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# ASSESSMENT REPORT



December 6, 2022

## Gathering Lake Project – 2022 Prospecting Program

**Prepared for:**

**Green Technology Metals**

338 Red River Road

Thunder Bay, ON

South Beaty Lake Area, Parks Lake Area,  
Gathering Lake Area

NTS Sheet# 42E11D, 42E06L, 42E05I

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# Assessment Report

Gathering Lake Project - 2022 Mapping and Prospecting Program

## SUMMARY

Between June 6th and June 20th, 2022, a surface mapping and prospecting program was completed on the Gathering Lake Project, which is currently under option to Green Technology Metals Inc. from Solstice Gold Corp. The property is located within the Thunder Bay Mining District, approximately 175 kilometers northeast of Thunder Bay and 43 kilometers southwest of Geraldton, Ontario. Bayside Geoscience, based out of Thunder Bay, Ontario completed the mapping and prospecting program one geologist, one geological technician, and two summer geology students. The individuals mobilized to site daily via road and water from Gathering Lake Outfitters along bush roads including Camp 51 Road and Main Road 5, as well as by boat on Gathering Lake.

The goal of the program was to prospect and map the Gathering Lake Property in order to identify additional Lithium-bearing pegmatites and if present, to define their extents.

A total of 229 outcrop stations were recorded and 87 grab samples collected and submitted for geochemical analysis throughout the program.

## INTRODUCTION

Between June 6th and June 20th, 2022, Green Technology Metals initiated a mapping and prospecting program on the Gathering Lake Project which is currently 100% owned by Solstice Gold Corp. and located in the Thunder Bay Mining Division, Ontario, Canada. Green Technology Metals contracted Bayside Geoscience out of Thunder Bay, Ontario to complete the field program. Personnel included Bailey Drover (Field Geologist), Daniel Barrett (Geological Technician), Ashley Levins and Nathaniel Oudyk (Geology Summer Students).

The coordinate system throughout this report is UTM NAD 83 Zone 16N.

## LOCATION AND ACCESS

The Gathering Lake Property is located in the Thunder Bay Mining Division in northwestern Ontario approximately 175 northeast of Thunder Bay and 43 southwest of Geraldton (Figure 1). The property is accessible by road indirectly off of Highway 11 and continuing east for approximately 60 kilometers along Camp 51 Road and Main Road 5, as well as Gathering Lake to access all reaches of the property.

During the 2022 field program, the team spent approximately 13 days between the period of Jun 6<sup>th</sup> and June 20<sup>th</sup>. A daily commute was completed from Gathering Lake Outfitters via truck along the surrounding logging roads and by boat, south along Gathering Lake to access the property.

## PROPERTY OWNERSHIP AND CLAIMS

The Gathering Lake Property is located in the Thunder Bay Mining District and comprises 15 multi-cell claim blocks, totaling 3,968 Ha. All the claims are under option to Green Technology Metals, with the current holders summarized in Appendix A. Claim Locations are shown in Figure 2.



Figure 1: Gathering Lake Property location.

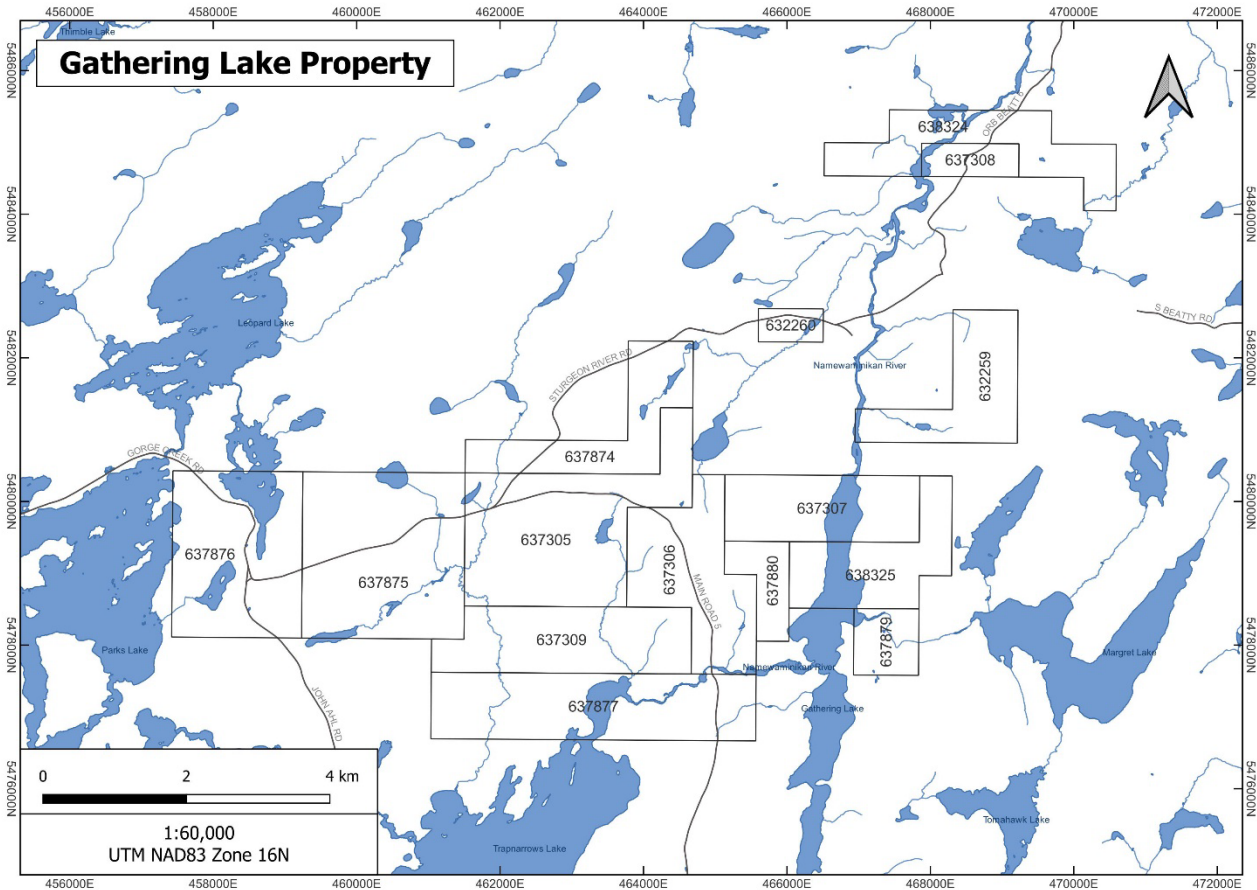


Figure 2: Gathering Lake Property claim map.

## EXPLORATION HISTORY

There are no assessment reports available through the MNM directly within the blocks, although a few are available between the small northern blocks. These assessment reports are summarized in Table 1.

Table 1. Previous work history in Gathering Lake Property area.

Year	Company	Title	Assessment Report Number
1955	Standard Lithium Corp.	Report on the results of Diamond Drilling, Nelson Option, Gathering Lake, Ontario	42E06NW0002
1957	Derson Mines Ltd.	Diamond Drill Report in the Gathering Lake area	42E06NW0003
2019	Work performed for Kenneth Fenwick	Technical Report on the Gathering Lake Lithium Pegmatite Property	20000017160

The work performed for Kenneth Fenwick (2019) highlights the presence of spodumene-bearing pegmatites within the region of the Gathering Lake pegmatite group which was not noted in the study conducted by Breaks et al (2008). Table 2 is taken from Fenwick (2019) and shows samples, locations, and their corresponding Li (%) and Li<sub>2</sub>O (%) assay results. Figure 3 shows a map of the samples and assays from Fenwick (2019).

Table 2. Table taken from Fenwick (2019) showing samples and associated Li (%) results from the Gathering Lake Lithium pegmatite deposit.

Showing	Sample ID	Li (%)	Li <sub>2</sub> O (%)	Easting	Northing	Structural Evidence	Description
Koshman	294410	0.17	0.36	465967	5481537	not enough outcrop, X-trench at 130°, possibly parallel to strike	8% pale green spod, in coarse grained feldspar pegmatite, <1% med. Gr. apatite,
	294411	1.34	2.88	466025	5481487	N-S strike, vertical dip, ~2m wide	25% cr. Gr. Spod, pale green, in albite pegmatite, tr black oxide minerals, possibly Fe-tant, 3-4% muscovite
	294412	1.1	2.37	465977	5481551	rubble from old trench	20% spodumene, 2-6cm crystals, 5% muscovite, minor apatite fine grained, minor black oxides Fe-tant?
	294413	1.12	2.4	465978	5481537	rubble from old trench	20% spodumene, 4-8cm crystals, some portions of the dyke are lacking spodumene and dominated by coarse albite crystals, no presence of apatite in this sample
Nelson	294414	1.49	3.22	467628	5482170	Dyke is almost flat lying in larger non-spod pegmatite dyke/sill. NE strike, dipping shallow 10-15° SE	High graded chips of very coarse grained pegmatite lense/dyke on side of cliff. ~1.5m wide spod pegmatite in 100m wide pegmatite sill or dyke, depending on structure of pegmatite, 2-4cm long spod crystals, pale green, very hard to chip sample. 2-3% green muscovite, tr apatite, tr oxide minerals, possibly represents a large zoned pegmatite or spodumene dyke subsequent intrusion into larger peg dyke which is visible on Sat photo.

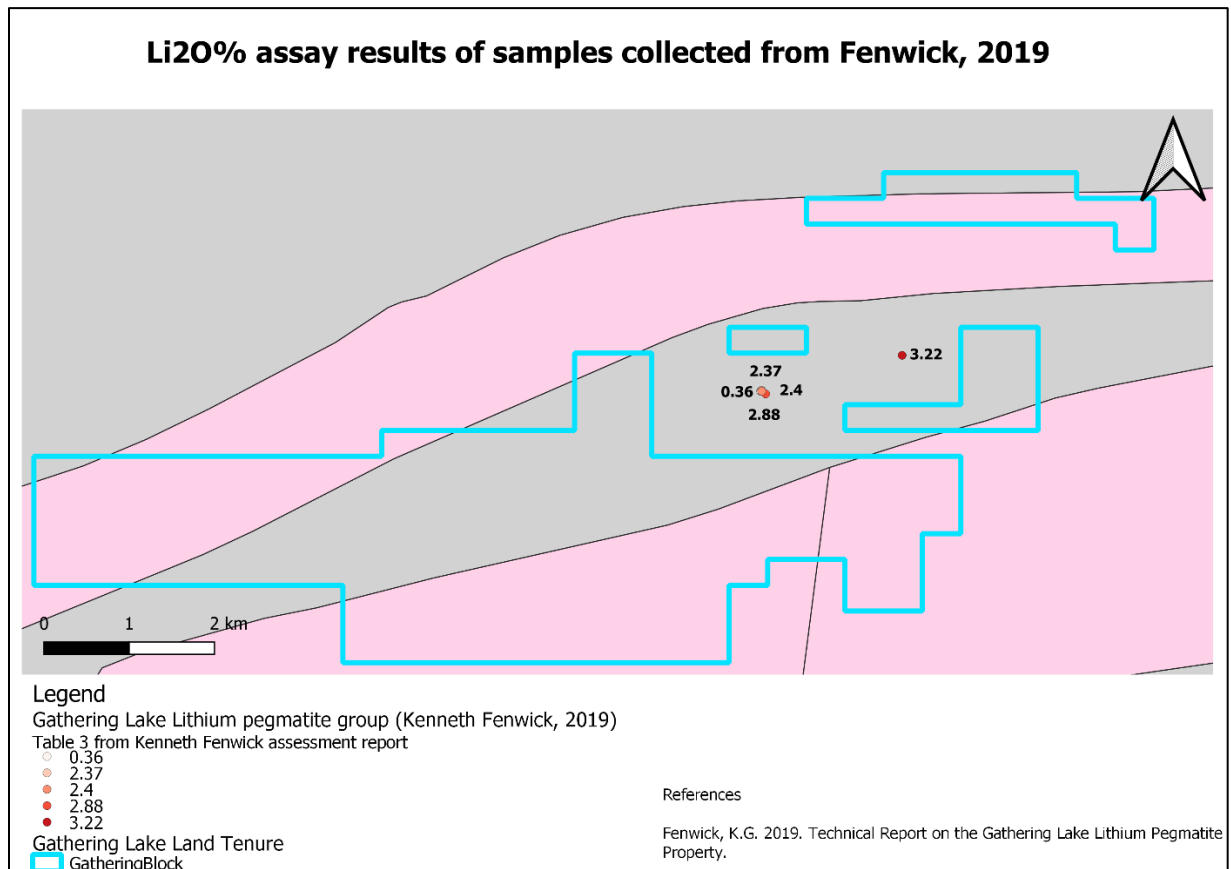


Figure 3: Fenwick (2019) sample locations and their corresponding Li<sub>2</sub>O (%) values.

## REGIONAL GEOLOGY

The Gathering Lake pegmatite group (GLPG) consists of 9 Ta-Nb-oxide-bearing pegmatites (Table 3) hosted in medium-grade metasedimentary rocks, biotite granite, and biotite tonalite of the Quetico subprovince. Six of the 9 Ta-Nb-oxide bearing pegmatites are located within the Gathering Lake blocks. The GLPG was discovered by Breaks et al. (2008) and is considered to be 1 of the 6 pegmatite groups that make up the larger Georgia Lake pegmatite field (Figure 4).

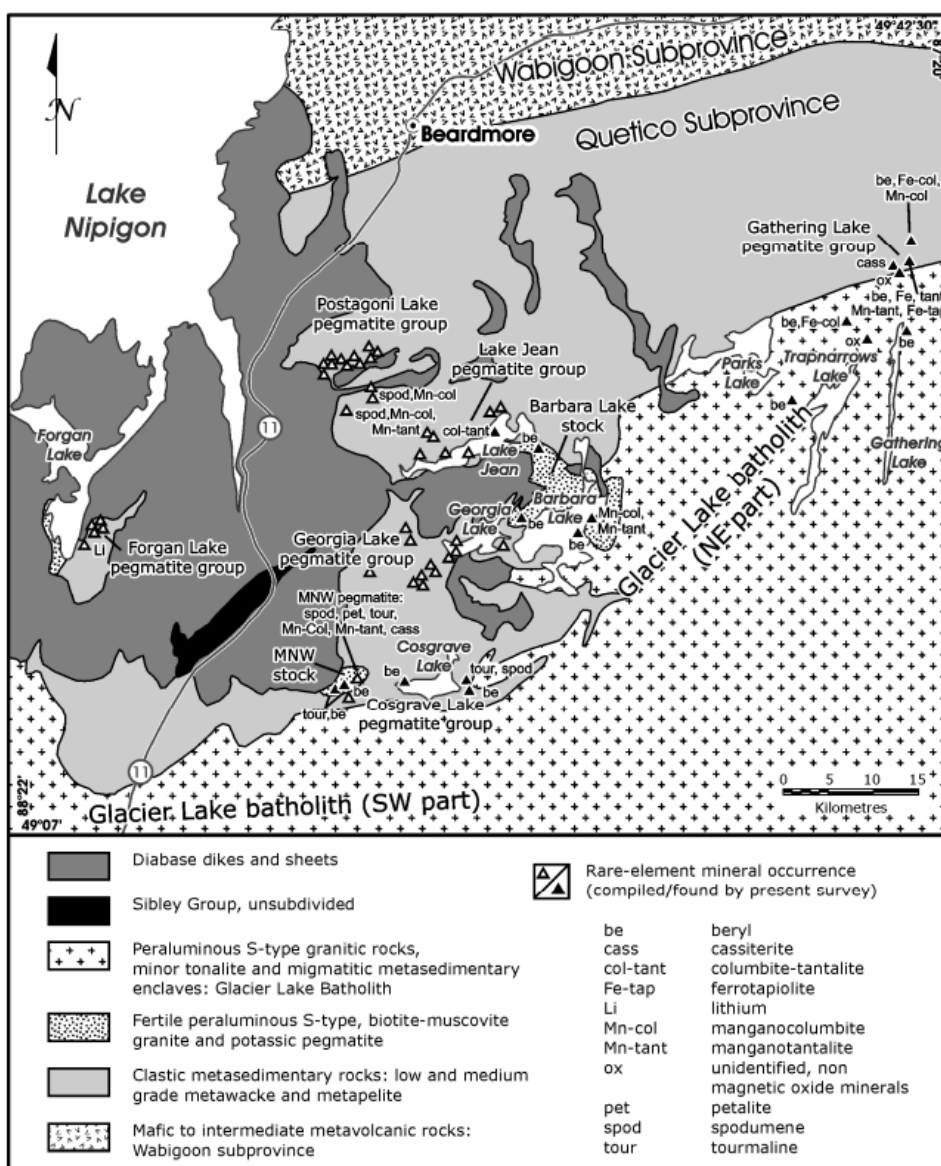


Figure 4: General geological setting of rare-element pegmatites of the Georgia Lake field and adjacent, S-type, peraluminous granitic rocks of the Glacier Lake batholith from Beaks et al. (2008).

Breaks et al. (2008) note that the dykes within the Gathering Lake group are classified as beryl-type and albite-type pegmatites that can be characterized by an abundance of white cleavelandite, and a relative scarcity of potassium feldspar. Interestingly, it's noted that the dykes within the Gathering Lake pegmatite field are mostly oriented east-west, while the direction of pegmatite evolution is likely oriented southwest to northeast. The dykes within this area differ from other dykes within the Georgia Lake pegmatite field as they have an apparent absence of lithium-rich minerals such as spodumene. Breaks et al. (2008) also notes that the north-eastern area is still open for further rare-element pegmatite discoveries.

The Quetico subprovince underwent regional anatexis of clastic metasedimentary rocks which resulted in the generation of S-type, peraluminous granitic rocks that occurred at  $2670 \pm 2$  Ma (Percival and Sullivan, 1988). Subsequent I-type magmatism led to the emplacement of magnetite-biotite granite at  $2665 \pm 2$  Ma, which was post-dated by massive granitic pegmatite at  $2653^{+3}/_{-4}$  Ma. Along the southern border of the Gathering Lake pegmatite group is the Glacier Lake batholith. This large mass of medium to coarse grained granite and pegmatite granite is situated immediately south of the northern metasedimentary part of the Quetico subprovince. The part of the Glacier Lake batholith that encompasses the southern Gathering Lake blocks is discussed in Breaks et al (2008) as the northeastern Glacier Lake batholith. The northeastern Glacier Lake batholith is approximately 20 km in breadth with a minimum northeastern extent of 60 km. Breaks et al (2008) note that the extension of the batholith beyond the eastern limit of the study area is possible.

Table 3. The 9 Ta-Nb-Oxide-bearing pegmatites that make up the Gathering Lake pegmatite field as noted by Breaks et al. (2008). UTM coordinates corresponding to sample ID's from Tindle et al. (2008).

MRD231 Sample ID	UTM Easting	UTM Northing	Brief Description (from Breaks et al., 2008)
03-JBS-59	458492	5479507	At least 2 m thick pegmatite predominantly composed of muscovite-potassic pegmatite with minor apatite-garnet aplite.
03-JBS-74	466946	5482552	This is the largest (3 by 29 m) and most evolved albite-type pegmatite within the GLPG. Strikes $250^\circ$ with a southwest dip. Has 4 internal units; 5cm wide muscovite-quartz border zone, muscovite-garnet aplite zone, cleavelandite zone and quart-rich pods.
03-JBS-77	468486	5484734	These two pegmatites (16 cm to 1.5 m thick) are mineralogically similar, parallel and narrow albite-type pegmatite dykes which strike east-west and intrude biotite granite of the north-eastern Glacier Lake batholith. Composed of quartz, albite, albitized potassium feldspar and minor muscovite, biotite, fluorapatite, beryl and garnet.
03-JBS-78	468482	5484763	
03-JBS-79	463174	5480128	Consists of 3 parallel and likely genetically linked albite-type pegmatites.

03-JBS-83	462343	5478464	93 cm wide and exposed for 12 m along Gathering Lake Road. Zoned, north-striking pegmatite dyke hosted within biotite tonalite. Consists of a core of coarser potassium feldspars and quartz with minor beryl with a garnet aplite border zone.
03-JBS-87	461416	5477976	Biotite-muscovite potassic pegmatite which exhibits abundant plumose muscovite-quartz fans.
03-FWB-68	467125	5483282	Poorly exposed. 55 cm wide dyke oriented 002/50S in clastic metasedimentary rocks. Predominantly composed of an aplite-garnet-muscovite sodic aplite.
03-FWB-72	468191	5483596	TTG granitoid in the Glacier Lake batholith. Tonalitic in composition. No other information available.

Breaks et al (2008) documented several rare-element mineral occurrences within the Gathering Lake pegmatite group including tourmaline, beryl, bavenite, ferrocolumbite, ferrotapioilite, gahnite, liberite, manganocolumbite, manganotantalite and unidentified oxide minerals, shown in Figure 5.

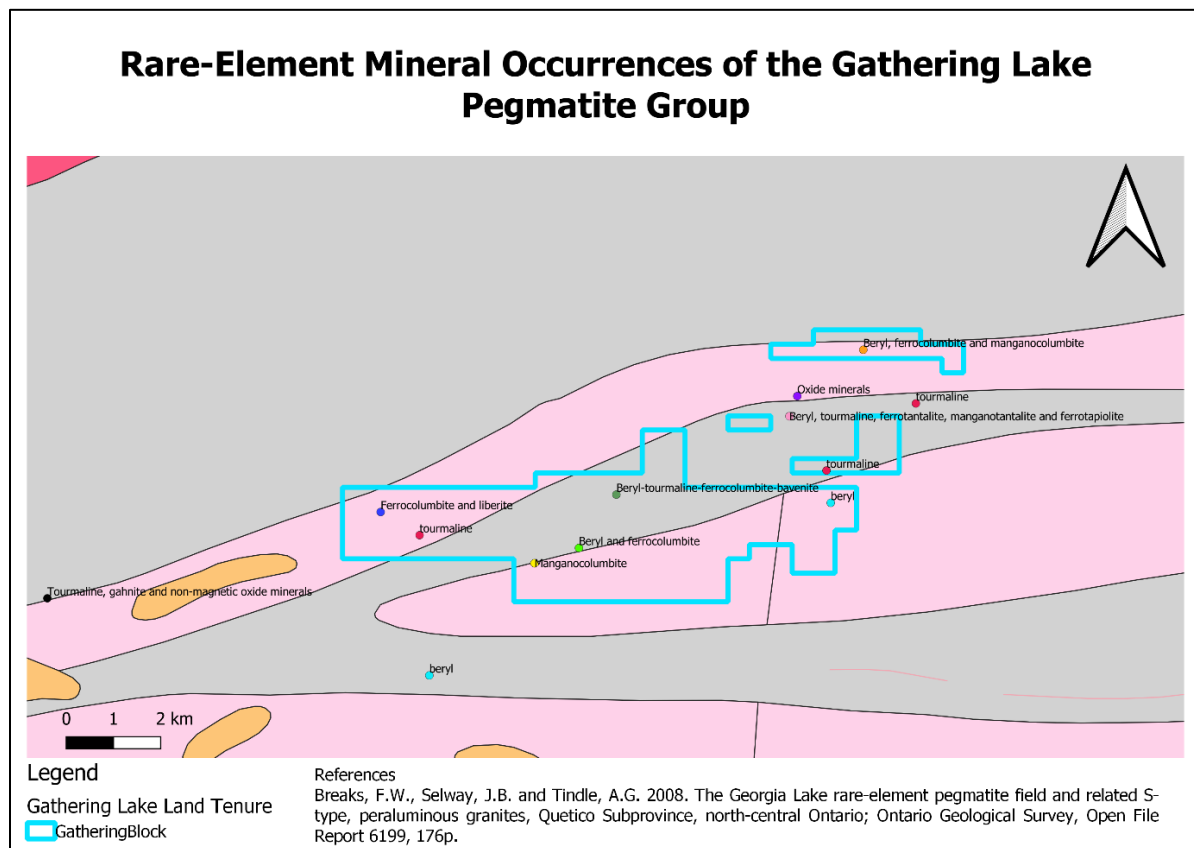


Figure 5: Breaks et. Al (2008) rare-element mineral occurrence sample locations.

25 whole rock samples of various pegmatites across the Gathering Lake pegmatite field were sampled by Breaks et. al (2008). These samples predominantly consist of sodic aplite and albitite (16) with lesser potassic pegmatites (1), pegmatitic leucogranite (1) and sodic pegmatite (7). Figure 6 shows the whole rock sample locations and their associated Li (ppm) assays. Li (ppm) ranges from 6 ppm to 271 ppm.

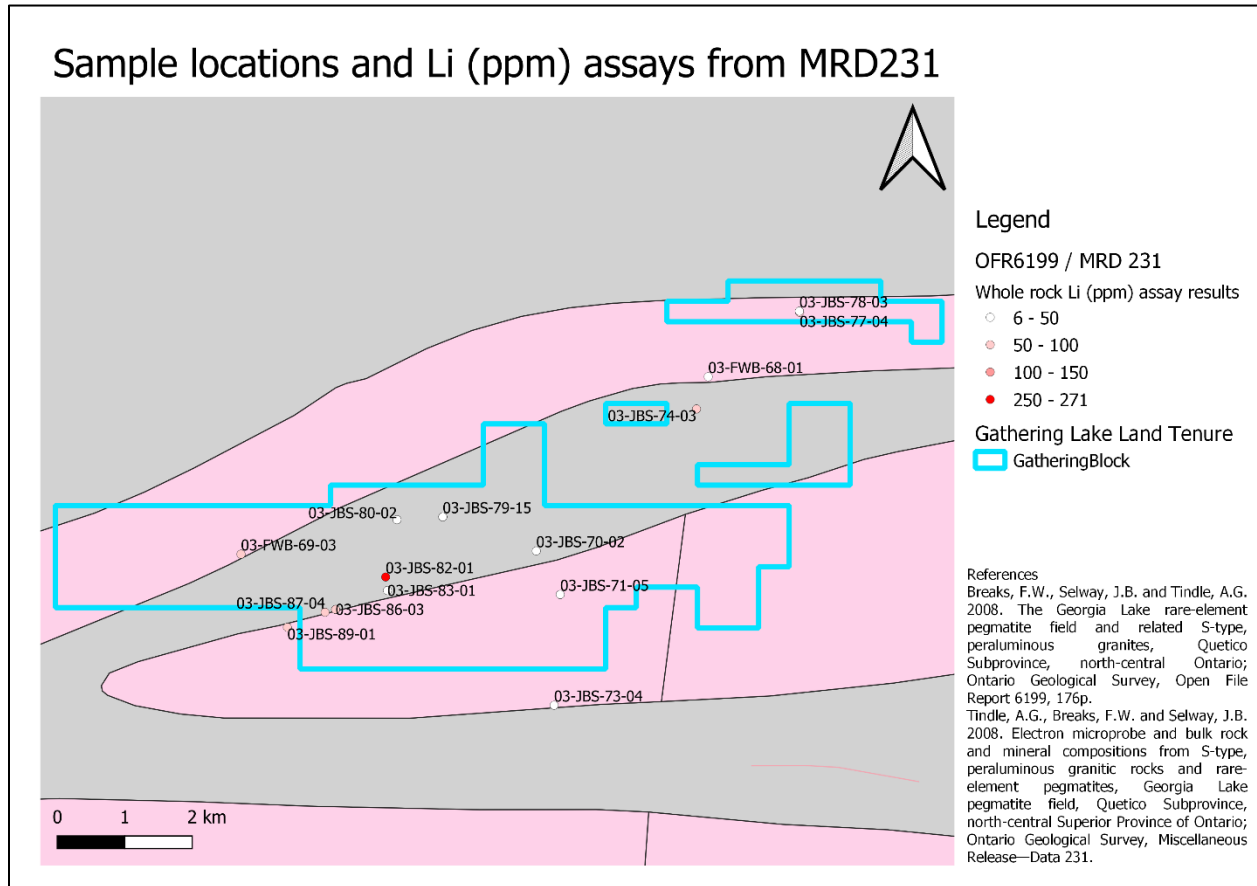


Figure 6: Breaks et. al (2008) whole rock sample locations and corresponding Li (ppm) values.

## 2022 PROSPECTING PROGRAM

Work during the 2022 field program was completed from a basecamp located at Gathering Lake Outfitters between June 6<sup>th</sup> and June 20<sup>th</sup>, 2022. A total of 13 days was spent in the field by the team with daily logs of their activities included in Appendix C. The objective of the program was to prospect and map the Gathering Lake Property area to identify additional Lithium-bearing pegmatites and if present, to define their extents.

A total of 229 geological stations were recorded utilizing the QField application on a Samsung Tab A tablet. A sample database was setup in QField for the geological stations 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 waypoints at each station as well as tracks. All coordinates are recorded in NAD 83 UTM Zone 16N.

A digital printout of the station databases is included in Appendix D. Maps showing station and sample locations, as well as GPS tracks from each traverse are included in Appendix D. A total of 87 rock samples and 9 QA/QC samples for a total of 96 samples to be submitted to ACT Labs in Thunder Bay, Ontario. Figure 7 shows the location and lithology type of the 229 outcrop stations collected. Sample locations and results are included in Appendix E.

## **Sample Procedures & QA/QC**

Rock samples were collected by field personnel utilizing rock hammers and rock saws 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. During the collection of all grab reference standards were inserted at every 10<sup>th</sup> sample.

Samples were prepared by crushing < 7kg of material with up to 80% passing through 2mm particle size. This was followed by a riffle split (250 g) and pulverize (mild steel) to 95% passing through 105 µm.

Analysis of the samples included fusing with sodium peroxide in a zirconium crucible. The fused sample is acidified with concentrated nitric and hydrochloric acids. The resulting solutions are diluted and then measured by ICP-OES and ICP-MS. All metals are solubilized.

Fused samples are diluted and analyzed by ICP-MS. Calibration is performed using five synthetic calibration standards. A set of (10-20) fused certified reference material is run with every batch of samples for calibration and quality control. Fused duplicates are run every 10 samples.

For ICP-OES, samples are analyzed with a minimum of 10 certified reference materials for the required analytes, all prepared by sodium peroxide fusion. Every 10th sample is prepared and analyzed in duplicate; a blank is prepared every 30 samples and analyzed. Samples are analyzed using an ICP and internal standards are used as part of the standard operating procedure.

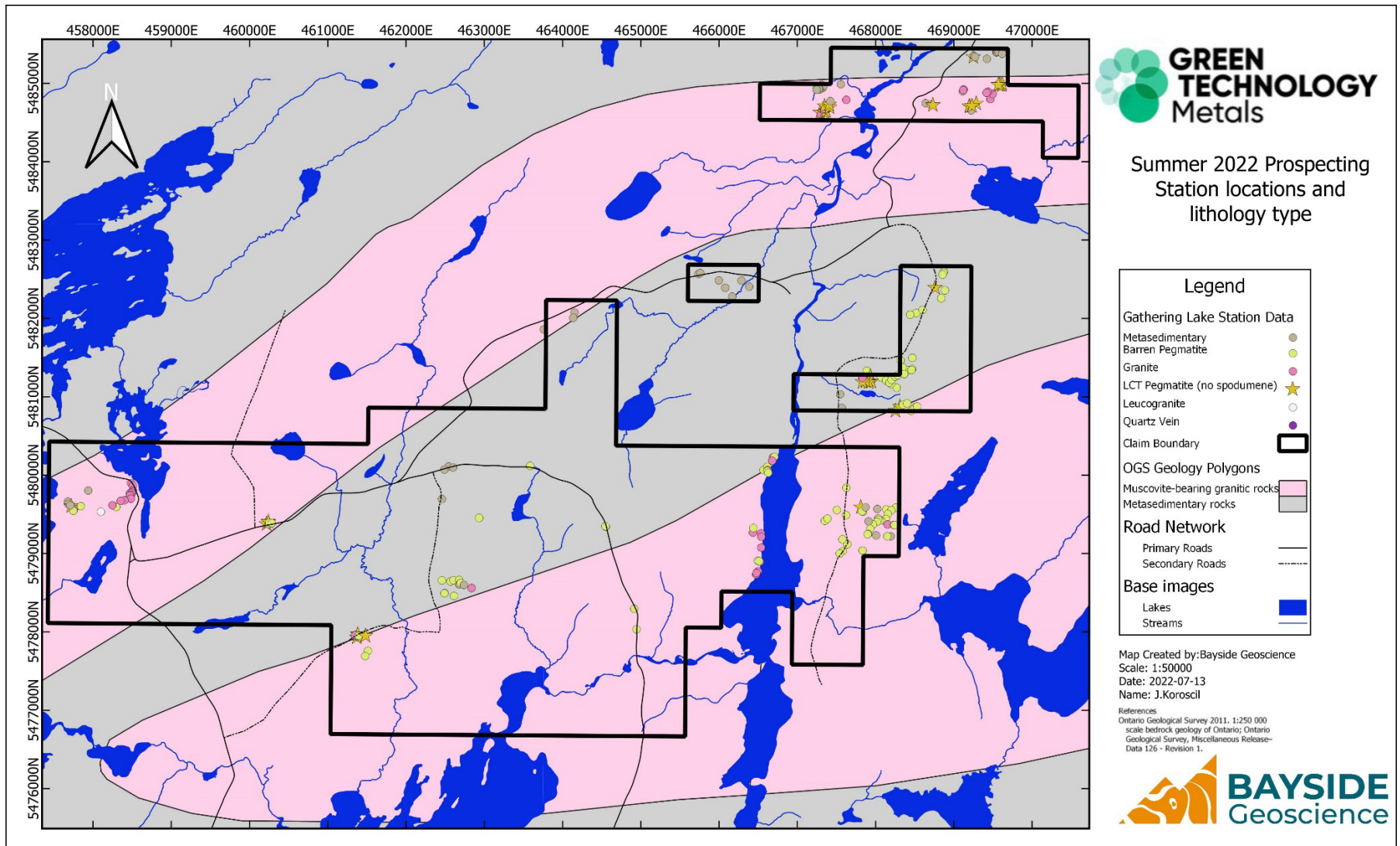


Figure 7: 2022 station locations and lithology types.

## Results

Geochemical results for all 87 samples have been completed and are presented in Appendix E. The 87 rock samples collected from the Gathering Lake property consists of 30 LCT type pegmatites (no spodumene), 53 barren pegmatites, 3 aplites and 1 pegmatitic granite. LCT type pegmatites were differentiated from barren pegmatites by the presence of any of the following: oxides (columbite-tantalite suite), beryl, abundant garnet and/or tourmaline and any Li-bearing mineral (lepidolite, spodumene and petalite). No visible spodumene was recorded in the Gathering Lake property prospecting program. Figure 7 shows the outcrop locations and lithology type of the 87 collected rock samples.

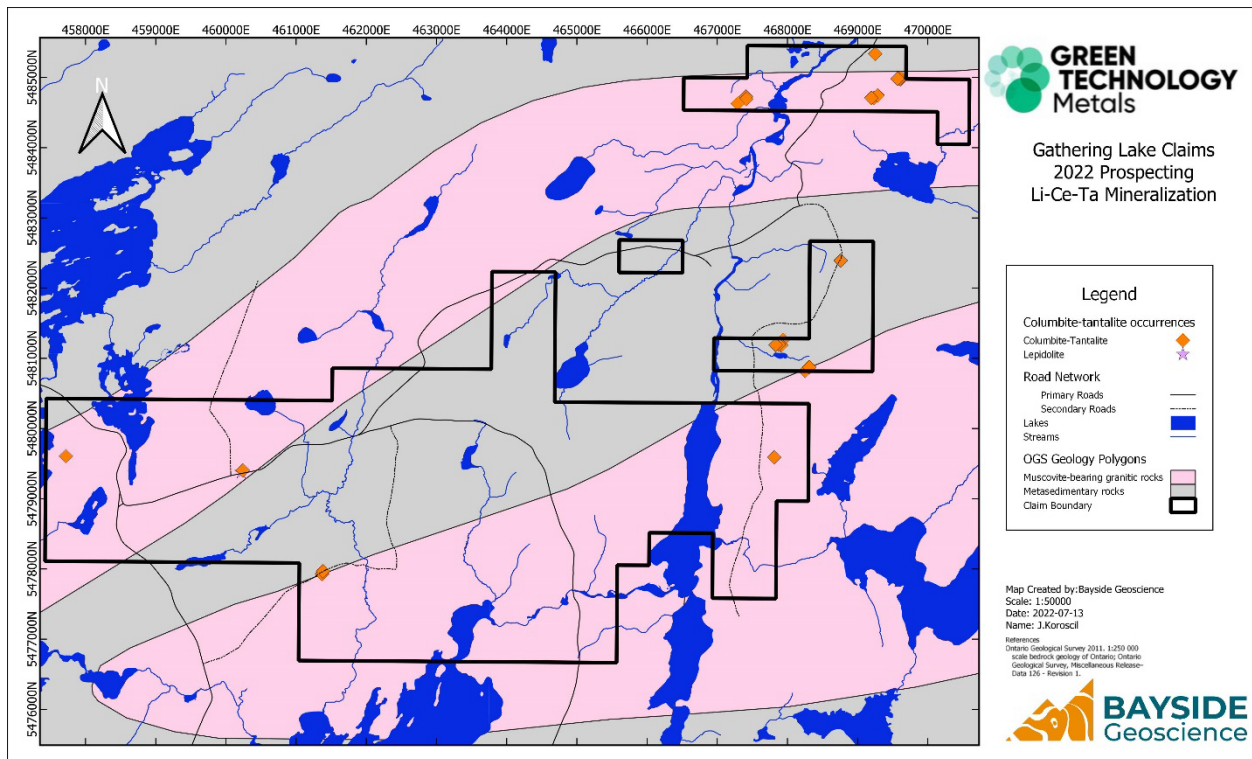


Figure 8: Lepidolite and columbite-tantalite bearing pegmatites identified during the 2022 field program.

Assay results from the grab samples did not return any significant Li, Cs or Ta values. The best Li result came from sample B1104502 which returned 324ppm Li from a lepidolite-bearing pegmatite at station BD-16 in the NE claim block (Figure 9).



Figure 9: Sample 1104502 of a lepidolite-bearing pegmatite from station BD-16.

Columbite-tantalite suite minerals are very fine to fine grained and are commonly seen with rust halos. The strikes of the pegmatites vary across the property, but most pegmatites strike roughly north-east (Figure 10).

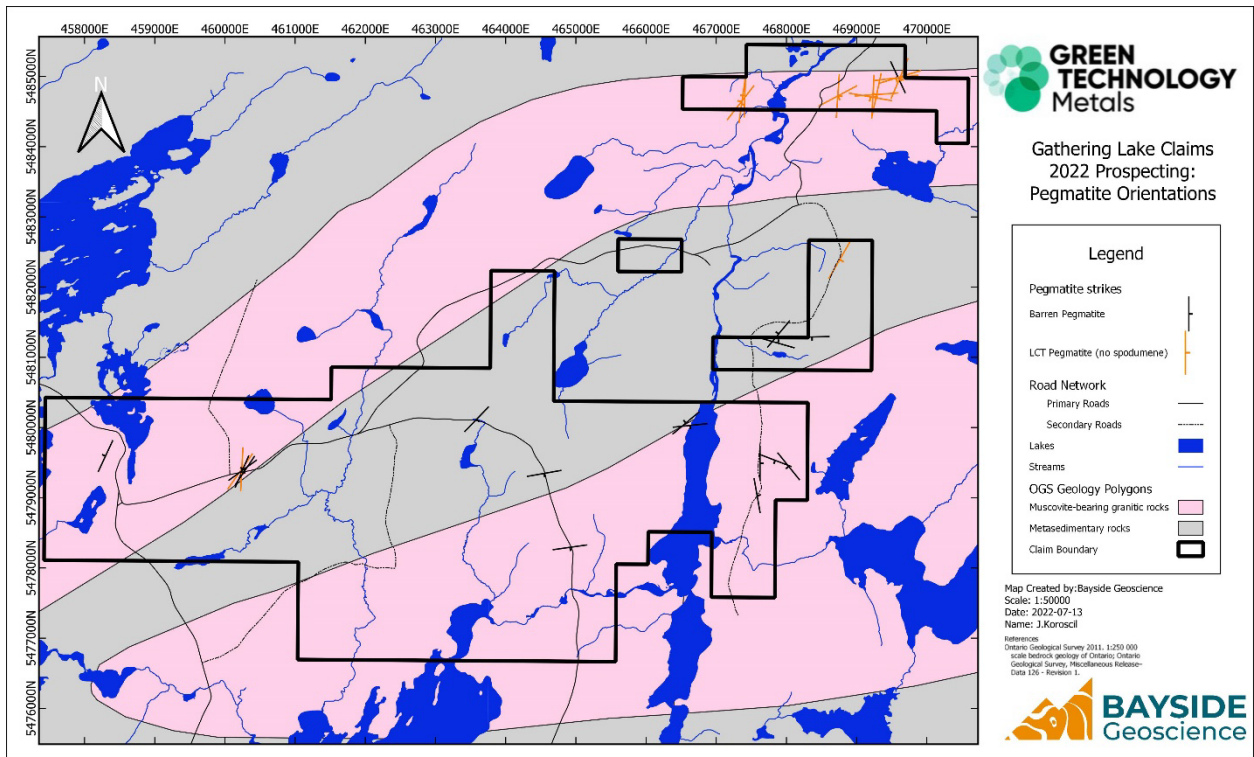


Figure 10: Pegmatite strike orientations measured during the 2022 field season.

## CONCLUSIONS AND RECOMMENDATIONS

This initial prospecting program focused on areas of the property that were proximal to known Li bearing pegmatite and outcrops that were visible based on satellite images. Due to the limited length of the field program not all areas of the property were visited. Given that fertile pegmatites are present in the project area, additional prospecting is still warranted.

Future work should also focus on prospecting claim blocks 638324 and 637308 more thoroughly, as 18 of the 20 pegmatites within the area were noted to be LCT type pegmatites. Since pegmatite evolution is also believed to occur in a south-west to north-east direction, these two claim blocks represent the highest probability of highly evolved pegmatites. More work should also be completed within the vicinity of the lepidolite occurrence at station BD-16, which was the only known Li-bearing mineral documented during the prospecting program. The lepidolite-bearing pegmatite strikes approximately 035°.

## STATEMENT OF EXPENDITURES

Expenditure Type	Cost/Unit	Units	Total	Double Prospecting Credits
Project Geologist	\$900.00	15.5	\$13,950.00	\$27,900.00
Geological Technician	\$550.00	14	\$7,700.00	\$15,400.00
Field Assistant	\$525.00	30	\$15,750.00	\$31,500.00
Supervisor	\$1,600.00	2	\$3,200.00	
Truck Rental	\$125.00	15	\$1,875.00	
UTV Rental	\$200.00	15	\$3,000.00	
Boat Rental	\$150.00	1	\$150.00	
Fuel	\$664.31	1	\$664.31	
Meals	\$1,386.63	1	\$1,386.63	
Lodging	\$2,712.00	1	\$2,712.00	
Assays	\$51.00	87	\$4,437.00	
Report Writing/Filing	\$4,360.00	1	\$4,360.00	
<b>Total</b>			<b>\$59,184.94</b>	<b>\$96,584.94</b>

Cell ID	Grab Sample Count	Sample Analysis Costs	Mapping Station Count	Proportion of Stations/Cell	Labour/Fixed Costs	Total Cost/Cell
632259	26	\$1,326.00	45	19.82%	\$18,267.21	\$19,593.21
632260		\$0.00	7	3.08%	\$2,841.57	\$2,841.57
637305	4	\$204.00	14	6.17%	\$5,683.13	\$5,887.13
637306		\$0.00	4	1.76%	\$1,623.75	\$1,623.75
637307	5	\$255.00	16	7.05%	\$6,495.01	\$6,750.01
637308	4	\$204.00	10	4.41%	\$4,059.38	\$4,263.38
637309	7	\$357.00	12	5.29%	\$4,871.26	\$5,228.26
637874		\$0.00	2	0.88%	\$811.88	\$811.88
637876	3	\$153.00	24	10.57%	\$9,742.51	\$9,895.51
637875	6	\$306.00	8	3.52%	\$3,247.50	\$3,553.50
638324	12	\$612.00	42	18.50%	\$17,049.40	\$17,661.40
638325	20	\$1,020.00	43	18.94%	\$17,455.34	\$18,475.34
<b>Total</b>	<b>87</b>	<b>\$4,437.00</b>	<b>227</b>	<b>100.00%</b>	<b>\$92,147.94</b>	<b>\$96,584.94</b>

## 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 11 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.

Date: December 6, 2022

Thunder Bay, Ontario, Canada



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

## REFERENCES

Breaks, F.W., Selway, J.B. and Tindle, A.G. 2008. The Georgia Lake rare-element pegmatite field and related S-type, peraluminous granites, Quetico Subprovince, north-central Ontario; Ontario Geological Survey, Open File Report 6199, 176p.

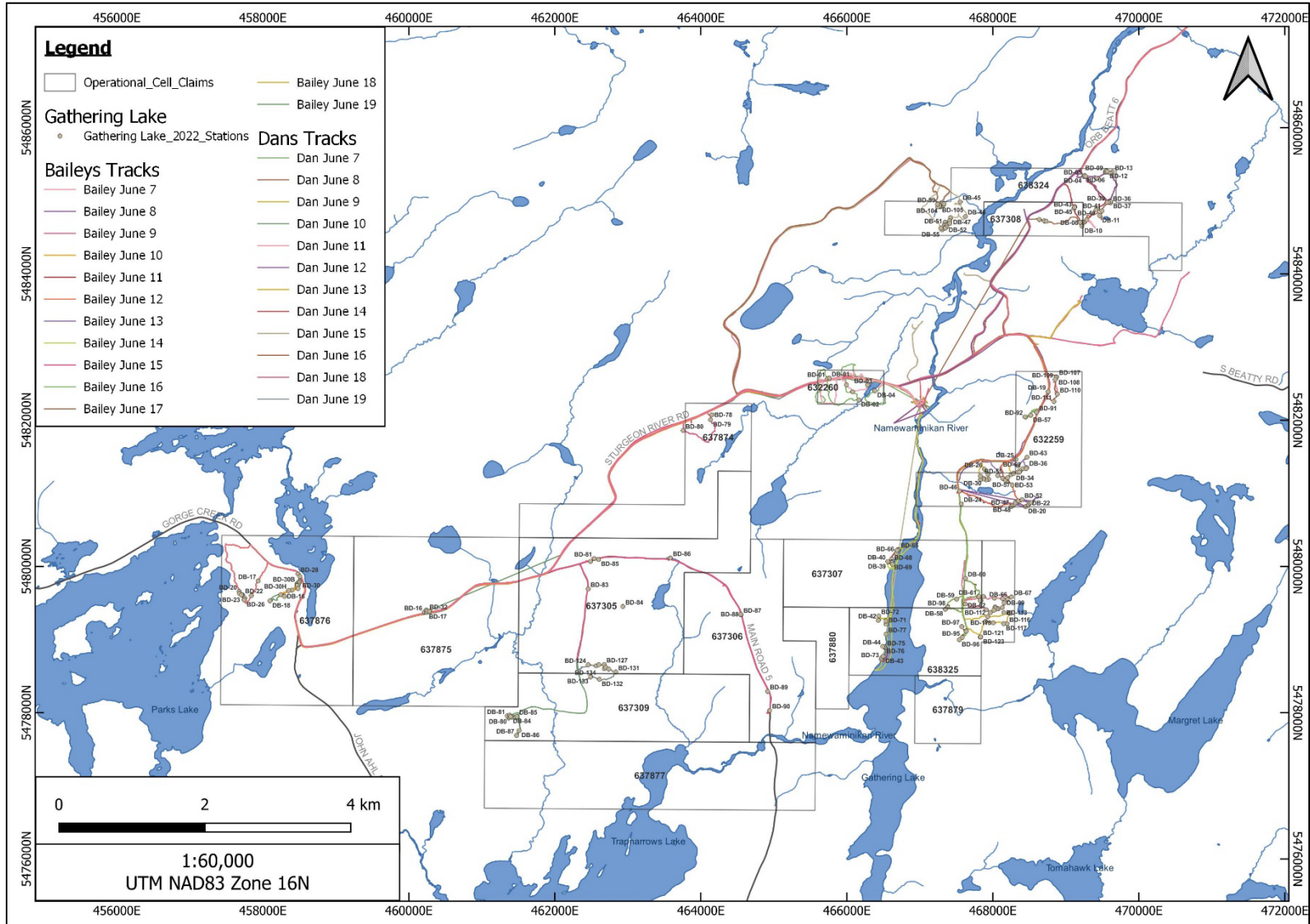
Fenwick, K.G. 2019. Technical Report on the Gathering Lake Lithium Pegmatite Property.

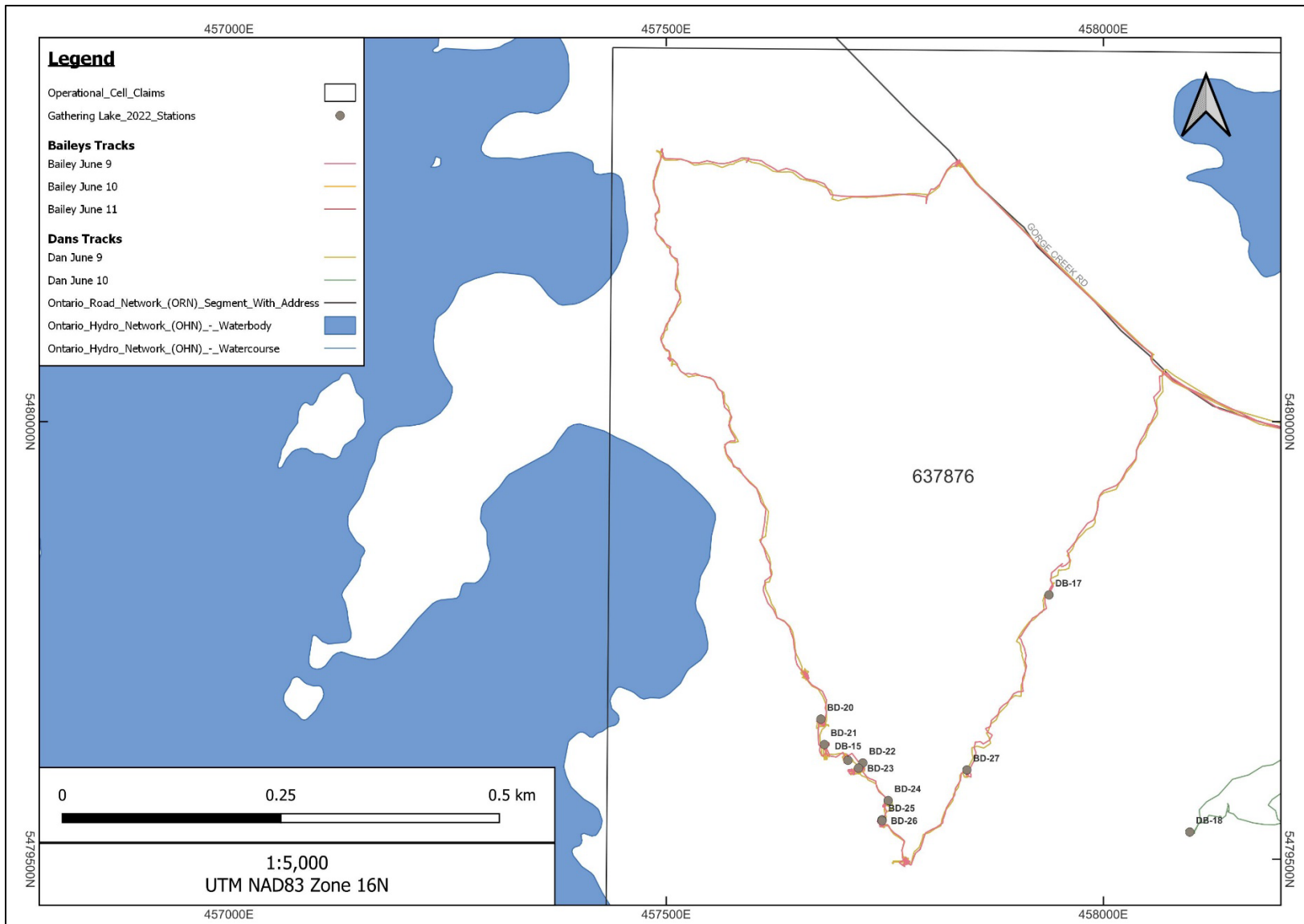
Tindle, A.G., Breaks, F.W. and Selway, J.B. 2008. Electron microprobe and bulk rock and mineral compositions from S-type, peraluminous granitic rocks and rare-element pegmatites, Georgia Lake pegmatite field, Quetico Subprovince, north-central Superior Province of Ontario; Ontario Geological Survey, Miscellaneous Release — Data 231.

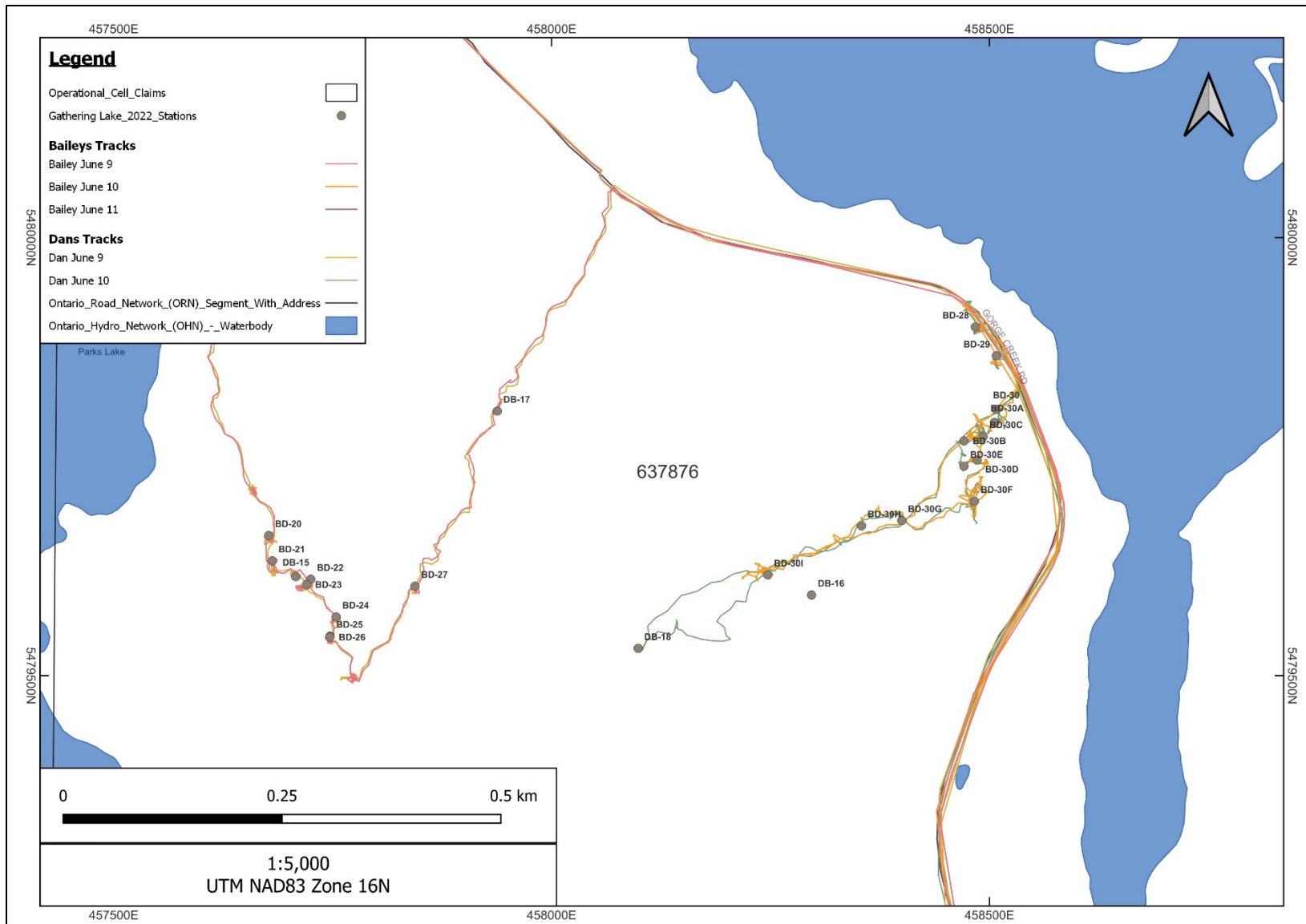
## APPENDIX A: CLAIM DETAILS

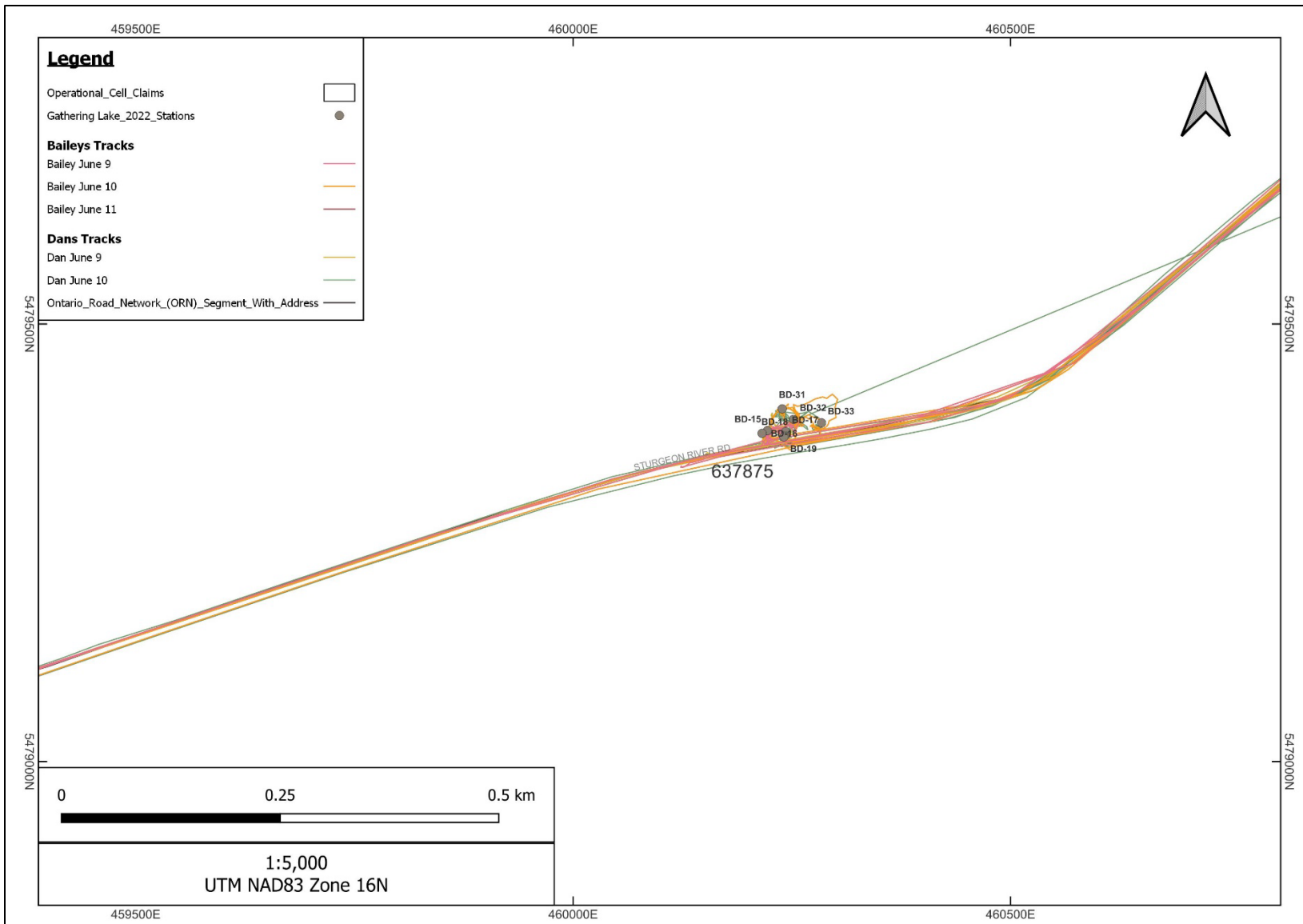
Claim ID	Claim Type	Expiry Date	Holder
632259	MCMC	2023/01/26	(100) Solstice Gold Corp.
632260	MCMC	2023/01/26	(100) Solstice Gold Corp.
637305	MCMC	2023/02/14	(100) Solstice Gold Corp.
637306	MCMC	2023/02/14	(100) Solstice Gold Corp.
637307	MCMC	2023/02/14	(100) Solstice Gold Corp.
637308	MCMC	2023/02/14	(100) Solstice Gold Corp.
637309	MCMC	2023/02/14	(100) Solstice Gold Corp.
637874	MCMC	2023/02/17	(100) Solstice Gold Corp.
637875	MCMC	2023/02/17	(100) Solstice Gold Corp.
637876	MCMC	2023/02/17	(100) Solstice Gold Corp.
637877	MCMC	2023/02/17	(100) Solstice Gold Corp.
637879	MCMC	2023/02/17	(100) Solstice Gold Corp.
637880	MCMC	2023/02/17	(100) Solstice Gold Corp.
638324	MCMC	2023/02/19	(100) Solstice Gold Corp.
638325	MCMC	2023/02/19	(100) Solstice Gold Corp.

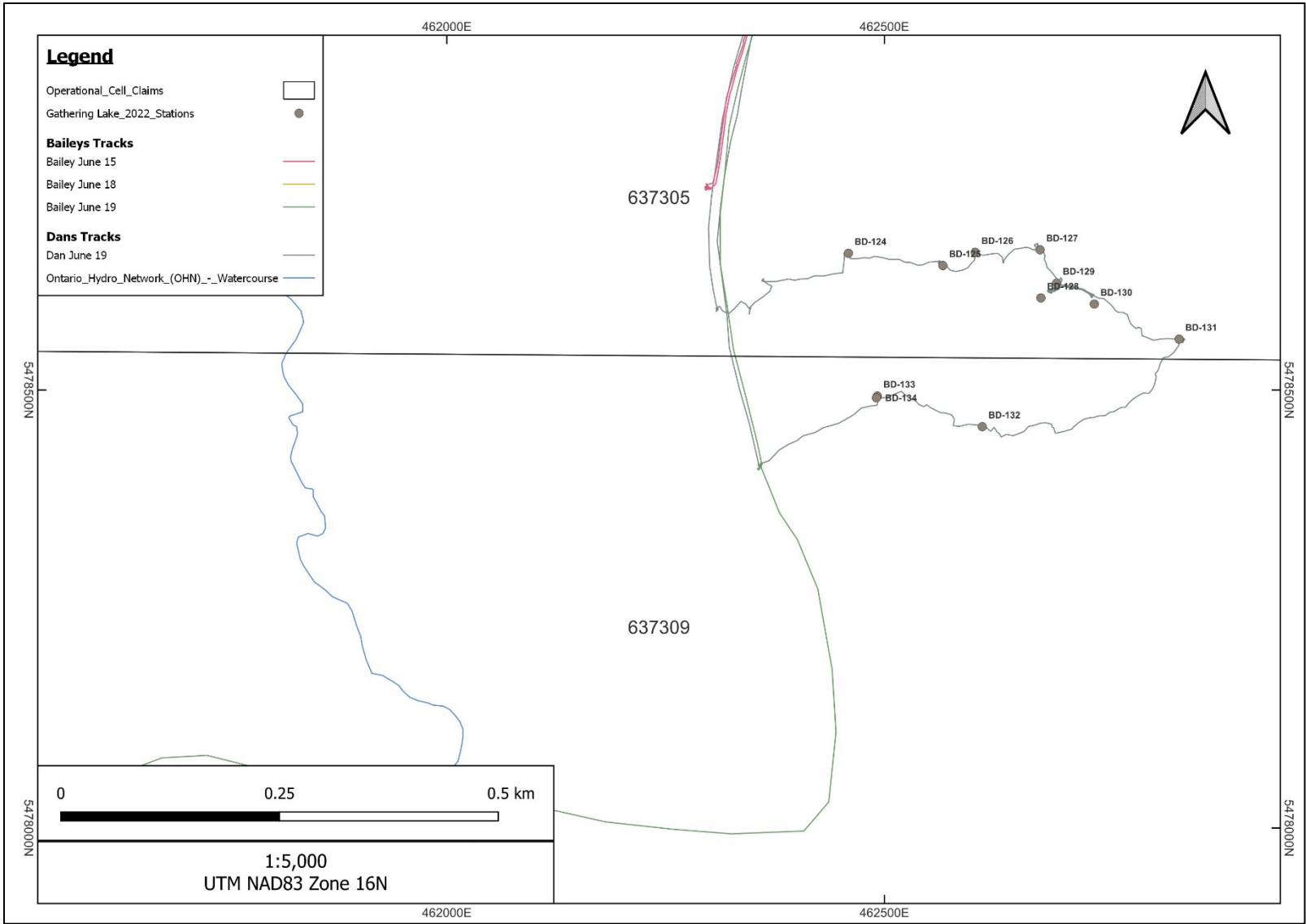
# APPENDIX B: MAP

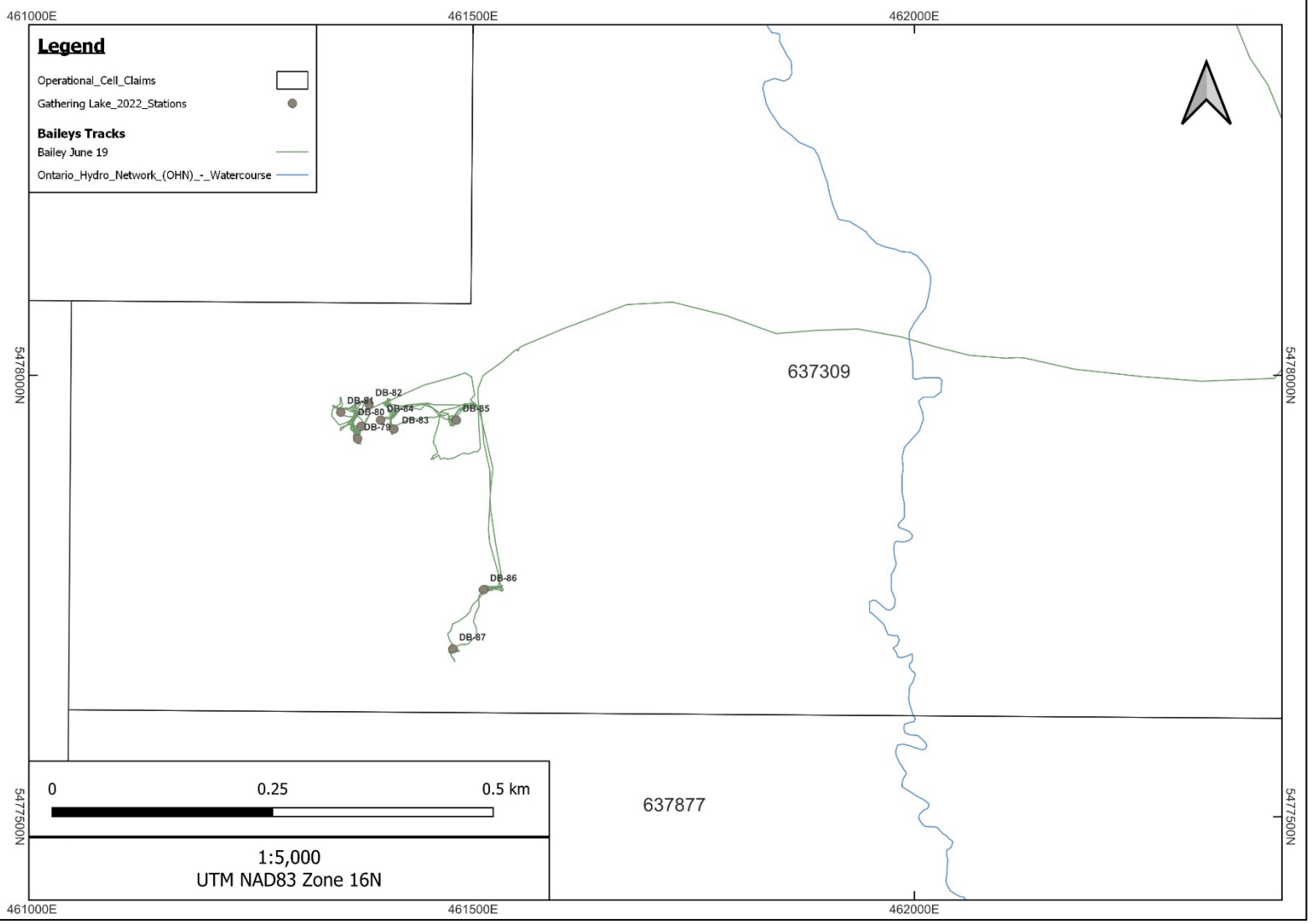


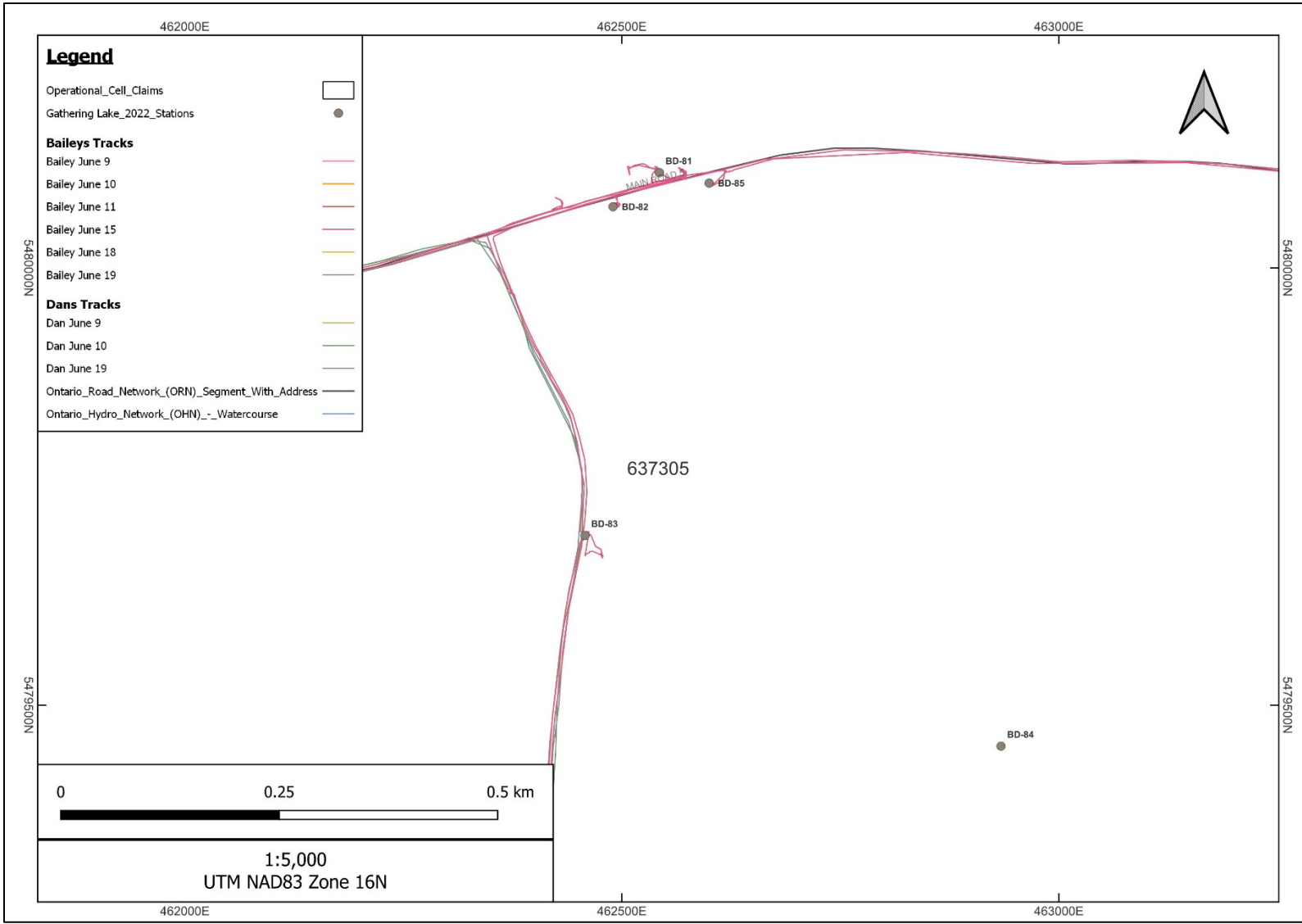


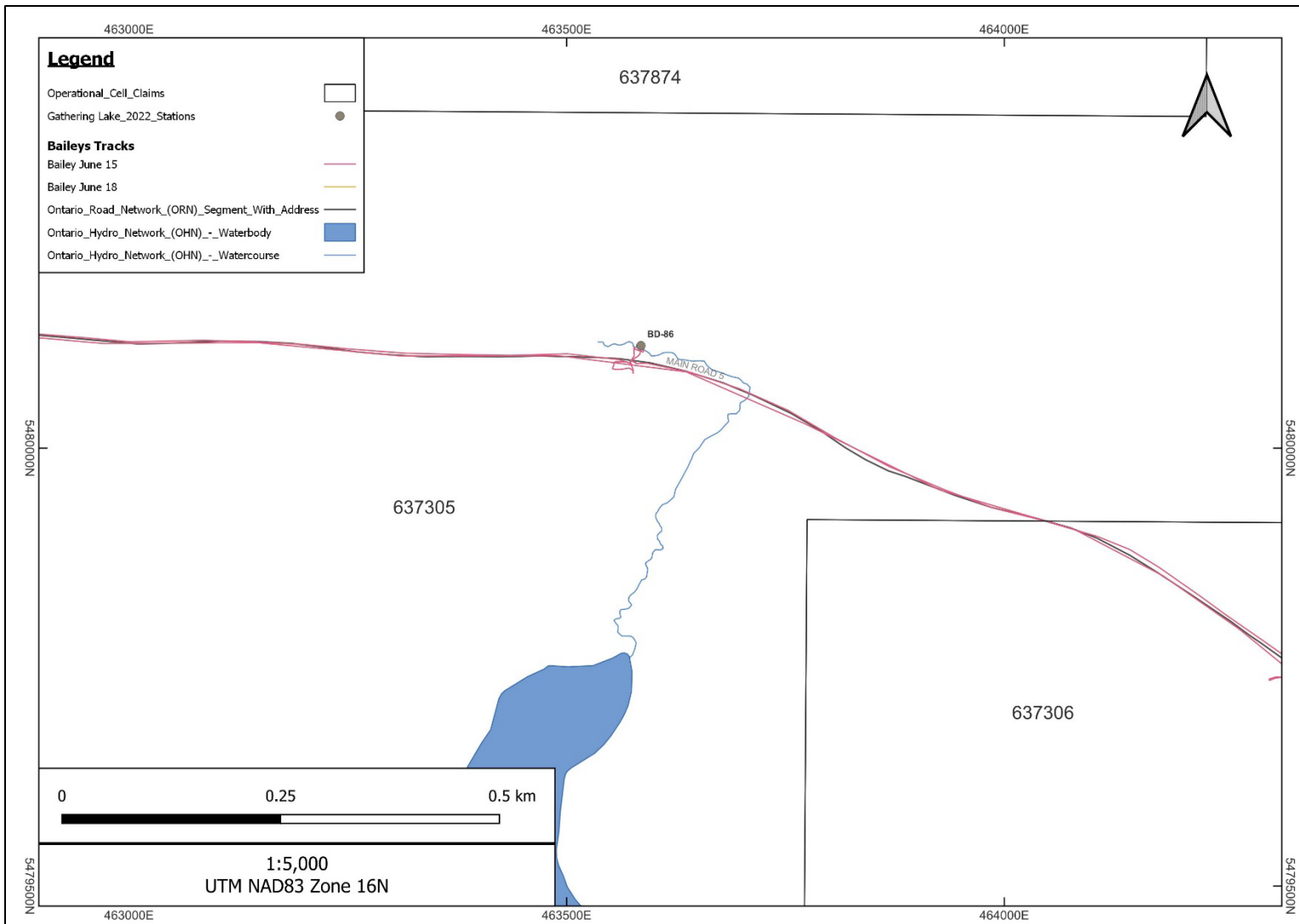


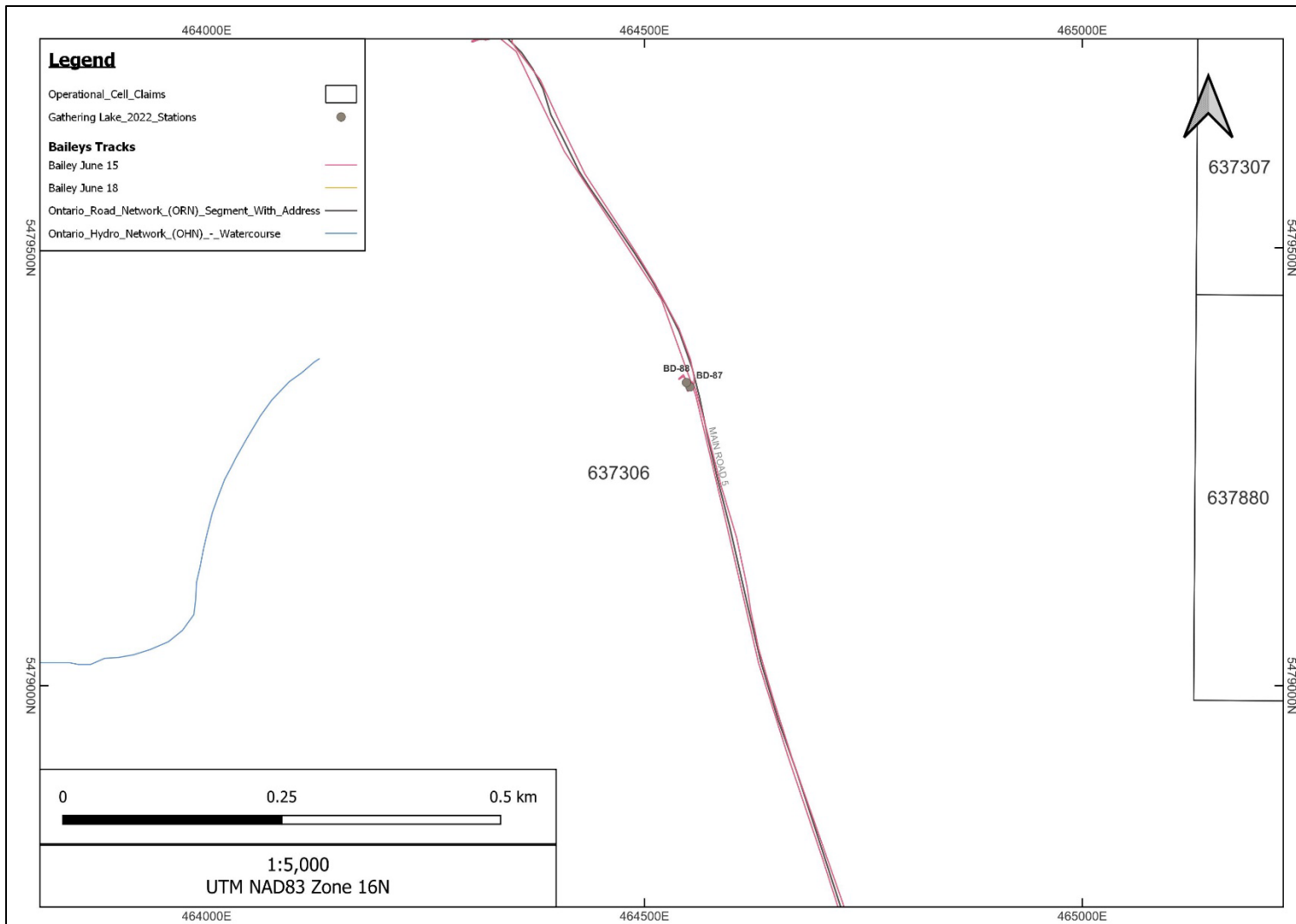


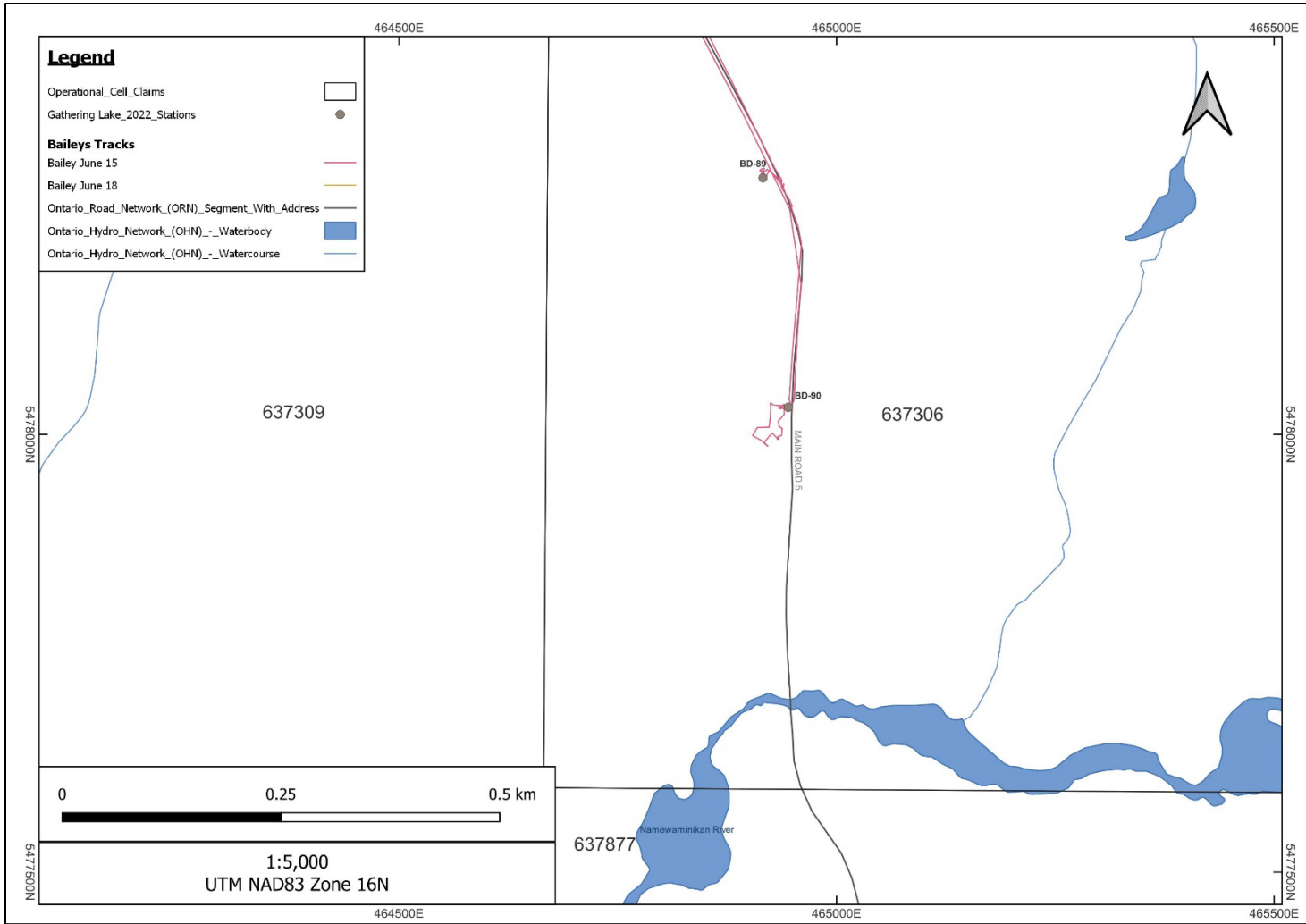


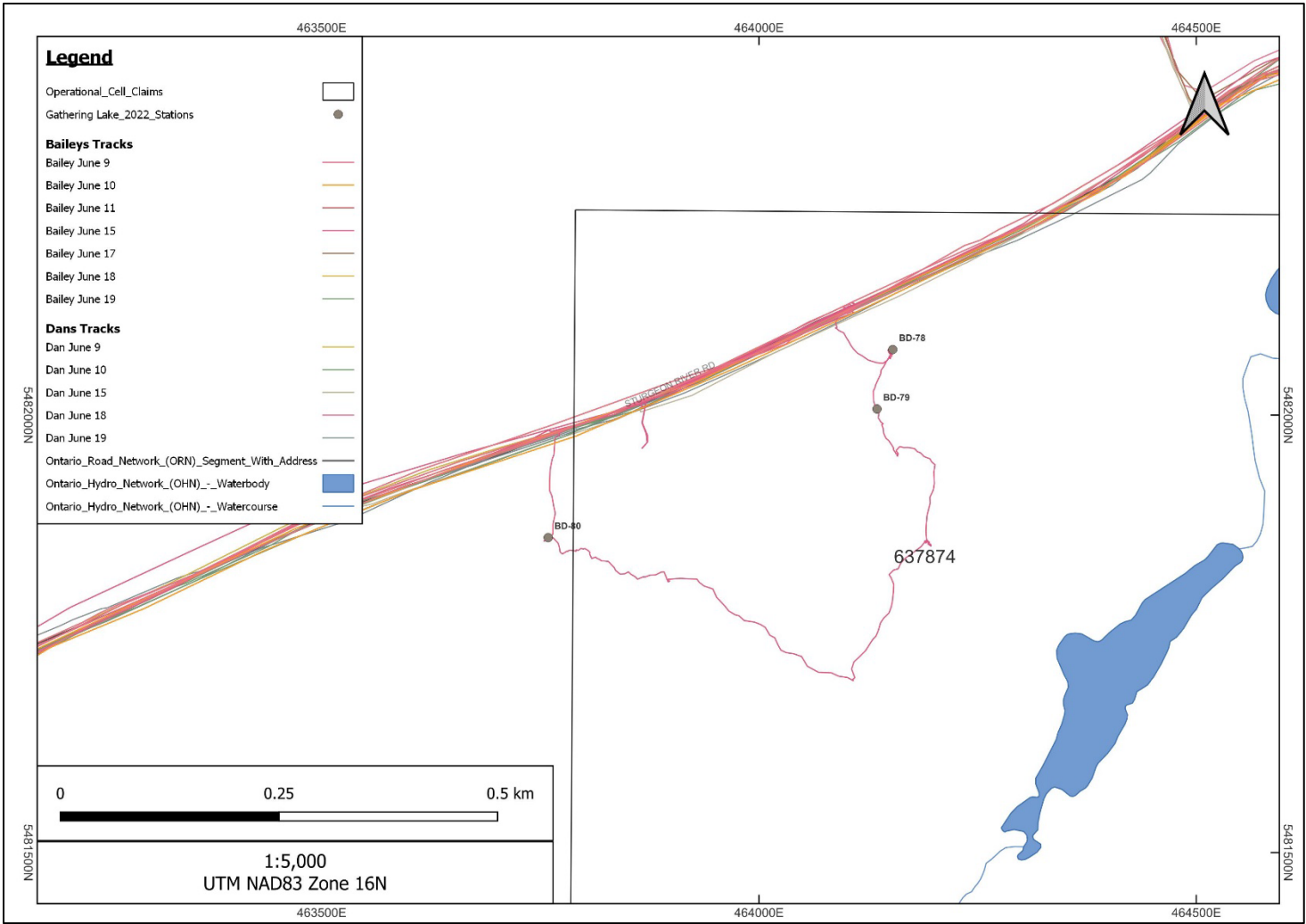


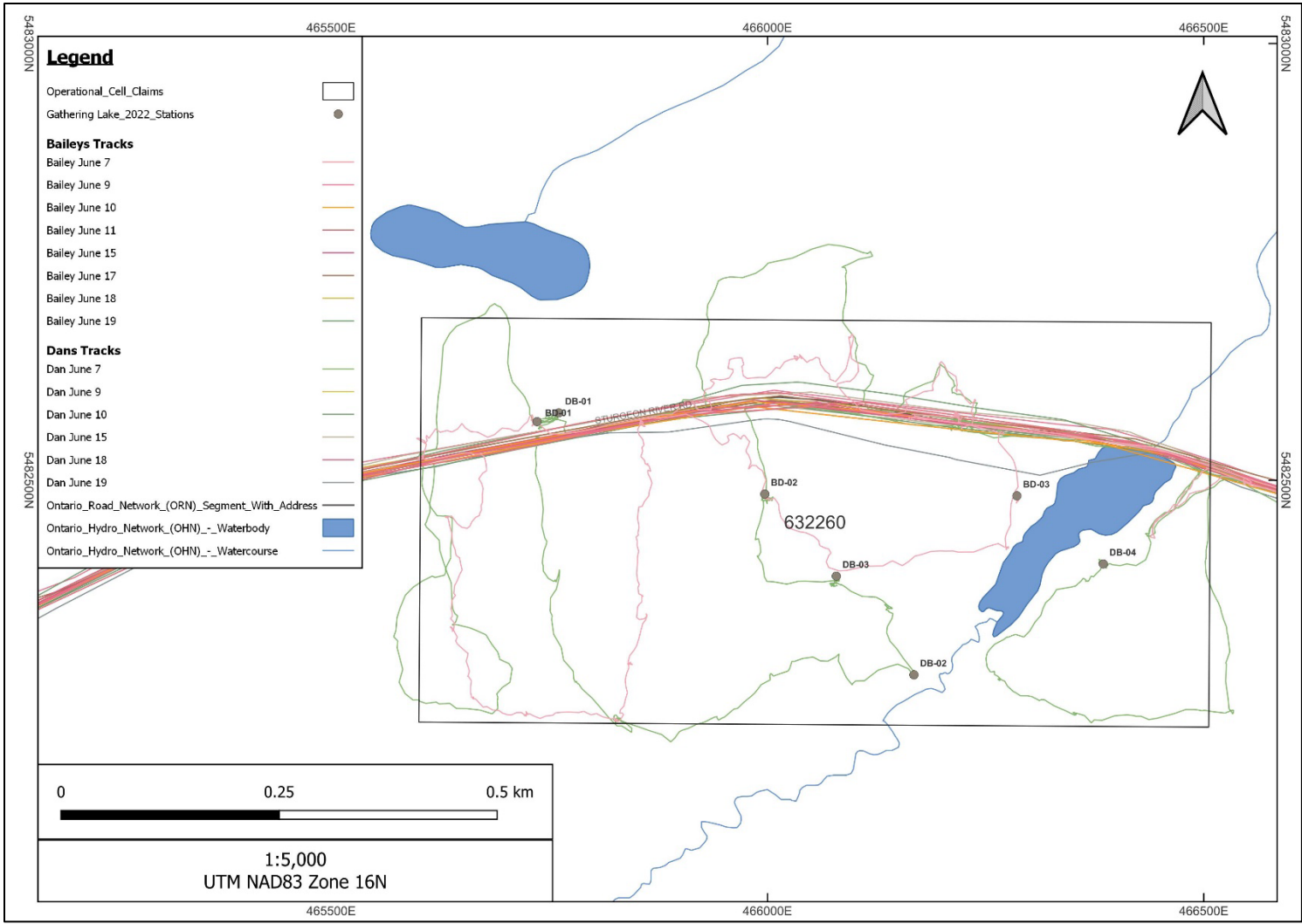


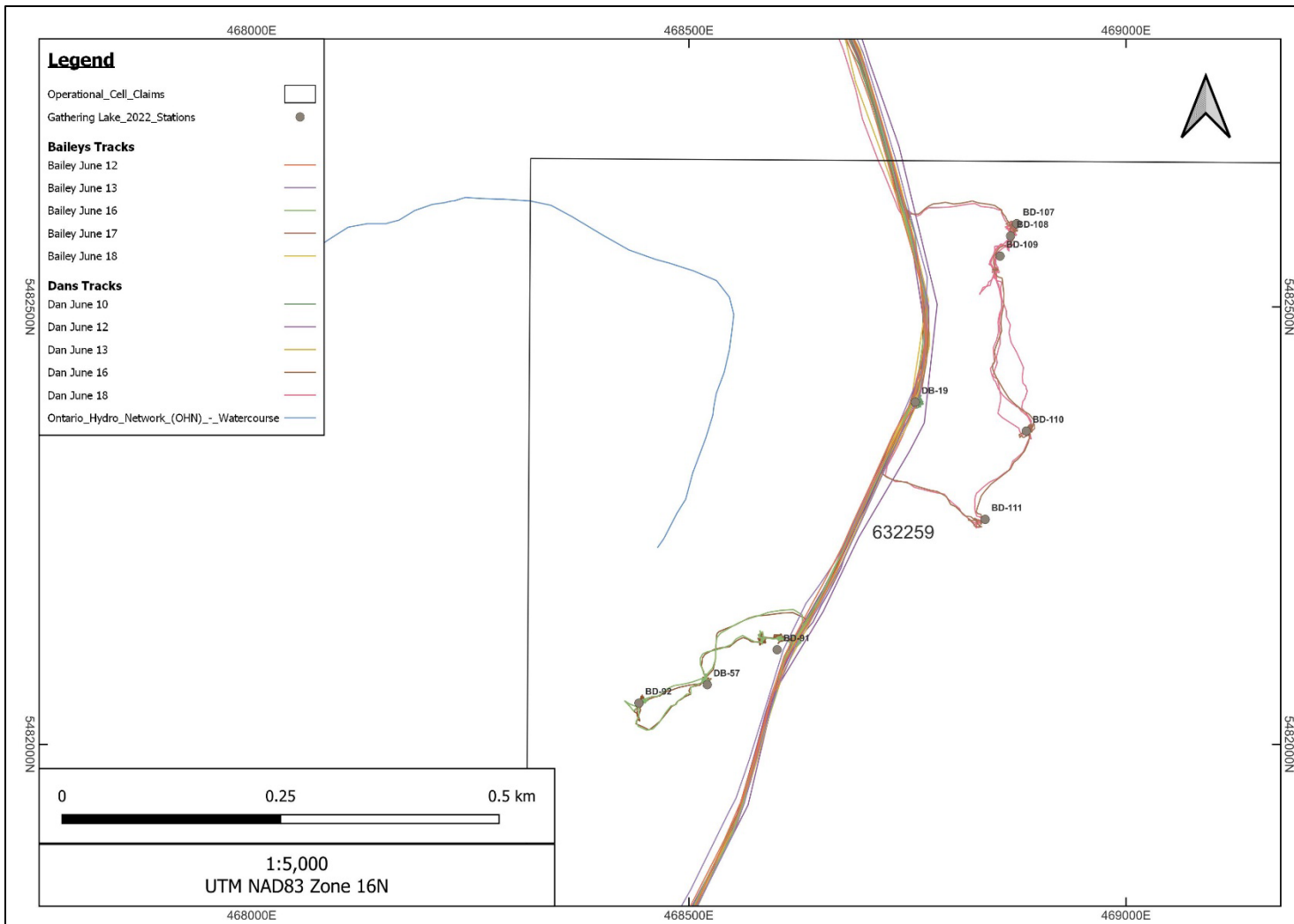


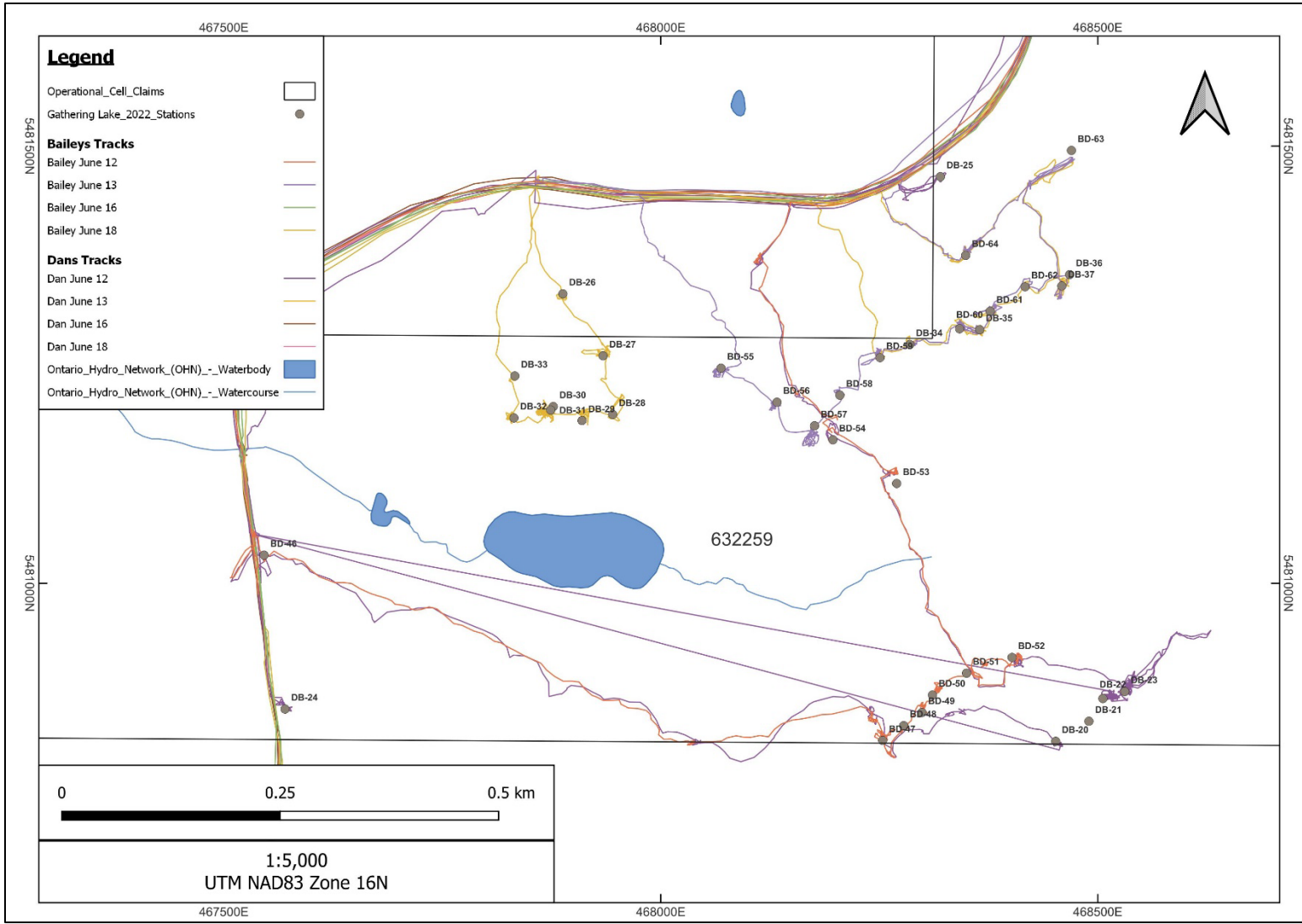


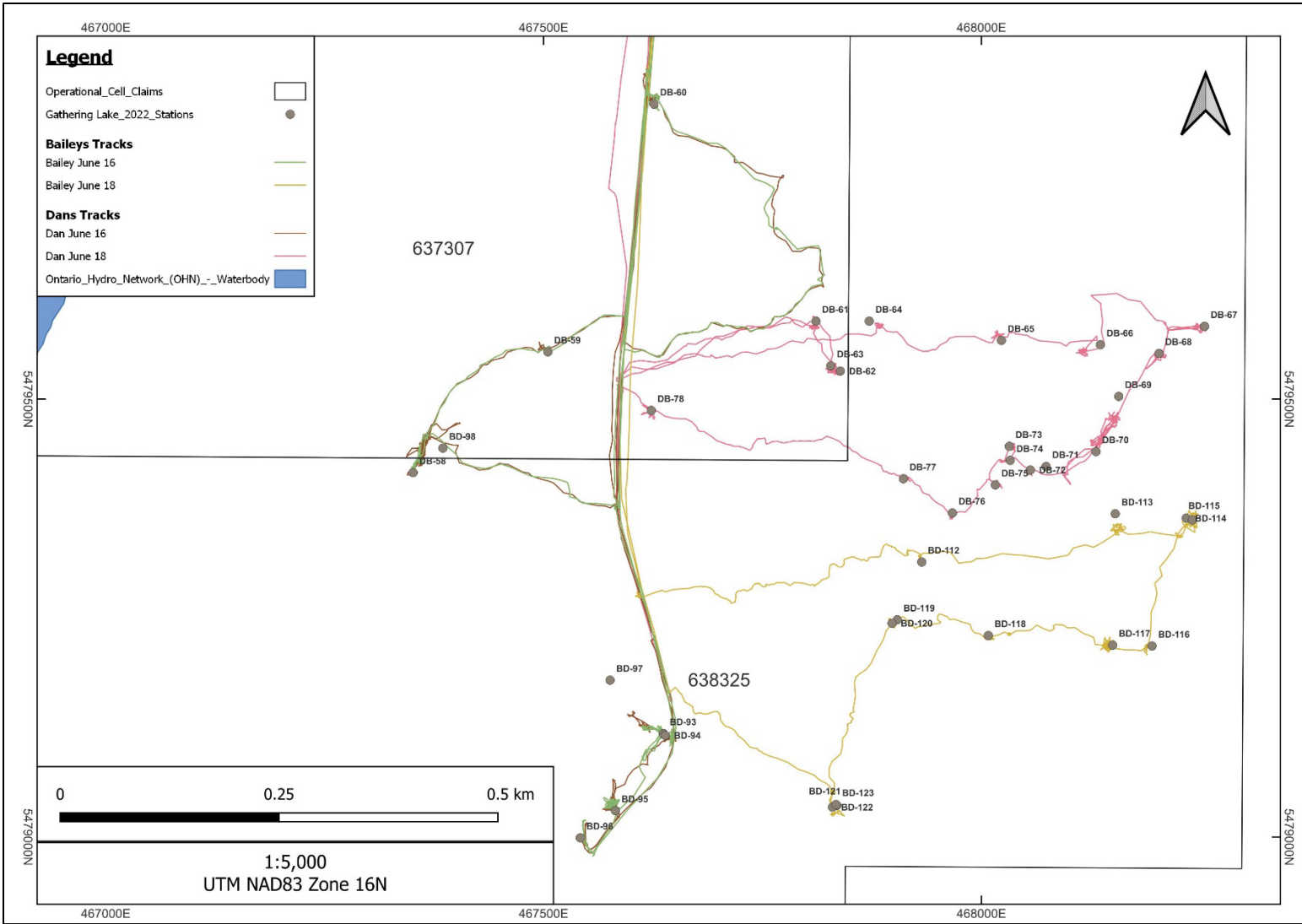


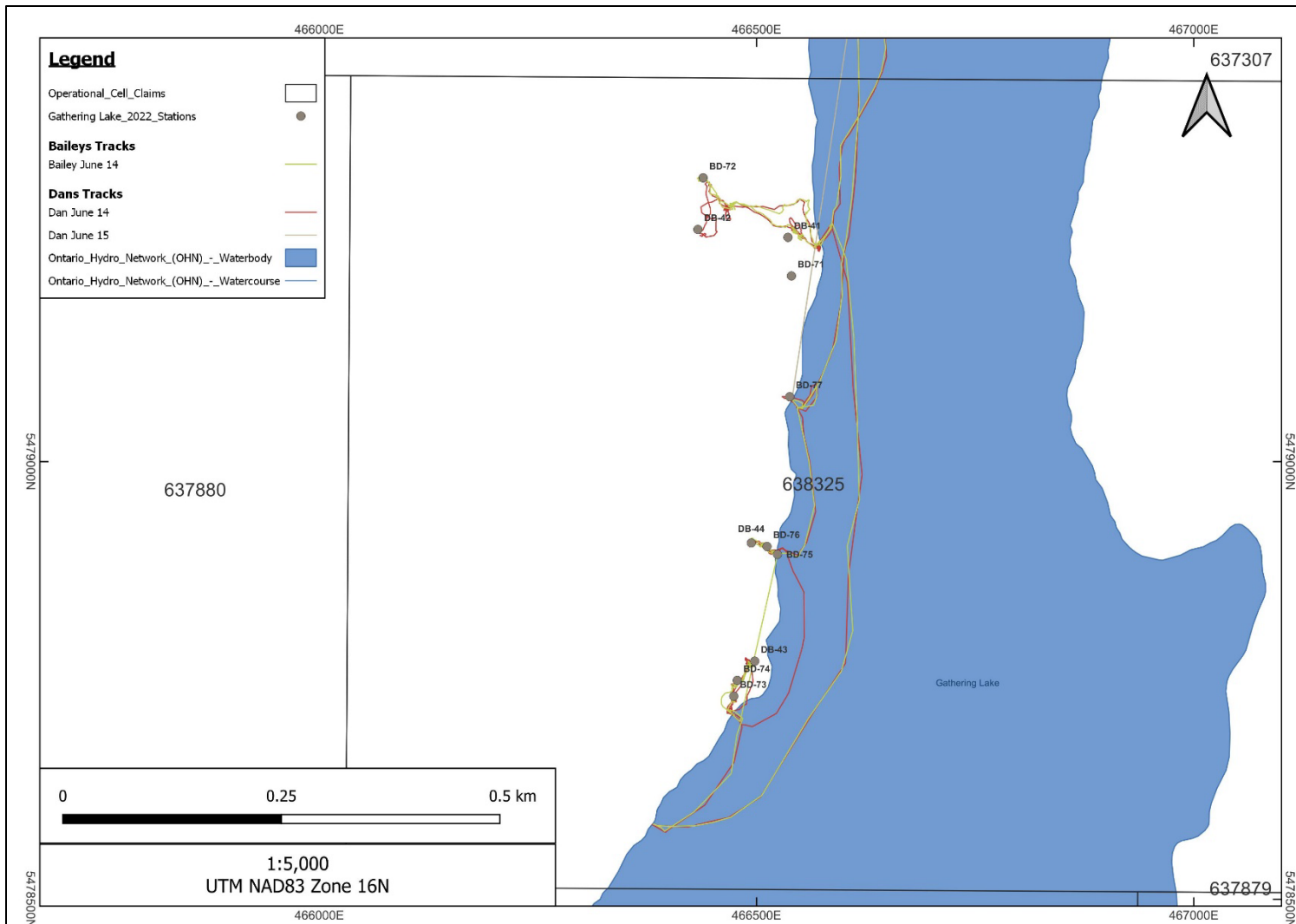


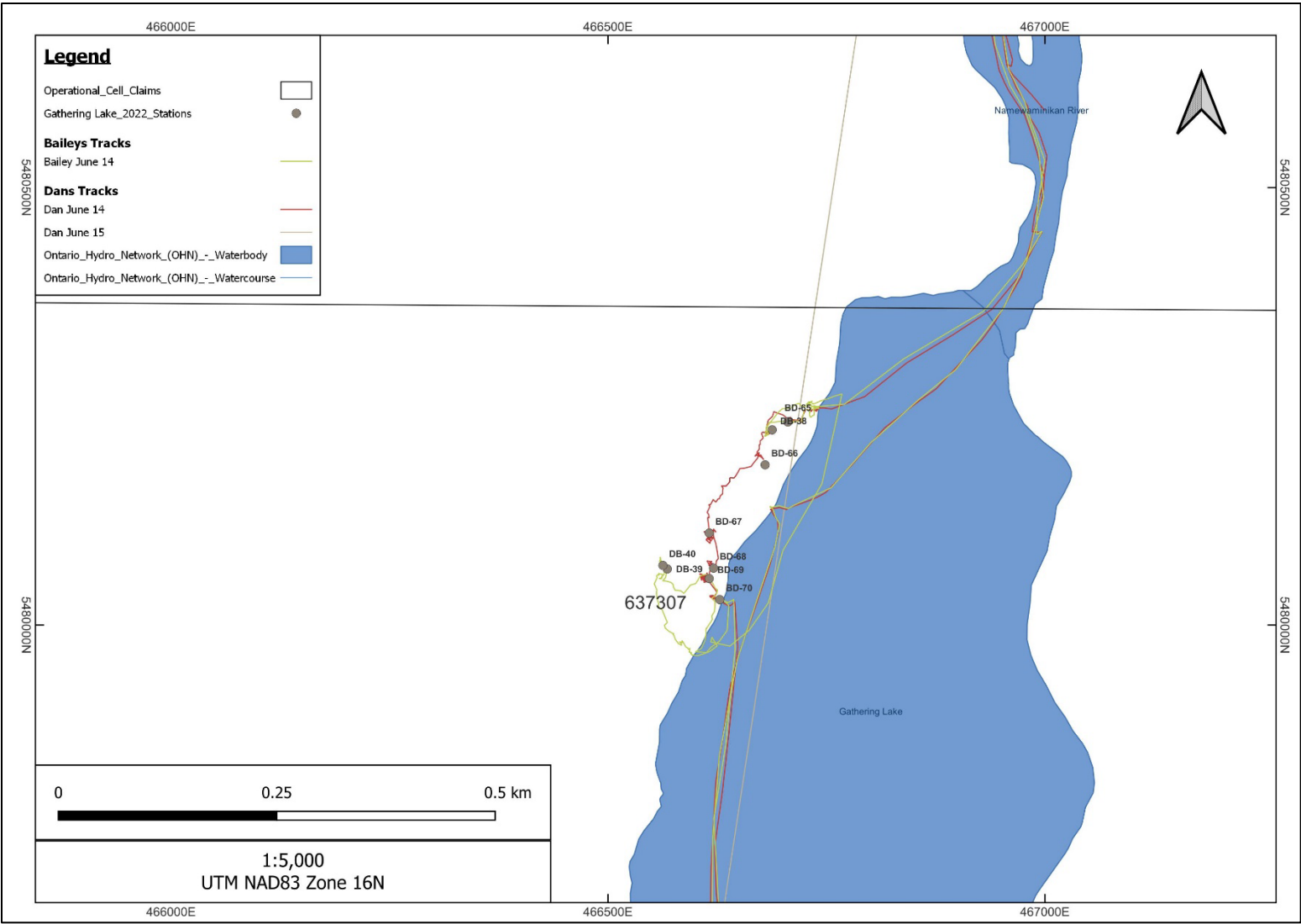


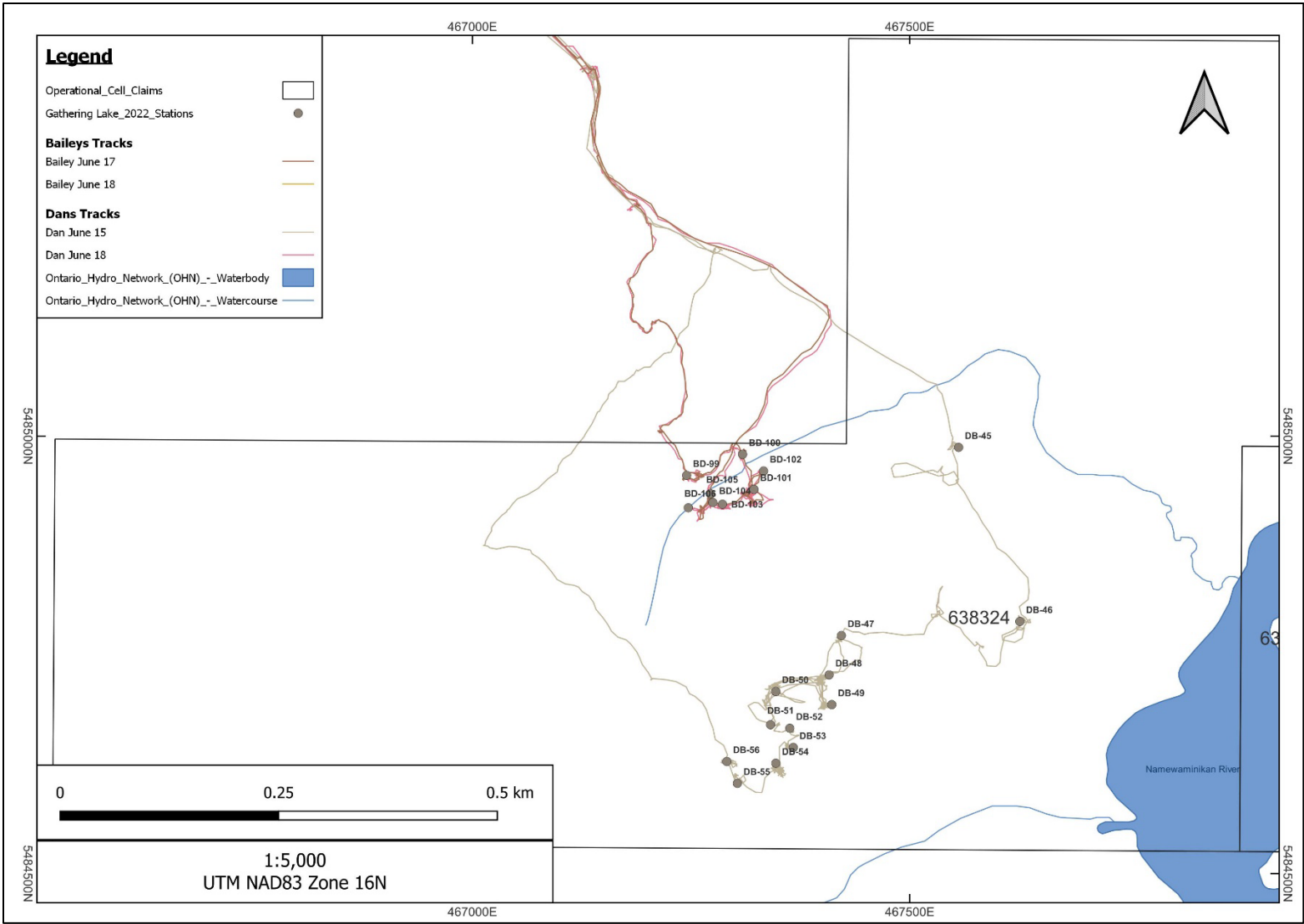




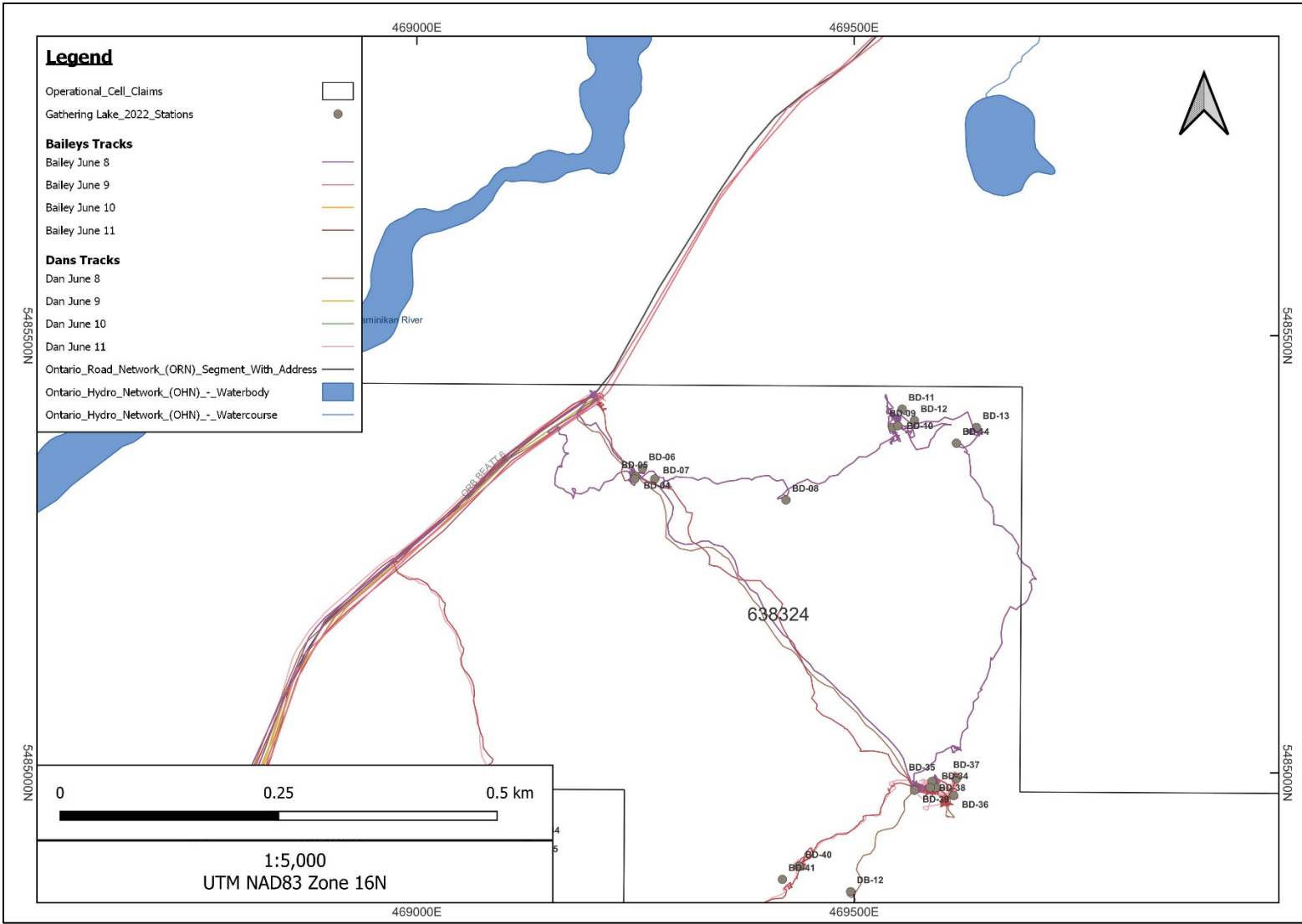












## APPENDIX C: DAILY WORK LOGS

Personell	Date	Details	Samples
Bailey/Ashley	7-Jun-22	Location: Smallest claim block of Gathering Lake Property Objective: Locate and sample pegmatites Notes: Was not able to find any pegmatites – no samples taken. Bush was swampy and covered in at least 45 cm of overburden and till. Not ideal for outcrops.	-
Daniel/Nathaniel	7-Jun-22	Location: Claim block 632260. Objective: Find and sample pegmatites. Notes: No pegmatites noted. When present, outcrops occur at topographic lows. Abundant garnets in metasedimentary rocks and float.	-
Bailey/Ashley	8-Jun-22	Location: Northern claim block of Gathering Lake property Objective: Locate and sample pegmatites Notes: Pegmatites found near end of day – will revisit. On quick glance, pegmatites appear barren. Rock saw will be necessary for some of the samples.	B1104501
Daniel/Nathaniel	8-Jun-22	Location: Claim block 637308 and 638324 Objective: Find and sample pegmatites. Notes: Rock saw needed for one of the LCT pegmatite sampled (DB-05 (B 1104751). At one of the outcrops, there's a pegmatite with a splay. Main pegmatite trends 004 and splay trends 062.	B1104751 - B1104753
Bailey/Daniel/Ashley/Nathaniel	9-Jun-22	Location: North-western corner of claim 637876 and road side outcrop in claim 637875. Objective: Locate and sample pegmatites Notes: We traversed as a group of four due to active bear baiting in the area. The bush in claim 637876 is mostly covered in overburden and moss (sphagnum?). Kind of marsh like. Not a lot of outcrop within the area. At the beginning of the day, we stopped at a road-side outcrop (station BD-16, claim 637875) where we found a pegmatite with lepidolite. This area has quite a bit of flat exposure aligned perpendicular to the road. Two samples were taken here – the rock saw was necessary for both. We will head back to this area and follow the exposure to look for more pegmatites. This road side outcrop also has flagging tape off the road to indicate active bear baiting within close proximity.	1104502 - B1104507, B1104754
Bailey/Ashley	10-Jun-22	Location: Western area of claim block 637876 and road side outcrop in claim block 637875. Objective: Find and sample pegmatites. Notes: We followed and stripped portions of a granite ridge in claim 637876 but only found one barren pegmatite. Stations marked BD-30 all occur along the ridge. The pegmatite occurrence was flat and thin (10 cm) so we weren't able to get a sample. After a while we decided to move onto another area as this area did not appear to be prospective. We continued on to a large granite exposure we came across on June 9 (claim 637875) to continue looking for pegmatites. We took 3 samples with the rock saw at this exposure – 1 was an LCT pegmatite (no spod) that hosted fg oxides and the other 2 are barren pegmatites.	B1104508 - B1104511
Bailey/Daniel/Ashley/Nathaniel	10-Jun-22	Location: Claim blocks 637876, 637875 and 632259. Objective: Prospect and sample pegmatite on ridge visible in satellite images via QGIS. Notes: Local bear hunters are now exiting the area. Baits are no longer active. Ridge prospected from the east showed dominantly granite with mm quartz veining. Ridge surrounded by mixed cedar/alder swamp and poplar stands. Moved east midday to follow LCT/lepidolite occurrence (BD 16/B1104502). Utilized rock saw for additional pegmatites in area. Finished the day with scouting future road access in claim block 632259 and sampled a LCT pegmatite at roadside. 2 meters of exposure was possible before losing before till. Pervasive columbo tantalite.	B1104755

Personell	Date	Details	Samples
Baily/Daniel/Ashley/Nathaniel	11-Jun-22	<p>Location: Claim blocks 638324 and 637308.  Objective: Find and sample pegmatites in northern claim as team of four.  Notes: Traveled as a team of 4 with rock saw strapped to backpack. Targeted ridge in high priority northern claim (638324). The ridge has many pegmatites in proximity. Split the ridge from previous traverse lines to cover additional ground. Descending ridge heading west only showed out crop at base of hill. Collected remaining sample from DB 011 and confirmed coordinates.</p> <p>10 total new stations (BD 34-44), 11 with completion of DB 011.</p>	B1104512 - B1104516, B11045756
Bailey/Ashley	12-Jun-22	<p>Location: Southern area of claim 632259.  Objective: Find and sample pegmatites  Notes: Started at station BD-46. Travelled east 740m to station BD-47 where the ridge begins. Followed the ridge NE. The ridge appears to be a solid pegmatite. At some locations (between stations BD-50 and BD-51) we were able to follow a solid wall of pegmatite for approximately 50m. No contacts of the pegmatite were seen along the top or sides of the ridge. The pegmatite itself is mostly barren with a few possible LCT exceptions where oxides with rusty rims are viewable. An unknown fine grained green-grey mineral that occurs in radial aggregates was noted at most stops. Not all stations were sampled due to the possibility of the ridge being one pegmatite.</p>	B1104517 - B1104519
Daniel/Nathaniel	12-Jun-22	<p>Location: Claim block 632259.  Objective: Find and sample pegmatites.  Notes: Prospected the southern ridge in claim block 632259. Road in was truck accessible up until the log bridge. Reached first ridge at 9:00 am from the lodge, 35-minute hike in from road. Left BD at first ridge and flagged pegmatite on way to second southern ridge. Second southern ridge was entirely pegmatite and is outline by DB stations. Pegmatites are mostly barren excluding the fibrous green mineral (possibly muscovite-quartz intergrowths). Stripped outcrop looking for spodumene/ LCT minerals to no success. Returned to camp to fuel saw/ access water, returned to field to assess and sample roadside outcrop.  Stations DB 20 – DB 25</p>	B1104757 - B1104758
Bailey/Ashley	13-Jun-22	<p>Location: Claim block 632259.  Objective: Find and sample pegmatites.  Notes: Followed north-east trending ridges. Ridges appear to be solid pegmatite – no contacts of pegmatites with host rock were found. An outcrop of aplite was seen which contained very fine-grained garnets in a quartz-feldspar rock. The aplite lacked mafic mineral phases. No contact was found, but the aplite was sampled. A 1 m wide quartz core was also seen further down the ridge– the strike of the core could not be determined as it occurred in an eroded ridge, but the strike of the ridge was approximately 310. Ashley and I heard a few branches snap in the direction we were walking from on a few separate occasions. After the snapping of branches got really close, we decided to radio the other field team to work within the general area we were in.</p>	B1104521 - B1104527
Daniel/Nathaniel	13-Jun-22	<p>Location: Field work focused in claim block 632259.  Objective: Find and sample pegmatites.  Notes: Outcrops were targeted based on satellite images. 5 LCT pegmatites and 6 barren pegmatites were noted within the area. LCT pegmatites are marked by the presence of columbite-tantalite with rusty rims. No spodumene noted. 7 samples collected (5 LCT pegmatites and 2 barren pegmatites).</p>	B1104759 - B1104766

Personell	Date	Details	Samples
Baily/Daniel/Ashley/Nathaniel	14-Jun-22	Location: Western shoreline outcrops of Gathering Lake were assessed and sampled via boat. Outcrops are located in claims 637307 and 638325. In claim block 637307, 6 outcrops were found – 4 barren pegmatites and 2 granitic outcrops. Pegmatites were classified as barren on the basis of lacking oxides, abundant tourmaline and/or garnet and a lack of beryl or spodumene. Further south, in claim block 638325, 7 outcrops were seen – 2 barren pegmatites and 5 granites. Objective: Find and sample pegmatites.	B1104528 - B1104532
Daniel/Nathaniel	14-Jun-22	Location: Portion of central claim on gathering lake Objective: Find and sample pegmatites.  Shot rapids up stream with rental boats from lodge owner. Fast water at mouth opposite camp followed but safe water at a moderate speed. Shallow water at bend before lake. Lodge owner advised stay right to avoid rocks. Ridge dominantly composed of pink/ cream granite. Frequent exam[ple]s of 10 cm to 50 cm Pegmatite dykes running N to NE. Cleared ridge as team of four, highly adverse terrain along cliff side. Returned due to inclement weather, made two trips due to sample weight and speed of current. DB 37 to DB 44	B1104793
Bailey/Ashley	15-Jun-22	Location: Started off the day in the northern most portion of claim block 637874 – along the main road. Satellite images show potential outcrop, but after assessing the clearings it was determined that these were actually gravel pits or marshes. The terrane here consists of marshes, numerous down trees and deep soil, much like claim block 632260. For this reason, we decided to move onto a different area. We scouted an UTV trail in claim block 637305 where we found a barren pegmatite outcrop, which we were able to sample. After scouting the road, we assessed roadside outcrops in claim blocks 637305 and 637306 for pegmatites – one outcrop in particular (station BD-90) hosts numerous (>10) pegmatites ranging from 15 cm – 4 feet in width. All pegmatites are white and exposed along flat outcrop. They also appear barren. Sampling would require a rock saw.	B1104533
Daniel/Nathaniel	15-Jun-22	Location: West of lake on Northern claim. Objective: Asses access to North west zone of interest and find and sample pegmatites. Most west road from camp visible from satellite image provides best access to zone of interest. Multiple eskers along road. Ridge prospected hosted multiple pegmatite splays. Splays varied in size from 5 to 50 Cm but typically had a North by North East trend or were closer to East-West. Splays showed variance in mineralogy, and abundance in the typical pegmatite within the project area. DB 54 (B1104771) specifically hosts garnet, columbo tantalite and possible Beryl. This appeared within the apalitic zone within along the south eastern portion of the ridge.	B1104767 - B1104772
Baily/Daniel/Ashley/Nathaniel	16-Jun-22	Location: Field work focused on satellite images of potential outcrop in claim blocks 632259, 638325 and 637307. 11 occurrences of barren pegmatite were noted. These pegmatites had a lack of lithium-bearing minerals, oxides, tourmaline and beryl. Black muscovite books (commonly colorless to light green when flaked) were common. Of the 11 pegmatites, only 6 were sampled. Rock saw was needed for most samples. One aplite sample was also taken. Objective: Find and sample pegmatites.	B1104534 - B1104538; B1104773 - B1104774
Bailey/Ashley	17-Jun-22	Location: Targeted a NE trending ridge in claim 638324 viewable via satellite images. When inspected, the ridge appeared to be metasedimentary units. 1 barren pegmatite was found in the ridge (station BD-104) and sampled. After clearing the ridge, we moved on to the northern portion of claim 632259. 5 barren pegmatite occurrences were found over 2 NE trending ridges. 3 of the pegmatites were sampled. Objective: Find and sample pegmatites.	B1104539 - B1104543

Personell	Date	Details	Samples
Bailey/Ashley	18-Jun-22	<p>Location: All work on June 18 focused in the southern portion of claim block 632259.</p> <p>Objective: Find and sample pegmatites using satellite images showing outcrops.</p> <p>Satellite images of the southern portion of claim block 632259 were used to target outcrops. Outcrops seen include granite, metasedimentary units, 5 pegmatites, 1 leucogranite and 1 aplite occurrence. All pegmatites seen were classified as barren based on its apparent lack of oxides, li-bearing minerals or an abundance of tourmaline and garnet. All pegmatite occurrences were sampled in addition to the aplite occurrence noted in station BD-122. Stations BD-121, BD-122 and BD-123 occurred within a leucogranite ridge about 10 m long. Aplite and pegmatite within this outcrop had very cryptic contacts due to the crevasse nature and weathering pattern of the ridge. Outcrop in this area is sparse due to the abundance of swamp with thick sphagnum moss.</p>	B1104544 - B1104549
Daniel/Nathaniel	18-Jun-22	<p>Location: Southeastern claim block</p> <p>Objective: prospect outcrops visible from satellite images and find and sample pegmatites.</p> <p>Out crops highlighted from satellite map were found and sampled when pegmatite was present. Well foliated meta sedimentary rock was present as both host for pegmatite and as enclaves within pegmatite/granite. Aplite was present in outcrop but was unavailable for a separate sample without the rock saw. Ridge/ plateau to the southeast (DB 66 – DB 76) was often covered in roughly a 20 cm of over burden but was accessible along whale backs and along the edges. Fibrous mineral was more prominent the farther east we moved, ridge mostly barren save red/orange garnet within the aplite. Scouted North east road to northern claim block. Road is grown in but traversable with UTV. Roughly 3 days work to clear road onto claim.</p>	B110475 - B110485
Bailey/Ashley	19-Jun-22	<p>Location: Todays field work focused in the southern portion of claim 637305 and the northern portion of claim 637309.</p> <p>Objective: Find and sample pegmatites.</p> <p>Notes: Outcrops were targeted based on satellite images. Four samples of barren pegmatites (possible LCT type) were sampled. Pegmatites within this area host fine grained garnets with possible tantalite and fine-grained green beryl. Ended the field day early due to poor weather conditions.</p>	B1104551 - B1104554
Daniel/Nathaniel	19-Jun-22	<p>Location:637309</p> <p>Objective: Find and sample pegmatites.</p> <p>Notes: Rain in morning, 12°, Drove UTV through moderately grown in UTV trail, dropped off BD along road to prospect Northeast ridge. Targeted ridge starting along southwestern boundary. Out crop was expansive and continued across sampled stations. Upon prospect of looming thunderstorms decided to push UTV farther down to assess outcrop along southern portion of ridge. Outcrop had little sign of stopping ontop of roughly 60 m ridge. Attempted to replicate historic occurrence of columbo tantalite and found bands of semi pervasive mineralization. Finished day with data work and QAQC.</p>	B1104786 - B1104792











Station ID	Sample ID	Easting	Northing	Elevation	Alt_1	Alt_1_Inte	Alt_1_Styl	Alt_2	Alt_2_Inte	Alt_2_Styl	Minz_1	Minz_1_Per	Minz_1_Sty	Minz_2	Minz_2_Per	Minz_2_Sty	Minz_3	Minz_3_Per	Minz_3_Sty	Notes	
BD-01		465736	5482567																	Metasedimentary rocks	
BD-02		465997	5482484																	Metaseds with garnet and possible staurolite	
BD-03		466266	5482463																	Metaseds	
BD-04		469250	5485339																	Metased subcrop with tiny garnets	
BD-05	B 1104501	469249	5485336								Columbite-Tantalite	5	Pervasive							Coarse grained with fine to medium columbite-tantalite. Green mica books. No beryl, tourmaline or spod. Boulder, likely float.	
BD-06		469258	5485348																	Metaseds.	
BD-07		469272	5485336																	Fine grained metaseds.	
BD-08		469422	5485312																	Tiny garnets.	
BD-09		469544	5485393																	Possibly within old blast pit. Medium sized depression.	
BD-10		469550	5485397																	Few small metased outcrops in possible old blast pit. No pegmatites.	
BD-11		469555	5485416																	Few metased subcrops without pegmatites.	
BD-12		469569	5485403																	Conglomerate.	
BD-13		469640	5485393																	Possible minor splays (3cm thick) of pegmatite but could not follow under overburden.	
BD-14		469617	5485377																	Subcrop	
BD-15		460222	5479378																	Large granite exposure with small pegmatitic dykes. Outcrops are extremely flat - requires rock saw. Active bear baiting within area. Several points will be taken for granite and pegmatites.	
BD-16	B 1104502	460216	5479375								Muscovite	15	Pervasive	Tourmaline		5	Pervasive	Columbite-Tantalite	8	Pervasive	About 50 cm wide pegmatite trending roughly 035. Coarse grained muscovite books. Hosted in granite. Active bear baiting. Road side.
BD-17		460243	5479377																	Flat granite exposure.	
BD-18	B 1104503	460242	5479372								Muscovite	5	Pervasive							Pegmatite is zoned - 10 cm apilite border and at least 40 cm wide intermediate zone (LCT pegmatite). Sample is the LCT pegmatite. Contact structure is the strike of the intermediate and apilite contact.	
BD-19	B 1104504	460241	5479371																	Same photos as station BD-18. Border zone of BD-18 pegmatite.	
BD-20		457677	5479660																	Very fine to fine grained. Trace garnets.	
BD-21		457681	5479631																	Very fine grained. Quartz veining.	
BD-22		457725	5479610								Muscovite	5	Pervasive							Fine to medium leucogranite	
BD-23	B 1104505	457720	5479604								Muscovite		Pervasive	Columbite-Tantalite		1	Pervasive			Coarse grained pegmatite with minor columbite-tantalite	
BD-24		457754	5479567																	Fine to medium grained	
BD-25		457747	5479545																	Fine grained with minor muscovite.	
BD-26		457747	5479544								Muscovite	10	Pervasive							Coarse 5 cm long muscovite books.	
BD-27	B 1104507	457844	5479602								Muscovite	5	Pervasive							At least 2 m wide, not able to dig up contact. Coarse grained. Coarse mica books. No tantalite.	
BD-28		458484	5479898																	Fine grained. Road side.	
BD-29		458508	5479865																	Road side outcrop. Fine grained.	
BD-30		458508	5479804																	Granite ridge starting right off road.	
BD-31	B 1104508	460239	5479403								Muscovite	20	Pervasive	Columbite-Tantalite		1	Pervasive			Wide pegmatite (4m) that appears almost spotty due to the weathering nature of the outcrop. About a 40 cm qtz core that was not sampled.	
BD-32	B 1104509	460252	5479391								Muscovite	20								Barren pegmatite. Coarse grained. No beryl, spod, tour or columbo-tantalites.	
BD-33	B 1104511	460284	5479387								Muscovite	20								20 cm pegmatite dyke. 3 cm wide muscovite books.	
BD-34		469593	5484983																	Granite ridge with numerous small pegmatites. Stripping along ridge.	
BD-35		469589	5484990								Muscovite	5	Pervasive							15 cm wide barren pegmatite. No oxides, Li-bearing minerals or beryl. Trending 155.	
BD-36	B 1104512	469614	5484974								Muscovite	5	Pervasive	Columbite-Tantalite		1	Pervasive			Approximately 50 cm wide coarse pegmatite with minor columbite-tantalite. Looks to be a historic road - road shows up on 1 of the GPSs. Road needs clearing to be used.	
BD-37	B 1104513	469617	5484993								Columbite-Tantalite	5	Pervasive							Set of 3 narrow 10-15 cm pegmatites all trending 073. Only sampling 1. Possible columbite-tantalite indicated by rust halo around mineral.	
BD-38	B 1104514	469587	5484983								Columbite-Tantalite	1	Pervasive							Really thin, likely eroded. Trace oxides. Appears as a rectangular exposure.	
BD-39	B 1104515	469569	5484980								Columbite-Tantalite	2	Pervasive	Muscovite		10	Pervasive			5 cm wide pegmatite with 1 cm wide quartz core.	
BD-40		469437	5484893																	Granite ridge.	
BD-41		469418	5484878																	Ridge.	
BD-42	B 1104516	469232	5484710								Muscovite	10	Pervasive	Columbite-Tantalite		5	Pervasive			50 cm and zoned. 3 zones apparent from rock saw sample - apilite, intermediate zone with oxides and a 10 cm quartz core. Apilite and intermediate zone sampled together.	
BD-43		469114	5484897																	Red staining, minor foliation	
BD-44		469126	5484921																	Granite	
BD-45		469121	5484913																	Granite. Going down hill.	
BD-46		467546	5481032																	Road side.	
BD-47	B 1104517	468254	5480820								Columbite-Tantalite	1	Pervasive	Muscovite		2	Pervasive	Tourmaline	1	Disseminated	Pegmatite wall exposed along ridge. Wall itself extends 50m. No contacts found, wall strikes 40E.
BD-48	B 1104518	468278	5480837								Muscovite	4	Pervasive							Coarse grained and white. No contacts can be seen. One side of the pegmatite is exposed along wall face.	
BD-49		468299	5480852								Muscovite	15	Description							The ridge seems to be a continuous pegmatite. No oxides, beryl or spod present but abundant muscovite books (2 cm wide) present. Unknown mineral present.	

Station ID	Sample ID	Eastng	Northing	Elevation	Alt_1	Alt_1_Inte	Alt_1_Styl	Alt_2	Alt_2_Inte	Alt_2_Styl	Minz_1	Minz_1_Per	Minz_1_Sty	Minz_2	Minz_2_Per	Minz_2_Sty	Minz_3	Minz_3_Per	Minz_3_Sty	Notes
BD-50	B 1104519	468311	5480872								Muscovite	10	Pervassive	Columbite-Tantalite	2					Another peg following the ridge, exposed along wall. Possible oxides.
BD-51		468330	5480897								Muscovite	6	Pervassive							Followed wall of pegmatite from BD-50. No sample.
BD-52		468402	5480915																	On top of ridge - no contacts. No oxides or spots. Not sampled.
BD-53		468270	5481114								Muscovite	5	Pervassive							Little ridge, need rock saw.
BD-54		468197	5481164								Muscovite	10	Pervassive							Coarse grained pegmatite
BD-55	B 1104521	468069	5481246								Muscovite	6	Pervassive							Pegmatite ridge trending roughly east. Pegmatite appears barren. Muscovite occurs in books. No contacts found.
BD-56	B 1104522	468133	5481207								Muscovite	5	Pervassive							Minor ridge trending roughly east. Ridge appears to be all pegmatite - no pegmatite contacts seen.
BD-57	B 1104523	468176	5481180								Muscovite	10	Pervassive							Barren pegmatite exposed along NE trending ridge. Peg has no oxides. Muscovite books are common. Coarse grained.
BD-58		468205	5481215								Muscovite	7	Pervassive							Continuation of ridge from BD-57. Pegmatite look similar. No sample taken.
BD-59	B 1104524	468251	5481258								Muscovite	6	Pervassive							Pegmatite ridge, NE trending ridge.
BD-60	B 1104525	468342	5481291								Garnet	6	Pervassive							Very fine grained garnet within a very fine grained quartz-fsp white to pink rock. Located on east trending ridge.
BD-61		468377	5481311																	1 m wide quartz core in pegmatite ridge. Could not find contact.
BD-62		468417	5481339								Muscovite	4	Pervassive							Coarse grained barren pegmatite. No contact seen. Exposed along ridge wall trending 260.
BD-63	B 1104526	468470	5481495								Muscovite	5	Pervassive							White pegmatite along NE trending ridge.
BD-64	B 1104527	468349	5481375								Muscovite	5	Pervassive							Continuation of NE-trending ridge (BD-63). White pegmatite.
BD-65		466706	5480232								Muscovite	1	Pervassive							Coarse grained pink barren pegmatite. Very little muscovite. No contact seen. Exposed along S striking ridge.
BD-66		466680	5480183																	Fine grained granite.
BD-67	B 1104528	466616	5480105								Muscovite	4	Pervassive							Pegmatite exposed along ridge trending 168.
BD-68		466621	5480065																	Fine grained granite exposed along ridge
BD-69	B 1104529	466616	5480053																	Pegmatite exposed along N trending wall. No contacts found.
BD-70		466628	5480029																	Exposed along N-trending ridge. 1 m wide pegmatite.
BD-71		466540	5479212																	Tiny granite outcrop.
BD-72	B 1104531	466439	5479324								Muscovite	5	Pervassive							Pegmatite exposure viewable view satellite imaging. Pegmatite is white to light pink with weak biotite and muscovite.
BD-73		466474	5478732																	Fine grained granite wall exposed along shoreline.
BD-74		466478	5478750																	Granite outcrop with a 40 cm wide pink barren pegmatite splay trending roughly north. Not sampled.
BD-75		466524	5478894																	Fine grained granite exposed along shore.
BD-76	B 1104532	466512	5478903								Muscovite	1	Pervassive							Found along shore line. Wall of coarse grained white pegmatite. Little muscovite.
BD-77		466538	5479074																	Granite along shore line.
BD-78		464153	5482075																	Series of metased boulders - likely subcrop.
BD-79		464135	5482007																	Metased float.
BD-80		463759	5481860																	Outside of claim.
BD-81		462543	5480109																	Large roadside metasedimentary outcrop.
BD-82		462490	5480070																	Road side metasedimentary outcrop with 15 cm wide pegmatite dyke. Dyke trends 078. Very flat - requires rock saw. Appears barren.
BD-83		462458	5479694																	Metased outcrop located along UTV path
BD-84	B 1104533	462934	5479453								Garnet	1	Pervassive	Muscovite	6	Pervassive				Pegmatite outcrop along side of UTV trail. Coarse grained with f.g garnet. Lots of green muscovite.
BD-85		462600	5480097																	Road side metased outcrop
BD-86		463585	5480117								Muscovite	3								1 m wide barren pegmatite within creek. Peg is white with minor muscovite. Not sampled - requires rock saw.
BD-87		464552	5479341								Muscovite	2	Pervassive							2 pegmatites within outcrop. First one trends 073. Flat lying - requires rock saw. Minor muscovite, appears barren.
BD-88		464548	5479346								Muscovite	2	Pervassive							This pegmatite requires a rock saw to sample it. Hosted within granite. Trends 080. White to light pink with minor muscovite. Has been previously sampled by someone else - no witness sample tags.
BD-89		464916	5478293								Muscovite	1	Pervassive							Flat lying pink pegmatite hosted in granite. Appears barren but difficult to tell w/o rock saw sample. Trends 082.
BD-90		464945	5478031								Muscovite	3	Pervassive							Numerous pegmatite (>10) mainly strike East. Station corresponds to polygon and lines. Flat - rock saw needed to sample. Width ranges from 15 cm to 4 ft. Hosted in granite.
BD-91	B 1104534	468601	5482108								Muscovite	5	Pervassive	Garnet	1	Disseminated				Coarse grained pink pegmatite with long muscovite books and occasional rare garnet. At least 3 m wide. Only 1 contact seen- highly irregular.
BD-92	B 1104535	468443	5482047								Muscovite	5	Pervassive							15 m wide and 40 m long pegmatite ridge. Coarse grained white pegmatite. Ridge trends 093. No pegmatite contacts seen. Very little muscovite.
BD-93		467637	5479118																	Muscovite biotite granite.
BD-94	B 1104536	467639	5479116														Muscovite	5	Pervassive	Pink pegmatite. No contacts
BD-95	B 1104537	467582	5479030								Muscovite	2	Pervassive					0		Road side outcrop about 50 m wide. Majority of outcrop is a white to light pink pegmatite with patchy hematite alteration. Angular metasedimentary enclaves. One contact of peg with granite seen.
BD-96		467542	5478999								Muscovite	2	Disseminated							Likely a continuation of pegmatite in BD-95. Not sampled.
BD-97	B 1104538	467576	5479179								Muscovite	9	Pervassive							Coarse grained white pegmatite at top of ridge. Ridge connects to DB-58. Possible that this pegmatite is horizontal based on DB-58. Sketch in notes.
BD-98		467385	5479444								Muscovite	4	Pervassive							Black and white peg - no oxides. Mica books common. Extension of ridge noted in BD-97 and DB-58.
BD-99		467245	5484955																	Metased ridge trending NE. Vf.g.



Station ID	Sample_ID	Eastng	Northng	Elevation	Alt_1	Alt_1_Inte	Alt_1_Styl	Alt_2	Alt_2_Inte	Alt_2_Styl	Minz_1	Minz_1_Per	Minz_1_Sty	Minz_2	Minz_2_Per	Minz_2_Sty	Minz_3	Minz_3_Per	Minz_3_Sty	Notes
DB-07	B 1104751	468732	5484722																	Splayed pegmatite 10-35 cm. 2 splays. Structure 1 represents 35 cm splay. Kspar qtz and muscovite. Hosted in salt and pepper granite. Splay outlined with red zip tie in photo. Photo facing north.
DB-08	B 1104752	469203	5484702																	10 cm fractured splay of pegmatite hosted in salt and pepper granite.
DB-09	B 1104753	469197	5484709								Columbite-Tantalite	1	Disseminated							67 cm pegmatite proximal to splay. Mostly kspar and quartz, minor sulphides
DB-10		469223	5484654																	Similar metased to other previous stations. Possibly subcrop/ frost heave. Cut by granite
DB-011	B 1104756	469286	5484743								Columbite-Tantalite	2	Disseminated							40 cm splayed pegmatite at top of ridge. Pegmatite is a pink cream color. Sampled with saw. Structure 1 is main pegmatite trend. Structure 2 is splay.
DB-11		469467	5484798		Silica	Moderate	Veins													Pegmatite along ridge, requires saw.
DB-12		469496	5484864																	Granite whole back large outcrop
DB-15		457708	5479613																	Metased - possible mafic volcanic with amphibole
DB-16	B 1104754	458297	5479592																	1 and 1/2 meter pegmatite at base of ridge. Barren no tantalite. Thick mica books. Smaller than previous sample.
DB-17		457938	5479802																	Meta sed outside swamp similar to previous meta sed
DB-18		458099	5479531																	Distinct white coloration to granite 10 centimeters across surrounded by typical local granite
DB-19	B 1104755	468759	5482391								Muscovite	1		Columbite-Tantalite		2	Disseminated			At least 2 m wide pegmatite at road side on Mcknight road. Traced into Bush line and lost in till. Contact with granite trends NE. Pen cap points north. CT rims / interstitial to feldspar
DB-20		468452	5480819																	Pegmatite at start of southern most ridge. Medium mica
DB-21		468490	5480842																	Continuation of pegmatite ridge
DB-22		468504	5480869		Hematite	Weak	Patchy													Start of south ridge pegmatite. See video walk through
DB-23	B 1104757	468531	5480876		Hematite	Weak	Surficial				Muscovite	3	Disseminated							Rusty Pegmatite tree crop. Grain size and quartz are zoned
DB-24		467570	5480856																	Meta sed out crop at road side. Prominent quartz veining shows parallel orientation across outcrop.
DB-25	B 1104758	468320	5481465								Muscovite									Pegmatite just within claim at road side. Required rock saw. Green fibrous mineral present. Ridge trends 60 and is entirely pegmatite.
DB-26		467888	5481331																	Pegmatite just off claim in contact with granite/metased? Well foliated red brown cream. Pegmatite over lies the meta sed. Photos facing east.
DB-27	B 1104759	467934	5481260		Hematite	Weak	Patchy				Columbite-Tantalite	2	Disseminated	Muscovite		2				Continuation from DB 26 pegmatite ridge roughly 15 m across white coarse crystals with fibrous splays. Coarse grained Columbotantalite.
DB-28	B 1104761	467945	5481193		Hematite	Weak	Patchy													LCT on side of ridge. Weak CT. Zoned quartz cream color. No available contact
DB-29	B 1104762	467910	5481186		Hematite	Weak	Patchy				Muscovite	2	Disseminated	Columbite-Tantalite		0.7				Continuation of pegmatite ridge, transition to finer grained aplite. Sampled proud ridge. Weak red alt.
DB-30		467877	5481202																	Pegmatite with metased enclave. Pegmatite seems to run under meta sed. Meta sed can be cut by knife and is sand in hand. Fibrous mineral present in outcrop.
DB-31	B 1104763	467874	5481198		Hornblende	Weak	Patchy				Columbite-Tantalite	1	Disseminated	Garnet		5	Disseminated			Pegmatite in proximity to possible contact, orange red alteration, possibly hematite.
DB-32	B 1104764	467832	5481189								Muscovite	1		Columbite-Tantalite		0.5				Outcrop where pegmatite ridge dies into till
DB-33		467833	5481237																	Granite ridge 200m from road.
DB-34		468285	5481273																	Continuation of ridge from BD, Barren, thick over burden. Finger-pointing north.
DB-35	B 1104765	468365	5481290								Garnet	3	Disseminated							Pegmatite on side of ridge with garnets & grey fibrous minerals.
DB-36		468468	5481353																	Barren pegmatite in line with ridge pink cream feldspar. Buried under till.
DB-37	B 1104766	468459	5481340		Hematite						Muscovite									Outcrop at end of ridge. Coarse lathic muscovite. Slight brown rust hue.
DB-38		466688	5480223																	Granite ridge 50 meters in from river side. Pink white fine grained granite. Top of OC covered in till/ trees. No pegmatite
DB-39		466568	5480064																	Pink red pegmatite trending NE along cliff side. Require rock saw. No visible CT (columbo tantalite) or other mineralization. 90 meters up cliff from lake side.
DB-40		466563	5480068																	Two parallel syenite dykes that appear to cross cut DB 39 OC. 10 cm wide.
DB-41		466536	5479256																	Pegmatite splay/ dyke in contact with ridge. Pink white, barren.
DB-42		466433	5479265																	Granite along ridge south from BD pegmatite. Some coarse grained feldspar. Dominantly pink white with possible amphibole.
DB-43	B 1104793	466498	5478772								Garnet									Granite OC with 50 cm splay. Minor garnets.
DB-44		466494	5478907																	Barren pegmatite along ridge, creamy white. No sample.
DB-45		467556	5484987																	Meta sed with veining.
DB-46		467626	5484788																	Granite with metased xenolith. Contact obscured by silty clay.
DB-47		467422	5484772																	Granite dyke hosted within brown meta sed. Along large ridge visible from sat image.
DB-48	B 1104767	467408	5484727								Columbite-Tantalite	2								Dominantly granite ridge with pegmatic splays. Traced peg south 10 m and sampled tree crop. Additional samples of peg would require rock saw. Large rust circles around CT
DB-49	B 1104768	467411	5484693								Columbite-Tantalite	1	Disseminated	Pyrite		1	Disseminated			Aplite zone? Finer grained pegmatite down hill from DB 48, rust rims around columbotantalite and pyrite
DB-50		467347	5484708																	Large 2m pegmatite splay west of initial hill. Roughly 10 cm over burden. Patchy graphic to aplite type texture. Splay in contact with granite, dies before ridges.
DB-51		467341	5484670																	Quartz rich pegmatite splay hosted in granite. Need saw.
DB-52		467363	5484666																	Granite at base of hill no pegmatite.
DB-53	B 1104769	467367	5484644																	LCT along ridge wall, similar to qtz scab. Some granite in sample. medium-coarse grained with green mica.
DB-54	B 1104771	467347	5484626								Muscovite	1		Muscovite						Continued splay from DB 53. 40 cm wide and dies to granite.
DB-55		467303	5484603																	Pink white granite no pegmatite.
DB-56	B 1104772	467291	5484628								Muscovite	10	Disseminated	Columbite-Tantalite		1				Pegmatite 10 meters up ridge. Coarse green muscovite. Very fine columbo tantalite.
DB-57	B 1104773	468521	5482068																	Pegmatite ridge west of UTV road. Feldspar qtz and coarse mica. 3 meters across.

Station ID	Sample ID	Easting	Northing	Elevation	Alt_1	Alt_1_Inte	Alt_1_Styl	Alt_2	Alt_2_Inte	Alt_2_Styl	Minz_1	Minz_1_Per	Minz_1_Sty	Minz_2	Minz_2_Per	Minz_2_Sty	Minz_3	Minz_3_Per	Minz_3_Sty	Notes
DB-58	B1104774	467351	5479416								Muscovite		1 Disseminated	Garnet		1 Disseminated				White black pegmatite with apilite boarder. Contact is wavy. Apilite surrounds separate pegmatites, apilite sample collected down wall at corner edge. Photo taken on vertical wall.
DB-59		467505	5479554																	Barren pegmatite hosted by granite. East of ridge.
DB-60		467626	5479837								Muscovite		2 Pervasive							Pegmatite with coarse, pervasive muscovite. Requires rock saw.
DB-61	B1104775	467811	5479589								Muscovite		2 Disseminated	Columbite-Tantalite		1				Pegmatite with minor coarse grained columbite tantalite. Ridge is gradationally pegmatic with coarsest grains around the quartz core. Rough trend of qtz core is 138.
DB-62	B1104776	467839	5479532								Garnet		1							Pegmatite in contact with metased / metased block. Proud veining on metased. Minor apilite with garnets. Not enough for its own sample.
DB-63	B1104777	467828	5479538								Muscovite									Edge of DB 62 pegmatite, rusty quartz + amphibole? Pegmatite wedged from OC, possible that MSed wraps around?
DB-64		467872	5479589																	Meta sed OC with spotty peg. Brown and well foliated with minor veining
DB-65		468023	5479567																	Meta sed in clearing, no veins or contacts.
DB-66	B1104778	468136	5479562								Muscovite		3							Pegmatite along boulder ridge. Boulders composed of finer grained pegmatite. Pegmatite is coarse grained with coarse green mica and radial/plumage silicates.
DB-67	B1104779	468255	5479583								Muscovite		1							Large ridge with exposure along wall. Stringers of fine mica cut OC. Blocks of meta sed hosted within pegmatite. Pegmatite overlies meta sed.
DB-68		468203	5479552																	Pegmatite 20 m from DB 67 wall pegmatite. Rock saw needed, unknown fibrous mineral present.
DB-69	B1104781	468157	5479503								Muscovite		1							Pegmatite along eastern ridge, unknown fibrous mineral present along with dark green mica. Ridge extends to DB 70 before lost to over burden.
DB-70		468131	5479440																	South east from DB 69, coarse white crystal with rusty rim.
DB-71		468074	5479423																	Continuation or ridge - similar pegmatite, lacks fibrous mineral or rusty rim white mineral.
DB-72	B1104782	468056	5479419								Muscovite		1							Edge of large eastern plateau. Barren pegmatite, moderate to weak muscovite. Fibrous mineral present.
DB-73	B1104783	468032	5479446								Muscovite		1							Barren pegmat where ridge picks up again. Weaker muscovite. More quartz. Roughly a foot of till depth except for small whale backs and edges. Contact with metased trends roughly 140 but is irregular.
DB-74		468033	5479430																	Same pegmatite as previous - not sample.
DB-75	B1104784	468016	5479402																	Minor pegmatite ridge similar to previous. Edge available for sample. Unknown plumose mineral present. Minor rusty hue on weathered surface.
DB-76	B1104785	467967	5479370																	End of western ridge of barren pegmatite. Cream pink color with minor muscovite. Sampled from wedge.
DB-77		467911	5479409																	Metased west from long pegmatite ridge. Grey brown in color.
DB-78		467623	5479487																	Pegmatite hosted within metased. Clean contacts and requires rock saw for sampling. Veins in adjacent metased are folded.
DB-79	B1104786	461369	5477928								Muscovite		3 Disseminated	Columbite-Tantalite		2 Description				Cream colored pegmatite beside trail. Strong cleavage. Hosted in red pink granite. Splays across OC are sporadic but frequent. Gradational irregular contact. Photo facing north. Possible spodumene.
DB-80		461373	5477942																	Granite host to DB 79 pegmatite. Red pink moderate muscovite.
DB-81		461350	5477958																	Ridge from DB 83. Continues to 81 with flat OC and variable/ irregular grain size similar to base of hill pegmatite.
DB-82	B1104787	461382	5477967								Columbite-Tantalite		2 Disseminated	Muscovite		1 Pervasive				Tree wedge sub crop across road at base of hill. Fibrous mineral is present. Possible pegmatite ridge but carries to granite grain size.
DB-83	B1104788	461410	5477939		Hematite	Weak	Patchy				Muscovite		1 Disseminated							Large OC followed road continues E/SE. Mixed granite pegmatite.
DB-84		461395	5477949																	OC viable from sat images are composed of mostly barren pegmatite with mixed granite. Finer grained to the north.
DB-85	B1104789	461481	5477949																	Continuation of pegmatite ridge in proximity to historic sample. HS not found
DB-86	B1104791	461512	5477757								Muscovite		1							South ridge from satellite. Black specks in feldspar. Coarse smokey quartz eyes.
DB-87	B1104792	461477	5477690																	Outcrop at top of ridge. Overburden along slope. Pegmatite exposed at top and base. Barren.

# APPENDIX E: SAMPLE LOCATIONS AND GEOCHEMICAL RESULTS

Station_ID	Sample_ID	Easting	Northing	Elevation	Al_%	As_ppm	B_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Dy_ppm	Er_ppm	Eu_ppm	Fe_%	Ga_ppm	Gd_ppm	Ge_ppm	Ho_ppm	HF_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%
BD-05	B1104501	469249	5485336		6.9	2.5	30	11	144	1	0.21	1	0.4	0.4	40	16.2	1	0.15	0.05	0.05	0.53	34.4	3.5	3	0.1	5	0.1	0.7	0.6	71	0.005
BD-16	B1104502	460216	5479375		7.68	2.5	20	25	8	1	0.22	1	3	0.9	50	18.3	3	0.15	0.05	0.05	1.07	68	3.4	1.6	0.1	5	0.1	2.4	1.1	324	0.1
BD-18	B1104503	460242	5479372		7.3	2.5	5	69	8	1	0.35	1	3.6	1.8	40	15	17	0.15	0.05	0.05	0.46	29.3	0.2	2.7	0.1	5	0.1	2.7	1.7	100	0.02
BD-19	B1104504	460241	5479371		7.22	2.5	30	350	14	1	0.46	1	57.4	2.8	70	31.9	19	2.7	1.3	0.5	0.98	52.8	5.8	3.5	0.5	10	0.1	3.4	31.4	229	0.11
BD-23	B1104505	457720	5479604		6.81	2.5	5	63	1.5	1	0.13	1	1.8	0.9	40	38.8	1	0.4	0.2	0.05	0.55	19.1	0.3	2.6	0.1	5	0.1	4.9	0.6	7.5	0.06
BD-27	B1104507	457844	5479602		7.17	2.5	30	84	5	7	0.2	1	2.7	0.3	40	37.2	4	0.15	0.05	0.05	0.47	36	3.5	3.1	0.1	5	0.1	4.9	1.6	59	0.02
BD-31	B1104508	460239	5479403		7.84	2.5	20	101	5	1	0.12	1	1	0.5	40	71.5	6	0.15	0.05	0.05	0.63	40.3	3.9	2.7	0.1	5	0.1	6.8	0.5	84	0.05
BD-32	B1104509	460252	5479391		7.63	2.5	20	82	6	14	0.19	1	2.7	1.2	40	15.1	11	0.15	0.05	0.05	0.54	35.3	3.7	2.4	0.1	5	0.1	4.4	1.5	74	0.03
BD-33	B1104511	460284	5479387		5.66	2.5	10	66	6	1	0.05	1	1.3	0.7	50	44.2	4	0.15	0.05	0.05	0.46	24	4	2.8	0.1	5	0.1	5.4	0.2	38	0.02
BD-36	B1104512	469614	5484974		7.97	2.5	20	60	11	1	0.22	1	0.4	1.2	30	23.1	9	0.15	0.05	0.05	0.38	38.6	3.4	2.9	0.1	5	0.1	3.1	0.2	7.5	0.02
BD-37	B1104513	469617	5484993		7.53	2.5	5	153	6	1	0.51	1	7	0.7	40	19.1	6	1.1	0.4	0.05	0.6	31.1	3.6	2.2	0.1	5	0.1	4.6	3.6	27	0.04
BD-38	B1104514	469587	5484983		7.92	2.5	10	163	21	2	0.42	1	15.7	1	30	35.6	5	0.15	0.05	0.1	0.46	32	3	3.7	0.1	5	0.1	3	8.2	36	0.07
BD-39	B1104515	469569	5484980		6	2.5	20	42	6	1	0.25	1	1.7	1	40	11.2	6	0.15	0.05	0.05	0.37	18.9	2.8	2.3	0.1	5	0.1	4.2	0.7	7.5	0.005
BD-42	B1104516	469232	5484710		10.1	2.5	20	224	34	6	0.44	1	12.2	1.1	30	74.4	6	0.15	0.1	0.3	0.48	48.5	2.7	3.3	0.1	5	0.1	3.3	6.8	91	0.09
BD-47	B1104517	468254	5480820		7.3	2.5	10	120	3	1	0.33	1	7.5	2.9	50	3.4	3	0.7	0.4	0.2	1.3	28	3.2	2.2	0.1	5	0.1	2.7	4.2	7.5	0.36
BD-48	B1104518	468278	5480837		7.3	2.5	20	13	1.5	23	0.28	1	4	0.8	50	3.2	7	0.8	0.5	0.05	0.77	35.1	3	1.6	0.1	5	0.1	1.1	2	22	0.07
BD-50	B1104519	468311	5480872		7.48	2.5	10	27	4	1	0.19	1	1.3	0.6	50	9.9	5	0.5	0.3	0.05	0.59	37.1	2.7	1.9	0.1	5	0.1	4.1	0.8	7.5	0.03
BD-55	B1104521	468069	5481246		6.61	2.5	10	11	6	8	0.28	1	2.7	0.5	40	16	2	1.2	0.7	0.05	0.76	31.5	2.8	2.3	0.1	5	0.1	2.5	1.3	69	0.02
BD-56	B1104522	468133	5481207		8.35	2.5	20	155	4	4	0.3	1	4.1	1.3	40	11.7	9	0.8	0.3	0.2	0.54	32.7	3.1	2.6	0.1	5	0.1	4.2	2.4	7.5	0.08
BD-57	B1104523	468176	5481180		8.92	2.5	20	154	10	1	0.85	1	4.7	1	50	1	3	0.7	0.4	0.3	0.58	38.2	3.1	2.5	0.1	5	0.1	0.3	2.9	7.5	0.06
BD-59	B1104524	468251	5481258		7.14	2.5	5	46	1.5	4	0.08	1	1.4	0.8	40	31.3	6	0.4	0.2	0.05	0.34	22.2	2.4	2	0.1	5	0.1	6.6	1	7.5	0.005
BD-60	B1104525	468342	5481291		7.31	2.5	5	12	6	6	0.38	1	2.9	0.3	30	19.4	1	1.6	1	0.05	0.73	28.3	2.4	3.3	0.3	5	0.1	2.7	1.3	35	0.05
BD-63	B1104526	468470	5481495		6.04	2.5	5	24	5	34	0.24	1	2.3	0.1	30	7.9	5	0.15	0.05	0.05	0.66	29.2	2.2	1.9	0.1	5	0.1	1	1.3	21	0.03
BD-64	B1104527	468349	5481375		8.03	2.5	5	49	3	6	0.28	1	1.4	0.3	50	14.5	5	0.4	0.05	0.05	0.39	20.2	0.5	1.9	0.1	5	0.1	5.2	0.8	63	0.005
BD-67	B1104528	466616	5480105		7.27	2.5	5	29	5	1	0.27	1	3.7	0.6	30	9.6	1	1.3	0.7	0.1	0.84	26.3	0.9	1.8	0.2	5	0.1	1.8	1.6	7.5	0.07
BD-69	B1104529	466616	5480053		7.42	2.5	5	51	4	1	0.19	1	0.4	0.2	40	7.4	1	0.4	0.1	0.05	0.43	30.6	0.05	1.8	0.1	5	0.1	4.5	0.5	7.5	0.01
BD-72	B1104531	466439	5479324		7.4	2.5	10	5	1.5	1	0.28	1	1.1	0.4	50	5.5	1	0.3	0.1	0.05	0.66	45.7	2	2.4	0.1	5	0.1	2.6	0.7	38	0.04
BD-76	B1104532	466512	5478903		7.43	2.5	5	15	5	1	0.23	1	2.5	0.5	30	7.4	3	0.6	0.3	0.05	0.53	28.4	2.5	1.6	0.1	5	0.1	3.9	1.1	7.5	0.03
BD-84	B1104533	462934	5479453		8.34	2.5	20	59	280	1	0.27	1	1.8	0.8	30	22.9	1	0.15	0.2	0.2	0.52	41	2.2	3.3	0.1	5	0.1	1	1.7	116	0.04
BD-91	B1104534	468601	5482108		7.49	2.5	10	9	6	8	0.17	1	2	0.3	40	18.6	1	0.6	0.2	0.05	0.46	30.4	2.2	1.6	0.1	5	0.1	2.6	1.1	38	0.02
BD-92	B1104535	468443	5482047		7.41	2.5	10	109	5	7	0.15	1	1.3	0.3	40	49.6	1	0.4	0.1	0.05	0.39	23.9	2.1	1.8	0.1	5	0.1	5.9	0.7	15	0.01
BD-94	B1104536	467639	5479116		8.01	2.5	10	123	4	1	0.29	1	4.6	0.9	50	13.2	4	0.5	0.2	0.05	0.5	29.7	1.9	2.2	0.1	5	0.1	4.8	2.2	43	0.03
BD-95	B1104537	467582	5479030		9.53	2.5	5	68	3	1	0.04	1	0.4	0.3	40	90.9	1	0.15	0.05	0.05	0.21	37.2	1.2	2.8	0.1	5	0.1	7.9	0.2	7.5	0.005
BD-97	B1104538	467576	5479179		7.51	2.5	5	6	5	14	0.28	1	1.6	0.4	50	5.6	1	0.5	0.2	0.05	0.66	32	1.5	1.8	0.1	5	0.1	2.2	0.8	17	0.06
BD-104	B1104539	467275	5484924		7.66	2.5	20	97	62	1	0.03	1	0.4	1.1	40	27.7	5	0.15	0.05	0.05	0.47	35.9	1.7	3.5	0.1	5	0.1	1.5	0.2	7.5	0.005
BD-107	B1104541	468875	5482595		8.25	2.5	5	6	4	6	0.05	1	0.4	0.5	80	17.7	3	0.15	0.05	0.05	0.57	23.6	1.3	3.1	0.1	5	0.1	4.8	0.2	20	0.005
BD-110	B1104542	468886	5482358		8.03	2.5	10	8	8	1	0.11	1	0.4	0.4	40	20	4	0.15	0.05	0.05	0.57	36.3	1.1	1.8	0.1	5	0.1	3.9	0.2	45	0.01
BD-111	B1104543	468839	5482257		4.14	2.5	5	5	5	37	0.05	1	1.4	0.5	100	10.5	1	0.15	0.2	0.05	0.61	23.9	1.4	1.7	0.1	5	0.1	1.1	0.9	52	0.01
BD-112	B1104544	467932	5479314		7.89	2.5	5	4	8	1	0.39	1	3.8	0.5	70	5.8	3	1.1	0.6	0.05	0.57	32.8	1.8	2.1	0.1	5	0.1	0.5	2.2	7.5	0.02
BD-115	B1104545	468241	5479362		7.86	2.5	5	11	1.5	1	0.11	1	3	0.5	40	10.2	2	0.5	0.4	0.05	0.46	25.4	1.3	1.8	0.1	5	0.1	5.8	1.7	7.5	0.005
BD-117	B1104546	468150	5479219		6.65	2.5	5	7	4	29	0.07	1	3.8	0.6	40	9	3	0.4	0.1	0.05	0.53	30.3	1.4	2.1	0.1	5	0.1	3	2.1	35	0.01
BD-120	B1104547	467898	5479244		7.53	2.5	5	29	5	1	0.14	1	1.2	0.1	30	8.1	1	0.15	0.2	0.05	0.59	32.1	1.2	2.4	0.1	5	0.1	3.4	0.6	7.5	0.02
BD-122	B1104548	467830	5479034		8.03	2.5	5	18	7	1	0.26	1	2.1	0.3	1.5	2	1	0.7	0.3	0.05	0.57	36.6	1.3	3.7	0.1	5	0.1	0.7	1.2	7.5	0.005

Station ID	Sample ID	Easting	Northing	Elevation	Mn_ppm	Mo_ppm	Nb_ppm	Nd_ppm	Ni_ppm	Pb_ppm	Pr_ppm	Rb_ppm	S_%	Sb_ppm	Se_ppm	Si_%	Sm_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Tb_ppm	Te_ppm	Th_ppm	Tl_%	Tl_ppm	Tm_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Yb_ppm	Zn_ppm
BD-05	B1104501	469249	5485336		1010	3	20.1	4.1	5	1.9	0.05	278	0.005	1	4	30	0.05	33.4	15	5.6	0.05	3	0.5	0.005	1.4	0.05	3.6	7	1.9	0.5	0.7	30
BD-16	B1104502	460216	5479375		205	4	90.4	4.2	5	1.8	0.3	497	0.005	1	4	30	0.2	61	26	8	0.05	3	0.2	0.04	2.4	0.05	0.3	7	4.9	0.4	0.7	80
BD-18	B1104503	460242	5479372		116	0.5	25.7	1.1	10	11.2	0.4	660	0.005	1	9	30	0.3	22.3	37	4.2	0.05	7	0.2	0.005	2.7	0.05	0.4	2.5	0.9	2.1	0.05	30
BD-19	B1104504	460241	5479371		262	6	31	23.3	30	39.7	6.6	620	0.005	1	4	30	3.3	25.9	101	8.7	0.5	3	20.2	0.07	4.2	0.2	8.7	13	2.5	13.7	1.9	80
BD-23	B1104505	457720	5479604		78	9	7.5	1.3	10	16.9	0.4	455	0.005	1	4	30	0.4	3.8	30	3.1	0.05	8	0.6	0.005	3.2	0.05	1.1	2.5	0.35	2.5	0.3	1.5
BD-27	B1104507	457844	5479602		230	4	40	4.1	5	11.7	0.3	838	0.005	1	4	30	0.2	24.6	27	7.8	0.05	3	0.3	0.005	5.7	0.05	0.3	5	2.2	0.8	0.9	50
BD-31	B1104508	460239	5479403		137	3	36.8	3.6	10	16	0.2	1100	0.005	1	4	30	0.1	22.4	25	5.8	0.05	3	0.2	0.01	7.2	0.05	1.1	6	2.8	0.3	0.6	40
BD-32	B1104509	460252	5479391		252	4	23	4.4	10	15.5	0.4	527	0.01	1	4	30	0.3	16.7	27	3.5	0.05	3	1.3	0.01	3.5	0.05	1.3	6	2.2	1.7	0.8	30
BD-33	B1104511	460284	5479387		123	5	31.2	3.5	5	17.2	0.1	623	0.005	1	4	30	0.2	10.5	22	17.5	0.05	3	0.4	0.005	4.2	0.05	0.2	6	2	0.1	0.6	1.5
BD-36	B1104512	469614	5484974		126	5	8.2	3.2	10	45.3	0.05	338	0.005	1	4	30	0.05	11.8	108	3.4	0.05	3	1	0.01	1.9	0.05	0.6	6	4.8	0.2	0.5	1.5
BD-37	B1104513	469617	5484993		489	4	13.7	5.3	5	15	0.9	251	0.005	1	4	30	0.8	9.6	118	4.9	0.2	3	3	0.02	1.6	0.05	3.3	7	1.3	5.7	0.9	1.5
BD-38	B1104514	469587	5484983		219	4	13	8.3	10	10.4	1.8	312	0.005	1	4	30	0.9	6.7	165	10.2	0.05	3	1.1	0.02	2	0.05	1.1	9	1.2	0.7	0.6	1.5
BD-39	B1104515	469569	5484980		51	5	4.3	3.5	10	7.5	0.2	191	0.005	1	4	30	0.2	7	65	2.1	0.05	3	0.9	0.005	1.2	0.05	1.6	5	1.2	0.9	0.6	1.5
BD-42	B1104516	469232	5484710		1290	4	23.7	8.8	5	19.3	1.7	478	0.005	1	4	30	0.8	36.1	227	20.5	0.05	3	5.1	0.04	3.2	0.05	3.1	12	2.1	0.8	0.7	1.5
BD-47	B1104517	468254	5480820		291	7	20.7	5.8	100	12.2	0.9	187	0.005	1	4	30	0.7	12.2	51	3.6	0.05	3	1.7	0.05	1	0.05	3.9	20	1.9	4.4	1	1.5
BD-48	B1104518	468278	5480837		193	5	19.9	4	20	3.1	0.5	124	0.005	1	4	30	0.2	10.7	27	3.2	0.1	6	2.9	0.01	0.6	0.1	3.6	2.5	3.5	4.6	1.1	1.5
BD-50	B1104519	468311	5480872		111	5	22.7	3.2	5	19.1	0.2	473	0.005	1	9	30	0.3	20.5	29	4.1	0.05	3	0.9	0.005	2.8	0.05	0.9	7	2.2	3.3	1	1.5
BD-55	B1104521	468069	5481246		603	4	23.9	3.2	10	22.3	0.4	340	0.005	1	4	30	0.6	17.9	18	7.3	0.1	3	1.8	0.005	2	0.05	1.8	2.5	1.5	7.1	1.2	50
BD-56	B1104522	468133	5481207		196	7	11.4	4	10	17.1	0.6	339	0.005	1	4	30	0.4	9.3	75	4.5	0.05	3	1.5	0.02	1.9	0.05	1.4	9	1.1	4	1	1.5
BD-57	B1104523	468176	5481180		649	3	7.8	4.4	30	20.1	0.5	19.6	0.005	1	4	30	0.4	4.4	186	2.8	0.1	3	2.3	0.01	0.1	0.1	3.2	5	1.8	5.4	1.1	1.5
BD-59	B1104524	468251	5481258		188	5	6.4	3.1	20	24.8	0.2	755	0.005	1	4	30	0.2	9.1	22	3.6	0.05	3	0.6	0.005	5.1	0.05	0.6	2.5	2.4	2.6	0.6	50
BD-60	B1104525	468342	5481291		1950	4	7.6	3.2	5	16.4	0.4	310	0.005	1	4	30	0.5	9.4	21	1.6	0.2	3	1.6	0.005	2	0.2	2	2.5	1.5	11.1	2.1	1.5
BD-63	B1104526	468470	5481495		102	4	21.4	3	10	11.9	0.2	142	0.01	1	4	30	0.2	15.3	34	5.4	0.05	3	1.7	0.01	0.7	0.05	1.1	2.5	2	1	0.5	1.5
BD-64	B1104527	468349	5481375		103	3	7.6	0.7	10	22.6	0.1	509	0.005	1	4	30	0.05	6.8	27	1.5	0.05	7	0.7	0.005	3.7	0.05	0.9	2.5	0.9	2.1	0.5	1.5
BD-67	B1104528	466616	5480105		227	7	11.4	2	10	14.7	0.5	172	0.005	1	20	30	0.4	12.1	29	2.6	0.2	8	3.2	0.005	1.2	0.2	4.2	2.5	0.35	8.4	1.4	1.5
BD-69	B1104529	466616	5480053		107	1	11.1	0.2	10	12.2	0.05	422	0.005	1	4	30	0.05	15.5	45	3.3	0.05	9	1.5	0.005	2.9	0.05	1.2	2.5	0.35	1.3	0.3	30
BD-72	B1104531	466439	5479324		121	4	30.5	2.5	5	6.7	0.2	220	0.005	1	4	30	0.05	40.7	15	2.9	0.05	3	0.6	0.005	1	0.05	1.3	2.5	3	1.3	0.6	30
BD-76	B1104532	466512	5478903		335	4	12.3	2.8	20	10.9	0.3	327	0.005	1	4	30	0.3	6.9	19	6.6	0.1	3	1.5	0.005	2	0.05	1.3	2.5	1.5	2.6	0.7	1.5
BD-84	B1104533	462934	5479453		1680	4	69.5	2.5	20	3.6	0.2	246	0.005	1	4	30	0.4	55.8	75	25.6	0.05	3	1.4	0.005	1.3	0.05	0.9	2.5	2.8	0.5	0.4	1.5
BD-91	B1104534	468601	5482108		144	3	11.8	2.4	5	9.9	0.2	321	0.005	1	4	30	0.3	11.7	21	2	0.05	3	1.4	0.005	2	0.05	0.7	2.5	1.6	3.2	0.7	1.5
BD-92	B1104535	468443	5482047		76	4	11.9	2.2	5	26.2	0.2	682	0.005	1	4	30	0.3	12.4	31	1.2	0.05	3	0.9	0.005	4.7	0.05	0.8	2.5	2.1	2.1	0.4	1.5
BD-94	B1104536	467639	5479116		226	4	10.6	4.5	20	17.4	0.7	478	0.02	1	4	30	0.6	12.1	69	1.9	0.05	3	4.4	0.01	3.2	0.05	3	5	1.8	2.5	0.5	1.5
BD-95	B1104537	467582	5479030		73	4	26.7	1.3	5	17.7	0.05	1500	0.04	1	4	30	0.05	8.3	34	6.7	0.05	3	0.7	0.005	11.2	0.05	0.5	2.5	2.1	0.2	0.4	1.5
BD-97	B1104538	467576	5479179		96	5	20.8	1.9	20	9.3	0.2	224	0.005	1	4	30	0.4	15.8	16	3.7	0.05	3	1.1	0.005	1.3	0.05	1.5	2.5	1.7	1.8	0.5	30
BD-104	B1104539	467275	5484924		209	4	23.1	1.7	5	2.7	0.1	489	0.005	1	4	30	0.4	67.4	23	10.9	0.05	3	1.2	0.005	2.5	0.05	1.5	2.5	2.1	0.3	0.4	1.5
BD-107	B1104541	468875	5482595		652	6	7.9	1.6	80	12.2	0.05	685	0.005	1	4	30	0.05	12	13	2.2	0.05	3	0.6	0.005	4.5	0.05	1.1	2.5	2	1.3	0.4	1.5
BD-110	B1104542	468886	5482358		102	4	18.9	1.4	10	12.1	0.05	518	0.005	1	4	30	0.05	25.2	15	4.3	0.05	3	0.1	0.005	3.2	0.05	0.4	2.5	2.6	1	0.3	1.5
BD-111	B1104543	468839	5482257		75	6	19.4	1.6	10	0.4	0.1	168	0.005	1	4	30	0.3	23	13	3.1	0.05	3	1.4	0.005	0.9	0.05	2.7	2.5	3.9	1.5	0.3	1.5
BD-112	B1104544	467932	5479314		122	7	17.5	2.7	10	12.7	0.5	66.8	0.005	1	4	30	0.6	6.5	19	3.8	0.2	3	5.1	0.01	0.5	0.1	6.9	2.5	2.3	6.9	1.1	30
BD-115	B1104545	468241	5479362		149	3	9	2.7	20	25.4	0.3	472	0.005	1	4	30	0.2	8.2	19	2.4	0.05	3	2.2	0.005	3	0.05	3	2.5	2.1	3.3	0.7	1.5
BD-117	B1104546	468150	5479219		71	3	15.4	2.4	5	10	0.4	304	0.005	1	4	30	0.4	15.3	16	2.4	0.05	3	3.1	0.005	1.8	0.05	3.5	2.5	2.3	2.7	0.4	1.5
BD-120	B1104547	467898	5479244		262	3	21.6	1.7	5	9.1	0.1	325	0.005	1	4	30	0.1	20.8	17	5.7	0.05	3	1.1	0.005	1.8	0.05	1.1	2.5	2.1	1.8	0.6	1.5
BD-122	B1104548	467830	5479034		2260	2	24.3	2	5	5.9	0.3	40.2	0.005	1	4	30	0.3	5.2	25	15.6	0.1	3	1.9	0.005	0.2	0.05	2.6	2.5	0.8	3.4	0.8	1.5

Station_ID	Sample_ID	Easting	Northing	Elevation	Al_%	As_ppm	B_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_%	Cd_ppm	Ce_ppm	Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Dy_ppm	Er_ppm	Eu_ppm	Fe_%	Ga_ppm	Gd_ppm	Ge_ppm	Ho_ppm	HF_ppm	In_ppm	K_%	La_ppm	Li_ppm	Mg_%
BD-123	B1104549	467834	5479037		7.41	2.5	10	57	4	1	0.16	1	3.5	0.4	30	11.8	3	0.7	0.4	0.05	0.41	26.8	1.4	1.8	0.1	5	0.1	4.3	1.9	7.5	0.01
BD-124	B1104551	462459	5478656		8.47	2.5	30	82	195	1	0.43	1	2.3	0.8	30	29.3	1	0.15	0.05	0.2	0.55	55.4	1.1	3.6	0.1	5	0.1	1.4	1.3	93	0.05
BD-125	B1104552	462567	5478642		7.29	2.5	20	92	125	1	0.04	1	0.4	0.5	1.5	23.6	4	0.15	0.05	0.05	0.51	54	0.9	2.7	0.1	5	0.1	4.7	0.2	57	0.02
BD-129	B1104553	462697	5478622		7.89	2.5	5	32	11	1	0.02	1	0.4	0.4	1.5	19.1	3	0.15	0.05	0.05	0.65	65.4	0.9	2.5	0.1	5	0.1	3.1	0.2	48	0.005
BD-134	B1104554	462491	5478491		8.72	2.5	10	469	14	1	0.54	1	7.2	0.4	1.5	47.8	13	0.8	0.2	0.3	0.39	36.1	2	3.1	0.1	5	0.1	7	4	36	0.04
DB-07	B1104751	468732	5484722		7.83	2.5	5	34	7	1	0.2	1	3.4	0.7	30	15.4	4	0.15	0.05	0.05	0.75	46.9	0.7	2.9	0.1	5	0.1	0.7	1.9	32	0.04
DB-08	B1104752	469203	5484702		5.92	2.5	5	125	11	1	0.07	1	3.3	0.4	30	20.6	3	0.15	0.05	0.05	0.33	25.2	0.7	2.8	0.1	10	0.1	3	1.2	7.5	0.01
DB-09	B1104753	469197	5484709		7.61	2.5	5	103	4	1	0.04	1	1.7	0.4	1.5	13.2	4	0.15	0.05	0.3	0.49	32.2	0.9	3.2	0.1	5	0.1	1.6	0.7	7.5	0.005
DB-16	B1104754	458297	5479592		5.1	2.5	5	42	5	3	0.05	1	1.6	0.4	1.5	48.2	4	0.15	0.1	0.05	0.43	25.7	1	2.4	0.1	5	0.1	1.9	0.8	39	0.01
DB-19	B1104755	468759	5482391		8.21	2.5	5	15	5	4	0.13	1	2.7	0.7	1.5	26	6	0.7	0.4	0.05	0.61	29.2	1	2.6	0.1	5	0.1	4.3	1.2	33	0.01
DB-011	B1104756	469286	5484743		7.83	2.5	5	11	5	4	0.07	1	1.3	0.7	1.5	65.4	7	0.15	0.05	0.05	0.47	33.3	0.6	2.3	0.1	5	0.1	4.3	1.1	35	0.02
DB-23	B1104757	468531	5480876		7.68	2.5	5	11	6	1	0.23	1	1	0.2	1.5	17.3	24	0.4	0.3	0.05	0.44	27.6	0.7	1.7	0.1	5	0.1	3.2	0.6	32	0.01
DB-25	B1104758	468320	5481465		7.71	2.5	5	35	5	5	0.08	1	0.9	0.7	1.5	34.3	8	0.15	0.1	0.05	0.56	22.9	0.8	1.4	0.1	5	0.1	5.2	0.5	36	0.02
DB-27	B1104759	467934	5481260		7.87	2.5	5	22	5	1	0.11	1	0.9	0.6	80	20	3	0.15	0.1	0.05	0.4	27.1	0.8	2.7	0.1	5	0.1	4.9	0.4	7.5	0.01
DB-28	B1104761	467945	5481193		7.87	2.5	5	15	6	3	0.26	1	3.3	3	190	12.1	10	0.8	0.6	0.05	0.56	25.3	0.5	2.2	0.1	5	0.1	2.3	1.3	29	0.03
DB-29	B1104762	467910	5481186		7.58	2.5	5	4	10	10	0.26	1	3.1	0.8	60	12.7	4	0.9	0.6	0.05	0.73	30.5	1	3	0.1	5	0.1	1.1	1.7	112	0.01
DB-31	B1104763	467874	5481198		8.02	2.5	5	6	5	1	0.11	1	1.9	0.4	40	24	1	0.9	0.7	0.05	0.59	28.7	1.1	3	0.1	5	0.1	4.5	0.9	65	0.005
DB-32	B1104764	467832	5481189		8.49	2.5	5	8	7	1	0.14	1	2	0.4	30	23.2	6	0.5	0.4	0.05	0.61	34.3	0.8	3.2	0.1	5	0.1	3	1.1	33	0.005
DB-35	B1104765	468365	5481290		8.14	2.5	5	17	5	5	0.16	1	4.3	0.6	40	13.9	1	1.7	0.9	0.05	0.61	26.9	1.6	1.8	0.3	5	0.1	4.9	2.2	97	0.02
DB-37	B1104766	468459	5481340		7.34	2.5	5	12	6	22	0.26	1	2.2	0.5	30	8.2	4	0.5	0.3	0.05	0.55	28.5	0.9	1.6	0.1	5	0.1	2.4	1.3	46	0.04
DB-48	B1104767	467408	5484727		6.09	2.5	5	48	28	5	0.03	1	2.4	0.7	1.5	32.7	2	0.15	0.05	0.05	0.43	24.4	0.5	3.1	0.1	5	0.1	3.3	1.4	16	0.03
DB-49	B1104768	467411	5484693		8.33	2.5	5	107	150	11	0.28	1	10.2	0.5	1.5	21.2	4	0.4	0.2	0.5	0.48	36.9	1.3	3.8	0.1	5	0.1	2.2	4.9	25	0.06
DB-53	B1104769	467367	5484644		8.07	2.5	5	460	34	7	0.66	1	10.5	1.9	70	70.1	5	0.15	0.1	0.4	0.63	29.5	1	2.7	0.1	5	0.1	3.9	5.4	51	0.18
DB-54	B1104771	467347	5484626		8.96	2.5	5	41	23	1	0.08	1	3.1	0.4	1.5	25.6	2	0.4	0.1	0.7	0.24	41.4	1.2	4.5	0.1	5	0.1	1.7	1.2	7.5	0.03
DB-56	B1104772	467291	5484628		7.87	2.5	30	44	250	3	0.04	1	0.4	0.5	30	138	1	0.15	0.05	0.05	1.05	75.4	0.6	2.9	0.1	5	0.1	5.2	0.5	235	0.05
DB-57	B1104773	468521	5482068		7.66	2.5	5	16	12	14	0.31	1	1.9	0.6	1.5	11.8	3	0.6	0.1	0.1	0.75	35.1	0.8	2.2	0.1	5	0.1	1.6	0.8	46	0.06
DB-58	B1104774	467351	5479416		7.64	2.5	5	10	4	6	0.16	1	3.9	0.6	30	7.5	12	0.9	0.6	0.05	0.59	31.9	1	2.1	0.1	5	0.1	3.3	2.5	16	0.02
DB-61	B1104775	467811	5479589		7.57	2.5	5	12	6	1	0.17	1	2	0.4	40	8.4	1	0.6	0.3	0.05	0.47	33.5	0.8	1.7	0.1	5	0.1	2.8	1.1	21	0.03
DB-62	B1104776	467839	5479532		7.63	2.5	5	93	3	1	0.23	1	3.3	1.4	40	7.7	2	0.4	0.3	0.1	0.71	30.4	0.8	2.1	0.1	5	0.1	4.3	2.1	7.5	0.14
DB-63	B1104777	467828	5479538		6.24	2.5	5	45	4	1	0.33	1	18.6	6.3	90	1.9	1	1.3	0.7	0.3	2.01	25.9	1.6	1.9	0.2	5	0.1	0.8	11.1	35	0.77
DB-66	B1104778	468136	5479562		7.84	2.5	5	15	1.5	1	0.15	1	1.3	0.9	60	5.9	1	0.4	0.3	0.05	0.47	31	0.6	1.9	0.1	5	0.1	5	0.8	57	0.03
DB-67	B1104779	468255	5479583		7.15	2.5	30	76	4	1	0.26	1	1.9	0.7	1.5	5.8	1	0.3	0.2	0.1	0.63	25.9	0.6	2	0.1	5	0.1	1.5	0.9	60	0.07
DB-69	B1104781	468157	5479503		7.54	2.5	20	7	1.5	1	0.3	1	4.7	0.5	30	7	3	1.6	1	0.05	0.58	32.4	1	2.4	0.3	5	0.1	2.7	2.2	63	0.03
DB-72	B1104782	468056	5479419		7.45	2.5	20	14	1.5	1	0.14	1	0.9	0.5	50	11	7	0.15	0.05	0.05	0.38	23.9	0.3	1.8	0.1	5	0.1	5.6	0.6	35	0.01
DB-73	B1104783	468032	5479446		8.17	2.5	30	93	25	1	0.3	1	1	0.4	30	5	1	0.3	0.05	0.2	0.5	47.2	0.7	4.1	0.1	5	0.1	0.8	0.8	7.5	0.005
DB-75	B1104784	468016	5479402		7.31	2.5	30	15	4	1	0.27	1	4	0.1	1.5	5.2	1	1.1	0.6	0.05	0.58	30	0.9	1.9	0.1	5	0.1	2.2	2.3	25	0.04
DB-76	B1104785	467967	5479370		7.44	2.5	10	15	1.5	1	0.23	1	2.1	0.6	40	12.8	6	0.4	0.05	0.05	0.5	27.2	0.2	1.3	0.1	5	0.1	3.2	1.1	40	0.03
DB-79	B1104786	461369	5477928		8.13	2.5	10	9	5	1	0.13	1	2.8	0.3	30	26.5	2	0.5	0.2	0.05	0.37	31.2	0.2	3.2	0.1	5	0.1	5.4	1.3	40	0.02
DB-82	B1104787	461382	5477967		7.64	2.5	10	10	5	2	0.21	1	1.9	0.4	1.5	5.1	5	0.6	0.3	0.05	0.54	42.6	0.6	2.2	0.1	5	0.1	1.5	0.8	43	0.05
DB-83	B1104788	461410	5477939		7.53	2.5	20	14	1.5	1	0.01	1	1.2	0.4	1.5	32.9	1	0.15	0.05	0.05	0.37	22.3	0.1	1.7	0.1	5	0.1	6.9	0.4	22	0.02
DB-85	B1104789	461481	5477949		8.15	2.5	5	37	5	1	0.21	1	1.2	0.7	50	19.4	6	0.15	0.2	0.05	0.52	31.8	0.3	3.5	0.1	5	0.1	5.2	0.5	7.5	0.02
DB-86	B1104791	461512	5477757		7.13	2.5	20	11	4	3	0.32	1	2	0.6	40	4.7	7	0.15	0.2	0.05	0.87	28.4	0.2	2	0.1	5	0.1	2.2	1.1	34	0.03
DB-87	B1104792	461477	5477690		7.74	2.5	10	14	1.5	5	0.09	1	1.8	0.4	40	12.7	3	0.15	0.2	0.05	0.67	32.5	0.4	1.3	0.1	5	0.1	6.2	1	94	0.03
DB-43	B1104793	466498	5478772		7.63	2.5	5	15	6	1	0.17	1	1.1	0.3	40	7.6	3	0.4	0.1	0.05	0.78	43.5	0.3	2.5	0.1	5	0.1	1.6	0.5	7.5	0.02

Station ID	Sample ID	Easting	Northing	Elevation	Mn_ppm	Mo_ppm	Nb_ppm	Nd_ppm	Ni_ppm	Pb_ppm	Pr_ppm	Rb_ppm	S_%	Sb_ppm	Se_ppm	Si_%	Sm_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Tb_ppm	Te_ppm	Th_ppm	Ti_%	Tl_ppm	Tm_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Zn_ppm	
BD-123	B1104549	467834	5479037		162	3	10.2	2.6	5	15.7	0.5	457	0.005	1	4	30	0.6	8.8	30	4.7	0.1	3	2.7	0.005	3.3	0.05	2.1	2.5	1	4.1	0.6	1.5
BD-124	B1104551	462459	5478656		933	3	63.7	1.8	5	4.2	0.4	409	0.005	1	4	30	0.2	45.9	87	70.8	0.05	3	1.6	0.005	2.2	0.05	2.1	8	2.3	1.5	0.2	1.5
BD-125	B1104552	462567	5478642		507	4	78.6	0.9	5	9.8	0.05	961	0.005	1	4	30	0.1	54.5	35	28.3	0.05	3	0.3	0.005	6.5	0.05	0.5	2.5	2.1	0.3	0.3	40
BD-129	B1104553	462697	5478622		1580	3	90.5	1.1	5	6.6	0.05	880	0.005	1	4	30	0.05	92.4	20	11.3	0.05	3	0.4	0.005	4.7	0.05	0.4	2.5	2.5	0.2	0.2	30
BD-134	B1104554	462491	5478491		654	3	46.1	4	5	16.2	1	881	0.03	1	4	30	1.1	8.2	153	28.6	0.2	3	0.9	0.005	6.5	0.05	1.8	2.5	1.7	4.1	0.4	1.5
DB-07	B1104751	468732	5484722		1720	4	91	1.5	20	2.9	0.4	132	0.005	1	4	30	0.2	97.7	44	21.6	0.05	3	1.2	0.005	0.8	0.05	7.3	2.5	2.2	0.9	0.3	40
DB-08	B1104752	469203	5484702		72	3	8.1	3.2	5	5.8	0.4	319	0.005	1	4	30	0.2	6.4	93	5.3	0.05	3	6.4	0.005	2	0.05	2.8	2.5	1.4	0.2	0.2	1.5
DB-09	B1104753	469197	5484709		2370	3	20.6	2.3	5	1	0.3	177	0.005	1	4	30	0.5	6.6	62	13.2	0.05	3	0.5	0.005	1.2	0.05	1.8	2.5	1.3	0.9	0.3	1.5
DB-16	B1104754	458297	5479592		356	3	35.4	1.5	5	3.9	0.2	315	0.005	1	4	30	0.2	11.7	19	13.5	0.05	3	0.6	0.005	2.2	0.05	0.8	2.5	1.2	1	0.3	1.5
DB-19	B1104755	468759	5482391		871	3	13.9	1.8	10	15.6	0.3	576	0.005	1	10	30	0.4	18.1	18	5	0.1	3	2	0.005	3.6	0.05	4.5	2.5	1.3	4.1	0.6	1.5
DB-011	B1104756	469286	5484743		366	4	22.7	1.6	5	7	0.2	835	0.005	1	4	30	0.2	62.8	16	2.9	0.05	3	0.4	0.005	5.6	0.05	1.5	2.5	1.6	0.5	0.2	1.5
DB-23	B1104757	468531	5480876		324	4	13.3	0.7	5	11.9	0.2	342	0.005	1	4	30	0.1	13.7	18	2.6	0.05	3	0.8	0.005	2.1	0.05	0.7	2.5	1.2	2.8	0.3	1.5
DB-25	B1104758	468320	5481465		187	3	14.9	1.2	5	16.8	0.1	572	0.005	1	4	30	0.1	11.1	20	7	0.05	3	0.3	0.005	3.8	0.05	0.7	2.5	1.3	1.8	0.2	1.5
DB-27	B1104759	467934	5481260		63	7	13.3	1	20	13.2	0.1	526	0.005	1	4	30	0.1	13.5	19	3.9	0.05	3	0.8	0.005	3.3	0.05	0.6	2.5	1.6	1.2	0.3	1.5
DB-28	B1104761	467945	5481193		700	20	18.4	1.6	20	9.9	0.3	301	0.005	1	4	30	0.4	13.2	21	6.8	0.1	9	1.7	0.005	2	0.05	3.3	2.5	1.2	5.9	0.7	1.5
DB-29	B1104762	467910	5481186		597	7	25.3	1.7	5	3.4	0.4	186	0.005	1	4	30	0.4	16.8	15	10.2	0.2	3	4.1	0.005	1	0.05	7	2.5	1.8	5.7	0.8	50
DB-31	B1104763	467874	5481198		1140	4	12.3	0.9	20	11.5	0.2	644	0.005	1	4	30	0.4	15.1	14	2.6	0.1	3	2.3	0.005	4.2	0.2	4.3	2.5	1.5	7.4	1.5	1.5
DB-32	B1104764	467832	5481189		1380	3	14.8	1.4	5	10.6	0.3	408	0.005	1	4	30	0.3	12.9	15	4.2	0.05	3	2.3	0.005	2.5	0.05	3.6	2.5	1.2	4.3	0.6	1.5
DB-35	B1104765	468365	5481290		301	5	17.3	2.4	10	15.5	0.5	471	0.005	1	8	30	0.6	15.9	19	5.9	0.2	3	3.2	0.005	2.7	0.2	1.9	2.5	2.4	10	1.3	30
DB-37	B1104766	468459	5481340		166	3	20.7	1.2	10	22.1	0.3	253	0.005	1	4	30	0.2	11.5	20	3.2	0.05	3	1.1	0.01	1.4	0.05	1.3	2.5	1.6	2.7	0.6	30
DB-48	B1104767	467408	5484727		311	3	38.1	1.6	10	45.7	0.3	819	0.005	1	4	30	0.2	11.2	53	24.5	0.05	3	0.7	0.01	6	0.05	2	2.5	1.5	0.3	0.1	1.5
DB-49	B1104768	467411	5484693		1150	3	91.9	6.5	5	20.2	1.4	498	0.005	1	4	30	1.1	19.3	55	34.2	0.05	3	1.7	0.005	3.5	0.05	11.9	2.5	1.7	1.8	0.2	30
DB-53	B1104769	467367	5484644		250	8	44.2	5.1	5	20.2	1.3	782	0.005	1	4	30	0.8	13	268	42.6	0.05	3	1.2	0.05	5.6	0.05	2	9	2.1	1	0.3	1.5
DB-54	B1104771	467347	5484626		224	3	49.2	2.5	5	24.7	0.5	401	0.005	1	4	30	0.8	4	38	40	0.1	3	0.9	0.005	2.9	0.05	3.7	2.5	1.2	1.9	0.2	1.5
DB-56	B1104772	467291	5484628		437	4	104.6	0.8	5	6.9	0.1	2550	0.005	1	4	30	0.05	202	29	24.9	0.05	3	0.3	0.01	16.6	0.05	0.9	6	3.8	0.1	0.2	100
DB-57	B1104773	468521	5482068		137	6	28.2	1.5	5	10	0.3	203	0.005	1	4	30	0.3	24.1	27	6.5	0.05	3	0.9	0.02	1.1	0.05	1.5	2.5	1.6	2.8	0.2	30
DB-58	B1104774	467351	5479416		1070	4	15.6	1.8	40	11.5	0.5	320	0.005	1	4	30	0.4	9.8	18	2	0.1	3	2.1	0.005	1.9	0.1	3	2.5	1.9	6.1	0.7	30
DB-61	B1104775	467811	5479589		437	5	21.1	1.2	20	11.4	0.2	299	0.005	1	4	30	0.5	15.4	20	4.7	0.05	3	2.5	0.005	2	0.05	2.4	2.5	1.8	4.2	0.5	1.5
DB-62	B1104776	467839	5479532		310	5	15.7	2.1	10	14.4	0.3	396	0.005	1	4	30	0.4	12.5	57	3.5	0.05	3	1	0.03	2.4	0.05	1.3	8	1.7	1.8	0.5	1.5
DB-63	B1104777	467828	5479538		373	3	25.7	8.9	30	4.8	2.4	59.8	0.01	1	4	30	1.7	12.5	55	6.7	0.2	3	3.8	0.12	0.3	0.1	6.8	32	1.8	4.9	0.7	1.5
DB-66	B1104778	468136	5479562		152	7	16.7	1	30	17.4	0.2	381	0.005	1	4	30	0.1	12.4	23	3.8	0.05	3	1	0.005	2.4	0.05	1.5	2.5	1.3	2.6	0.4	1.5
DB-67	B1104779	468255	5479583		204	3	17.8	0.8	5	14.4	0.2	145	0.005	1	4	30	0.05	9.1	47	5.2	0.05	3	1.4	0.02	0.8	0.05	3.2	2.5	2.7	2.2	0.4	1.5
DB-69	B1104781	468157	5479503		201	5	17.7	2.1	10	14.6	0.5	254	0.005	1	4	30	0.3	9.3	19	3.8	0.2	3	4.6	0.01	1.7	0.2	11.7	2.5	1.8	9.5	1.3	40
DB-72	B1104782	468056	5479419		169	7	8.3	0.6	20	21.3	0.05	490	0.005	1	4	30	0.1	4.4	21	2.5	0.05	3	0.4	0.005	2.8	0.05	0.5	2.5	2.1	0.9	0.2	30
DB-73	B1104783	468032	5479446		1420	3	47.1	0.9	20	10.9	0.2	124	0.005	1	4	30	0.2	23.2	87	22.7	0.05	3	1.1	0.005	0.6	0.05	1.8	2.5	1.3	1.9	0.3	30
DB-75	B1104784	468016	5479402		126	3	19.6	1.8	5	11.2	0.5	190	0.005	1	4	30	0.5	10	26	5.1	0.1	3	4.4	0.01	1	0.1	5.6	2.5	1.5	6.1	0.9	1.5
DB-76	B1104785	467967	5479370		124	7	13.4	0.8	20	18	0.2	329	0.005	1	4	30	0.3	5.5	23	4	0.05	3	1	0.005	2	0.05	1.4	2.5	1.2	1.8	0.4	1.5
DB-79	B1104786	461369	5477928		161	4	12.3	1.3	20	19.6	0.3	728	0.005	1	4	30	0.4	7.9	19	2.3	0.05	3	1.7	0.005	5	0.05	1.5	2.5	1.2	3	0.6	50
DB-82	B1104787	461382	5477967		169	6	21.3	0.8	10	7.6	0.3	239	0.005	1	4	30	0.2	11.7	21	4.8	0.05	3	2.7	0.005	1.2	0.1	1.8	2.5	1.5	4.7	0.7	30
DB-83	B1104788	461410	5477939		121	4	10.4	0.5	10	19.9	0.2	945	0.005	1	4	30	0.2	10.7	17	2.2	0.05	3	0.3	0.005	6.2	0.05	0.4	6	0.7	0.8	0.2	30
DB-85	B1104789	461481	5477949		259	7	6.3	0.7	30	16.9	0.2	776	0.005	1	9	30	0.3	4	42	3.5	0.05	3	0.5	0.005	4.9	0.05	1	2.5	1.7	1.9	0.3	30
DB-86	B1104791	461512	5477757		175	4	14.1	0.9	20	15.6	0.2	238	0.005	1	4	30	0.2	14.3	20	2.4	0.05	3	0.5	0.005	1.6	0.05	0.8	2.5	0.35	1.6	0.3	50
DB-87	B1104792	461477	5477690		124	5	15.2	0.7	20	23.2	0.2	653	0.005	1	4	30	0.3	8.6	20	2.4	0.05	3	1	0.005	3.9	0.05	0.9	2.5	1.8	2.4	0.5	30
DB-43	B1104793	466498	5478772		1470	4	29.8	0.5	10	10.6	0.1	241	0.005	1	4	30	0.1	9.3	27	11.8	0.1	3	1.9	0.005	1.7	0.05	1.4	5	0.35	2.1	0.2	1.5

# APPENDIX F: LAB CERTIFICATES

Quality Analysis ...



Innovative Technologies

Report No.: A22-10006  
Report Date: 02-Nov-22  
Date Submitted: 18-Jul-22  
Your Reference: GATHERING

GREEN TM RESOURCES (CANADA) LTD.  
338 Red River Rd  
Thunder Bay Ontario P7B 1B1  
Canada

ATTN: Nathan Sims (Results)

## CERTIFICATE OF ANALYSIS

96 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2022-09-01 20:37:09

REPORT A22-10006

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:



LabID: 266

ACTIVATION LABORATORIES LTD.  
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5  
TELEPHONE +905 648-9611 or +1 888 228 5227 FAX +1 905 648 9613  
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CERTIFIED BY:

Mark Vandergeest  
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A22-10006

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
B1104501	6.90	< 5	30	11	144	< 2	0.21	< 2	< 0.8	0.4	40	16.2	< 2	< 0.3	< 0.1	< 0.1	0.53	34.4	3.5	3.0	< 0.2	< 10	< 0.2
B1104502	7.68	< 5	20	25	8	< 2	0.22	< 2	3.0	0.9	50	18.3	3	< 0.3	< 0.1	< 0.1	1.07	68.0	3.4	1.6	< 0.2	< 10	< 0.2
B1104503	7.30	< 5	< 10	69	8	< 2	0.35	< 2	3.6	1.8	40	15.0	17	< 0.3	< 0.1	< 0.1	0.46	29.3	0.2	2.7	< 0.2	< 10	< 0.2
B1104504	7.22	< 5	30	350	14	< 2	0.46	< 2	57.4	2.8	70	31.9	19	2.7	1.3	0.5	0.98	52.8	5.8	3.5	0.5	10	< 0.2
B1104505	6.81	< 5	< 10	63	< 3	< 2	0.13	< 2	1.8	0.9	40	38.8	< 2	0.4	0.2	< 0.1	0.55	19.1	0.3	2.6	< 0.2	< 10	< 0.2
B1104507	7.17	< 5	30	84	5	7	0.20	< 2	2.7	0.3	40	37.2	4	< 0.3	< 0.1	< 0.1	0.47	36.0	3.5	3.1	< 0.2	< 10	< 0.2
B1104508	7.84	< 5	20	101	5	< 2	0.12	< 2	1.0	0.5	40	71.5	6	< 0.3	< 0.1	< 0.1	0.63	40.3	3.9	2.7	< 0.2	< 10	< 0.2
B1104509	7.63	< 5	20	82	6	14	0.19	< 2	2.7	1.2	40	15.1	11	< 0.3	< 0.1	< 0.1	0.54	35.3	3.7	2.4	< 0.2	< 10	< 0.2
B1104511	5.66	< 5	10	66	6	< 2	0.05	< 2	1.3	0.7	50	44.2	4	< 0.3	< 0.1	< 0.1	0.46	24.0	4.0	2.8	< 0.2	< 10	< 0.2
B1104512	7.97	< 5	20	60	11	< 2	0.22	< 2	< 0.8	1.2	30	23.1	9	< 0.3	< 0.1	< 0.1	0.38	38.6	3.4	2.9	< 0.2	< 10	< 0.2
B1104513	7.53	< 5	< 10	153	6	< 2	0.51	< 2	7.0	0.7	40	19.1	6	1.1	0.4	< 0.1	0.60	31.1	3.6	2.2	< 0.2	< 10	< 0.2
B1104514	7.92	< 5	10	163	21	2	0.42	< 2	15.7	1.0	30	35.6	5	< 0.3	< 0.1	0.1	0.46	32.0	3.0	3.7	< 0.2	< 10	< 0.2
B1104515	6.00	< 5	20	42	6	< 2	0.25	< 2	1.7	1.0	40	11.2	6	< 0.3	< 0.1	< 0.1	0.37	18.9	2.8	2.3	< 0.2	< 10	< 0.2
B1104516	10.1	< 5	20	224	34	6	0.44	< 2	12.2	1.1	30	74.4	6	< 0.3	0.1	0.3	0.48	48.5	2.7	3.3	< 0.2	< 10	< 0.2
B1104517	7.30	< 5	10	120	3	< 2	0.33	< 2	7.5	2.9	50	3.4	3	0.7	0.4	0.2	1.30	28.0	3.2	2.2	< 0.2	< 10	< 0.2
B1104518	7.30	< 5	20	13	< 3	23	0.28	< 2	4.0	0.8	50	3.2	7	0.8	0.5	< 0.1	0.77	35.1	3.0	1.6	< 0.2	< 10	< 0.2
B1104519	7.48	< 5	10	27	4	< 2	0.19	< 2	1.3	0.6	50	9.9	5	0.5	0.3	< 0.1	0.59	37.1	2.7	1.9	< 0.2	< 10	< 0.2
B1104521	6.61	< 5	10	11	6	8	0.28	< 2	2.7	0.5	40	16.0	2	1.2	0.7	< 0.1	0.76	31.5	2.8	2.3	< 0.2	< 10	< 0.2
B1104522	8.35	< 5	20	155	4	4	0.30	< 2	4.1	1.3	40	11.7	9	0.8	0.3	0.2	0.54	32.7	3.1	2.6	< 0.2	< 10	< 0.2
B1104523	8.92	< 5	20	154	10	< 2	0.85	< 2	4.7	1.0	50	1.0	3	0.7	0.4	0.3	0.58	38.2	3.1	2.5	< 0.2	< 10	< 0.2
B1104524	7.14	< 5	< 10	46	< 3	4	0.08	< 2	1.4	0.8	40	31.3	6	0.4	0.2	< 0.1	0.34	22.2	2.4	2.0	< 0.2	< 10	< 0.2
B1104525	7.31	< 5	< 10	12	6	6	0.38	< 2	2.9	0.3	30	19.4	< 2	1.6	1.0	< 0.1	0.73	28.3	2.4	3.3	0.3	< 10	< 0.2
B1104526	6.04	< 5	< 10	24	5	34	0.24	< 2	2.3	< 0.2	30	7.9	5	< 0.3	< 0.1	< 0.1	0.66	29.2	2.2	1.9	< 0.2	< 10	< 0.2
B1104527	8.03	< 5	< 10	49	3	6	0.28	< 2	1.4	0.3	50	14.5	5	0.4	< 0.1	< 0.1	0.39	20.2	0.5	1.9	< 0.2	< 10	< 0.2
B1104528	7.27	< 5	< 10	29	5	< 2	0.27	< 2	3.7	0.6	30	9.6	< 2	1.3	0.7	0.1	0.64	26.3	0.9	1.8	0.2	< 10	< 0.2
B1104529	7.42	< 5	< 10	51	4	< 2	0.19	< 2	< 0.8	0.2	40	7.4	< 2	0.4	0.1	< 0.1	0.43	30.6	< 0.1	1.8	< 0.2	< 10	< 0.2
B1104531	7.40	< 5	10	5	< 3	< 2	0.28	< 2	1.1	0.4	50	5.5	< 2	0.3	0.1	< 0.1	0.66	45.7	2.0	2.4	< 0.2	< 10	< 0.2
B1104532	7.43	< 5	< 10	15	5	< 2	0.23	< 2	2.5	0.5	30	7.4	3	0.6	0.3	< 0.1	0.53	28.4	2.5	1.6	< 0.2	< 10	< 0.2
B1104533	8.34	< 5	20	59	280	< 2	0.27	< 2	1.8	0.8	30	22.9	< 2	< 0.3	0.2	0.2	0.52	41.0	2.2	3.3	< 0.2	< 10	< 0.2
B1104534	7.49	< 5	10	9	6	8	0.17	< 2	2.0	0.3	40	18.6	< 2	0.6	0.2	< 0.1	0.46	30.4	2.2	1.6	< 0.2	< 10	< 0.2
B1104535	7.41	< 5	10	109	5	7	0.15	< 2	1.3	0.3	40	49.6	< 2	0.4	0.1	< 0.1	0.39	23.9	2.1	1.8	< 0.2	< 10	< 0.2
B1104536	8.01	< 5	10	123	4	< 2	0.29	< 2	4.6	0.9	50	13.2	4	0.5	0.2	< 0.1	0.50	29.7	1.9	2.2	< 0.2	< 10	< 0.2
B1104537	9.53	< 5	< 10	68	3	< 2	0.04	< 2	< 0.8	0.3	40	90.9	< 2	< 0.3	< 0.1	< 0.1	0.21	37.2	1.2	2.8	< 0.2	< 10	< 0.2
B1104538	7.51	< 5	< 10	6	5	14	0.28	< 2	1.6	0.4	50	5.6	< 2	0.5	0.2	< 0.1	0.66	32.0	1.5	1.8	< 0.2	< 10	< 0.2
B1104539	7.66	< 5	20	97	62	< 2	0.03	< 2	< 0.8	1.1	40	27.7	5	< 0.3	< 0.1	< 0.1	0.47	35.9	1.7	3.5	< 0.2	< 10	< 0.2
B1104541	8.25	< 5	< 10	6	4	6	0.05	< 2	< 0.8	0.5	80	17.7	3	< 0.3	< 0.1	< 0.1	0.57	23.6	1.3	3.1	< 0.2	< 10	< 0.2
B1104542	8.03	< 5	10	8	8	< 2	0.11	< 2	< 0.8	0.4	40	20.0	4	< 0.3	< 0.1	< 0.1	0.57	36.3	1.1	1.8	< 0.2	< 10	< 0.2
B1104543	4.14	< 5	< 10	5	5	37	0.05	< 2	1.4	0.5	100	10.5	< 2	< 0.3	0.2	< 0.1	0.61	23.9	1.4	1.7	< 0.2	< 10	< 0.2
B1104544	7.89	< 5	< 10	4	8	< 2	0.39	< 2	3.8	0.5	70	5.8	3	1.1	0.6	< 0.1	0.57	32.8	1.8	2.1	< 0.2	< 10	< 0.2
B1104545	7.86	< 5	< 10	11	< 3	< 2	0.11	< 2	3.0	0.5	40	10.2	2	0.5	0.4	< 0.1	0.46	25.4	1.3	1.8	< 0.2	< 10	< 0.2
B1104546	6.65	< 5	< 10	7	4	29	0.07	< 2	3.8	0.6	40	9.0	3	0.4	0.1	< 0.1	0.53	30.3	1.4	2.1	< 0.2	< 10	< 0.2
B1104547	7.53	< 5	< 10	29	5	< 2	0.14	< 2	1.2	< 0.2	30	8.1	< 2	< 0.3	0.2	< 0.1	0.59	32.1	1.2	2.4	< 0.2	< 10	< 0.2
B1104548	8.03	< 5	< 10	18	7	< 2	0.26	< 2	2.1	0.3	< 30	2.0	< 2	0.7	0.3	< 0.1	0.57	36.6	1.3	3.7	< 0.2	< 10	< 0.2
B1104549	7.41	< 5	10	57	4	< 2	0.16	< 2	3.5	0.4	30	11.8	3	0.7	0.4	< 0.1	0.41	26.8	1.4	1.8	< 0.2	< 10	< 0.2
B1104551	8.47	< 5	30	82	195	< 2	0.43	< 2	2.3	0.8	30	29.3	< 2	< 0.3	< 0.1	0.2	0.55	55.4	1.1	3.6	< 0.2	< 10	< 0.2
B1104552	7.29	< 5	20	92	125	< 2	0.04	< 2	< 0.8	0.5	< 30	23.6	4	< 0.3	< 0.1	< 0.1	0.51	54.0	0.9	2.7	< 0.2	< 10	< 0.2
B1104553	7.89	< 5	< 10	32	11	< 2	0.02	< 2	< 0.8	0.4	< 30	19.1	3	< 0.3	< 0.1	< 0.1	0.96	65.4	0.9	2.5	< 0.2	< 10	< 0.2
B1104554	8.72	< 5	10	469	14	< 2	0.54	< 2	7.2	0.4	< 30	47.8	13	0.8	0.2	0.3	0.39	36.1	2.0	3.1	< 0.2	< 10	< 0.2
B1104751	7.83	< 5	< 10	34	7	< 2	0.20	< 2	3.4	0.7	30	15.4	4	< 0.3	< 0.1	< 0.1	0.75	46.9	0.7	2.9	< 0.2	< 10	< 0.2

## Results

## Activation Laboratories Ltd.

## Report: A22-10006

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
B1104752	5.92	< 5	< 10	125	11	< 2	0.07	< 2	3.3	0.4	30	20.6	3	< 0.3	< 0.1	< 0.1	0.33	25.2	0.7	2.8	< 0.2	10	< 0.2
B1104753	7.61	< 5	< 10	103	4	< 2	0.04	< 2	1.7	0.4	< 30	13.2	4	< 0.3	< 0.1	0.3	0.49	32.2	0.9	3.2	< 0.2	< 10	< 0.2
B1104754	5.10	< 5	< 10	42	5	3	0.05	< 2	1.6	0.4	< 30	48.2	4	< 0.3	0.1	< 0.1	0.43	25.7	1.0	2.4	< 0.2	< 10	< 0.2
B1104755	8.21	< 5	< 10	15	5	4	0.13	< 2	2.7	0.7	< 30	26.0	6	0.7	0.4	< 0.1	0.61	29.2	1.0	2.6	< 0.2	< 10	< 0.2
B1104756	7.83	< 5	< 10	11	5	4	0.07	< 2	1.3	0.7	< 30	65.4	7	< 0.3	< 0.1	< 0.1	0.47	33.3	0.6	2.3	< 0.2	< 10	< 0.2
B1104757	7.68	< 5	< 10	11	6	< 2	0.23	< 2	1.0	0.2	< 30	17.3	24	0.4	0.3	< 0.1	0.44	27.6	0.7	1.7	< 0.2	< 10	< 0.2
B1104758	7.71	< 5	< 10	35	5	5	0.08	< 2	0.9	0.7	< 30	34.3	8	< 0.3	0.1	< 0.1	0.56	22.9	0.8	1.4	< 0.2	< 10	< 0.2
B1104759	7.87	< 5	< 10	22	5	< 2	0.11	< 2	0.9	0.6	80	20.0	3	< 0.3	0.1	< 0.1	0.40	27.1	0.8	2.7	< 0.2	< 10	< 0.2
B1104761	7.87	< 5	< 10	15	6	3	0.26	< 2	3.3	3.0	190	12.1	10	0.8	0.6	< 0.1	0.56	25.3	0.5	2.2	< 0.2	< 10	< 0.2
B1104762	7.58	< 5	< 10	4	10	10	0.26	< 2	3.1	0.8	60	12.7	4	0.9	0.6	< 0.1	0.73	30.5	1.0	3.0	< 0.2	< 10	< 0.2
B1104763	8.02	< 5	< 10	6	5	< 2	0.11	< 2	1.9	0.4	40	24.0	< 2	0.9	0.7	< 0.1	0.59	28.7	1.1	3.0	< 0.2	< 10	< 0.2
B1104764	8.49	< 5	< 10	8	7	< 2	0.14	< 2	2.0	0.4	30	23.2	6	0.5	0.4	< 0.1	0.61	34.3	0.8	3.2	< 0.2	< 10	< 0.2
B1104765	8.14	< 5	< 10	17	5	5	0.16	< 2	4.3	0.6	40	13.9	< 2	1.7	0.9	< 0.1	0.61	26.9	1.6	1.8	0.3	< 10	< 0.2
B1104766	7.34	< 5	< 10	12	6	22	0.26	< 2	2.2	0.5	30	8.2	4	0.5	0.3	< 0.1	0.55	28.5	0.9	1.6	< 0.2	< 10	< 0.2
B1104767	6.09	< 5	< 10	48	28	5	0.03	< 2	2.4	0.7	< 30	32.7	2	< 0.3	< 0.1	< 0.1	0.43	24.4	0.5	3.1	< 0.2	< 10	< 0.2
B1104768	8.33	< 5	< 10	107	150	11	0.28	< 2	10.2	0.5	< 30	21.2	4	0.4	0.2	0.5	0.48	36.9	1.3	3.8	< 0.2	< 10	< 0.2
B1104769	8.07	< 5	< 10	460	34	7	0.66	< 2	10.5	1.9	70	70.1	5	< 0.3	0.1	0.4	0.63	29.5	1.0	2.7	< 0.2	< 10	< 0.2
B1104771	8.96	< 5	< 10	41	23	< 2	0.08	< 2	3.1	0.4	< 30	25.6	2	0.4	0.1	0.7	0.24	41.4	1.2	4.5	< 0.2	< 10	< 0.2
B1104772	7.87	< 5	30	44	250	3	0.04	< 2	< 0.8	0.5	30	138	< 2	< 0.3	< 0.1	< 0.1	1.05	75.4	0.6	2.9	< 0.2	< 10	< 0.2
B1104773	7.66	< 5	< 10	16	12	14	0.31	< 2	1.9	0.6	< 30	11.8	3	0.6	0.1	0.1	0.75	35.1	0.8	2.2	< 0.2	< 10	< 0.2
B1104774	7.64	< 5	< 10	10	4	6	0.16	< 2	3.9	0.6	30	7.5	12	0.9	0.6	< 0.1	0.59	31.9	1.0	2.1	< 0.2	< 10	< 0.2
B1104775	7.57	< 5	< 10	12	6	< 2	0.17	< 2	2.0	0.4	40	8.4	< 2	0.6	0.3	< 0.1	0.47	33.5	0.8	1.7	< 0.2	< 10	< 0.2
B1104776	7.63	< 5	< 10	93	3	< 2	0.23	< 2	3.3	1.4	40	7.7	2	0.4	0.3	0.1	0.71	30.4	0.8	2.1	< 0.2	< 10	< 0.2
B1104777	6.24	< 5	< 10	45	4	< 2	0.33	< 2	18.6	6.3	90	1.9	< 2	1.3	0.7	0.3	2.01	25.9	1.6	1.9	0.2	< 10	< 0.2
B1104778	7.84	< 5	< 10	15	< 3	< 2	0.15	< 2	1.3	0.9	60	5.9	< 2	0.4	0.3	< 0.1	0.47	31.0	0.6	1.9	< 0.2	< 10	< 0.2
B1104779	7.15	< 5	30	76	4	< 2	0.26	< 2	1.9	0.7	< 30	5.8	< 2	0.3	0.2	0.1	0.63	25.9	0.6	2.0	< 0.2	< 10	< 0.2
B1104781	7.54	< 5	20	7	< 3	< 2	0.30	< 2	4.7	0.5	30	7.0	3	1.6	1.0	< 0.1	0.58	32.4	1.0	2.4	0.3	< 10	< 0.2
B1104782	7.45	< 5	20	14	< 3	< 2	0.14	< 2	0.9	0.5	50	11.0	7	< 0.3	< 0.1	< 0.1	0.38	23.9	0.3	1.8	< 0.2	< 10	< 0.2
B1104783	8.17	< 5	30	93	25	< 2	0.30	< 2	1.0	0.4	30	5.0	< 2	0.3	< 0.1	0.2	0.50	47.2	0.7	4.1	< 0.2	< 10	< 0.2
B1104784	7.31	< 5	30	15	4	< 2	0.27	< 2	4.0	< 0.2	< 30	5.2	< 2	1.1	0.6	< 0.1	0.58	30.0	0.9	1.9	< 0.2	< 10	< 0.2
B1104785	7.44	< 5	10	15	< 3	< 2	0.23	< 2	2.1	0.6	40	12.8	6	0.4	< 0.1	< 0.1	0.50	27.2	0.2	1.3	< 0.2	< 10	< 0.2
B1104786	8.13	< 5	10	9	5	< 2	0.13	< 2	2.8	0.3	30	26.5	2	0.5	0.2	< 0.1	0.37	31.2	0.2	3.2	< 0.2	< 10	< 0.2
B1104787	7.64	< 5	10	10	5	2	0.21	< 2	1.9	0.4	< 30	5.1	5	0.6	0.3	< 0.1	0.54	42.6	0.6	2.2	< 0.2	< 10	< 0.2
B1104788	7.53	< 5	20	14	< 3	< 2	0.01	< 2	1.2	0.4	< 30	32.9	< 2	< 0.3	< 0.1	< 0.1	0.37	22.3	0.1	1.7	< 0.2	< 10	< 0.2
B1104789	8.15	< 5	< 10	37	5	< 2	0.21	< 2	1.2	0.7	50	19.4	6	< 0.3	0.2	< 0.1	0.52	31.8	0.3	3.5	< 0.2	< 10	< 0.2
B1104791	7.13	< 5	20	11	4	3	0.32	< 2	2.0	0.6	40	4.7	7	< 0.3	0.2	< 0.1	0.87	28.4	0.2	2.0	< 0.2	< 10	< 0.2
B1104792	7.74	< 5	10	14	< 3	5	0.09	< 2	1.8	0.4	40	12.7	3	< 0.3	0.2	< 0.1	0.67	32.5	0.4	1.3	< 0.2	< 10	< 0.2
B1104793	7.63	< 5	< 10	15	6	< 2	0.17	< 2	1.1	0.3	40	7.6	3	0.4	0.1	< 0.1	0.78	43.5	0.3	2.5	< 0.2	< 10	< 0.2

## Results

## Activation Laboratories Ltd.

## Report: A22-10006

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.4	15	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
B1104501	0.7	0.6	71	< 0.01	1010	3	20.1	4.1	< 10	1.9	< 0.1	278	< 0.01	< 2	< 8	> 30.0	< 0.1	33.4	15	5.6	< 0.1	< 6	0.5
B1104502	2.4	1.1	324	0.10	205	4	90.4	4.2	< 10	1.8	0.3	497	< 0.01	< 2	< 8	> 30.0	0.2	61.0	26	8.0	< 0.1	< 6	0.2
B1104503	2.7	1.7	100	0.02	116	< 1	25.7	1.1	10	11.2	0.4	660	< 0.01	< 2	9	> 30.0	0.3	22.3	37	4.2	< 0.1	7	0.2
B1104504	3.4	31.4	229	0.11	262	6	31.0	23.3	30	39.7	6.6	620	< 0.01	< 2	< 8	> 30.0	3.3	25.9	101	8.7	0.5	< 6	20.2
B1104505	4.9	0.6	< 15	0.08	78	9	7.5	1.3	10	16.9	0.4	455	< 0.01	< 2	< 8	> 30.0	0.4	3.8	30	3.1	< 0.1	8	0.6
B1104507	4.9	1.6	59	0.02	230	4	40.0	4.1	< 10	11.7	0.3	838	< 0.01	< 2	< 8	> 30.0	0.2	24.6	27	7.8	< 0.1	< 6	0.3
B1104508	6.8	0.5	84	0.05	137	3	36.8	3.6	10	16.0	0.2	1100	< 0.01	< 2	< 8	> 30.0	0.1	22.4	25	5.8	< 0.1	< 6	0.2
B1104509	4.4	1.5	74	0.03	252	4	23.0	4.4	10	15.5	0.4	527	0.01	< 2	< 8	> 30.0	0.3	16.7	27	3.5	< 0.1	< 6	1.3
B1104511	5.4	< 0.4	38	0.02	123	5	31.2	3.5	< 10	17.2	0.1	623	< 0.01	< 2	< 8	> 30.0	0.2	10.5	22	17.5	< 0.1	< 6	0.4
B1104512	3.1	< 0.4	< 15	0.02	126	5	8.2	3.2	10	45.3	< 0.1	338	< 0.01	< 2	< 8	> 30.0	< 0.1	11.8	108	3.4	< 0.1	< 6	1.0
B1104513	4.6	3.6	27	0.04	489	4	13.7	5.3	< 10	15.0	0.9	251	< 0.01	< 2	< 8	> 30.0	0.8	9.6	118	4.9	0.2	< 6	3.0
B1104514	3.0	8.2	36	0.07	219	4	13.0	8.3	10	10.4	1.8	312	< 0.01	< 2	< 8	> 30.0	0.9	6.7	165	10.2	< 0.1	< 6	1.1
B1104515	4.2	0.7	< 15	< 0.01	51	5	4.3	3.5	10	7.5	0.2	191	< 0.01	< 2	< 8	> 30.0	0.2	7.0	65	2.1	< 0.1	< 6	0.9
B1104516	3.3	6.8	91	0.09	1290	4	23.7	8.8	< 10	19.3	1.7	478	< 0.01	< 2	< 8	> 30.0	0.8	36.1	227	20.5	< 0.1	< 6	5.1
B1104517	2.7	4.2	< 15	0.36	291	7	20.7	5.8	100	12.2	0.9	187	< 0.01	< 2	< 8	> 30.0	0.7	12.2	51	3.6	< 0.1	< 6	1.7
B1104518	1.1	2.0	22	0.07	193	5	19.9	4.0	20	3.1	0.5	124	< 0.01	< 2	< 8	> 30.0	0.2	10.7	27	3.2	0.1	6	2.9
B1104519	4.1	0.8	< 15	0.03	111	5	22.7	3.2	< 10	19.1	0.2	473	< 0.01	< 2	9	> 30.0	0.3	20.5	29	4.1	< 0.1	< 6	0.9
B1104521	2.5	1.3	69	0.02	603	4	23.9	3.2	10	22.3	0.4	340	< 0.01	< 2	< 8	> 30.0	0.6	17.9	18	7.3	0.1	< 6	1.8
B1104522	4.2	2.4	< 15	0.08	196	7	11.4	4.0	10	17.1	0.6	339	< 0.01	< 2	< 8	> 30.0	0.4	9.3	75	4.5	< 0.1	< 6	1.5
B1104523	0.3	2.9	< 15	0.06	649	3	7.8	4.4	30	20.1	0.5	19.6	< 0.01	< 2	< 8	> 30.0	0.4	4.4	186	2.8	0.1	< 6	2.3
B1104524	6.6	1.0	< 15	< 0.01	188	5	6.4	3.1	20	24.8	0.2	755	< 0.01	< 2	< 8	> 30.0	0.2	9.1	22	3.6	< 0.1	< 6	0.6
B1104525	2.7	1.3	35	< 0.01	1950	4	7.6	3.2	< 10	16.4	0.4	310	< 0.01	< 2	< 8	> 30.0	0.5	9.4	21	1.6	0.2	< 6	1.6
B1104526	1.0	1.3	21	0.03	102	4	21.4	3.0	10	11.9	0.2	142	0.01	< 2	< 8	> 30.0	0.2	15.3	34	5.4	< 0.1	< 6	1.7
B1104527	5.2	0.8	63	< 0.01	103	3	7.6	0.7	10	22.6	0.1	509	< 0.01	< 2	< 8	> 30.0	< 0.1	6.8	27	1.5	< 0.1	7	0.7
B1104528	1.8	1.6	< 15	0.07	227	7	11.4	2.0	10	14.7	0.5	172	< 0.01	< 2	20	> 30.0	0.4	12.1	29	2.6	0.2	8	3.2
B1104529	4.5	0.5	< 15	0.01	107	1	11.1	< 0.4	10	12.2	< 0.1	422	< 0.01	< 2	< 8	> 30.0	< 0.1	15.5	45	3.3	< 0.1	9	1.5
B1104531	2.6	0.7	38	0.04	121	4	30.5	2.5	< 10	6.7	0.2	220	< 0.01	< 2	< 8	> 30.0	< 0.1	40.7	15	2.9	< 0.1	< 6	0.6
B1104532	3.9	1.1	< 15	0.03	335	4	12.3	2.8	20	10.9	0.3	327	< 0.01	< 2	< 8	> 30.0	0.3	6.9	19	6.6	0.1	< 6	1.5
B1104533	1.0	1.7	116	0.04	1680	4	69.5	2.5	20	3.6	0.2	246	< 0.01	< 2	< 8	> 30.0	0.4	55.8	75	25.6	< 0.1	< 6	1.4
B1104534	2.6	1.1	38	0.02	144	3	11.8	2.4	< 10	9.9	0.2	321	< 0.01	< 2	< 8	> 30.0	0.3	11.7	21	2.0	< 0.1	< 6	1.4
B1104535	5.9	0.7	15	0.01	76	4	11.9	2.2	< 10	26.2	0.2	662	< 0.01	< 2	< 8	> 30.0	0.3	12.4	31	1.2	< 0.1	< 6	0.9
B1104536	4.8	2.2	43	0.03	226	4	10.6	4.5	20	17.4	0.7	478	0.02	< 2	< 8	> 30.0	0.6	12.1	69	1.9	< 0.1	< 6	4.4
B1104537	7.9	< 0.4	< 15	< 0.01	73	4	26.7	1.3	< 10	17.7	< 0.1	1500	0.04	< 2	< 8	> 30.0	< 0.1	8.3	34	6.7	< 0.1	< 6	0.7
B1104538	2.2	0.8	17	0.06	96	5	20.8	1.9	20	9.3	0.2	224	< 0.01	< 2	< 8	> 30.0	0.4	15.8	16	3.7	< 0.1	< 6	1.1
B1104539	1.5	< 0.4	< 15	< 0.01	209	4	23.1	1.7	< 10	2.7	0.1	489	< 0.01	< 2	< 8	> 30.0	0.4	67.4	23	10.9	< 0.1	< 6	1.2
B1104541	4.8	< 0.4	20	< 0.01	652	6	7.9	1.6	80	12.2	< 0.1	685	< 0.01	< 2	< 8	> 30.0	< 0.1	12.0	13	2.2	< 0.1	< 6	0.6
B1104542	3.9	< 0.4	45	0.01	102	4	18.9	1.4	10	12.1	< 0.1	518	< 0.01	< 2	< 8	> 30.0	< 0.1	25.2	15	4.3	< 0.1	< 6	0.1
B1104543	1.1	0.9	52	0.01	75	6	19.4	1.6	10	< 0.8	0.1	168	< 0.01	< 2	< 8	> 30.0	0.3	23.0	13	3.1	< 0.1	< 6	1.4
B1104544	0.5	2.2	< 15	0.02	122	7	17.5	2.7	10	12.7	0.5	66.8	< 0.01	< 2	< 8	> 30.0	0.6	6.5	19	3.8	0.2	< 6	5.1
B1104545	5.8	1.7	< 15	< 0.01	149	3	9.0	2.7	20	25.4	0.3	472	< 0.01	< 2	< 8	> 30.0	0.2	8.2	19	2.4	< 0.1	< 6	2.2
B1104546	3.0	2.1	35	0.01	71	3	15.4	2.4	< 10	10.0	0.4	304	< 0.01	< 2	< 8	> 30.0	0.4	15.3	16	2.4	< 0.1	< 6	3.1
B1104547	3.4	0.6	< 15	0.02	262	3	21.6	1.7	< 10	9.1	0.1	325	< 0.01	< 2	< 8	> 30.0	0.1	20.8	17	5.7	< 0.1	< 6	1.1
B1104548	0.7	1.2	< 15	< 0.01	2260	2	24.3	2.0	< 10	5.9	0.3	40.2	< 0.01	< 2	< 8	> 30.0	0.3	5.2	25	15.6	0.1	< 6	1.9
B1104549	4.3	1.9	< 15	0.01	162	3	10.2	2.6	< 10	15.7	0.5	457	< 0.01	< 2	< 8	> 30.0	0.6	8.8	30	4.7	0.1	< 6	2.7
B1104551	1.4	1.3	93	0.05	933	3	63.7	1.8	< 10	4.2	0.4	409	< 0.01	< 2	< 8	> 30.0	0.2	45.9	87	70.8	< 0.1	< 6	1.6
B1104552	4.7	< 0.4	57	0.02	507	4	78.6	0.9	< 10	9.8	< 0.1	961	< 0.01	< 2	< 8	> 30.0	0.1	54.5	35	28.3	< 0.1	< 6	0.3
B1104553	3.1	< 0.4	48	< 0.01	1580	3	90.5	1.1	< 10	6.6	< 0.1	880	< 0.01	< 2	< 8	> 30.0	< 0.1	92.4	20	11.3	< 0.1	< 6	0.4
B1104554	7.0	4.0	36	0.04	654	3	46.1	4.0	< 10	16.2	1.0	881	0.03	< 2	< 8	> 30.0	1.1	8.2	153	28.6	0.2	< 6	0.9
B1104751	0.7	1.9	32	0.04	1720	4	91.0	1.5	20	2.9	0.4	132	< 0.01	< 2	< 8	> 30.0	0.2	97.7	44	21.6	< 0.1	< 6	1.2

## Results

## Activation Laboratories Ltd.

Report: A22-10006

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.4	15	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
B1104752	3.0	1.2	< 15	0.01	72	3	8.1	3.2	< 10	5.8	0.4	319	< 0.01	< 2	< 8	> 30.0	0.2	6.4	93	5.3	< 0.1	< 6	6.4
B1104753	1.6	0.7	< 15	< 0.01	2370	3	20.6	2.3	< 10	1.0	0.3	177	< 0.01	< 2	< 8	> 30.0	0.5	6.6	62	13.2	< 0.1	< 6	0.5
B1104754	1.9	0.8	39	0.01	356	3	35.4	1.5	< 10	3.9	0.2	315	< 0.01	< 2	< 8	> 30.0	0.2	11.7	19	13.5	< 0.1	< 6	0.6
B1104755	4.3	1.2	33	0.01	871	3	13.9	1.8	10	15.6	0.3	576	< 0.01	< 2	10	> 30.0	0.4	18.1	18	5.0	0.1	< 6	2.0
B1104756	4.3	1.1	35	0.02	366	4	22.7	1.6	< 10	7.0	0.2	835	< 0.01	< 2	< 8	> 30.0	0.2	52.8	16	2.9	< 0.1	< 6	0.4
B1104757	3.2	0.6	32	0.01	324	4	13.3	0.7	< 10	11.9	0.2	342	< 0.01	< 2	< 8	> 30.0	0.1	13.7	18	2.6	< 0.1	< 6	0.8
B1104758	5.2	0.5	36	0.02	187	3	14.9	1.2	< 10	16.8	0.1	572	< 0.01	< 2	< 8	> 30.0	0.1	11.1	20	7.0	< 0.1	< 6	0.3
B1104759	4.9	0.4	< 15	0.01	63	7	13.3	1.0	20	13.2	0.1	526	< 0.01	< 2	< 8	> 30.0	0.1	13.5	19	3.9	< 0.1	< 6	0.8
B1104761	2.3	1.3	29	0.03	700	20	18.4	1.6	20	9.9	0.3	301	< 0.01	< 2	< 8	> 30.0	0.4	13.2	21	6.8	0.1	9	1.7
B1104762	1.1	1.7	112	0.01	597	7	25.3	1.7	< 10	3.4	0.4	186	< 0.01	< 2	< 8	> 30.0	0.4	16.8	15	10.2	0.2	< 6	4.1
B1104763	4.5	0.9	65	< 0.01	1140	4	12.3	0.9	20	11.5	0.2	644	< 0.01	< 2	< 8	> 30.0	0.4	15.1	14	2.6	0.1	< 6	2.3
B1104764	3.0	1.1	33	< 0.01	1380	3	14.8	1.4	< 10	10.6	0.3	408	< 0.01	< 2	< 8	> 30.0	0.3	12.9	15	4.2	< 0.1	< 6	2.3
B1104765	4.9	2.2	97	0.02	301	5	17.3	2.4	10	15.5	0.5	471	< 0.01	< 2	8	> 30.0	0.6	15.9	19	5.9	0.2	< 6	3.2
B1104766	2.4	1.3	46	0.04	166	3	20.7	1.2	10	22.1	0.3	253	< 0.01	< 2	< 8	> 30.0	0.2	11.5	20	3.2	< 0.1	< 6	1.1
B1104767	3.3	1.4	16	0.03	311	3	38.1	1.6	10	45.7	0.3	819	< 0.01	< 2	< 8	> 30.0	0.2	11.2	53	24.5	< 0.1	< 6	0.7
B1104768	2.2	4.9	25	0.06	1150	3	91.9	6.5	< 10	20.2	1.4	498	< 0.01	< 2	< 8	> 30.0	1.1	19.3	55	34.2	< 0.1	< 6	1.7
B1104769	3.9	5.4	51	0.18	250	8	44.2	5.1	< 10	20.2	1.3	782	< 0.01	< 2	< 8	> 30.0	0.8	13.0	268	42.6	< 0.1	< 6	1.2
B1104771	1.7	1.2	< 15	0.03	224	3	49.2	2.5	< 10	24.7	0.5	401	< 0.01	< 2	< 8	> 30.0	0.8	4.0	38	40.0	0.1	< 6	0.9
B1104772	5.2	0.5	235	0.05	437	4	104.6	0.8	< 10	6.9	0.1	2550	< 0.01	< 2	< 8	> 30.0	< 0.1	202	29	24.9	< 0.1	< 6	0.3
B1104773	1.6	0.8	46	0.06	137	6	28.2	1.5	< 10	10.0	0.3	203	< 0.01	< 2	< 8	> 30.0	0.3	24.1	27	6.5	< 0.1	< 6	0.9
B1104774	3.3	2.5	16	0.02	1070	4	15.6	1.8	40	11.5	0.5	320	< 0.01	< 2	< 8	> 30.0	0.4	9.8	18	2.0	0.1	< 6	2.1
B1104775	2.8	1.1	21	0.03	437	5	21.1	1.2	20	11.4	0.2	299	< 0.01	< 2	< 8	> 30.0	0.5	15.4	20	4.7	< 0.1	< 6	2.5
B1104776	4.3	2.1	< 15	0.14	310	5	15.7	2.1	10	14.4	0.3	396	< 0.01	< 2	< 8	> 30.0	0.4	12.5	57	3.5	< 0.1	< 6	1.0
B1104777	0.8	11.1	35	0.77	373	3	25.7	8.9	30	4.8	2.4	59.8	0.01	< 2	< 8	> 30.0	1.7	12.5	55	6.7	0.2	< 6	3.8
B1104778	5.0	0.8	57	0.03	152	7	16.7	1.0	30	17.4	0.2	381	< 0.01	< 2	< 8	> 30.0	0.1	12.4	23	3.8	< 0.1	< 6	1.0
B1104779	1.5	0.9	60	0.07	204	3	17.8	0.8	< 10	14.4	0.2	145	< 0.01	< 2	< 8	> 30.0	< 0.1	9.1	47	5.2	< 0.1	< 6	1.4
B1104781	2.7	2.2	63	0.03	201	5	17.7	2.1	10	14.6	0.5	254	< 0.01	< 2	< 8	> 30.0	0.3	9.3	19	3.8	0.2	< 6	4.6
B1104782	5.6	0.6	35	0.01	169	7	8.3	0.6	20	21.3	< 0.1	490	< 0.01	< 2	< 8	> 30.0	0.1	4.4	21	2.5	< 0.1	< 6	0.4
B1104783	0.8	0.8	< 15	< 0.01	1420	3	47.1	0.9	20	10.9	0.2	124	< 0.01	< 2	< 8	> 30.0	0.2	23.2	87	22.7	< 0.1	< 6	1.1
B1104784	2.2	2.3	25	0.04	126	3	19.6	1.8	< 10	11.2	0.5	190	< 0.01	< 2	< 8	> 30.0	0.5	10.0	26	5.1	0.1	< 6	4.4
B1104785	3.2	1.1	40	0.03	124	7	13.4	0.8	20	18.0	0.2	329	< 0.01	< 2	< 8	> 30.0	0.3	5.5	23	4.0	< 0.1	< 6	1.0
B1104786	5.4	1.3	40	0.02	161	4	12.3	1.3	20	19.6	0.3	728	< 0.01	< 2	< 8	> 30.0	0.4	7.9	19	2.3	< 0.1	< 6	1.7
B1104787	1.5	0.8	43	0.05	169	6	21.3	0.8	10	7.6	0.3	239	< 0.01	< 2	< 8	> 30.0	0.2	11.7	21	4.8	< 0.1	< 6	2.7
B1104788	6.9	0.4	22	0.02	121	4	10.4	0.5	10	19.9	0.2	945	< 0.01	< 2	< 8	> 30.0	0.2	10.7	17	2.2	< 0.1	< 6	0.3
B1104789	5.2	0.5	< 15	0.02	259	7	6.3	0.7	30	16.9	0.2	776	< 0.01	< 2	9	> 30.0	0.3	4.0	42	3.5	< 0.1	< 6	0.5
B1104791	2.2	1.1	34	0.03	175	4	14.1	0.9	20	15.6	0.2	238	< 0.01	< 2	< 8	> 30.0	0.2	14.3	20	2.4	< 0.1	< 6	0.5
B1104792	6.2	1.0	94	0.03	124	5	15.2	0.7	20	23.2	0.2	653	< 0.01	< 2	< 8	> 30.0	0.3	8.6	20	2.4	< 0.1	< 6	1.0
B1104793	1.6	0.5	< 15	0.02	1470	4	29.8	0.5	10	10.6	0.1	241	< 0.01	< 2	< 8	> 30.0	0.1	9.3	27	11.8	0.1	< 6	1.9

Results

Activation Laboratories Ltd.

Report: A22-10006

Analyte Symbol	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
B1104501	< 0.01	1.4	< 0.1	3.6	7	1.9	0.5	0.7	30
B1104502	0.04	2.4	< 0.1	0.3	7	4.9	0.4	0.7	80
B1104503	< 0.01	2.7	< 0.1	0.4	< 5	0.9	2.1	< 0.1	30
B1104504	0.07	4.2	0.2	8.7	13	2.5	13.7	1.9	80
B1104505	< 0.01	3.2	< 0.1	1.1	< 5	< 0.7	2.5	0.3	< 30
B1104507	< 0.01	5.7	< 0.1	0.3	5	2.2	0.8	0.9	50
B1104508	0.01	7.2	< 0.1	1.1	6	2.8	0.3	0.6	40
B1104509	0.01	3.5	< 0.1	1.3	6	2.2	1.7	0.8	30
B1104511	< 0.01	4.2	< 0.1	0.2	6	2.0	0.1	0.6	< 30
B1104512	0.01	1.9	< 0.1	0.6	6	4.8	0.2	0.5	< 30
B1104513	0.02	1.6	< 0.1	3.3	7	1.3	5.7	0.9	< 30
B1104514	0.02	2.0	< 0.1	1.1	9	1.2	0.7	0.6	< 30
B1104515	< 0.01	1.2	< 0.1	1.6	5	1.2	0.9	0.6	< 30
B1104516	0.04	3.2	< 0.1	3.1	12	2.1	0.8	0.7	< 30
B1104517	0.05	1.0	< 0.1	3.9	20	1.9	4.4	1.0	< 30
B1104518	0.01	0.6	0.1	3.6	< 5	3.5	4.6	1.1	< 30
B1104519	< 0.01	2.8	< 0.1	0.9	7	2.2	3.3	1.0	< 30
B1104521	< 0.01	2.0	< 0.1	1.8	< 5	1.5	7.1	1.2	50
B1104522	0.02	1.9	< 0.1	1.4	9	1.1	4.0	1.0	< 30
B1104523	0.01	0.1	0.1	3.2	5	1.8	5.4	1.1	< 30
B1104524	< 0.01	5.1	< 0.1	0.6	< 5	2.4	2.6	0.6	50
B1104525	< 0.01	2.0	0.2	2.0	< 5	1.5	11.1	2.1	< 30
B1104526	0.01	0.7	< 0.1	1.1	< 5	2.0	1.0	0.5	< 30
B1104527	< 0.01	3.7	< 0.1	0.9	< 5	0.9	2.1	0.5	< 30
B1104528	< 0.01	1.2	0.2	4.2	< 5	< 0.7	8.4	1.4	< 30
B1104529	< 0.01	2.9	< 0.1	1.2	< 5	< 0.7	1.3	0.3	30
B1104531	< 0.01	1.0	< 0.1	1.3	< 5	3.0	1.3	0.6	30
B1104532	< 0.01	2.0	< 0.1	1.3	< 5	1.5	2.6	0.7	< 30
B1104533	< 0.01	1.3	< 0.1	0.9	< 5	2.8	0.5	0.4	< 30
B1104534	< 0.01	2.0	< 0.1	0.7	< 5	1.6	3.2	0.7	< 30
B1104535	< 0.01	4.7	< 0.1	0.8	< 5	2.1	2.1	0.4	< 30
B1104536	0.01	3.2	< 0.1	3.0	5	1.8	2.5	0.5	< 30
B1104537	< 0.01	11.2	< 0.1	0.5	< 5	2.1	0.2	0.4	< 30
B1104538	< 0.01	1.3	< 0.1	1.5	< 5	1.7	1.8	0.5	30
B1104539	< 0.01	2.5	< 0.1	1.5	< 5	2.1	0.3	0.4	< 30
B1104541	< 0.01	4.5	< 0.1	1.1	< 5	2.0	1.3	0.4	< 30
B1104542	< 0.01	3.2	< 0.1	0.4	< 5	2.6	1.0	0.3	< 30
B1104543	< 0.01	0.9	< 0.1	2.7	< 5	3.9	1.5	0.3	< 30
B1104544	0.01	0.5	0.1	6.9	< 5	2.3	6.9	1.1	30
B1104545	< 0.01	3.0	< 0.1	3.0	< 5	2.1	3.3	0.7	< 30
B1104546	< 0.01	1.8	< 0.1	3.5	< 5	2.3	2.7	0.4	< 30
B1104547	< 0.01	1.8	< 0.1	1.1	< 5	2.1	1.8	0.6	< 30
B1104548	< 0.01	0.2	< 0.1	2.6	< 5	0.8	3.4	0.8	< 30
B1104549	< 0.01	3.3	< 0.1	2.1	< 5	1.0	4.1	0.6	< 30
B1104551	< 0.01	2.2	< 0.1	2.1	8	2.3	1.5	0.2	< 30
B1104552	< 0.01	6.5	< 0.1	0.5	< 5	2.1	0.3	0.3	40
B1104553	< 0.01	4.7	< 0.1	0.4	< 5	2.5	0.2	0.2	30
B1104554	< 0.01	6.5	< 0.1	1.8	< 5	1.7	4.1	0.4	< 30
B1104751	< 0.01	0.8	< 0.1	7.3	< 5	2.2	0.9	0.3	40

Results

Activation Laboratories Ltd.

Report: A22-10006

Analyte Symbol	Ti	Ti	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
B1104752	< 0.01	2.0	< 0.1	2.8	< 5	1.4	0.2	0.2	< 30
B1104753	< 0.01	1.2	< 0.1	1.8	< 5	1.3	0.9	0.3	< 30
B1104754	< 0.01	2.2	< 0.1	0.8	< 5	1.2	1.0	0.3	< 30
B1104755	< 0.01	3.6	< 0.1	4.5	< 5	1.3	4.1	0.6	< 30
B1104756	< 0.01	5.6	< 0.1	1.5	< 5	1.6	0.5	0.2	< 30
B1104757	< 0.01	2.1	< 0.1	0.7	< 5	1.2	2.8	0.3	< 30
B1104758	< 0.01	3.8	< 0.1	0.7	< 5	1.3	1.8	0.2	< 30
B1104759	< 0.01	3.3	< 0.1	0.6	< 5	1.6	1.2	0.3	< 30
B1104761	< 0.01	2.0	< 0.1	3.3	< 5	1.2	5.9	0.7	< 30
B1104762	< 0.01	1.0	< 0.1	7.0	< 5	1.8	5.7	0.8	50
B1104763	< 0.01	4.2	0.2	4.3	< 5	1.5	7.4	1.5	< 30
B1104764	< 0.01	2.5	< 0.1	3.6	< 5	1.2	4.3	0.6	< 30
B1104765	< 0.01	2.7	0.2	1.9	< 5	2.4	10.0	1.3	30
B1104766	0.01	1.4	< 0.1	1.3	< 5	1.6	2.7	0.6	30
B1104767	0.01	6.0	< 0.1	2.0	< 5	1.5	0.3	0.1	< 30
B1104768	< 0.01	3.5	< 0.1	11.9	< 5	1.7	1.8	0.2	30
B1104769	0.05	5.6	< 0.1	2.0	9	2.1	1.0	0.3	< 30
B1104771	< 0.01	2.9	< 0.1	3.7	< 5	1.2	1.9	0.2	< 30
B1104772	0.01	16.6	< 0.1	0.9	6	3.8	0.1	0.2	100
B1104773	0.02	1.1	< 0.1	1.5	< 5	1.6	2.8	0.2	30
B1104774	< 0.01	1.9	0.1	3.0	< 5	1.9	6.1	0.7	30
B1104775	< 0.01	2.0	< 0.1	2.4	< 5	1.8	4.2	0.5	< 30
B1104776	0.03	2.4	< 0.1	1.3	8	1.7	1.8	0.5	< 30
B1104777	0.12	0.3	0.1	6.8	32	1.8	4.9	0.7	< 30
B1104778	< 0.01	2.4	< 0.1	1.5	< 5	1.3	2.6	0.4	< 30
B1104779	0.02	0.8	< 0.1	3.2	< 5	2.7	2.2	0.4	< 30
B1104781	0.01	1.7	0.2	11.7	< 5	1.8	9.5	1.3	40
B1104782	< 0.01	2.8	< 0.1	0.5	< 5	2.1	0.9	0.2	30
B1104783	< 0.01	0.6	< 0.1	1.8	< 5	1.3	1.9	0.3	30
B1104784	0.01	1.0	0.1	5.6	< 5	1.5	6.1	0.9	< 30
B1104785	< 0.01	2.0	< 0.1	1.4	< 5	1.2	1.8	0.4	< 30
B1104786	< 0.01	5.0	< 0.1	1.5	< 5	1.2	3.0	0.6	50
B1104787	< 0.01	1.2	0.1	1.8	< 5	1.5	4.7	0.7	30
B1104788	< 0.01	6.2	< 0.1	0.4	6	0.7	0.8	0.2	30
B1104789	< 0.01	4.9	< 0.1	1.0	< 5	1.7	1.9	0.3	30
B1104791	< 0.01	1.6	< 0.1	0.8	< 5	< 0.7	1.6	0.3	50
B1104792	< 0.01	3.9	< 0.1	0.9	< 5	1.8	2.4	0.5	30
B1104793	< 0.01	1.7	< 0.1	1.4	5	< 0.7	2.1	0.2	< 30

Analyte Symbol	Al	B	Ca	Cd	Ce	Co	Cs	Er	Fe	Gd	Ge	Ho	In	K	La	Li	Mg	Mn	Mo	Nd	Pb	Rb	S	
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	
Lower Limit	0.01	10	0.01	2	0.8	0.2	0.1	0.1	0.05	0.1	0.7	0.2	0.2	0.1	0.4	15	0.01	3	1	0.4	0.8	0.4	0.01	
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	
PTM-1a Meas						> 5000																	22.7	
PTM-1a Cert						20500.00																		22.4
PTM-1a Meas						> 5000																		21.4
PTM-1a Cert						20500.00																		22.4
NIST 696 Meas	> 25.0																							
NIST 696 Cert	28.9																							
Oreas 74a (Fusion) Meas						586			13.9															7.45
Oreas 74a (Fusion) Cert						581			13.7															7.25
Oreas 74a (Fusion) Meas						585			13.8															7.35
Oreas 74a (Fusion) Cert						581			13.7															7.25
OREAS 101a (Fusion) Meas					1400	49.8		19.6	11.4	36.2		6.6		2.3	845		1.19	981	22	425				
OREAS 101a (Fusion) Cert					1400	48.8		19.5	11.06	43.4		6.46		2.34	816		1.23	964	22	403				
OREAS 101a (Fusion) Meas					1390	49.5		18.8	10.5	35.6		6.3		2.2	833		1.13	977	23	431				
OREAS 101a (Fusion) Cert					1400	48.8		19.5	11.06	43.4		6.46		2.34	816		1.23	964	22	403				
NCS DC86304 Meas							1600									> 10000							> 5000	
NCS DC86304 Cert							1680									10600.00							6730	
NCS DC86314 Meas								2740								> 10000							> 5000	
NCS DC86314 Cert								2830								18100.00							11400	
NCS DC86314 Meas																> 10000								
NCS DC86314 Cert																18100.00								
NCS DC86313 Meas																				4				
NCS DC86313 Cert																				3.37				
CZN-4 Meas	0.07			2690		97.5																1780	> 25.0	
CZN-4 Cert	0.0715			2604.000		93.5																1861.000	33.07	
CZN-4 Meas	0.06			2680		98.9																1850	> 25.0	
CZN-4 Cert	0.0715			2604.000		93.5																1861.000	33.07	
OREAS 183 (Fusion ICP) Meas						222																		
OREAS 183 (Fusion ICP) Cert						222.00																		
Lithium Tetraborate FX-LT 100 lot#220610B Meas		> 10000														> 10000								
Lithium																82100								

QC

Activation Laboratories Ltd.

Report: A22-10006

Analyte Symbol	Al	B	Ca	Cd	Ce	Co	Cs	Er	Fe	Gd	Ge	Ho	In	K	La	Li	Mg	Mn	Mo	Nd	Pb	Rb	S
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	10	0.01	2	0.8	0.2	0.1	0.1	0.05	0.1	0.7	0.2	0.2	0.1	0.4	15	0.01	3	1	0.4	0.8	0.4	0.01
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2
Tetraborate FX-LT 100 lot#220610B Cert		255700																					
Lithium Tetraborate FX-LT 100 lot#220610B Meas		> 10000														> 10000							
Lithium Tetraborate FX-LT 100 lot#220610B Cert		255700														82100							
OREAS 922 (Peroxide Fusion) Meas	7.73		0.48		79.5	20.9	6.7	2.7	5.76	6.4		1.2	0.3	2.6	43.8	32	1.60	864		38.7	66.5	162	0.37
OREAS 922 (Peroxide Fusion) Cert	7.59		0.49		88.0	20.9	7.5	3.38	5.71	6.94		1.20	0.3	2.60	45.6	29	1.61	880		38.9	64.0	167	0.389
OREAS 922 (Peroxide Fusion) Meas	7.36		0.45						5.67					2.5		29	1.57						0.36
OREAS 922 (Peroxide Fusion) Cert	7.59		0.49						5.71					2.60		29	1.61						0.389
OREAS 621 (Peroxide Fusion) Meas	6.47		2.09	289	54.3	31.0	3.8		3.86				1.6	2.2	28.7		0.51	569	17	25.2	> 5000	89.0	4.38
OREAS 621 (Peroxide Fusion) Cert	6.63		2.00	295	52.0	31.4	3.6		3.71				1.9	2.23	26.1		0.516	554	14	24.2	13300	89.0	4.51
OREAS 621 (Peroxide Fusion) Meas	6.75		1.89	284	53.1	31.1	3.6		3.79				1.9	2.2	28.0		0.50	546	16	23.8	> 5000	83.4	4.38
OREAS 621 (Peroxide Fusion) Cert	6.63		2.00	295	52.0	31.4	3.6		3.71				1.9	2.23	26.1		0.516	554	14	24.2	13300	89.0	4.51
OREAS 621 (Peroxide Fusion) Meas				278	51.0	30.1	3.6						1.8		28.8			553	15	22.6	> 5000	84.1	
OREAS 621 (Peroxide Fusion) Cert				295	52.0	31.4	3.6						1.9		26.1			554	14	24.2	13300	89.0	
CCU-1e Meas	0.13			77		307			> 30.0								0.74	98			> 5000		> 25.0
CCU-1e Cert	0.139			74.2		301			30.7								0.706	96.0			7030		35.3
CCU-1e Meas	0.14			81		318			> 30.0								0.74	107			> 5000		> 25.0
CCU-1e Cert	0.139			74.2		301			30.7								0.706	96.0			7030		35.3
OREAS 680 (Peroxide Fusion) Meas	7.20		5.70	9	39.8	343	4.1	1.9	11.5	4.0		0.6		1.3	18.7	< 15	3.60	1310		21.5	2530	81.3	5.11
OREAS 680 (Peroxide Fusion) Cert	7.19		5.80	8.18	38.7	334	3.94	1.74	11.9	3.77		0.580		1.29	18.6	14.5	3.71	1240		20.8	2580	76.0	5.14
OREAS 680 (Peroxide Fusion) Meas	7.31		5.85						12.3					1.3		< 15	3.87						5.19
OREAS 680 (Peroxide Fusion) Cert	7.19		5.80						11.9					1.29		14.5	3.71						5.14
OREAS 139 (Peroxide Fusion)	3.73		1.19	291	47.5	25.9	2.8	1.7	11.9				0.8	3.2	24.5	43	0.50	6550	14		> 5000	144	16.2

Analyte Symbol	Al	B	Ca	Cd	Ce	Co	Cs	Er	Fe	Gd	Ge	Ho	In	K	La	Li	Mg	Mn	Mo	Nd	Pb	Rb	S
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	10	0.01	2	0.8	0.2	0.1	0.1	0.05	0.1	0.7	0.2	0.2	0.1	0.4	15	0.01	3	1	0.4	0.8	0.4	0.01
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2
Meas																							
OREAS 139 (Peroxide Fusion) Cert	3.70		1.20	296	49.4	26.0	3.21	1.69	11.9				0.690	3.30	23.1	40.4	0.501	6570	11.1		22000	145	16.04
OREAS 139 (Peroxide Fusion) Meas	3.60		1.21	289	48.3	25.2	4.2	2.3	11.8				0.5	3.2	24.3	36	0.49	6480	9		> 5000	152	16.0
OREAS 139 (Peroxide Fusion) Cert	3.70		1.20	296	49.4	26.0	3.21	1.69	11.9				0.690	3.30	23.1	40.4	0.501	6570	11.1		22000	145	16.04
OREAS 624 (Peroxide Fusion) Meas	4.26		1.52	129	31.0	273	1.4		16.5				4.3	1.0	16.7	< 15	1.30	655	18	15.9	> 5000	33.6	13.3
OREAS 624 (Peroxide Fusion) Cert	4.32		1.49	133	32.9	273	1.32		16.3				4.14	0.991	17.3	10.3	1.31	660	17.8	16.8	6120	33.0	13.2
OREAS 624 (Peroxide Fusion) Meas	4.14		1.49	127	33.7	281	1.3		16.5				4.6	0.9	18.0	< 15	1.30	678	18	16.6	> 5000	31.8	12.4
OREAS 624 (Peroxide Fusion) Cert	4.32		1.49	133	32.9	273	1.32		16.3				4.14	0.991	17.3	10.3	1.31	660	17.8	16.8	6120	33.0	13.2
OREAS 124 (Peroxide Fusion) Meas	4.61		0.11		47.1			1.6	1.57	3.5		0.4		2.6	19.5		0.22	696		22.1		85.6	
OREAS 124 (Peroxide Fusion) Cert	4.62		0.0880		47.6			1.60	1.56	3.47		0.580		2.62	21.6		0.224	700		20.8		86.0	
OREAS 124 (Peroxide Fusion) Meas	4.56		0.09						1.56					2.6			0.21						
OREAS 124 (Peroxide Fusion) Cert	4.62		0.0880						1.56					2.62			0.224						
AMIS 0346 (Peroxide Fusion) Meas									> 30.0														
AMIS 0346 (Peroxide Fusion) Cert									44.3														
AMIS 0346 (Peroxide Fusion) Meas									> 30.0														
AMIS 0346 (Peroxide Fusion) Cert									44.3														
NCS DC73520 Meas				< 2		13.3						5.8						9180	1420		7.5		0.44
NCS DC73520 Cert				0.5		12.9						6.0						9100	1500		11		0.44
NCS DC73520 Meas																							0.43
NCS DC73520 Cert																							0.44
OREAS 148 (Peroxide Fusion) Meas	5.34		0.91						3.11					1.5		4690	0.46						
OREAS 148 (Peroxide Fusion)	5.37		0.90						3.06					1.5		4760	0.47						

QC

Activation Laboratories Ltd.

Report: A22-10006

Analyte Symbol	Al	B	Ca	Cd	Ce	Co	Cs	Er	Fe	Gd	Ge	Ho	In	K	La	Li	Mg	Mn	Mo	Nd	Pb	Rb	S	
Unit Symbol	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	
Lower Limit	0.01	10	0.01	2	0.8	0.2	0.1	0.1	0.05	0.1	0.7	0.2	0.2	0.1	0.4	15	0.01	3	1	0.4	0.8	0.4	0.01	
Method Code	FUS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	
Cert																								
OREAS 148 (Peroxide Fusion) Meas	5.52		0.87						3.11					1.5		4740	0.45							
OREAS 148 (Peroxide Fusion) Cert	5.37		0.90						3.06					1.5		4760	0.47							
B1104505 Orig	6.84	< 10	0.12	< 2	1.7	0.9	38.4	0.1	0.55	0.3	2.5	< 0.2	< 0.2	4.9	0.6	< 15	0.08	78	8	1.0	16.2	462	< 0.01	
B1104505 Dup	6.78	10	0.13	< 2	1.9	0.8	39.2	0.3	0.55	0.4	2.7	< 0.2	< 0.2	4.9	0.6	< 15	0.08	79	10	1.5	17.5	447	< 0.01	
B1104516 Orig	10.1	20	0.41	< 2	12.3	1.2	74.7	0.1	0.48	2.6	3.1	< 0.2	< 0.2	3.3	7.2	89	0.09	1290	4	8.9	18.3	473	< 0.01	
B1104516 Dup	10.1	20	0.48	< 2	12.1	1.1	74.0	0.1	0.49	2.8	3.6	< 0.2	< 0.2	3.3	6.4	93	0.09	1290	4	8.6	20.2	484	< 0.01	
B1104526 Orig	6.04	10	0.23	< 2	2.3	0.3	7.7	< 0.1	0.67	2.6	2.3	< 0.2	< 0.2	1.0	1.3	22	0.03	106	4	3.1	12.1	138	0.02	
B1104526 Dup	6.05	< 10	0.25	< 2	2.3	< 0.2	8.0	0.1	0.66	1.7	1.6	< 0.2	< 0.2	1.1	1.4	20	0.03	97	4	2.9	11.7	147	0.01	
B1104541 Orig	8.42	< 10	0.05	< 2	< 0.8	0.6	17.7	0.1	0.57	1.6	3.4	< 0.2	< 0.2	4.8	< 0.4	19	< 0.01	648	8	1.6	11.4	686	0.02	
B1104541 Dup	8.08	< 10	0.04	< 2	< 0.8	0.4	17.8	< 0.1	0.57	1.1	2.9	< 0.2	< 0.2	4.7	< 0.4	20	< 0.01	656	5	1.6	13.1	684	< 0.01	
B1104551 Orig	8.47	30	0.43	< 2	2.3	0.8	29.3	< 0.1	0.55	1.1	3.6	< 0.2	< 0.2	1.4	1.3	93	0.05	933	3	1.8	4.2	409	< 0.01	
B1104551 Split PREP DUP	8.38	30	0.39	< 2	1.8	0.7	29.5	< 0.1	0.56	1.0	2.4	< 0.2	< 0.2	1.3	0.9	94	0.05	1040	3	2.0	2.3	418	< 0.01	
B1104553 Orig	7.74	10	0.03	< 2	< 0.8	0.4	19.1	< 0.1	0.96	0.9	2.2	< 0.2	< 0.2	3.1	< 0.4	48	< 0.01	1570	3	1.2	6.8	873	< 0.01	
B1104553 Dup	8.03	< 10	0.02	< 2	< 0.8	0.5	19.1	< 0.1	0.97	0.8	2.9	< 0.2	< 0.2	3.2	< 0.4	48	0.01	1590	2	1.1	6.4	887	< 0.01	
B1104761 Orig	7.85	< 10	0.28	< 2	3.0	2.9	11.5	0.4	0.56	0.8	2.2	< 0.2	< 0.2	2.3	1.2	39	0.03	700	32	1.4	9.3	296	< 0.01	
B1104761 Dup	7.89	< 10	0.25	< 2	3.6	3.0	12.8	0.7	0.56	0.2	2.3	< 0.2	< 0.2	2.3	1.4	18	0.03	699	7	1.8	10.5	307	< 0.01	
B1104773 Orig	7.42	50	0.34	< 2	2.2	0.5	11.8	0.2	0.73	0.9	2.1	< 0.2	< 0.2	1.5	1.0	44	0.06	137	4	1.4	8.8	201	< 0.01	
B1104773 Dup	7.91	< 10	0.29	< 2	1.6	0.6	11.8	0.1	0.78	0.7	2.2	< 0.2	< 0.2	1.6	0.7	47	0.06	137	7	1.5	11.1	205	< 0.01	
B1104784 Orig	7.24	30	0.24	< 2	3.6	< 0.2	5.5	0.7	0.58	1.0	1.7	< 0.2	< 0.2	2.1	2.2	25	0.04	127	3	1.6	11.5	191	< 0.01	
B1104784 Dup	7.37	30	0.30	< 2	4.3	0.3	4.9	0.5	0.58	0.9	2.2	< 0.2	< 0.2	2.2	2.4	25	0.04	126	4	2.1	10.8	189	< 0.01	
B1104791 Orig	7.21	20	0.32	< 2	2.1	0.6	5.1	0.2	0.86	0.2	1.8	< 0.2	< 0.2	2.2	1.1	34	0.03	170	4	0.9	17.4	234	< 0.01	
B1104791 Dup	7.06	10	0.33	< 2	1.9	0.6	4.3	0.2	0.87	0.2	2.2	< 0.2	< 0.2	2.2	1.1	34	0.03	179	5	1.0	13.7	242	< 0.01	
B1104793 Orig	7.63	< 10	0.17	< 2	1.1	0.3	7.6	0.1	0.78	0.3	2.5	< 0.2	< 0.2	1.6	0.5	< 15	0.02	1470	4	0.5	10.6	241	< 0.01	
B1104793 Split PREP DUP	7.76	< 10	0.19	< 2	1.3	0.4	7.5	0.2	0.91	0.3	2.9	< 0.2	< 0.2	1.6	0.6	< 15	0.03	1520	6	0.7	8.9	236	< 0.01	
Method Blank	< 0.01		< 0.01						< 0.05					< 0.1		< 15	< 0.01						< 0.01	
Method Blank	< 0.01		< 0.01						< 0.05					< 0.1		< 15	< 0.01						< 0.01	
Method Blank	< 0.01		< 0.01						< 0.05					< 0.1		< 15	< 0.01						< 0.01	
Method Blank	< 0.01	< 10	< 0.01	< 2	< 0.8	< 0.2	< 0.1	< 0.1	< 0.05	< 0.1	< 0.7	< 0.2	< 0.2	< 0.1	< 0.4	< 15	< 0.01	< 3	7	< 0.4	7.0	< 0.4	< 0.01	
Method Blank	< 0.01	< 10	< 0.01	< 2	< 0.8	0.3	< 0.1	< 0.1	< 0.05	0.8	< 0.7	< 0.2	< 0.2	< 0.1	< 0.4	< 15	< 0.01	< 3	4	5	0.6	< 0.8	0.8	< 0.01
Method Blank	0.01	< 10	0.38	< 2	< 0.8	< 0.2	0.2	< 0.1	< 0.05	< 0.1	< 0.7	< 0.2	< 0.2	< 0.1	< 0.4	29	0.08	< 3	4	< 0.4	5.1	0.6	0.03	
Method Blank		20		< 2	< 0.8	< 0.2	0.1	< 0.1		0.3	< 0.7	< 0.2	< 0.2		< 0.4			< 3	5	0.5	3.2	0.5		
Method Blank	0.01	< 10	0.03	< 2	< 0.8	< 0.2	0.2	< 0.1	< 0.05	< 0.1	< 0.7	< 0.2	< 0.2	< 0.1	< 0.4	< 15	< 0.01	< 3	5	< 0.4	7.2	1.4	< 0.01	
Method Blank	< 0.01		< 0.01						< 0.05					< 0.1		< 15	< 0.01						< 0.01	
Method Blank	< 0.01		< 0.01						< 0.05					< 0.1		< 15	< 0.01						< 0.01	
Method Blank	< 0.01	< 10	< 0.01	< 2	< 0.8	0.3	0.2	< 0.1	< 0.05	< 0.1	< 0.7	< 0.2	< 0.2	< 0.1	< 0.4	< 15	< 0.01	< 3	6	< 0.4	6.2	1.4	< 0.01	
Method Blank	< 0.01	< 10	0.01	< 2	< 0.8	0.4	0.2	< 0.1	< 0.05	< 0.1	< 0.7	< 0.2	< 0.2	< 0.1	< 0.4	< 15	< 0.01	< 3	3	< 0.4	3.9	1.1	< 0.01	
Method Blank	< 0.01	< 10	< 0.01	< 2	< 0.8	< 0.2	0.1	< 0.1	< 0.05	< 0.1	< 0.7	< 0.2	< 0.2	< 0.1	< 0.4	< 15	< 0.01	3	6	< 0.4	5.5	0.7	< 0.01	
Method Blank	< 0.01	< 10		< 2	< 0.8	0.2	0.2	< 0.1		< 0.1	< 0.7	< 0.2	< 0.2		< 0.4			< 3	6	< 0.4	5.8	0.6		
Method Blank	< 0.01		< 0.01						< 0.05					< 0.1		< 15	< 0.01						< 0.01	

Analyte Symbol	Sb	Si	Sn	Sr	Tb	Te	Th	Ti	Tl	W	Y	Yb	Zn	As	Ba	Be	Bi	Cr	Cu	Dy	Eu	Ga	Hf
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.01	0.5	3	0.1	6	0.1	0.01	0.1	0.7	0.1	0.1	30	5	3	3	2	30	2	0.3	0.1	0.2	10
Method Code	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
PTM-1a Meas														2300					> 10000				
PTM-1a Cert														2200					249600.00				
PTM-1a Meas														2300					> 10000				
PTM-1a Cert														2200					249600.00				
NIST 696 Meas																		320					
NIST 696 Cert																		321.0					
Oreas 74a (Fusion) Meas		15.8												52				1840	1200				
Oreas 74a (Fusion) Cert		15.14												50				1800.00	1240.00				
Oreas 74a (Fusion) Meas		15.2												46				1780	1220				
Oreas 74a (Fusion) Cert		15.14												50				1800.00	1240.00				
OREAS 101a (Fusion) Meas					5.6		35.3	0.39			180	18.0							439	30.9	7.7		
OREAS 101a (Fusion) Cert					5.92		36.6	0.395			183	17.5							434	33.3	8.06		
OREAS 101a (Fusion) Meas					5.9		34.7	0.38			182	16.1							427	31.5	8.1		
OREAS 101a (Fusion) Cert					5.92		36.6	0.395			183	17.5							434	33.3	8.06		
NCS DC86304 Meas			103							41.4													
NCS DC86304 Cert			97.1							43.7													
NCS DC86314 Meas			155							76.9													
NCS DC86314 Cert			152							79.0													
NCS DC86314 Meas																							
NCS DC86314 Cert																							
NCS DC86313 Meas																							
NCS DC86313 Cert																							
CZN-4 Meas		0.26											> 10000	385					4060				
CZN-4 Cert		0.295											550700.00	356.00					4030.00				
CZN-4 Meas		0.25											> 10000	354					4090				
CZN-4 Cert		0.295											550700.00	356.00					4030.00				
OREAS 183 (Fusion ICP) Meas													80										
OREAS 183 (Fusion ICP) Cert													82.0000										
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium																							

Analyte Symbol	Sb	Si	Sn	Sr	Tb	Te	Th	Ti	Tl	W	Y	Yb	Zn	As	Ba	Be	Bi	Cr	Cu	Dy	Eu	Ga	Hf
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.01	0.5	3	0.1	6	0.1	0.01	0.1	0.7	0.1	0.1	30	5	3	3	2	30	2	0.3	0.1	0.2	10
Method Code	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
OREAS 922 (Peroxide Fusion) Meas		> 30.0	10.0	63	0.9		16.9	0.45	0.9		29.7	2.7	270		455		9	110	2200	5.3	1.5	20.6	< 10
OREAS 922 (Peroxide Fusion) Cert		30.51	10.0	58.0	1.02		17.7	0.439	0.9		31.1	3.17	280		481		10	90	2220	5.75	1.52	21.2	5.93
OREAS 922 (Peroxide Fusion) Meas		> 30.0						0.44															
OREAS 922 (Peroxide Fusion) Cert		30.51						0.439															
OREAS 621 (Peroxide Fusion) Meas	144	28.0		100			8.6	0.18	2.2	3.0	14.0	1.2	> 10000	94	2790	< 3	4	90	3770			27.9	
OREAS 621 (Peroxide Fusion) Cert	146	28.1		101			8.6	0.181	2.0	2.6	13.9	1.03	52200	85	2610	2	4	50	3680			26.5	
OREAS 621 (Peroxide Fusion) Meas	140	28.5		109			8.6	0.19	1.9	2.5	13.1	0.9	> 10000	82	2540	< 3	4	80	3530			27.3	
OREAS 621 (Peroxide Fusion) Cert	146	28.1		101			8.6	0.181	2.0	2.6	13.9	1.03	52200	85	2610	2	4	50	3680			26.5	
OREAS 621 (Peroxide Fusion) Meas	149			97			8.2		2.1	3.5	12.4	1.2	> 10000	75	2430	< 3	4	60	3630			26.9	
OREAS 621 (Peroxide Fusion) Cert	146			101			8.6		2.0	2.6	13.9	1.03	52200	85	2610	2	4	50	3680			26.5	
CCU-1e Meas	115						56		2.4				> 10000	1100					> 10000				
CCU-1e Cert	104						61.8		2.69				30200	1010					229000				
CCU-1e Meas	119						62		2.9				> 10000	1160					> 10000				
CCU-1e Cert	104						61.8		2.69				30200	1010					229000				
OREAS 680 (Peroxide Fusion) Meas	20	19.8		411	0.5		7.0	0.52			16.3	1.5	2550	135	703		< 2	2330	9230	2.6	1.2	18.3	
OREAS 680 (Peroxide Fusion) Cert	19.7	20.6		420	0.550		6.73	0.523			16.2	1.52	2320	120	649		1.66	2140	9040	3.07	1.30	16.5	
OREAS 680 (Peroxide Fusion) Meas		20.8						0.55															
OREAS 680 (Peroxide Fusion) Cert		20.6						0.523															
OREAS 139 (Peroxide Fusion)	62	16.3		496	0.5		7.6	0.16	35.7		16.6		> 10000	340		4	7		266			11.8	

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Activation Laboratories Ltd.

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Analyte Symbol	Sb	Si	Sn	Sr	Tb	Te	Th	Ti	Tl	W	Y	Yb	Zn	As	Ba	Be	Bi	Cr	Cu	Dy	Eu	Ga	Hf
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.01	0.5	3	0.1	6	0.1	0.01	0.1	0.7	0.1	0.1	30	5	3	3	2	30	2	0.3	0.1	0.2	10
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
Meas																							
OREAS 139 (Peroxide Fusion) Cert	63.0	16.34		479	0.500		7.54	0.157	35.4		17.1		133600.00	332		3.17	6.64		274				10.2
OREAS 139 (Peroxide Fusion) Meas	62	15.9		474	0.6		7.8	0.16	42.4		16.3		> 10000	342		< 3	7		298				10.3
OREAS 139 (Peroxide Fusion) Cert	63.0	16.34		479	0.500		7.54	0.157	35.4		17.1		133600.00	332		3.17	6.64		274				10.2
OREAS 624 (Peroxide Fusion) Meas	69	19.8		53			4.1	0.15	1.0	4.7	15.3	2.2	> 10000	113	1020		21		> 10000				25.9
OREAS 624 (Peroxide Fusion) Cert	72.0	20.5		47.6			4.12	0.146	0.940	4.58	17.3	1.94	24100	115	1070		21.3		30800				22.1
OREAS 624 (Peroxide Fusion) Meas	71	19.9		48			4.2	0.15	1.0	5.4	16.5	2.3	> 10000	115	1080		22		> 10000				26.2
OREAS 624 (Peroxide Fusion) Cert	72.0	20.5		47.6			4.12	0.146	0.940	4.58	17.3	1.94	24100	115	1070		21.3		30800				22.1
OREAS 124 (Peroxide Fusion) Meas		> 30.0			0.6		5.2	0.25			13.0	1.9			1030	< 3		70		3.1	1.4	9.3	< 10
OREAS 124 (Peroxide Fusion) Cert		38.2			0.480		5.74	0.254			14.2	1.63			1020	1.83		51.0		2.82	1.15	10.5	6.22
OREAS 124 (Peroxide Fusion) Meas		> 30.0						0.26															
OREAS 124 (Peroxide Fusion) Cert		38.2						0.254															
AMIS 0346 (Peroxide Fusion) Meas								15.1															
AMIS 0346 (Peroxide Fusion) Cert								15.0															
AMIS 0346 (Peroxide Fusion) Meas								15.0															
AMIS 0346 (Peroxide Fusion) Cert								15.0															
NCS DC73520 Meas	< 2		5.9							517			390	6			8	50	44				
NCS DC73520 Cert	0.6		4.5							518			370	5			7	20	46				
NCS DC73520 Meas																							
NCS DC73520 Cert																							
OREAS 148 (Peroxide Fusion) Meas		> 30.0						0.35															
OREAS 148 (Peroxide Fusion) Cert		36.0						0.35															

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Activation Laboratories Ltd.

Report: A22-10006

Analyte Symbol	Sb	Si	Sn	Sr	Tb	Te	Th	Ti	Tl	W	Y	Yb	Zn	As	Ba	Be	Bi	Cr	Cu	Dy	Eu	Ga	Hf
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.01	0.5	3	0.1	6	0.1	0.01	0.1	0.7	0.1	0.1	30	5	3	3	2	30	2	0.3	0.1	0.2	10
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
Cert																							
OREAS 148 (Peroxide Fusion) Meas		> 30.0						0.37															
OREAS 148 (Peroxide Fusion) Cert		36.0						0.35															
B1104505 Orig	< 2	> 30.0	3.9	30	< 0.1	8	0.6	< 0.01	3.2	< 0.7	2.7	0.3	< 30	< 5	62	< 3	< 2	50	< 2	0.3	< 0.1	19.4	< 10
B1104505 Dup	< 2	> 30.0	3.8	30	< 0.1	8	0.6	< 0.01	3.1	1.2	2.3	0.4	< 30	< 5	64	< 3	< 2	40	< 2	0.4	< 0.1	18.8	< 10
B1104516 Orig	< 2	> 30.0	37.9	224	< 0.1	< 6	5.1	0.04	3.2	2.1	0.8	0.6	< 30	< 5	220	33	6	30	6	< 0.3	0.3	48.4	< 10
B1104516 Dup	< 2	> 30.0	34.4	231	< 0.1	< 6	5.1	0.04	3.2	2.0	0.8	0.7	< 30	< 5	228	36	6	30	6	< 0.3	0.3	48.6	< 10
B1104526 Orig	< 2	> 30.0	15.6	33	< 0.1	< 6	1.7	0.01	0.7	2.0	1.0	0.5	< 30	< 5	25	5	34	30	5	< 0.3	< 0.1	27.6	< 10
B1104526 Dup	< 2	> 30.0	15.0	34	< 0.1	< 6	1.6	0.01	0.6	1.9	0.9	0.5	< 30	< 5	24	5	34	30	5	< 0.3	< 0.1	30.9	< 10
B1104541 Orig	< 2	> 30.0	12.3	14	< 0.1	< 6	0.5	< 0.01	4.4	1.5	1.3	0.4	< 30	< 5	6	4	6	80	5	< 0.3	< 0.1	23.7	< 10
B1104541 Dup	< 2	> 30.0	11.8	12	< 0.1	< 6	0.6	< 0.01	4.6	2.4	1.3	0.5	< 30	< 5	7	4	7	70	2	< 0.3	< 0.1	23.6	20
B1104551 Orig	< 2	> 30.0	45.9	87	< 0.1	< 6	1.6	< 0.01	2.2	2.3	1.5	0.2	< 30	< 5	82	195	< 2	30	< 2	< 0.3	0.2	55.4	< 10
B1104551 Split PREP DUP	< 2	> 30.0	44.1	80	< 0.1	< 6	1.6	< 0.01	2.1	3.2	1.2	0.3	< 30	< 5	80	203	< 2	30	3	< 0.3	0.3	55.7	< 10
B1104553 Orig	< 2	> 30.0	91.3	21	< 0.1	< 6	0.4	< 0.01	4.7	2.4	0.1	0.1	40	< 5	32	11	< 2	< 30	3	< 0.3	< 0.1	64.4	< 10
B1104553 Dup	< 2	> 30.0	93.5	19	< 0.1	< 6	0.4	< 0.01	4.7	2.6	0.4	0.2	30	< 5	33	10	< 2	30	3	< 0.3	< 0.1	66.4	< 10
B1104761 Orig	< 2	> 30.0	13.2	20	0.1	10	1.8	< 0.01	2.1	1.6	5.7	0.7	< 30	< 5	15	6	3	180	13	1.0	< 0.1	25.6	< 10
B1104761 Dup	< 2	> 30.0	13.2	21	0.1	8	1.7	< 0.01	1.8	0.7	6.1	0.7	< 30	< 5	15	6	3	200	8	0.7	< 0.1	25.0	< 10
B1104773 Orig	< 2	> 30.0	24.2	27	< 0.1	< 6	1.0	0.02	1.0	1.5	3.0	0.1	30	< 5	15	12	14	< 30	2	0.6	0.1	36.0	< 10
B1104773 Dup	< 2	> 30.0	24.0	27	< 0.1	< 6	0.8	0.02	1.1	1.7	2.7	0.3	30	< 5	17	12	14	70	4	0.5	0.1	34.3	< 10
B1104784 Orig	< 2	> 30.0	9.5	24	0.1	< 6	4.2	0.01	1.0	1.3	5.9	1.0	< 30	< 5	13	3	< 2	< 30	< 2	1.1	< 0.1	28.3	< 10
B1104784 Dup	< 2	> 30.0	10.6	28	0.1	< 6	4.6	0.01	0.9	1.8	6.3	0.9	< 30	< 5	17	4	< 2	< 30	< 2	1.0	< 0.1	31.7	< 10
B1104791 Orig	< 2	> 30.0	13.0	20	< 0.1	< 6	0.5	< 0.01	1.5	1.3	1.5	0.4	70	< 5	12	4	2	40	5	< 0.3	< 0.1	27.3	< 10
B1104791 Dup	< 2	> 30.0	15.7	21	< 0.1	< 6	0.5	< 0.01	1.6	< 0.7	1.7	0.2	30	< 5	10	4	4	40	8	< 0.3	< 0.1	29.5	< 10
B1104793 Orig	< 2	> 30.0	9.3	27	0.1	< 6	1.9	< 0.01	1.7	< 0.7	2.1	0.2	< 30	< 5	15	6	< 2	40	3	0.4	< 0.1	43.5	< 10
B1104793 Split PREP DUP	< 2	> 30.0	9.9	26	< 0.1	< 6	1.7	< 0.01	1.5	2.2	2.1	0.1	50	< 5	16	6	< 2	50	4	0.4	< 0.1	41.6	< 10
Method Blank		< 0.01						< 0.01															
Method Blank		< 0.01						< 0.01															
Method Blank		< 0.01						< 0.01															
Method Blank	< 2	< 0.01	1.5	8	< 0.1	8	< 0.1	< 0.01	< 0.1	< 0.7	< 0.1	< 0.1	< 30	< 5	3	< 3	< 2	< 30	< 2	< 0.3	< 0.1	< 0.2	< 10
Method Blank	< 2	< 0.01	2.1	9	< 0.1	< 6	< 0.1	< 0.01	< 0.1	0.7	< 0.1	0.2	< 30	< 5	< 3	< 3	< 2	< 30	< 2	< 0.3	< 0.1	0.5	< 10
Method Blank	< 2	< 0.01	< 0.5	11	< 0.1	14	< 0.1	< 0.01	< 0.1	< 0.7	< 0.1	< 0.1	< 30	< 5	< 3	< 3	< 2	< 30	< 2	< 0.3	< 0.1	< 0.2	< 10
Method Blank	< 2		1.7	10	< 0.1	< 6	< 0.1	< 0.01	< 0.1	< 0.7	< 0.1	0.2	< 30	< 5	< 3	< 3	< 2	< 30	< 2	< 0.3	< 0.1	0.4	< 10
Method Blank	< 2	0.15	1.2	12	< 0.1	< 6	< 0.1	< 0.01	< 0.1	< 0.7	< 0.1	< 0.1	< 30	< 5	< 3	< 3	< 2	< 30	< 2	< 0.3	< 0.1	< 0.2	< 10
Method Blank		< 0.01						< 0.01															
Method Blank		< 0.01						< 0.01															
Method Blank	< 2	< 0.01	0.5	12	< 0.1	< 6	< 0.1	< 0.01	< 0.1	< 0.7	< 0.1	0.1	< 30	< 5	< 3	< 3	< 2	30	< 2	< 0.3	< 0.1	< 0.2	< 10
Method Blank	< 2	< 0.01	< 0.5	14	< 0.1	< 6	< 0.1	< 0.01	< 0.1	< 0.7	< 0.1	< 0.1	< 30	< 5	< 3	< 3	< 2	30	< 2	< 0.3	< 0.1	< 0.2	< 10
Method Blank	< 2	< 0.01	0.8	11	< 0.1	< 6	< 0.1	< 0.01	< 0.1	< 0.7	< 0.1	< 0.1	< 30	< 5	< 3	< 3	< 2	40	< 2	< 0.3	< 0.1	< 0.2	< 10
Method Blank	< 2		< 0.5	10	< 0.1	< 6	< 0.1		< 0.1	< 0.7	< 0.1	< 0.1	< 30	< 5	< 3	< 3	< 2	40	< 2	< 0.3	< 0.1	0.3	< 10
Method Blank		< 0.01						< 0.01															

Analyte Symbol	Nb	Ni	Pr	Se	Sm	Ta	Tm	U	V
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2.4	10	0.1	8	0.1	0.2	0.1	0.1	5
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
PTM-1a Meas		> 10000							
PTM-1a Cert		474400.00							
PTM-1a Meas		> 10000							
PTM-1a Cert		474400.00							
NIST 696 Meas									403
NIST 696 Cert									403.0000
Oreas 74a (Fusion) Meas		> 10000							
Oreas 74a (Fusion) Cert		32400.00							
Oreas 74a (Fusion) Meas		> 10000							
Oreas 74a (Fusion) Cert		32400.00							
OREAS 101a (Fusion) Meas			139		50.2		2.8	421	81
OREAS 101a (Fusion) Cert			134		48.8		2.90	422	83
OREAS 101a (Fusion) Meas			128		46.8		2.8	400	80
OREAS 101a (Fusion) Cert			134		48.8		2.90	422	83
NCS DC86304 Meas									
NCS DC86304 Cert									
NCS DC86314 Meas									
NCS DC86314 Cert									
NCS DC86314 Meas									
NCS DC86314 Cert									
NCS DC86313 Meas									
NCS DC86313 Cert									
CZN-4 Meas				92					
CZN-4 Cert				86.7					
CZN-4 Meas				95					
CZN-4 Cert				86.7					
OREAS 183 (Fusion ICP) Meas		9620							
OREAS 183 (Fusion ICP) Cert		9830.00							
Lithium Tetraborate FX-LT 100 lot#220610B Meas									
Lithium Tetraborate FX-LT									

Analyte Symbol	Nb	Ni	Pr	Se	Sm	Ta	Tm	U	V
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2.4	10	0.1	8	0.1	0.2	0.1	0.1	5
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
100 lot#220610B Cert									
Lithium Tetraborate FX-LT 100 lot#220610B Meas									
Lithium Tetraborate FX-LT 100 lot#220610B Cert									
OREAS 922 (Peroxide Fusion) Meas	15.4	50	9.7		6.7	1.4	0.4	3.3	97
OREAS 922 (Peroxide Fusion) Cert	15.2	40	10.6		7.31	1.3	0.510	3.6	92.0
OREAS 922 (Peroxide Fusion) Meas									
OREAS 922 (Peroxide Fusion) Cert									
OREAS 621 (Peroxide Fusion) Meas	10.2		6.2					2.9	41
OREAS 621 (Peroxide Fusion) Cert	10.4		6.64					3.0	36.3
OREAS 621 (Peroxide Fusion) Meas	10.1		5.9					2.9	36
OREAS 621 (Peroxide Fusion) Cert	10.4		6.64					3.0	36.3
OREAS 621 (Peroxide Fusion) Meas	10.8		5.8					2.7	36
OREAS 621 (Peroxide Fusion) Cert	10.4		6.64					3.0	36.3
CCU-1e Meas									
CCU-1e Cert									
CCU-1e Meas									
CCU-1e Cert									
OREAS 680 (Peroxide Fusion) Meas	6.6	> 10000	5.3		4.8			1.6	226
OREAS 680 (Peroxide Fusion) Cert	5.09	21500	4.99		4.26			1.55	224
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas								11.7	

Analyte Symbol	Nb	Ni	Pr	Se	Sm	Ta	Tm	U	V
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2.4	10	0.1	8	0.1	0.2	0.1	0.1	5
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
OREAS 139 (Peroxide Fusion) Cert								12.2	
OREAS 139 (Peroxide Fusion) Meas								11.2	
OREAS 139 (Peroxide Fusion) Cert								12.2	
OREAS 624 (Peroxide Fusion) Meas	6.1		3.7					1.3	36
OREAS 624 (Peroxide Fusion) Cert	5.78		4.27					1.34	43.3
OREAS 624 (Peroxide Fusion) Meas	5.9		3.9					1.3	36
OREAS 624 (Peroxide Fusion) Cert	5.78		4.27					1.34	43.3
OREAS 124 (Peroxide Fusion) Meas			5.2		4.2		0.2	1810	23
OREAS 124 (Peroxide Fusion) Cert			5.39		4.21		0.220	1790	23.3
OREAS 124 (Peroxide Fusion) Meas									
OREAS 124 (Peroxide Fusion) Cert									
AMIS 0346 (Peroxide Fusion) Meas									2770
AMIS 0346 (Peroxide Fusion) Cert									2700
AMIS 0346 (Peroxide Fusion) Meas									2990
AMIS 0346 (Peroxide Fusion) Cert									2700
NCS DC73520 Meas		70							
NCS DC73520 Cert		50							
NCS DC73520 Meas									
NCS DC73520 Cert									
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									

Analyte Symbol	Nb	Ni	Pr	Se	Sm	Ta	Tm	U	V
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2.4	10	0.1	8	0.1	0.2	0.1	0.1	5
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
B1104505 Orig	7.1	20	0.3	< 8	0.3	3.2	< 0.1	1.1	< 5
B1104505 Dup	7.9	10	0.4	< 8	0.5	3.0	< 0.1	1.1	< 5
B1104516 Orig	22.9	< 10	1.7	< 8	0.9	19.6	< 0.1	3.0	12
B1104516 Dup	24.5	10	1.6	< 8	0.6	21.4	< 0.1	3.2	12
B1104526 Orig	21.9	10	0.2	< 8	0.3	5.5	< 0.1	1.2	< 5
B1104526 Dup	20.9	10	0.3	< 8	0.1	5.3	< 0.1	1.1	< 5
B1104541 Orig	8.0	80	< 0.1	< 8	0.1	2.3	< 0.1	1.1	< 5
B1104541 Dup	7.9	70	< 0.1	< 8	< 0.1	2.1	< 0.1	1.2	< 5
B1104551 Orig	63.7	< 10	0.4	< 8	0.2	70.8	< 0.1	2.1	8
B1104551 Split PREP DUP	63.5	< 10	0.2	< 8	0.3	65.6	< 0.1	2.1	7
B1104553 Orig	87.9	< 10	< 0.1	< 8	< 0.1	10.9	< 0.1	0.4	< 5
B1104553 Dup	93.2	10	< 0.1	< 8	< 0.1	11.6	< 0.1	0.4	< 5
B1104761 Orig	21.1	20	0.3	< 8	0.3	7.3	< 0.1	3.2	< 5
B1104761 Dup	15.8	20	0.3	< 8	0.5	6.3	< 0.1	3.3	< 5
B1104773 Orig	28.2	< 10	0.3	< 8	0.4	6.5	< 0.1	1.4	< 5
B1104773 Dup	28.3	30	0.2	< 8	0.2	6.6	< 0.1	1.5	< 5
B1104784 Orig	19.5	< 10	0.5	< 8	0.5	5.0	0.1	5.6	< 5
B1104784 Dup	19.7	< 10	0.5	< 8	0.4	5.3	0.1	5.7	< 5
B1104791 Orig	13.5	20	0.2	< 8	0.3	2.4	< 0.1	0.7	6
B1104791 Dup	14.6	20	0.3	8	0.1	2.3	< 0.1	0.8	< 5
B1104793 Orig	29.8	10	0.1	< 8	0.1	11.8	< 0.1	1.4	5
B1104793 Split PREP DUP	41.5	20	0.2	< 8	0.3	13.1	< 0.1	1.5	6
Method Blank									
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Method Blank	< 2.4	< 10	< 0.1	< 8	0.1	< 0.2	< 0.1	< 0.1	< 5
Method Blank	< 2.4	< 10	< 0.1	< 8	< 0.1	0.2	< 0.1	< 0.1	< 5
Method Blank	< 2.4	< 10	< 0.1	< 8	< 0.1	< 0.2	< 0.1	0.1	< 5
Method Blank	< 2.4	< 10	< 0.1	< 8	< 0.1	0.3	< 0.1	0.1	< 5
Method Blank	< 2.4	10	< 0.1	< 8	< 0.1	0.5	< 0.1	< 0.1	< 5
Method Blank									
Method Blank									
Method Blank	< 2.4	10	< 0.1	< 8	< 0.1	1.3	< 0.1	< 0.1	7
Method Blank	< 2.4	20	< 0.1	< 8	< 0.1	0.2	< 0.1	< 0.1	< 5
Method Blank	< 2.4	10	< 0.1	< 8	< 0.1	1.3	< 0.1	0.1	7
Method Blank	< 2.4	10	< 0.1	9	< 0.1	1.2	< 0.1	0.1	5
Method Blank									