0.002 | 0.02 | 0.06 | 1.7 | 1 | 0.4 | 265 | 0.06 | <0.05 | 1.97 | 0.041 | 0.14 | 0.3 | 18 |
| D579910 | | 26.1 | <0.002 | 0.37 | 0.50 | 1.5 | 1 | 0.3 | 312 | 0.07 | 0.09 | 2.01 | 0.038 | 0.10 | 0.2 | 15 |
| D579911 | | 46.0 | <0.002 | 0.18 | 0.18 | 4.1 | <1 | 0.5 | 327 | 0.16 | 0.19 | 4.28 | 0.101 | 0.19 | 0.5 | 39 |
| D579912 | | 40.1 | <0.002 | 0.25 | 0.21 | 3.6 | 1 | 0.6 | 357 | 0.16 | 1.01 | 3.45 | 0.099 | 0.15 | 0.7 | 30 |
| D579913 | | 55.5 | <0.002 | 0.04 | 0.18 | 4.0 | <1 | 0.6 | 381 | 0.18 | 0.05 | 3.23 | 0.118 | 0.24 | 0.5 | 37 |
| D579914 | | 48.5 | <0.002 | 0.01 | 0.13 | 3.6 | 1 | 0.6 | 498 | 0.12 | <0.05 | 2.92 | 0.104 | 0.20 | 0.4 | 34 |
| D579915 | | 34.2 | <0.002 | 0.42 | 0.16 | 3.8 | 1 | 0.6 | 276 | 0.11 | 2.00 | 2.89 | 0.079 | 0.12 | 1.4 | 27 |
| D579916 | | 34.9 | <0.002 | 0.39 | 0.13 | 3.4 | <1 | 0.5 | 313 | 0.12 | 1.47 | 3.67 | 0.088 | 0.13 | 0.6 | 26 |
| D579917 | | 2.3 | <0.002 | 0.20 | 0.25 | 0.7 | 2 | <0.2 | 1695 | <0.05 | 9.89 | 5.93 | 0.011 | 0.02 | 21.0 | 3 |
| D579918 | | 48.9 | <0.002 | 0.02 | 0.07 | 3.0 | <1 | 0.6 | 295 | 0.18 | 0.05 | 5.02 | 0.100 | 0.18 | 1.1 | 30 |
| D579919 | | 12.4 | <0.002 | 0.01 | 0.05 | 0.4 | 1 | <0.2 | 7.9 | <0.05 | <0.05 | 0.36 | 0.014 | 0.05 | 0.1 | 6 |
| D579920 | | 30.8 | <0.002 | 0.01 | 0.06 | 3.0 | <1 | 0.5 | 205 | 0.19 | 0.11 | 3.04 | 0.111 | 0.12 | 0.7 | 33 |
| D579921 | | 21.5 | <0.002 | <0.01 | 0.06 | 1.3 | 1 | 0.2 | 54.1 | 0.06 | 0.11 | 0.80 | 0.034 | 0.07 | 0.2 | 14 |
| D579922 | | 27.2 | <0.002 | <0.01 | 0.07 | 3.2 | 1 | 0.3 | 16.0 | 0.05 | 0.10 | 0.73 | 0.067 | 0.12 | 0.4 | 22 |
| D579923 | | 59.4 | <0.002 | 0.12 | 0.07 | 3.9 | 1 | 0.6 | 523 | 0.16 | 0.11 | 3.73 | 0.118 | 0.23 | 0.8 | 33 |
| D579924 | | 7.9 | <0.002 | 0.10 | 0.08 | 1.3 | 1 | 0.2 | 170.0 | 0.05 | 0.10 | 2.48 | 0.041 | 0.05 | 0.3 | 11 |
| D579925 | | 41.4 | 0.039 | 0.57 | 2.60 | 15.9 | 1 | 1.6 | 469 | 0.19 | 0.19 | 2.29 | 0.297 | 0.30 | 1.4 | 143 |
| D579926 | | 57.0 | <0.002 | 0.01 | 0.10 | 5.1 | 1 | 1.0 | 446 | 0.14 | <0.05 | 3.01 | 0.126 | 0.25 | 0.5 | 64 |
| D579927 | | 32.1 | <0.002 | <0.01 | 0.17 | 0.8 | 1 | 0.2 | 38.1 | 0.09 | <0.05 | 1.76 | 0.040 | 0.15 | 0.3 | 15 |
| D579928 | | 4.3 | <0.002 | 0.01 | 0.05 | 0.8 | 1 | <0.2 | 44.5 | <0.05 | <0.05 | 0.25 | 0.009 | 0.02 | <0.1 | 4 |
| D579929 | | 11.5 | <0.002 | 0.25 | 0.06 | 3.0 | 1 | 0.5 | 380 | 0.19 | <0.05 | 2.62 | 0.112 | 0.06 | 0.8 | 25 |
| D579930 | | 44.5 | <0.002 | 0.01 | 0.09 | 3.3 | <1 | 0.6 | 346 | 0.26 | <0.05 | 2.83 | 0.134 | 0.19 | 0.6 | 29 |
| D579931 | | 22.1 | <0.002 | 0.06 | 0.36 | 4.6 | <1 | 0.7 | 406 | 0.30 | 0.07 | 3.25 | 0.155 | 0.22 | 0.7 | 41 |
| D579932 | | 61.3 | <0.002 | 0.05 | 0.11 | 4.0 | <1 | 0.8 | 286 | 0.33 | <0.05 | 3.48 | 0.119 | 0.24 | 0.5 | 41 |
| D579933 | | 21.1 | <0.002 | 0.01 | 0.25 | 3.0 | <1 | 0.7 | 99.6 | 0.31 | <0.05 | 2.54 | 0.155 | 0.19 | 0.8 | 32 |
| D579934 | | 75.8 | <0.002 | <0.01 | 0.07 | 3.5 | 1 | 0.6 | 761 | 0.29 | <0.05 | 4.32 | 0.143 | 0.34 | 0.8 | 31 |
| D579935 | | 28.6 | <0.002 | 0.51 | 0.10 | 2.4 | 1 | 0.4 | 4360 | 0.08 | 0.72 | 1.62 | 0.061 | 0.10 | 0.4 | 22 |
| D579936 | | 7.7 | <0.002 | 0.77 | 0.08 | 1.6 | <1 | 0.2 | 162.0 | 0.06 | 0.46 | 1.88 | 0.036 | 0.03 | 0.3 | 6 |
| D579937 | | 3.2 | <0.002 | <0.01 | 0.05 | 0.6 | 1 | <0.2 | 115.0 | <0.05 | <0.05 | 0.20 | 0.017 | 0.02 | <0.1 | 9 |
| D579938 | | 17.7 | <0.002 | 0.01 | 0.06 | 1.5 | 1 | 0.3 | 242 | 0.07 | <0.05 | 1.76 | 0.047 | 0.06 | 0.4 | 14 |
| D579939 | | 38.3 | <0.002 | 0.05 | 0.15 | 3.6 | <1 | 0.6 | 387 | 0.20 | 0.10 | 2.99 | 0.101 | 0.14 | 0.7 | 37 |
| D579940 | | 4.6 | <0.002 | 0.21 | 0.08 | 0.6 | 1 | <0.2 | 78.4 | <0.05 | 2.08 | 0.22 | 0.009 | 0.02 | 0.1 | 7 |



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Finalized Date: 3-DEC-2021
 Account: BGCEITMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | Ag-OG62 | Cu-OG62 | Au-ICP21 | Au-GRA21 |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | W ppm | Y ppm | Zn ppm | Zr ppm | Ag ppm | Cu % | Au ppm | Au ppm |
| | | 0.1 | 0.1 | 2 | 0.5 | 1 | 0.001 | 0.001 | 0.05 |
| D579901 | | 0.7 | 17.6 | 30 | 57.2 | | | 0.004 | |
| D579902 | | 0.9 | 10.3 | 51 | 80.2 | | | 0.004 | |
| D579903 | | 0.5 | 4.4 | 27 | 32.1 | | | 0.002 | |
| D579904 | | 1.1 | 3.3 | 6 | 17.0 | | | 0.005 | |
| D579905 | | 3.1 | 1.6 | 5 | 25.1 | | | 0.155 | |
| D579906 | | 4.0 | 6.1 | 10 | 43.6 | | | 0.002 | |
| D579907 | | 3.9 | 13.9 | 169 | 88.5 | | | 0.013 | |
| D579908 | | 1.7 | 5.2 | 42 | 85.6 | | | 0.001 | |
| D579909 | | 1.5 | 2.4 | 10 | 38.7 | | | 0.005 | |
| D579910 | | 1.1 | 2.5 | 14 | 40.7 | | | 0.004 | |
| D579911 | | 6.5 | 5.0 | 33 | 85.6 | | | 0.024 | |
| D579912 | | 6.8 | 5.3 | 40 | 89.2 | | | 0.372 | |
| D579913 | | 4.0 | 5.3 | 41 | 91.5 | | | 0.020 | |
| D579914 | | 1.5 | 5.6 | 42 | 70.1 | | | 0.004 | |
| D579915 | | 6.6 | 4.7 | 40 | 86.1 | | | 0.708 | |
| D579916 | | 7.0 | 5.1 | 37 | 81.9 | | | 0.566 | |
| D579917 | | 3.5 | 19.9 | 68 | 14.2 | | | 0.920 | |
| D579918 | | 2.7 | 6.0 | 38 | 66.8 | | | 0.005 | |
| D579919 | | 0.6 | 0.5 | 3 | 8.8 | | | <0.001 | |
| D579920 | | 2.3 | 5.6 | 35 | 73.4 | | | 0.004 | |
| D579921 | | 0.9 | 2.1 | 10 | 21.5 | | | <0.001 | |
| D579922 | | 0.8 | 3.1 | 14 | 28.3 | | | 0.001 | |
| D579923 | | 2.2 | 8.6 | 51 | 82.8 | | | 0.009 | |
| D579924 | | 2.9 | 2.2 | 15 | 29.3 | | | 0.055 | |
| D579925 | | 7.5 | 16.2 | 144 | 52.5 | | | 0.481 | |
| D579926 | | 3.9 | 7.1 | 48 | 76.2 | | | <0.001 | |
| D579927 | | 3.5 | 1.5 | 11 | 24.5 | | | <0.001 | |
| D579928 | | 0.1 | 2.4 | 5 | 3.8 | | | 0.001 | |
| D579929 | | 1.9 | 7.1 | 17 | 71.5 | | | 0.002 | |
| D579930 | | 1.2 | 6.4 | 31 | 75.2 | | | <0.001 | |
| D579931 | | 2.0 | 12.2 | 33 | 86.9 | | | 0.001 | |
| D579932 | | 3.2 | 4.3 | 18 | 72.9 | | | 0.011 | |
| D579933 | | 0.4 | 11.9 | 50 | 90.4 | | | 0.001 | |
| D579934 | | 0.2 | 9.3 | 49 | 82.1 | | | 0.001 | |
| D579935 | | 2.9 | 3.0 | 23 | 49.1 | | | 0.253 | |
| D579936 | | 2.3 | 2.4 | 19 | 43.4 | | | 0.112 | |
| D579937 | | 0.4 | 0.6 | 11 | 4.9 | | | <0.001 | |
| D579938 | | 1.1 | 2.1 | 14 | 33.1 | | | 0.001 | |
| D579939 | | 2.2 | 6.5 | 28 | 66.5 | | | 0.005 | |
| D579940 | | 0.7 | 0.4 | 8 | 6.8 | | | 0.863 | |

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



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Account: BGCETMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Recvd Wt. kg | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | Fe % |
| D579941 | | 1.55 | 0.33 | 6.52 | 0.8 | 420 | 0.81 | 0.40 | 0.22 | 0.09 | 35.6 | 7.3 | 22 | 0.77 | 1.4 | 1.62 |
| D579942 | | 2.17 | 0.32 | 6.81 | 0.7 | 670 | 1.36 | 0.36 | 1.44 | 0.06 | 53.1 | 6.4 | 25 | 1.70 | 4.8 | 1.44 |
| D579943 | | 2.46 | 0.01 | 5.19 | 0.3 | 680 | 1.06 | 0.04 | 2.10 | 0.08 | 31.2 | 3.6 | 34 | 1.94 | 8.4 | 1.35 |
| D579944 | | 2.03 | 0.01 | 6.32 | 0.4 | 720 | 1.26 | 0.06 | 1.60 | 0.04 | 41.4 | 4.0 | 34 | 2.01 | 2.7 | 1.46 |
| D579945 | | 1.52 | 0.09 | 8.14 | 0.6 | 640 | 1.21 | 0.12 | 0.58 | 0.10 | 62.3 | 2.4 | 20 | 0.33 | 2.2 | 1.07 |
| D579946 | | 1.22 | 0.04 | 7.02 | 0.3 | 820 | 2.06 | 0.05 | 2.46 | 0.04 | 45.4 | 5.3 | 25 | 1.00 | 3.8 | 1.76 |
| D579947 | | 2.22 | 0.12 | 7.36 | 0.6 | 590 | 1.66 | 0.13 | 3.56 | 0.09 | 50.5 | 22.5 | 99 | 1.63 | 116.0 | 4.36 |
| D579948 | | 1.79 | 0.15 | 8.14 | 1.8 | 1180 | 2.90 | 0.30 | 1.20 | 0.09 | 64.0 | 5.7 | 15 | 1.93 | 15.4 | 1.38 |
| D579949 | | 1.88 | 0.05 | 7.75 | 0.6 | 620 | 2.05 | 0.06 | 1.78 | 0.09 | 51.7 | 6.1 | 29 | 1.43 | 4.2 | 1.72 |
| D579950 | | 0.04 | 0.02 | 7.06 | 2.2 | 840 | 1.22 | 0.02 | 1.69 | 0.02 | 26.6 | 4.0 | 25 | 0.40 | 25.6 | 2.50 |
| D579951 | | 2.03 | 0.50 | 3.96 | 1.0 | 800 | 0.81 | 0.23 | 0.88 | 0.05 | 31.6 | 10.4 | 25 | 0.63 | 2.0 | 1.93 |
| D579952 | | 1.82 | 0.04 | 7.07 | 0.5 | 490 | 1.39 | 0.16 | 2.07 | 0.03 | 51.7 | 3.7 | 23 | 2.47 | 2.3 | 1.41 |
| D579953 | | 1.60 | 0.01 | 1.07 | 0.3 | 70 | 0.24 | 0.02 | 0.11 | <0.02 | 2.63 | 1.3 | 18 | 0.28 | 1.0 | 0.56 |
| D579954 | | 1.26 | 0.03 | 6.82 | 1.3 | 330 | 0.84 | 0.01 | 5.41 | 0.11 | 48.1 | 47.9 | 67 | 2.79 | 19.3 | 9.21 |
| D579955 | | 1.71 | <0.01 | 0.08 | 0.4 | 10 | <0.05 | <0.01 | 0.02 | <0.02 | 0.20 | 0.2 | 23 | 0.12 | 0.5 | 0.30 |
| D579956 | | 1.96 | 0.16 | 7.41 | 0.6 | 1010 | 1.51 | 0.05 | 0.93 | 0.15 | 59.0 | 7.0 | 34 | 1.89 | 4.2 | 1.76 |
| D579957 | | 2.25 | <0.01 | 1.05 | 0.3 | 160 | 0.25 | <0.01 | 0.82 | 0.02 | 5.94 | 0.8 | 31 | 0.25 | 0.6 | 0.53 |
| D579958 | | 1.36 | 0.01 | 6.27 | 0.6 | 760 | 1.26 | 0.03 | 1.49 | 0.03 | 37.9 | 3.8 | 33 | 2.37 | 1.8 | 1.52 |
| D579959 | | 2.18 | 0.30 | 8.75 | 0.9 | 540 | 1.21 | 0.19 | 2.64 | 0.12 | 46.7 | 2.4 | 28 | 1.26 | 6.5 | 1.71 |
| D579960 | | 1.04 | 0.04 | 7.52 | 0.8 | 750 | 1.84 | 0.11 | 0.82 | 0.09 | 48.3 | 5.1 | 26 | 1.94 | 3.7 | 1.56 |
| D579961 | | 1.18 | 0.03 | 6.70 | 2.0 | 720 | 2.02 | 0.07 | 4.27 | 0.12 | 127.0 | 20.2 | 139 | 11.15 | 47.1 | 4.43 |
| D579962 | | 1.95 | 0.01 | 7.51 | 0.5 | 810 | 1.53 | 0.03 | 1.59 | 0.05 | 50.9 | 6.2 | 31 | 1.45 | 2.6 | 1.78 |
| D579963 | | 2.40 | 18.60 | 2.36 | 2.9 | 2920 | 0.31 | 16.70 | 0.24 | 0.06 | 11.45 | 5.1 | 22 | 0.41 | 535 | 1.95 |
| D579964 | | 1.77 | 0.12 | 7.37 | 0.7 | 820 | 1.26 | 0.09 | 1.93 | 0.10 | 49.7 | 6.2 | 31 | 3.18 | 11.8 | 1.48 |
| D579965 | | 0.87 | 0.02 | 5.74 | 0.7 | 1040 | 1.20 | 0.08 | 2.71 | 0.06 | 62.9 | 15.0 | 75 | 0.42 | 3.0 | 3.03 |
| D579966 | | 1.59 | 0.20 | 6.91 | 1.1 | 860 | 1.61 | 0.15 | 3.57 | 0.07 | 58.7 | 19.7 | 84 | 0.68 | 25.4 | 4.18 |
| D579967 | | 1.80 | 0.17 | 5.39 | 0.5 | 640 | 0.71 | 0.04 | 3.69 | 0.10 | 30.9 | 11.1 | 54 | 0.34 | 30.9 | 2.39 |
| D579968 | | 1.04 | 0.02 | 2.33 | 0.5 | 170 | 0.33 | 0.03 | 2.23 | 0.06 | 19.45 | 10.4 | 47 | 0.39 | 15.5 | 2.00 |
| D579969 | | 1.21 | 0.06 | 6.50 | 0.5 | 760 | 1.92 | 0.05 | 1.70 | 0.03 | 68.8 | 18.0 | 107 | 3.52 | 160.0 | 3.43 |
| D579970 | | 1.65 | 0.14 | 5.38 | 2.6 | 3330 | 2.02 | 0.24 | 8.27 | 0.17 | 147.0 | 24.4 | 140 | 4.60 | 42.7 | 3.63 |
| D579971 | | 1.84 | <0.01 | 6.30 | 0.4 | 830 | 1.53 | 0.05 | 2.54 | 0.07 | 40.8 | 2.8 | 28 | 2.09 | 2.7 | 1.49 |
| D579972 | | 0.90 | 6.09 | 2.88 | <0.2 | 340 | 0.63 | 4.85 | 2.51 | 0.28 | 16.90 | 3.2 | 18 | 0.74 | 4.3 | 1.09 |
| D579973 | | 1.98 | 0.07 | 6.17 | 5.6 | 990 | 1.50 | 0.07 | 2.69 | 0.19 | 39.9 | 8.6 | 58 | 1.57 | 7.2 | 2.06 |
| D579974 | | 1.00 | 0.06 | 7.36 | 0.7 | 670 | 1.48 | 0.04 | 1.19 | 0.12 | 47.0 | 5.9 | 29 | 1.56 | 1.6 | 1.64 |
| D579975 | | 0.04 | 0.65 | 7.32 | 17.4 | 1270 | 0.94 | 0.17 | 4.63 | 0.64 | 16.85 | 16.0 | 30 | 1.88 | 777 | 4.41 |
| D579976 | | 1.09 | 0.02 | 6.68 | 0.7 | 770 | 1.33 | 0.07 | 1.51 | 0.05 | 43.4 | 5.1 | 29 | 2.18 | 2.4 | 1.70 |
| D579977 | | 0.88 | 0.11 | 7.41 | 0.5 | 730 | 1.56 | 0.65 | 0.99 | 0.03 | 42.3 | 9.1 | 33 | 3.20 | 1.4 | 1.95 |
| D579978 | | 1.39 | 0.13 | 1.18 | 0.5 | 220 | 0.24 | 0.02 | 1.05 | <0.02 | 14.20 | 4.6 | 39 | 0.15 | 22.7 | 1.00 |
| D579979 | | 1.36 | 0.62 | 5.69 | 0.8 | 1830 | 0.68 | 0.06 | 7.54 | 0.57 | 22.7 | 25.4 | 95 | 0.34 | 9.0 | 5.68 |
| D579980 | | 1.40 | 0.39 | 5.72 | 0.2 | 480 | 0.89 | 0.05 | 6.52 | 0.59 | 61.8 | 20.6 | 173 | 0.58 | 21.0 | 5.12 |



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Page: 3 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 3-DEC-2021
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Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Ga ppm | Ge ppm | Hf ppm | In ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm | P ppm | Pb ppm |
| D579941 | | 17.50 | 0.05 | 1.8 | 0.010 | 0.52 | 16.4 | 3.5 | 0.14 | 254 | 12.20 | 5.01 | 1.9 | 11.8 | 380 | 9.6 |
| D579942 | | 20.4 | 0.07 | 2.3 | 0.023 | 1.82 | 25.6 | 8.0 | 0.24 | 284 | 2.19 | 3.37 | 2.4 | 14.3 | 450 | 8.8 |
| D579943 | | 15.90 | 0.06 | 1.5 | 0.020 | 1.21 | 14.2 | 9.2 | 0.41 | 316 | 0.61 | 2.30 | 1.9 | 12.9 | 310 | 9.2 |
| D579944 | | 18.90 | 0.07 | 2.0 | 0.020 | 1.32 | 18.5 | 14.1 | 0.44 | 223 | 0.50 | 3.29 | 1.8 | 13.8 | 430 | 7.0 |
| D579945 | | 27.0 | 0.08 | 2.8 | 0.014 | 0.52 | 27.0 | 11.6 | 0.47 | 302 | 0.23 | 7.18 | 4.3 | 9.1 | 480 | 9.8 |
| D579946 | | 21.0 | 0.08 | 2.2 | 0.022 | 1.58 | 20.8 | 15.4 | 0.31 | 250 | 0.44 | 3.86 | 4.1 | 14.0 | 480 | 9.8 |
| D579947 | | 18.90 | 0.10 | 3.3 | 0.039 | 1.78 | 22.3 | 34.4 | 2.63 | 657 | 1.16 | 3.38 | 3.2 | 60.6 | 1070 | 7.0 |
| D579948 | | 26.0 | 0.09 | 2.4 | 0.012 | 0.48 | 29.2 | 8.3 | 0.15 | 342 | 2.90 | 6.45 | 3.7 | 11.5 | 510 | 13.4 |
| D579949 | | 21.4 | 0.08 | 2.5 | 0.023 | 1.42 | 24.8 | 12.6 | 0.41 | 358 | 0.47 | 4.64 | 2.3 | 16.6 | 660 | 12.9 |
| D579950 | | 13.40 | 0.06 | 1.8 | 0.022 | 1.83 | 14.9 | 3.6 | 0.39 | 587 | 4.20 | 3.24 | 5.4 | 13.6 | 370 | 2.6 |
| D579951 | | 9.07 | 0.06 | 1.1 | 0.007 | 0.56 | 15.6 | 2.6 | 0.07 | 205 | 0.59 | 2.72 | 0.7 | 9.4 | 380 | 5.3 |
| D579952 | | 19.85 | 0.08 | 2.3 | 0.021 | 2.07 | 25.0 | 15.4 | 0.51 | 225 | 0.11 | 3.42 | 3.4 | 13.5 | 500 | 7.6 |
| D579953 | | 3.64 | <0.05 | 0.1 | <0.005 | 0.12 | 1.2 | 1.6 | 0.18 | 58 | 0.41 | 0.30 | 0.2 | 4.8 | 20 | 2.4 |
| D579954 | | 19.15 | 0.09 | 3.3 | 0.080 | 0.99 | 23.7 | 34.0 | 3.05 | 1360 | 0.99 | 2.08 | 8.0 | 35.8 | 1190 | 5.4 |
| D579955 | | 0.26 | <0.05 | <0.1 | <0.005 | 0.03 | <0.5 | 0.3 | 0.01 | 35 | 0.13 | 0.03 | 0.1 | 0.7 | 10 | <0.5 |
| D579956 | | 22.0 | 0.08 | 2.6 | 0.025 | 1.50 | 29.1 | 10.7 | 0.39 | 301 | 0.40 | 4.39 | 2.0 | 18.0 | 610 | 11.5 |
| D579957 | | 3.05 | <0.05 | 0.3 | <0.005 | 0.29 | 2.6 | 3.4 | 0.09 | 121 | 0.15 | 0.44 | 0.5 | 3.1 | 80 | 1.3 |
| D579958 | | 17.65 | 0.08 | 1.7 | 0.017 | 1.65 | 18.9 | 10.4 | 0.57 | 238 | 0.41 | 2.63 | 2.7 | 13.4 | 370 | 8.3 |
| D579959 | | 18.65 | 0.08 | 2.8 | 0.017 | 0.96 | 22.0 | 5.9 | 0.46 | 432 | 0.88 | 6.38 | 0.5 | 16.5 | 660 | 10.3 |
| D579960 | | 21.3 | 0.07 | 2.3 | 0.024 | 1.62 | 23.6 | 12.6 | 0.33 | 352 | 0.12 | 4.04 | 2.7 | 15.6 | 510 | 17.0 |
| D579961 | | 20.0 | 0.17 | 3.2 | 0.045 | 1.54 | 60.1 | 22.5 | 1.55 | 706 | 1.39 | 3.05 | 25.4 | 51.0 | 3660 | 13.4 |
| D579962 | | 21.3 | 0.07 | 2.3 | 0.023 | 1.69 | 25.0 | 19.0 | 0.56 | 273 | 1.53 | 3.71 | 2.3 | 17.4 | 550 | 13.6 |
| D579963 | | 7.03 | <0.05 | 0.6 | 0.018 | 0.27 | 6.4 | 1.5 | 0.04 | 200 | 2.97 | 1.62 | 0.5 | 6.0 | 210 | 144.0 |
| D579964 | | 20.1 | 0.10 | 2.3 | 0.020 | 2.85 | 23.3 | 15.7 | 0.27 | 246 | 0.43 | 3.10 | 3.4 | 18.3 | 650 | 12.9 |
| D579965 | | 14.00 | 0.11 | 1.2 | 0.031 | 1.80 | 29.7 | 5.7 | 1.66 | 534 | 1.05 | 2.14 | 2.9 | 25.5 | 1170 | 7.6 |
| D579966 | | 17.60 | 0.11 | 1.5 | 0.033 | 1.54 | 27.2 | 12.7 | 2.14 | 702 | 0.70 | 2.61 | 2.7 | 30.4 | 1350 | 10.3 |
| D579967 | | 12.20 | 0.07 | 1.1 | 0.024 | 1.24 | 15.6 | 10.6 | 1.27 | 598 | 0.44 | 2.72 | 1.5 | 18.7 | 520 | 8.5 |
| D579968 | | 7.81 | 0.05 | 0.4 | 0.016 | 0.38 | 9.3 | 9.5 | 0.95 | 425 | 0.67 | 0.90 | 1.4 | 16.7 | 520 | 2.2 |
| D579969 | | 16.70 | 0.09 | 2.6 | 0.037 | 1.46 | 33.7 | 26.2 | 1.46 | 424 | 0.56 | 3.60 | 4.2 | 49.0 | 720 | 11.4 |
| D579970 | | 14.70 | 0.16 | 3.3 | 0.039 | 1.57 | 69.6 | 16.3 | 2.93 | 918 | 0.74 | 2.80 | 5.2 | 111.5 | 1530 | 14.4 |
| D579971 | | 19.80 | 0.07 | 2.1 | 0.025 | 1.37 | 19.1 | 12.5 | 0.36 | 282 | 0.44 | 3.32 | 2.2 | 15.3 | 480 | 12.7 |
| D579972 | | 8.08 | <0.05 | 1.0 | 0.008 | 0.56 | 8.0 | 5.9 | 0.22 | 230 | 0.19 | 1.55 | 0.7 | 7.8 | 290 | 1095 |
| D579973 | | 16.75 | 0.08 | 2.1 | 0.021 | 2.19 | 18.6 | 7.7 | 0.81 | 552 | 1.11 | 3.42 | 11.7 | 46.3 | 710 | 27.6 |
| D579974 | | 20.7 | 0.07 | 2.3 | 0.024 | 1.58 | 24.0 | 12.1 | 0.37 | 350 | 0.93 | 4.23 | 2.2 | 15.4 | 530 | 8.2 |
| D579975 | | 16.35 | 0.06 | 1.6 | 0.107 | 1.54 | 8.0 | 18.1 | 1.60 | 858 | 15.05 | 2.53 | 2.5 | 16.0 | 890 | 22.5 |
| D579976 | | 16.20 | 0.07 | 2.1 | 0.021 | 1.51 | 20.7 | 18.0 | 0.61 | 341 | 0.15 | 3.27 | 2.5 | 14.6 | 430 | 12.0 |
| D579977 | | 20.8 | 0.07 | 2.5 | 0.019 | 1.94 | 20.5 | 18.9 | 0.56 | 241 | 0.47 | 3.62 | 3.5 | 16.7 | 520 | 15.3 |
| D579978 | | 2.60 | <0.05 | 0.3 | 0.009 | 0.92 | 6.3 | 3.3 | 0.41 | 191 | 0.43 | 0.21 | 0.6 | 7.0 | 210 | 3.4 |
| D579979 | | 14.10 | 0.08 | 0.9 | 0.036 | 0.31 | 9.8 | 4.3 | 1.70 | 1660 | 6.05 | 4.23 | 2.5 | 63.2 | 1130 | 6.5 |
| D579980 | | 16.75 | 0.09 | 1.7 | 0.060 | 0.96 | 27.1 | 9.1 | 1.75 | 1540 | 1.11 | 3.31 | 1.2 | 63.6 | 1570 | 7.2 |



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Plus Appendix Pages
 Finalized Date: 3-DEC-2021
 Account: BGCETMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm |
| D579941 | | 23.3 | <0.002 | 0.70 | 0.10 | 2.3 | 1 | 0.3 | 214 | 0.12 | 0.56 | 2.95 | 0.067 | 0.08 | 0.4 | 13 |
| D579942 | | 69.2 | <0.002 | 0.25 | 0.20 | 3.8 | 1 | 0.6 | 254 | 0.15 | 0.40 | 3.43 | 0.097 | 0.26 | 0.6 | 31 |
| D579943 | | 34.9 | <0.002 | 0.02 | 0.10 | 3.2 | 1 | 0.6 | 457 | 0.10 | <0.05 | 2.49 | 0.088 | 0.15 | 0.6 | 31 |
| D579944 | | 39.1 | <0.002 | 0.10 | 0.07 | 3.4 | <1 | 0.6 | 473 | 0.11 | <0.05 | 3.76 | 0.100 | 0.15 | 0.7 | 33 |
| D579945 | | 13.0 | <0.002 | 0.25 | 0.11 | 2.6 | <1 | 0.4 | 227 | 0.17 | 0.11 | 52.4 | 0.091 | 0.09 | 2.5 | 18 |
| D579946 | | 43.7 | <0.002 | 0.01 | 0.07 | 3.5 | <1 | 0.6 | 596 | 0.23 | <0.05 | 6.81 | 0.135 | 0.21 | 0.8 | 31 |
| D579947 | | 48.6 | <0.002 | 0.48 | 0.11 | 14.9 | 1 | 0.7 | 475 | 0.22 | 0.08 | 3.14 | 0.378 | 0.28 | 1.0 | 131 |
| D579948 | | 20.8 | <0.002 | 0.69 | 0.20 | 2.9 | 1 | 0.3 | 333 | 0.10 | 0.15 | 6.45 | 0.057 | 0.13 | 1.6 | 22 |
| D579949 | | 46.9 | <0.002 | 0.24 | 0.10 | 4.7 | 1 | 0.6 | 658 | 0.16 | 0.05 | 4.27 | 0.111 | 0.20 | 1.0 | 35 |
| D579950 | | 44.2 | <0.002 | 0.01 | 0.31 | 6.5 | <1 | 1.7 | 197.0 | 0.39 | <0.05 | 2.87 | 0.176 | 0.17 | 1.2 | 30 |
| D579951 | | 18.7 | <0.002 | 1.10 | 0.06 | 1.6 | 1 | 0.2 | 288 | <0.05 | 0.42 | 2.30 | 0.030 | 0.08 | 0.3 | 13 |
| D579952 | | 72.5 | <0.002 | 0.02 | 0.13 | 3.9 | <1 | 0.7 | 220 | 0.27 | <0.05 | 3.25 | 0.151 | 0.32 | 0.6 | 37 |
| D579953 | | 4.2 | <0.002 | 0.05 | <0.05 | 1.1 | 1 | <0.2 | 123.5 | <0.05 | <0.05 | 0.24 | 0.018 | 0.02 | <0.1 | 16 |
| D579954 | | 79.8 | <0.002 | 0.10 | <0.05 | 38.6 | 1 | 0.8 | 422 | 0.46 | <0.05 | 2.93 | 0.861 | 0.37 | 0.5 | 272 |
| D579955 | | 1.0 | <0.002 | <0.01 | <0.05 | 0.1 | 1 | <0.2 | 7.1 | <0.05 | <0.05 | 0.03 | <0.005 | <0.02 | <0.1 | 1 |
| D579956 | | 49.2 | <0.002 | 0.24 | 0.15 | 4.7 | <1 | 0.6 | 335 | 0.15 | 0.12 | 4.61 | 0.103 | 0.18 | 0.5 | 39 |
| D579957 | | 9.2 | <0.002 | <0.01 | <0.05 | 0.7 | 1 | <0.2 | 86.4 | <0.05 | <0.05 | 0.47 | 0.021 | 0.03 | 0.1 | 7 |
| D579958 | | 46.9 | <0.002 | 0.01 | <0.05 | 3.6 | 1 | 0.6 | 607 | 0.20 | <0.05 | 2.89 | 0.122 | 0.22 | 0.5 | 33 |
| D579959 | | 24.8 | <0.002 | 0.65 | 0.11 | 3.5 | 1 | 0.3 | 737 | <0.05 | 0.42 | 4.04 | 0.081 | 0.10 | 1.5 | 21 |
| D579960 | | 53.8 | <0.002 | 0.03 | 0.08 | 4.1 | 1 | 0.6 | 666 | 0.19 | 0.05 | 4.05 | 0.135 | 0.19 | 0.9 | 38 |
| D579961 | | 54.9 | <0.002 | 0.11 | 0.12 | 9.7 | 1 | 1.0 | 873 | 1.52 | <0.05 | 5.70 | 0.528 | 0.23 | 2.1 | 120 |
| D579962 | | 50.6 | <0.002 | 0.01 | 0.09 | 4.4 | 1 | 0.7 | 613 | 0.17 | <0.05 | 3.52 | 0.129 | 0.21 | 0.6 | 38 |
| D579963 | | 8.2 | <0.002 | 0.46 | 0.32 | 0.7 | 1 | 0.2 | 788 | <0.05 | 9.29 | 1.29 | 0.028 | 0.03 | 0.3 | 7 |
| D579964 | | 88.3 | <0.002 | 0.12 | 0.29 | 4.3 | <1 | 0.7 | 255 | 0.25 | 0.06 | 3.36 | 0.149 | 0.35 | 0.5 | 43 |
| D579965 | | 35.3 | <0.002 | 0.01 | 0.06 | 10.8 | 1 | 0.7 | 921 | 0.21 | <0.05 | 3.56 | 0.245 | 0.16 | 1.0 | 81 |
| D579966 | | 41.3 | <0.002 | <0.01 | 0.12 | 14.4 | 1 | 0.6 | 1130 | 0.20 | <0.05 | 5.21 | 0.304 | 0.18 | 1.4 | 122 |
| D579967 | | 30.1 | <0.002 | 0.01 | <0.05 | 7.7 | 1 | 0.5 | 354 | 0.10 | <0.05 | 2.98 | 0.123 | 0.14 | 0.8 | 56 |
| D579968 | | 13.0 | <0.002 | 0.01 | <0.05 | 5.7 | <1 | 0.4 | 176.5 | 0.06 | <0.05 | 1.04 | 0.113 | 0.06 | 0.2 | 44 |
| D579969 | | 65.6 | <0.002 | 0.17 | 0.07 | 11.1 | <1 | 0.7 | 777 | 0.28 | <0.05 | 6.29 | 0.287 | 0.31 | 1.4 | 87 |
| D579970 | | 60.4 | <0.002 | 0.42 | 0.21 | 12.1 | 1 | 0.7 | 1180 | 0.24 | 0.05 | 22.8 | 0.293 | 0.34 | 2.2 | 95 |
| D579971 | | 34.8 | <0.002 | 0.03 | 0.09 | 3.6 | 1 | 0.6 | 670 | 0.14 | <0.05 | 2.88 | 0.120 | 0.16 | 0.4 | 34 |
| D579972 | | 17.9 | <0.002 | 0.13 | 0.06 | 1.6 | 2 | 0.2 | 179.0 | 0.05 | 5.00 | 1.22 | 0.041 | 0.08 | 0.9 | 18 |
| D579973 | | 43.8 | <0.002 | 0.03 | 0.23 | 4.0 | <1 | 0.6 | 423 | 0.49 | <0.05 | 3.37 | 0.230 | 0.21 | 1.4 | 39 |
| D579974 | | 47.5 | <0.002 | 0.15 | 0.15 | 4.2 | <1 | 0.6 | 346 | 0.16 | 0.07 | 3.66 | 0.103 | 0.18 | 0.8 | 39 |
| D579975 | | 38.2 | 0.042 | 0.58 | 2.52 | 14.7 | 2 | 1.5 | 454 | 0.18 | 0.16 | 2.13 | 0.293 | 0.30 | 1.2 | 143 |
| D579976 | | 46.0 | <0.002 | 0.03 | 0.08 | 4.0 | <1 | 0.5 | 620 | 0.18 | <0.05 | 4.04 | 0.124 | 0.20 | 0.6 | 35 |
| D579977 | | 66.9 | <0.002 | 0.20 | 0.06 | 3.8 | <1 | 0.6 | 617 | 0.27 | 0.43 | 4.08 | 0.155 | 0.24 | 0.9 | 35 |
| D579978 | | 29.6 | <0.002 | 0.01 | <0.05 | 3.0 | 1 | 0.3 | 70.1 | <0.05 | <0.05 | 0.76 | 0.063 | 0.13 | 0.2 | 25 |
| D579979 | | 10.3 | <0.002 | 0.88 | 0.18 | 17.9 | 1 | 0.4 | 672 | 0.13 | 1.16 | 0.64 | 0.303 | 0.05 | 0.3 | 88 |
| D579980 | | 31.2 | <0.002 | 0.50 | 0.13 | 19.4 | 1 | 0.6 | 454 | 0.07 | 0.38 | 3.45 | 0.167 | 0.12 | 0.7 | 119 |

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



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Account: BGCEITMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | Ag-OG62 | Cu-OG62 | Au-ICP21 | Au-GRA21 |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | W ppm | Y ppm | Zn ppm | Zr ppm | Ag ppm | Cu % | Au ppm | Au ppm |
| | | 0.1 | 0.1 | 2 | 0.5 | 1 | 0.001 | 0.001 | 0.05 |
| D579941 | | 3.5 | 3.0 | 19 | 69.3 | | | 0.106 | |
| D579942 | | 6.0 | 6.3 | 27 | 85.1 | | | 0.149 | |
| D579943 | | 3.0 | 5.6 | 36 | 57.5 | | | 0.003 | |
| D579944 | | 3.9 | 5.0 | 40 | 74.8 | | | 0.001 | |
| D579945 | | 12.7 | 8.2 | 25 | 81.1 | | | 0.061 | |
| D579946 | | 3.0 | 10.9 | 42 | 78.3 | | | 0.008 | |
| D579947 | | 2.1 | 15.2 | 85 | 124.5 | | | 0.017 | |
| D579948 | | 9.1 | 9.2 | 20 | 80.8 | | | 0.014 | |
| D579949 | | 6.0 | 6.8 | 47 | 93.0 | | | 0.014 | |
| D579950 | | 0.6 | 16.5 | 27 | 55.3 | | | <0.001 | |
| D579951 | | 2.6 | 3.3 | 13 | 39.7 | | | 0.149 | |
| D579952 | | 5.9 | 9.7 | 32 | 84.9 | | | 0.003 | |
| D579953 | | 0.8 | 0.6 | 13 | 3.9 | | | <0.001 | |
| D579954 | | 0.9 | 28.1 | 120 | 126.5 | | | <0.001 | |
| D579955 | | 0.1 | 0.1 | <2 | 0.6 | | | 0.004 | |
| D579956 | | 7.8 | 6.7 | 39 | 98.8 | | | 0.052 | |
| D579957 | | 0.3 | 1.4 | 8 | 9.5 | | | 0.004 | |
| D579958 | | 1.0 | 7.1 | 42 | 60.8 | | | <0.001 | |
| D579959 | | 9.2 | 6.0 | 24 | 102.5 | | | 0.054 | |
| D579960 | | 2.5 | 7.4 | 51 | 85.2 | | | 0.004 | |
| D579961 | | 2.7 | 20.3 | 71 | 158.0 | | | 0.004 | |
| D579962 | | 1.2 | 7.5 | 53 | 82.9 | | | 0.001 | |
| D579963 | | 3.1 | 1.1 | 11 | 22.8 | | | 3.33 | |
| D579964 | | 4.7 | 6.0 | 35 | 85.5 | | | 0.013 | |
| D579965 | | 0.4 | 11.0 | 49 | 40.9 | | | <0.001 | |
| D579966 | | 0.4 | 12.4 | 71 | 38.5 | | | 0.004 | |
| D579967 | | 1.8 | 6.7 | 44 | 32.5 | | | 0.196 | |
| D579968 | | 2.6 | 3.9 | 46 | 12.8 | | | <0.001 | |
| D579969 | | 0.7 | 12.1 | 62 | 104.5 | | | 0.006 | |
| D579970 | | 7.1 | 23.5 | 76 | 143.0 | | | 0.008 | |
| D579971 | | 4.7 | 7.6 | 37 | 79.7 | | | <0.001 | |
| D579972 | | 2.3 | 5.4 | 25 | 44.7 | | | 0.221 | |
| D579973 | | 7.6 | 8.1 | 91 | 83.1 | | | <0.001 | |
| D579974 | | 6.0 | 5.7 | 38 | 85.7 | | | 0.025 | |
| D579975 | | 7.2 | 14.8 | 141 | 50.1 | | | 0.493 | |
| D579976 | | 2.2 | 9.0 | 42 | 75.3 | | | <0.001 | |
| D579977 | | 5.0 | 6.8 | 52 | 91.7 | | | 0.001 | |
| D579978 | | 0.4 | 2.1 | 13 | 8.7 | | | <0.001 | |
| D579979 | | 11.1 | 9.0 | 75 | 28.1 | | | 0.221 | |
| D579980 | | 7.1 | 11.7 | 105 | 46.7 | | | 0.258 | |

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



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

Page: 4 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 3-DEC-2021
 Account: BGCETTMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Recvd Wt. kg | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | Fe % |
| | | 0.02 | 0.01 | 0.01 | 0.2 | 10 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.1 | 1 | 0.05 | 0.2 | 0.01 |
| D579981 | | 1.11 | 0.26 | 8.55 | 7.4 | 250 | 0.81 | 0.12 | 6.29 | 0.05 | 34.0 | 54.0 | 135 | 0.37 | 464 | 9.25 |
| D579982 | | 0.98 | 0.04 | 0.12 | 0.4 | 690 | 0.07 | 0.01 | 0.05 | 0.02 | 0.82 | 1.0 | 21 | 0.40 | 5.1 | 0.39 |
| D579983 | | 2.20 | 0.47 | 3.24 | 0.2 | 1500 | 1.25 | 0.41 | 2.79 | 0.23 | 62.3 | 16.5 | 111 | 5.24 | 182.5 | 2.19 |
| D579984 | | 0.77 | 0.32 | 7.82 | 0.3 | 370 | 3.18 | 0.32 | 3.96 | 0.31 | 31.9 | 33.3 | 38 | 17.10 | 111.5 | 6.50 |
| D579985 | | 1.98 | 0.05 | 4.24 | <0.2 | 770 | 2.69 | 0.08 | 8.30 | 0.62 | 36.1 | 25.5 | 94 | 6.39 | 6.1 | 5.67 |
| D579986 | | 0.41 | 0.86 | 2.41 | 0.3 | 480 | 0.73 | 3.60 | 0.19 | 0.02 | 12.15 | 1.7 | 13 | 0.32 | 3.3 | 0.95 |
| D579987 | | 1.01 | 4.53 | 2.45 | <0.2 | 1080 | 0.43 | 7.95 | 0.83 | 0.04 | 8.66 | 3.9 | 29 | 0.51 | 2.6 | 0.81 |
| D579988 | | 0.96 | 0.22 | 6.99 | 1.1 | 830 | 1.26 | 0.21 | 1.00 | 0.07 | 50.5 | 9.1 | 26 | 1.51 | 1.2 | 1.75 |
| D579989 | | 1.80 | 0.04 | 6.96 | <0.2 | 280 | 1.69 | 0.04 | 4.03 | 0.14 | 40.0 | 37.9 | 68 | 4.80 | 77.2 | 6.92 |
| D579990 | | 1.00 | 0.04 | 7.42 | 0.4 | 780 | 2.68 | 0.15 | 7.42 | 0.06 | 102.0 | 22.7 | 76 | 3.87 | 46.7 | 4.92 |
| D579991 | | 1.96 | 0.01 | 0.27 | 0.3 | 20 | 0.08 | 0.03 | 0.11 | <0.02 | 6.95 | 0.4 | 25 | 0.17 | 2.0 | 0.25 |
| D579992 | | 0.98 | 0.16 | 6.89 | 0.5 | 730 | 1.39 | 0.31 | 1.29 | 0.04 | 38.8 | 4.5 | 26 | 0.74 | 6.8 | 1.80 |
| D579993 | | 1.08 | 0.01 | 4.24 | <0.2 | 510 | 0.88 | 0.02 | 0.68 | 0.03 | 26.8 | 2.6 | 21 | 0.42 | 2.4 | 0.94 |
| D579994 | | 1.30 | 0.24 | 4.79 | 0.4 | 300 | 1.87 | 0.14 | 0.56 | 0.03 | 30.8 | 2.0 | 26 | 0.72 | 14.8 | 0.77 |
| D579995 | | 1.61 | 0.05 | 4.57 | 0.6 | 160 | 0.72 | 0.12 | 1.03 | 0.06 | 6.44 | 4.0 | 42 | 1.53 | 2.7 | 0.87 |
| D579996 | | 2.48 | 0.06 | 7.45 | 1.8 | 600 | 2.12 | 0.02 | 5.68 | 0.13 | 56.5 | 27.7 | 232 | 8.15 | 40.5 | 4.67 |
| D579997 | | 2.54 | 0.29 | 2.80 | 0.7 | 950 | 0.58 | 0.05 | 0.33 | 0.05 | 19.00 | 3.3 | 25 | 0.56 | 2.3 | 0.82 |
| D579998 | | 2.47 | 1.59 | 3.62 | 1.0 | 280 | 0.45 | 0.14 | 7.63 | 0.49 | 11.70 | 35.9 | 59 | 0.19 | 8.0 | 6.17 |
| D579999 | | 1.80 | 0.08 | 7.31 | 1.1 | 630 | 1.25 | 0.10 | 2.21 | 0.04 | 51.6 | 25.0 | 189 | 3.17 | 79.8 | 3.94 |
| D580000 | | 0.04 | 0.02 | 6.80 | 1.8 | 830 | 1.01 | 0.03 | 6.80 | 0.02 | 23.9 | 3.7 | 24 | 0.36 | 23.8 | 2.43 |
| D904001 | | 1.75 | 0.02 | 7.29 | <0.2 | 640 | 2.07 | 0.04 | 2.42 | 0.10 | 78.4 | 18.5 | 92 | 5.27 | 11.2 | 3.94 |
| D904002 | | 1.48 | 0.26 | 1.49 | <0.2 | 90 | 0.31 | 0.96 | 0.08 | <0.02 | 2.47 | 1.9 | 26 | 0.29 | 9.2 | 0.78 |
| D904003 | | 1.33 | 0.65 | 5.08 | <0.2 | 250 | 0.98 | 0.88 | 0.43 | 0.03 | 21.4 | 5.4 | 25 | 0.78 | 10.7 | 1.63 |
| D904004 | | 1.52 | 0.65 | 2.20 | 0.6 | 100 | 0.33 | 54.9 | 0.26 | 0.02 | 7.66 | 3.6 | 25 | 0.27 | 2.9 | 1.15 |
| D904005 | | 2.50 | 13.90 | 1.00 | 0.8 | 270 | 0.13 | 31.6 | 0.58 | 96.1 | 8.43 | 6.3 | 45 | 0.10 | 199.5 | 0.76 |
| D904006 | | 3.09 | 0.07 | 7.39 | 0.8 | 120 | 0.62 | 0.20 | 7.13 | 0.18 | 31.1 | 39.5 | 119 | 0.17 | 102.0 | 8.22 |
| D904007 | | 3.65 | 6.34 | 0.96 | 0.3 | 140 | 0.20 | 1.37 | 0.78 | 0.19 | 9.45 | 23.7 | 54 | 0.13 | >10000 | 2.33 |
| D904008 | | 1.23 | 0.05 | 3.52 | 0.6 | 310 | 0.58 | 0.55 | 0.42 | 0.03 | 13.15 | 1.8 | 32 | 0.50 | 26.2 | 0.92 |
| D904009 | | 1.56 | 0.04 | 6.12 | 0.2 | 210 | 1.62 | 0.06 | 0.64 | 0.05 | 43.7 | 2.0 | 19 | 0.51 | 19.0 | 0.76 |
| D904010 | | 1.47 | 0.03 | 6.19 | 0.2 | 190 | 1.63 | 0.05 | 0.65 | 0.06 | 33.3 | 3.0 | 19 | 0.33 | 12.0 | 0.95 |
| D904011 | | 2.26 | 0.05 | 6.54 | 1.9 | 730 | 2.24 | 0.14 | 5.15 | 0.26 | 137.0 | 23.9 | 185 | 2.64 | 40.7 | 3.91 |
| D904012 | | 1.27 | 9.52 | 0.83 | 0.7 | 5780 | 0.15 | 24.4 | 0.81 | 0.49 | 14.65 | 3.2 | 25 | 0.32 | 108.5 | 0.77 |
| D904013 | | 1.16 | 0.32 | 0.21 | <0.2 | 640 | 0.21 | 1.24 | 0.38 | 0.03 | 23.2 | 1.1 | 29 | 0.22 | 17.4 | 0.35 |
| D904014 | | 0.61 | 0.12 | 0.07 | <0.2 | 30 | 1.93 | 0.24 | 0.36 | 0.02 | 56.9 | 1.0 | 24 | 0.10 | 14.4 | 0.51 |
| D904015 | | 0.93 | 3.29 | 7.26 | 0.9 | 390 | 10.30 | 6.51 | 3.45 | 0.06 | 134.5 | 13.4 | 53 | 0.80 | 99.6 | 3.46 |
| D904016 | | 1.39 | 0.17 | 7.24 | 0.6 | 1040 | 3.42 | 0.10 | 0.81 | 0.06 | 102.0 | 11.1 | 38 | 1.78 | 61.3 | 2.70 |
| D904017 | | 2.34 | 0.12 | 8.61 | 0.8 | 140 | 0.65 | 0.02 | 4.39 | 0.10 | 33.6 | 86.3 | 168 | 1.95 | 148.5 | 8.51 |
| D904018 | | 1.13 | 0.13 | 8.79 | 3.4 | 310 | 0.60 | 0.08 | 6.58 | 0.08 | 34.9 | 32.5 | 167 | 0.67 | 28.4 | 7.15 |
| D904019 | | 1.72 | 0.14 | 7.21 | 3.5 | 230 | 0.53 | 0.09 | 5.58 | 0.12 | 36.0 | 36.0 | 140 | 0.70 | 82.4 | 6.98 |
| D904020 | | 1.63 | 0.01 | 7.80 | 0.3 | 40 | 0.73 | 0.02 | 0.37 | 0.08 | 11.45 | 10.2 | 26 | 0.23 | 0.7 | 2.63 |

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



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Account: BGCETTMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Ga ppm | Ge ppm | Hf ppm | In ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm | P ppm | Pb ppm |
| D579981 | | 23.2 | 0.09 | 1.1 | 0.086 | 0.69 | 12.9 | 15.4 | 1.84 | 1830 | 6.99 | 1.49 | 10.6 | 161.0 | 1990 | 2.3 |
| D579982 | | 0.45 | 0.08 | <0.1 | <0.005 | 0.04 | <0.5 | 0.4 | 0.01 | 62 | 0.92 | 0.02 | 0.1 | 5.3 | 30 | 3.9 |
| D579983 | | 8.97 | 0.20 | 1.9 | 0.042 | 0.79 | 30.5 | 11.7 | 1.23 | 567 | 0.43 | 1.48 | 2.1 | 70.7 | 470 | 17.6 |
| D579984 | | 20.1 | 0.20 | 2.3 | 0.056 | 1.75 | 14.1 | 31.7 | 2.29 | 781 | 0.10 | 4.34 | 3.0 | 16.2 | 1300 | 13.9 |
| D579985 | | 18.75 | 0.18 | 1.8 | 0.057 | 0.95 | 17.1 | 47.1 | 3.46 | 1980 | 0.19 | 0.54 | 2.1 | 37.5 | 490 | 9.1 |
| D579986 | | 5.96 | 0.12 | 0.7 | <0.005 | 0.49 | 5.2 | 1.6 | 0.15 | 92 | 0.40 | 1.46 | 1.2 | 4.3 | 130 | 13.3 |
| D579987 | | 8.02 | 0.15 | 0.6 | 0.012 | 0.49 | 4.1 | 3.8 | 0.17 | 146 | 19.00 | 1.35 | 0.6 | 7.6 | 150 | 327 |
| D579988 | | 17.20 | 0.23 | 2.3 | 0.015 | 0.80 | 24.9 | 6.3 | 0.17 | 364 | 4.50 | 4.85 | 2.3 | 18.1 | 600 | 13.5 |
| D579989 | | 16.85 | 0.23 | 3.5 | 0.066 | 1.34 | 17.9 | 47.3 | 2.98 | 1240 | 0.21 | 2.14 | 2.9 | 19.3 | 1120 | 8.0 |
| D579990 | | 19.65 | 0.29 | 2.4 | 0.042 | 1.87 | 49.4 | 26.7 | 1.74 | 1020 | 0.56 | 3.96 | 12.7 | 56.9 | 1190 | 8.2 |
| D579991 | | 0.81 | 0.12 | 0.1 | <0.005 | 0.09 | 3.3 | 0.9 | 0.03 | 32 | 0.32 | 0.11 | 0.3 | 1.5 | 260 | 0.7 |
| D579992 | | 19.00 | 0.23 | 2.2 | 0.020 | 1.73 | 17.8 | 8.4 | 0.45 | 205 | 0.37 | 3.46 | 3.6 | 11.8 | 460 | 16.4 |
| D579993 | | 10.60 | 0.19 | 1.0 | 0.016 | 1.28 | 12.6 | 6.4 | 0.32 | 146 | 0.42 | 1.97 | 2.9 | 8.2 | 240 | 5.2 |
| D579994 | | 14.90 | 0.19 | 4.3 | 0.006 | 2.09 | 18.7 | 5.8 | 0.16 | 95 | 0.18 | 2.29 | 3.9 | 6.8 | 130 | 17.0 |
| D579995 | | 9.72 | 0.18 | 1.1 | 0.010 | 0.97 | 2.7 | 3.8 | 0.18 | 183 | 0.59 | 2.50 | 1.8 | 13.0 | 460 | 3.6 |
| D579996 | | 18.55 | 0.25 | 2.8 | 0.045 | 2.52 | 25.8 | 37.5 | 2.09 | 704 | 0.13 | 1.07 | 3.9 | 126.0 | 1030 | 10.2 |
| D579997 | | 7.95 | 0.19 | 0.9 | 0.007 | 0.59 | 8.0 | 4.3 | 0.13 | 117 | 7.85 | 1.49 | 1.2 | 9.1 | 190 | 16.8 |
| D579998 | | 7.94 | 0.18 | 0.5 | 0.030 | 0.24 | 4.3 | 3.6 | 1.86 | 1700 | 13.45 | 2.61 | 2.4 | 70.0 | 860 | 5.0 |
| D579999 | | 18.60 | 0.21 | 3.0 | 0.035 | 1.69 | 24.4 | 23.7 | 1.91 | 666 | 1.23 | 2.57 | 6.0 | 84.3 | 730 | 6.9 |
| D580000 | | 12.30 | 0.20 | 1.8 | 0.020 | 1.80 | 12.1 | 3.3 | 0.38 | 559 | 3.83 | 3.14 | 5.5 | 13.6 | 360 | 2.5 |
| D904001 | | 18.80 | 0.28 | 2.8 | 0.034 | 1.82 | 37.8 | 33.9 | 2.12 | 608 | 0.31 | 3.98 | 4.1 | 43.4 | 1300 | 12.4 |
| D904002 | | 4.27 | 0.14 | 0.4 | <0.005 | 0.23 | 1.3 | 3.6 | 0.10 | 47 | 0.53 | 0.83 | 0.8 | 4.6 | 90 | 1.9 |
| D904003 | | 14.40 | 0.18 | 1.4 | 0.015 | 0.75 | 9.4 | 13.1 | 0.36 | 147 | 0.20 | 3.00 | 2.2 | 14.7 | 310 | 5.1 |
| D904004 | | 5.56 | 0.14 | 0.6 | 0.006 | 0.26 | 3.6 | 3.0 | 0.08 | 43 | 0.73 | 1.42 | 0.7 | 7.2 | 150 | 3.8 |
| D904005 | | 3.05 | 0.12 | 0.2 | 0.050 | 0.07 | 3.8 | 1.1 | 0.07 | 106 | 65.4 | 0.69 | 0.3 | 16.4 | 70 | 4390 |
| D904006 | | 20.5 | 0.22 | 1.6 | 0.144 | 0.26 | 10.3 | 4.5 | 1.93 | 2180 | 0.91 | 2.12 | 8.5 | 82.9 | 1440 | 5.7 |
| D904007 | | 2.93 | 0.12 | 0.3 | 0.195 | 0.20 | 4.3 | 2.8 | 0.36 | 164 | 0.41 | 0.36 | 0.4 | 11.0 | 280 | 12.4 |
| D904008 | | 8.89 | 0.14 | 1.2 | 0.010 | 1.27 | 5.4 | 2.0 | 0.21 | 111 | 0.57 | 1.65 | 1.4 | 5.7 | 170 | 13.7 |
| D904009 | | 15.60 | 0.20 | 1.8 | 0.005 | 0.33 | 26.7 | 4.2 | 0.21 | 182 | 0.95 | 4.92 | 3.9 | 5.4 | 140 | 9.1 |
| D904010 | | 15.65 | 0.18 | 2.7 | 0.011 | 0.43 | 16.5 | 4.0 | 0.22 | 251 | 0.23 | 5.00 | 3.4 | 9.6 | 260 | 13.0 |
| D904011 | | 17.80 | 0.34 | 3.9 | 0.038 | 1.39 | 64.0 | 19.5 | 2.80 | 827 | 0.58 | 3.95 | 7.5 | 148.5 | 1890 | 9.7 |
| D904012 | | 1.96 | 0.15 | 0.1 | 0.008 | 0.09 | 5.8 | 2.3 | 0.20 | 252 | 1.07 | 0.53 | 0.5 | 6.4 | 150 | 1585 |
| D904013 | | 1.02 | 0.20 | 0.3 | <0.005 | 0.09 | 10.2 | 0.9 | 0.11 | 104 | 0.77 | 0.09 | 0.7 | 5.9 | 40 | 18.0 |
| D904014 | | 0.77 | 0.20 | 0.1 | 0.013 | 0.01 | 25.6 | 0.9 | 0.11 | 84 | 0.18 | 0.02 | 1.8 | 2.9 | 110 | 14.4 |
| D904015 | | 19.55 | 0.32 | 3.2 | 0.033 | 1.78 | 55.4 | 12.2 | 1.49 | 638 | 73.2 | 4.74 | 34.0 | 42.7 | 970 | 218 |
| D904016 | | 18.75 | 0.27 | 2.5 | 0.028 | 2.25 | 47.9 | 15.3 | 1.25 | 390 | 1.44 | 4.21 | 5.1 | 33.9 | 1040 | 10.3 |
| D904017 | | 21.1 | 0.27 | 3.2 | 0.069 | 0.59 | 12.5 | 14.6 | 2.13 | 1500 | 2.32 | 2.47 | 7.3 | 232 | 1390 | 2.5 |
| D904018 | | 22.4 | 0.14 | 1.9 | 0.079 | 0.82 | 11.6 | 10.7 | 1.48 | 1200 | 0.93 | 2.32 | 6.9 | 96.4 | 1530 | 7.8 |
| D904019 | | 17.70 | 0.13 | 2.2 | 0.074 | 0.61 | 12.2 | 9.3 | 1.02 | 1280 | 1.70 | 1.22 | 8.1 | 86.5 | 1330 | 4.7 |
| D904020 | | 20.1 | 0.09 | 2.9 | 0.024 | 0.09 | 4.6 | 24.2 | 2.84 | 431 | 0.20 | 6.57 | 4.4 | 22.2 | 1000 | 1.8 |



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 Total # Pages: 5 (A - D)
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 Account: BGCETMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm |
| | | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 1 | 0.2 | 0.2 | 0.05 | 0.05 | 0.01 | 0.005 | 0.02 | 0.1 | 1 |
| D579981 | | 35.9 | 0.006 | 2.65 | 0.13 | 33.0 | 3 | 1.5 | 297 | 0.57 | 0.53 | 0.27 | 1.400 | 0.20 | 0.1 | 298 |
| D579982 | | 2.3 | <0.002 | 0.06 | 0.52 | 0.4 | 1 | <0.2 | 22.7 | <0.05 | <0.05 | 0.06 | 0.008 | <0.02 | <0.1 | 3 |
| D579983 | | 48.0 | <0.002 | 0.30 | 0.20 | 8.0 | 1 | 0.5 | 471 | 0.11 | 0.86 | 3.73 | 0.166 | 0.22 | 1.2 | 46 |
| D579984 | | 75.7 | <0.002 | 2.26 | 0.15 | 19.6 | 1 | 1.0 | 533 | 0.20 | 0.38 | 1.50 | 0.403 | 0.51 | 0.4 | 176 |
| D579985 | | 44.5 | <0.002 | 0.16 | 0.12 | 19.4 | 1 | 1.1 | 729 | 0.13 | 0.08 | 2.38 | 0.258 | 0.21 | 0.4 | 163 |
| D579986 | | 11.6 | <0.002 | 0.12 | 0.09 | 0.8 | 1 | 0.2 | 225 | 0.07 | 0.68 | 1.14 | 0.040 | 0.05 | 0.2 | 10 |
| D579987 | | 16.6 | <0.002 | 0.24 | 0.13 | 1.9 | 1 | 0.3 | 108.5 | <0.05 | 2.35 | 1.00 | 0.031 | 0.07 | 0.3 | 22 |
| D579988 | | 39.1 | <0.002 | 0.80 | 0.15 | 3.0 | 1 | 0.4 | 308 | 0.15 | 0.22 | 7.06 | 0.087 | 0.13 | 1.0 | 24 |
| D579989 | | 64.9 | <0.002 | 0.02 | 0.32 | 26.1 | 1 | 1.0 | 418 | 0.24 | <0.05 | 2.04 | 0.305 | 0.27 | 0.7 | 190 |
| D579990 | | 65.2 | <0.002 | 0.09 | 0.15 | 17.4 | 1 | 0.9 | 619 | 0.27 | <0.05 | 5.87 | 0.515 | 0.26 | 2.3 | 179 |
| D579991 | | 3.1 | <0.002 | <0.01 | 0.07 | 0.2 | 1 | <0.2 | 19.2 | <0.05 | <0.05 | 0.38 | 0.023 | <0.02 | 0.1 | 2 |
| D579992 | | 39.2 | <0.002 | 0.10 | 0.09 | 2.9 | 1 | 0.6 | 688 | 0.25 | 0.24 | 3.23 | 0.137 | 0.15 | 0.6 | 30 |
| D579993 | | 27.8 | <0.002 | <0.01 | 0.09 | 1.7 | 1 | 0.5 | 395 | 0.16 | <0.05 | 1.77 | 0.082 | 0.09 | 0.4 | 17 |
| D579994 | | 55.9 | <0.002 | 0.04 | 0.10 | 1.1 | 1 | 0.3 | 237 | 0.65 | 0.16 | 11.85 | 0.052 | 0.19 | 4.0 | 12 |
| D579995 | | 32.8 | <0.002 | 0.09 | 0.10 | 2.3 | 1 | 0.3 | 106.5 | 0.12 | 0.20 | 1.77 | 0.074 | 0.12 | 0.4 | 24 |
| D579996 | | 90.4 | <0.002 | 0.09 | 0.12 | 18.5 | 1 | 0.8 | 263 | 0.24 | 0.09 | 3.19 | 0.349 | 0.32 | 1.0 | 141 |
| D579997 | | 18.6 | <0.002 | 0.16 | 0.12 | 1.5 | 1 | 0.3 | 160.5 | 0.09 | 0.31 | 1.35 | 0.054 | 0.06 | 0.2 | 22 |
| D579998 | | 7.4 | <0.002 | 3.04 | 0.19 | 14.8 | 1 | 0.3 | 455 | 0.11 | 2.08 | 0.31 | 0.254 | 0.05 | 0.4 | 61 |
| D579999 | | 62.3 | <0.002 | 0.46 | 0.11 | 13.7 | 1 | 0.8 | 459 | 0.45 | 0.14 | 5.09 | 0.319 | 0.53 | 1.5 | 97 |
| D580000 | | 41.3 | <0.002 | 0.01 | 0.30 | 5.3 | 1 | 1.6 | 188.0 | 0.39 | <0.05 | 2.55 | 0.170 | 0.16 | 1.1 | 29 |
| D904001 | | 72.5 | <0.002 | 0.08 | 0.07 | 12.3 | 1 | 0.9 | 658 | 0.25 | <0.05 | 6.71 | 0.289 | 0.30 | 1.5 | 108 |
| D904002 | | 9.1 | <0.002 | 0.13 | 0.08 | 0.9 | 1 | 0.2 | 39.0 | 0.05 | 0.76 | 0.56 | 0.028 | 0.04 | 0.1 | 11 |
| D904003 | | 31.2 | <0.002 | 0.32 | 0.09 | 2.5 | 1 | 0.5 | 129.0 | 0.14 | 1.09 | 2.37 | 0.086 | 0.12 | 0.3 | 41 |
| D904004 | | 8.8 | <0.002 | 0.45 | 0.09 | 0.8 | 1 | 0.2 | 67.2 | 0.05 | 34.1 | 0.73 | 0.032 | 0.03 | 0.1 | 11 |
| D904005 | | 2.3 | <0.002 | 0.63 | 0.17 | 0.7 | 2 | <0.2 | 52.7 | <0.05 | 11.30 | 0.50 | 0.014 | 0.03 | 0.2 | 3 |
| D904006 | | 7.2 | 0.002 | 0.80 | 0.26 | 31.0 | 2 | 1.4 | 224 | 0.47 | 0.36 | 0.45 | 1.130 | 0.09 | 0.1 | 255 |
| D904007 | | 5.8 | <0.002 | 1.42 | 0.05 | 2.1 | 1 | 0.2 | 86.9 | <0.05 | 1.53 | 0.48 | 0.050 | 0.03 | 0.1 | 21 |
| D904008 | | 32.8 | <0.002 | 0.04 | 0.07 | 1.2 | 1 | 0.3 | 244 | 0.09 | 0.32 | 2.69 | 0.054 | 0.13 | 0.5 | 13 |
| D904009 | | 10.1 | <0.002 | 0.05 | 0.09 | 1.2 | 1 | 0.2 | 456 | 0.29 | <0.05 | 11.80 | 0.056 | 0.05 | 1.7 | 16 |
| D904010 | | 10.7 | <0.002 | 0.02 | 0.11 | 1.7 | 1 | 0.4 | 375 | 0.27 | <0.05 | 14.35 | 0.069 | 0.05 | 1.8 | 22 |
| D904011 | | 55.4 | <0.002 | 0.23 | 0.16 | 11.2 | 1 | 1.0 | 877 | 0.32 | <0.05 | 8.81 | 0.385 | 0.32 | 1.8 | 93 |
| D904012 | | 4.3 | <0.002 | 0.28 | 0.08 | 2.2 | 3 | <0.2 | 282 | <0.05 | 4.58 | 0.64 | 0.034 | 0.04 | 0.1 | 8 |
| D904013 | | 3.8 | <0.002 | 0.02 | 0.06 | 0.8 | 1 | <0.2 | 105.0 | <0.05 | 0.07 | 6.15 | 0.014 | 0.03 | 0.5 | 6 |
| D904014 | | 0.4 | <0.002 | 0.01 | 0.05 | 0.9 | 1 | <0.2 | 23.0 | <0.05 | <0.05 | 17.10 | 0.010 | <0.02 | 0.5 | 8 |
| D904015 | | 43.7 | 0.006 | 0.03 | 0.08 | 12.0 | 2 | 1.0 | 470 | 0.35 | 0.25 | 24.4 | 0.392 | 0.26 | 1.7 | 101 |
| D904016 | | 65.9 | <0.002 | 0.07 | 0.09 | 6.4 | 1 | 0.6 | 589 | 0.22 | <0.05 | 31.8 | 0.216 | 0.34 | 2.1 | 69 |
| D904017 | | 25.4 | 0.004 | 1.18 | 0.05 | 33.4 | 1 | 0.5 | 295 | 0.41 | 0.20 | 0.84 | 1.030 | 0.22 | 0.5 | 274 |
| D904018 | | 17.9 | 0.002 | 0.73 | 0.11 | 34.4 | 1 | 1.0 | 535 | 0.36 | 0.05 | 0.90 | 1.095 | 0.17 | 0.5 | 305 |
| D904019 | | 20.2 | 0.002 | 2.05 | 0.25 | 26.9 | 1 | 1.0 | 299 | 0.44 | 0.10 | 0.75 | 1.045 | 0.34 | 0.3 | 220 |
| D904020 | | 0.9 | 0.002 | 0.01 | <0.05 | 5.5 | <1 | 0.8 | 115.0 | 0.30 | <0.05 | 2.50 | 0.176 | 0.02 | 0.8 | 35 |



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 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Plus Appendix Pages
 Finalized Date: 3-DEC-2021
 Account: BGCEITMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | Ag-OG62 | Cu-OG62 | Au-ICP21 | Au-GRA21 |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | W ppm | Y ppm | Zn ppm | Zr ppm | Ag ppm | Cu % | Au ppm | Au ppm |
| | | 0.1 | 0.1 | 2 | 0.5 | 1 | 0.001 | 0.001 | 0.05 |
| D579981 | | 2.3 | 32.8 | 71 | 37.7 | | | 0.004 | |
| D579982 | | 0.7 | 0.3 | 7 | 1.5 | | | <0.001 | |
| D579983 | | 14.2 | 7.6 | 60 | 81.8 | | | 0.012 | |
| D579984 | | 17.1 | 12.8 | 110 | 90.1 | | | 0.066 | |
| D579985 | | 8.0 | 14.2 | 131 | 66.0 | | | <0.001 | |
| D579986 | | 2.6 | 1.8 | 12 | 25.6 | | | <0.001 | |
| D579987 | | 2.0 | 2.0 | 10 | 21.4 | | | 0.438 | |
| D579988 | | 4.4 | 6.9 | 23 | 89.6 | | | 0.109 | |
| D579989 | | 0.8 | 17.1 | 131 | 133.0 | | | 0.002 | |
| D579990 | | 3.6 | 25.6 | 90 | 101.0 | | | 0.005 | |
| D579991 | | 0.2 | 0.7 | 3 | 3.3 | | | <0.001 | |
| D579992 | | 0.9 | 7.3 | 32 | 79.8 | | | 0.001 | |
| D579993 | | 0.3 | 4.2 | 20 | 40.8 | | | <0.001 | |
| D579994 | | 1.1 | 3.4 | 15 | 59.7 | | | 0.043 | |
| D579995 | | 2.1 | 3.6 | 17 | 46.0 | | | 0.026 | |
| D579996 | | 4.7 | 14.6 | 67 | 115.0 | | | 0.011 | |
| D579997 | | 3.4 | 2.1 | 22 | 34.5 | | | 0.240 | |
| D579998 | | 8.7 | 5.2 | 62 | 16.9 | | | 0.682 | |
| D579999 | | 0.8 | 12.2 | 92 | 111.5 | | | 0.001 | |
| D580000 | | 0.6 | 14.7 | 27 | 58.1 | | | <0.001 | |
| D904001 | | 2.0 | 12.0 | 72 | 105.5 | | | 0.002 | |
| D904002 | | 0.8 | 1.2 | 7 | 15.4 | | | 0.076 | |
| D904003 | | 2.4 | 3.9 | 22 | 52.0 | | | 0.164 | |
| D904004 | | 1.5 | 1.7 | 6 | 24.7 | | | 0.128 | |
| D904005 | | 2.0 | 1.0 | 3750 | 8.7 | | | 7.78 | |
| D904006 | | 1.1 | 30.2 | 92 | 54.3 | | | <0.001 | |
| D904007 | | 0.9 | 1.8 | 25 | 9.2 | | 1.010 | 0.053 | |
| D904008 | | 1.5 | 2.5 | 15 | 34.7 | | | 0.007 | |
| D904009 | | 1.3 | 5.4 | 11 | 49.9 | | | <0.001 | |
| D904010 | | 2.3 | 6.2 | 13 | 78.1 | | | <0.001 | |
| D904011 | | 4.7 | 20.2 | 86 | 168.5 | | | 0.002 | |
| D904012 | | 2.2 | 2.1 | 10 | 4.5 | | | 0.127 | |
| D904013 | | 0.4 | 2.2 | 6 | 15.8 | | | 0.002 | |
| D904014 | | 0.2 | 11.2 | 5 | 11.6 | | | 0.001 | |
| D904015 | | 5.4 | 54.7 | 54 | 157.0 | | | 0.004 | |
| D904016 | | 1.7 | 17.1 | 53 | 95.4 | | | 0.013 | |
| D904017 | | 0.3 | 24.7 | 187 | 138.5 | | | <0.001 | |
| D904018 | | 0.6 | 25.3 | 105 | 58.8 | | | 0.001 | |
| D904019 | | 0.6 | 23.3 | 106 | 73.6 | | | 0.001 | |
| D904020 | | 0.6 | 12.2 | 65 | 111.0 | | | <0.001 | |

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



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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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 Finalized Date: 3-DEC-2021
 Account: BGCETTMQ

Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | WEI-21 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|--------------------|--------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | Recvd Wt. kg | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Ce ppm | Co ppm | Cr ppm | Cs ppm | Cu ppm | Fe % |
| | | 0.02 | 0.01 | 0.01 | 0.2 | 10 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.1 | 1 | 0.05 | 0.2 | 0.01 |
| D904021 | | 2.09 | 0.01 | 0.69 | 0.3 | 180 | 0.14 | 0.02 | 0.63 | 0.03 | 4.74 | 0.8 | 34 | 0.32 | 1.2 | 0.47 |
| D904022 | | 2.28 | 0.12 | 8.18 | 1.2 | 570 | 1.08 | 0.78 | 2.19 | 0.12 | 50.8 | 16.1 | 31 | 2.08 | 2.7 | 2.26 |
| D904023 | | 1.92 | 0.26 | 5.62 | 1.4 | 340 | 1.19 | 0.97 | 4.91 | 0.10 | 9.13 | 10.2 | 38 | 1.71 | 4.5 | 1.66 |
| D904024 | | 1.50 | 0.09 | 1.94 | 0.5 | 260 | 0.35 | 0.79 | 0.33 | 0.04 | 11.10 | 9.1 | 22 | 0.57 | 1.9 | 1.60 |
| D904025 | | 0.85 | >100 | 3.17 | 2.5 | 110 | 0.48 | 122.5 | 1.03 | 4.22 | 20.9 | 55.3 | 20 | 0.44 | 4210 | 9.05 |
| D904026 | | 1.30 | 0.51 | 6.66 | 1.1 | 1040 | 1.28 | 0.65 | 4.18 | 0.07 | 73.1 | 23.7 | 87 | 0.51 | 26.9 | 4.90 |
| D904027 | | 1.70 | 0.37 | 7.21 | 1.1 | 370 | 1.08 | 0.51 | 3.63 | 0.12 | 29.0 | 26.5 | 67 | 9.09 | 63.8 | 5.37 |
| D904028 | | 2.47 | 0.63 | 6.04 | 1.6 | 1260 | 2.09 | 3.99 | 7.02 | 0.39 | 105.0 | 15.7 | 89 | 1.04 | 13.4 | 3.53 |
| D904029 | | 2.42 | 0.40 | 4.71 | 0.3 | 230 | 2.01 | 2.94 | 0.31 | 0.03 | 26.8 | 7.9 | 38 | 0.46 | 6.9 | 2.21 |
| D904030 | | 2.04 | 0.05 | 4.99 | 1.4 | 120 | 0.24 | 0.05 | 4.75 | 0.05 | 16.60 | 24.9 | 118 | 0.13 | 39.5 | 3.45 |
| D904031 | | 0.04 | 0.50 | 7.59 | 17.9 | 1300 | 0.79 | 0.20 | 4.80 | 0.68 | 15.10 | 15.1 | 30 | 1.79 | 775 | 4.61 |
| D904032 | | 1.87 | 0.14 | 8.76 | 0.9 | 220 | 0.58 | 0.13 | 5.51 | 0.10 | 39.1 | 53.8 | 178 | 1.12 | 134.0 | 7.54 |
| D904033 | | 1.42 | 0.05 | 7.39 | 1.1 | 850 | 1.24 | 0.06 | 1.85 | 0.03 | 47.0 | 6.0 | 28 | 1.17 | 2.5 | 1.73 |
| D904034 | | 1.80 | 1.19 | 7.14 | 0.8 | 1030 | 2.14 | 0.30 | 3.19 | 0.17 | 91.0 | 25.5 | 109 | 6.41 | 1480 | 4.88 |
| D904035 | | 1.47 | 0.12 | 6.84 | 1.7 | 1040 | 1.98 | 0.05 | 6.02 | 0.16 | 191.5 | 46.0 | 24 | 2.52 | 233 | 11.50 |
| D904036 | | 1.71 | 0.05 | 7.53 | 0.9 | 850 | 1.65 | 0.15 | 1.41 | 0.05 | 49.8 | 5.2 | 28 | 3.73 | 3.9 | 1.62 |

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To: BAYSIDE GEOSCIENCE
 124 SHERWOOD DRIVE
 THUNDER BAY ON P7B 6L1

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Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| | | Ga ppm | Ge ppm | Hf ppm | In ppm | K % | La ppm | Li ppm | Mg % | Mn ppm | Mo ppm | Na % | Nb ppm | Ni ppm | P ppm | Pb ppm |
| | | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.2 | 0.01 | 5 | 0.05 | 0.01 | 0.1 | 0.2 | 10 | 0.5 |
| D904021 | | 2.31 | 0.07 | 0.2 | <0.005 | 0.23 | 2.1 | 2.1 | 0.08 | 142 | 0.64 | 0.18 | 0.3 | 3.8 | 50 | 1.6 |
| D904022 | | 20.6 | 0.16 | 2.6 | 0.018 | 1.40 | 22.7 | 12.4 | 0.30 | 264 | 2.30 | 5.25 | 4.8 | 21.4 | 580 | 6.9 |
| D904023 | | 14.90 | 0.12 | 1.7 | 0.020 | 1.61 | 3.7 | 4.5 | 0.67 | 551 | 1.42 | 3.97 | 3.3 | 25.5 | 730 | 10.5 |
| D904024 | | 5.56 | 0.10 | 0.6 | 0.011 | 0.55 | 5.3 | 2.9 | 0.13 | 107 | 0.55 | 0.76 | 0.8 | 8.6 | 130 | 7.4 |
| D904025 | | 8.85 | 0.10 | 1.1 | 0.682 | 0.68 | 8.7 | 6.0 | 0.20 | 153 | 4.91 | 1.71 | 1.0 | 131.5 | 230 | 3650 |
| D904026 | | 17.65 | 0.16 | 1.9 | 0.052 | 1.19 | 32.8 | 7.2 | 2.34 | 818 | 0.66 | 3.22 | 3.8 | 45.5 | 1580 | 24.2 |
| D904027 | | 17.55 | 0.12 | 2.4 | 0.055 | 1.74 | 11.9 | 20.0 | 2.13 | 924 | 0.82 | 3.75 | 5.9 | 65.8 | 940 | 17.3 |
| D904028 | | 15.90 | 0.21 | 2.7 | 0.036 | 1.30 | 48.7 | 4.4 | 2.41 | 1000 | 10.20 | 4.22 | 4.6 | 47.0 | 1270 | 44.5 |
| D904029 | | 12.40 | 0.09 | 1.6 | 0.013 | 0.88 | 6.9 | 6.4 | 0.75 | 188 | 0.96 | 3.02 | 2.5 | 20.6 | 580 | 9.1 |
| D904030 | | 11.00 | 0.07 | 1.3 | 0.037 | 0.30 | 6.1 | 3.1 | 0.57 | 827 | 1.52 | 1.56 | 2.9 | 76.0 | 760 | 3.2 |
| D904031 | | 16.10 | 0.09 | 1.6 | 0.105 | 1.61 | 6.8 | 15.9 | 1.69 | 889 | 14.90 | 2.68 | 2.8 | 16.7 | 910 | 24.6 |
| D904032 | | 22.0 | 0.12 | 2.8 | 0.090 | 0.51 | 12.8 | 6.7 | 1.55 | 1620 | 0.75 | 3.17 | 7.7 | 160.0 | 1590 | 3.4 |
| D904033 | | 20.7 | 0.15 | 2.5 | 0.022 | 2.25 | 20.7 | 13.9 | 0.64 | 329 | 0.42 | 3.72 | 4.0 | 17.4 | 510 | 12.2 |
| D904034 | | 19.15 | 0.19 | 2.6 | 0.066 | 2.23 | 43.4 | 33.7 | 2.53 | 707 | 3.78 | 3.69 | 4.3 | 74.3 | 1650 | 16.5 |
| D904035 | | 20.4 | 0.28 | 5.8 | 0.090 | 1.57 | 92.5 | 12.4 | 2.39 | 1860 | 2.50 | 2.33 | 84.3 | 33.9 | 4390 | 8.0 |
| D904036 | | 20.5 | 0.13 | 2.5 | 0.025 | 1.83 | 23.6 | 12.5 | 0.42 | 305 | 0.21 | 3.96 | 3.8 | 16.4 | 490 | 14.0 |

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CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| | | Rb ppm | Re ppm | S % | Sb ppm | Sc ppm | Se ppm | Sn ppm | Sr ppm | Ta ppm | Te ppm | Th ppm | Ti % | Tl ppm | U ppm | V ppm |
| | | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 1 | 0.2 | 0.2 | 0.05 | 0.05 | 0.01 | 0.005 | 0.02 | 0.1 | 1 |
| D904021 | | 6.0 | <0.002 | 0.02 | <0.05 | 0.8 | <1 | 0.2 | 80.5 | <0.05 | <0.05 | 0.32 | 0.018 | 0.03 | 0.1 | 8 |
| D904022 | | 44.4 | 0.002 | 1.31 | 0.13 | 4.2 | 1 | 0.7 | 529 | 0.22 | 0.60 | 3.59 | 0.147 | 0.21 | 0.6 | 42 |
| D904023 | | 36.5 | <0.002 | 0.31 | 0.10 | 4.2 | 1 | 0.5 | 198.5 | 0.15 | 1.30 | 1.45 | 0.123 | 0.21 | 1.2 | 41 |
| D904024 | | 15.4 | 0.003 | 0.88 | 0.06 | 1.2 | 1 | 0.3 | 107.0 | <0.05 | 0.57 | 0.93 | 0.034 | 0.07 | 0.2 | 13 |
| D904025 | | 18.7 | <0.002 | 8.97 | 0.14 | 2.0 | 3 | 0.5 | 9190 | 0.06 | 41.8 | 1.67 | 0.045 | 0.11 | 0.6 | 18 |
| D904026 | | 28.4 | <0.002 | 0.03 | 0.07 | 17.4 | 1 | 1.0 | 1190 | 0.21 | 0.25 | 3.98 | 0.370 | 0.11 | 1.2 | 137 |
| D904027 | | 66.9 | <0.002 | 0.24 | 0.06 | 18.1 | 1 | 0.9 | 355 | 0.40 | 0.17 | 2.65 | 0.649 | 0.35 | 0.9 | 151 |
| D904028 | | 34.5 | 0.004 | 1.34 | 0.10 | 11.4 | 1 | 0.6 | 455 | 0.15 | 0.23 | 20.7 | 0.221 | 0.22 | 4.8 | 79 |
| D904029 | | 21.8 | 0.002 | 0.59 | 0.05 | 3.4 | 1 | 0.4 | 134.0 | 0.12 | 0.37 | 4.09 | 0.116 | 0.10 | 0.8 | 36 |
| D904030 | | 8.3 | 0.002 | 0.58 | 0.08 | 14.1 | 1 | 0.5 | 162.5 | 0.13 | 0.05 | 0.40 | 0.539 | 0.09 | 0.2 | 143 |
| D904031 | | 33.6 | 0.036 | 0.60 | 2.54 | 13.2 | 1 | 1.6 | 470 | 0.17 | 0.19 | 2.04 | 0.310 | 0.29 | 1.2 | 147 |
| D904032 | | 14.4 | <0.002 | 1.23 | <0.05 | 35.8 | 1 | 0.9 | 317 | 0.38 | 0.10 | 0.81 | 1.110 | 0.14 | 0.4 | 286 |
| D904033 | | 60.8 | 0.002 | 0.01 | 0.11 | 3.8 | 1 | 0.7 | 769 | 0.28 | <0.05 | 3.43 | 0.161 | 0.28 | 0.6 | 34 |
| D904034 | | 73.8 | <0.002 | 0.16 | 0.11 | 14.6 | 1 | 1.0 | 1130 | 0.19 | 0.10 | 5.29 | 0.363 | 0.43 | 1.0 | 137 |
| D904035 | | 59.9 | 0.002 | 0.02 | 0.08 | 27.6 | 1 | 1.9 | 641 | 3.46 | <0.05 | 10.20 | 1.050 | 0.25 | 2.8 | 320 |
| D904036 | | 64.3 | 0.002 | 0.08 | 0.15 | 3.7 | 1 | 0.7 | 534 | 0.26 | 0.08 | 4.77 | 0.149 | 0.36 | 0.9 | 36 |



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Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

| Sample Description | Method Analyte Units LOD | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | Ag-OG62 | Cu-OG62 | Au-ICP21 | Au-GRA21 |
|--------------------|--------------------------|---------|---------|---------|---------|---------|---------|----------|----------|
| | | W ppm | Y ppm | Zn ppm | Zr ppm | Ag ppm | Cu % | Au ppm | Au ppm |
| | | 0.1 | 0.1 | 2 | 0.5 | 1 | 0.001 | 0.001 | 0.05 |
| D904021 | | 0.6 | 1.2 | 6 | 7.9 | | | <0.001 | |
| D904022 | | 3.6 | 5.6 | 36 | 94.9 | | | 0.027 | |
| D904023 | | 3.0 | 8.6 | 31 | 70.0 | | | 0.192 | |
| D904024 | | 1.5 | 2.1 | 9 | 20.2 | | | 0.009 | |
| D904025 | | 2.6 | 3.5 | 271 | 40.9 | 114 | | >10.0 | 23.3 |
| D904026 | | 0.2 | 14.5 | 71 | 59.1 | | | 0.057 | |
| D904027 | | 5.1 | 17.9 | 93 | 94.5 | | | 0.034 | |
| D904028 | | 8.7 | 31.3 | 85 | 106.5 | | | 0.003 | |
| D904029 | | 2.2 | 12.2 | 24 | 56.9 | | | 0.006 | |
| D904030 | | 0.6 | 11.2 | 57 | 48.4 | | | <0.001 | |
| D904031 | | 7.7 | 13.0 | 148 | 49.8 | | | 0.464 | |
| D904032 | | 0.6 | 27.5 | 117 | 97.8 | | | 0.001 | |
| D904033 | | 0.1 | 9.3 | 50 | 85.6 | | | <0.001 | |
| D904034 | | 1.5 | 13.9 | 79 | 96.7 | | | 0.562 | |
| D904035 | | 0.9 | 41.6 | 157 | 256 | | | 0.008 | |
| D904036 | | 3.9 | 7.6 | 44 | 80.4 | | | 0.004 | |

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Project: Jackfish-Kellyn

CERTIFICATE OF ANALYSIS TB21288637

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

| | | | | |
|--------------------|--|----------|----------|---------|
| Applies to Method: | Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada | | | |
| | CRU-31 | CRU-QC | LOG-21 | LOG-23 |
| | PUL-31 | PUL-QC | SPL-21 | WEI-21 |
| Applies to Method: | Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. | | | |
| | Ag-OG62 | Au-GRA21 | Au-ICP21 | Cu-OG62 |
| | ME-MS61 | ME-OG62 | | |