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TECHNICAL REPORT FOR MNDM ASSESSMENT

2016 DIAMOND DRILL PROGRAM

October 22nd –December 5th 2016

SEYMOUR LAKE LCT PEGMATITE PROPERTY

Northwest Region, Thunder Bay North Mining Division

Armstrong Station, NW Ontario

Crescent Lake Map Sheet (G-0027)

NTS 52 I/08 NW (Lamaune)

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October 20, 2018

Table of Contents

List of Tables	3
List of Figures	3
Executive Summary	4
Introduction	5
Terms of Reference	5
Disclaimer	5
Property Location and Description.....	5
Ontario Mining Lands Administration System.....	6
Accessibility, Local Resources and Infrastructure	7
Climate and Physiography.....	8
Geological Setting.....	9
Regional Geology	9
Property Geology	10
Deposit Types	11
Rare-element Pegmatites (Superior Province).....	11
Seymour Lake Pegmatites.....	13
Mineralization.....	14
Exploration History on the Property	14
Current Exploration Program	15
Diamond Drilling.....	15
Quality Assurance/ Quality Control Program	16
Sample Processing	16
Verification of Sampling and Assaying	17
Conclusions and Recommendations	17
References.....	19
Statement of Qualifications	20

LIST OF TABLES

Table 1- Personnel.....	15
Table 2 - Diamond Drill Hole Locations	15
Table 3 - Significant Intersections	18

LIST OF FIGURES

Figure 1 - Regional Location Map.....	6
Figure 2 - Regional Location and Access	8
Figure 3 - Regional geology of the western Superior Province with distribution of the subprovinces (modified from Galeschuk and Vanstone, 2007). Approximate location of the Seymour Lake property is indicated by the red star	9
Figure 4 - Simplified Regional Geology, Seymour Lake Area (from Rees, 2011).....	10
Figure 5 - Chemical evolution of lithium-rich pegmatites as a function of distance from the fertile granitic source (London, 2008)	13

Appendix I: Mining Claims

Appendix II: Sample Index & Assays Certificates

Appendix III: Drill Logs

Appendix IV: Drill Sections & Plan Map

Appendix V: Work Summary and Expenditures

EXECUTIVE SUMMARY

The Seymour Lake LCT Pegmatite project (the “Project” or “Property”) was the target of a diamond drill program of 27 drill holes totalling 1728 metres between October 22nd and December 5th of 2016.

The Seymour Lake LCT Pegmatite project is located approximately 230 kilometres north-northeast of Thunder Bay, Ontario, in the Thunder Bay North Mining Division. The unpatented mining claims that constitute the Project are accessed by the all-weather, two-lane, Jackfish Main Haulage Road, 42 kilometres east of Armstrong Station (“Armstrong”), northwestern Ontario. The Project has excellent proximity to existing rail sidings at Ferland Station on the main CN rail line, 9 kilometres south of the Project. As of the date of this Report, the Project covers approximately 165 km² (16 508 ha).

The Property is located within the Caribou Lake Greenstone Belt of the Superior Province, which trends east-northeast towards the larger Onamon-Tashota Greenstone Belt. The mining claims are underlain by Willet Assemblage mafic volcanic-dominated rocks, with lesser Marshall Assemblage dacite tuffs and related sedimentary rocks. The eastern part of the Project is underlain by a tonalite pluton, thought to be the parental intrusion to the rare metal pegmatite dikes and sills exposed at the North Aubry, South Aubry, and Pye showings, together, “Seymour Lake”.

The Seymour Lake pegmatites have been classified as belonging to the Complex-type, Spodumene-subtype (Breaks et al., 2003). Mineralization is dominated by spodumene (Li), with lesser beryl (Be), tantalite (Ta), and Rb-bearing potassium feldspar, hosted in a vertically stacked series of gently dipping pegmatite sills. Prior to Ardiden, the Project had been tested by over 4,509 metres of historic diamond drilling from 2002 to early 2016.

Surface exploration and diamond drilling has shown that the lithium mineralization is hosted in extensive outcroppings of spodumene-bearing pegmatite structures (dikes and/or sills) with widths up to 30 metres and grades up to 6.01% Li₂O. In addition, historic results show tantalum and beryllium grades up to 5.64 wt% Ta₂O₅ and 0.289 wt% BeO (Dimmell and Morgan, 2005).

The 2016 fall exploration drill program successfully continued to intersect spodumene bearing pegmatite and provide valuable information about the grade and orientation of the pegmatite in both the Aubry North and South zones.

INTRODUCTION

Caracle Creek International Consulting Inc. ("Caracle Creek") of Sudbury, Ontario, Canada was contracted by Ardiden Limited ("Ardiden") of Subiaco, WA, Australia, to manage a diamond drilling program at the Seymour Lake Property (the "Property" or "Project"), Armstrong, northwestern Ontario, Canada. The Property contains spodumene pegmatite mineralization (LCT Pegmatites) at the North Aubry, South Aubry and Pye pegmatite occurrences.

Fladgate Exploration Consulting Corporation was contracted to draft this report summarizing the results of the 2016 diamond drill program.

The diamond drill program commenced on October 22nd 2016 and was completed on December 5th, 2016. A total of 27 diamond drillholes and 1728 metres were drilled, logged and selectively sampled.

This Report incorporates the results from the diamond drill program and excerpts from previous reports written about exploration on the property (Selway, 2016, Jobin-Bevans 2018).

TERMS OF REFERENCE

This Report was prepared at the request of Ardiden Limited for the purpose of filing assessment work as required under the Ontario Mining Act.

DISCLAIMER

This Report is based on information from Ardiden's previous work on the Property, as well as publicly available assessment reports, general geological reports and maps, and private reports as listed in "References".

PROPERTY LOCATION AND DESCRIPTION

The Seymour Lake Project is located approximately 230 kilometres north-northeast of Thunder Bay, Ontario, and 59 km northeast of Armstrong, Ontario, in the Thunder Bay North Mining Division (Figure 1). Thunder Bay is a city with a population of approximately 125,000, located 925 kilometres northwest of Toronto, Ontario. The Property is centered at approximately 403482mE, 5581291mN, (NAD83 Zone 16 North) with geographic coordinates at approximately 88° 21' 26" E and 50° 22' 32" N. The Project lies within the Crescent Lake Area Map Sheet area (G-0027) and NTS 52 I/08 NW (Lamaune). All coordinates are in NAD83 Zone 16 North unless otherwise stated.

The unpatented mining claims that constitute the Project are accessed by the all-weather, two-lane, Jackfish Main Haulage Road, 42 kilometres east of Armstrong Station ("Armstrong"), northwestern Ontario. The Project has excellent proximity to existing rail sidings at Ferland Station on the main CN rail line, 9 kilometres south of the Project.



Figure 1 - Regional Location Map

As of the date of this Report, the Project covers approximately 165 km² (16 508 ha) and under the newly introduced (April 10th, 2018) Mining Lands Administration System (“MLAS”), the Property consists of 825 boundary and standard mining claim cells (Figure 2). The claims are registered 100% in the name of Ardiden Limited and require \$306,800 per year in mineral exploration assessment work to keep the claims current.

Ontario Mining Lands Administration System

On April 10, 2018, Ontario converted its manual system of ground and paper staking and

maintaining unpatented mining claims to an online system. All active, unpatented claims were converted from their legally defined location by claim posts on the ground or by township survey to a cell-based provincial grid. Mining claims are now legally defined by their cell position on the grid and coordinate location in the MLAS Map Viewer (<https://www.mndm.gov.on.ca/en/mines-and-minerals/applications/mlas-map-viewer>).

In the new MLAS system, registering a mining claim is now completed by paying a single registration fee of \$50 per cell. Assessment work requirements are \$400 per cell claim and \$200 per boundary claim or any claim that is encumbered. Unlike some other jurisdictions, the MLAS does not introduce any other requirement such as an annual claim renewal fee, or a graduated system for fees and assessment work.

ACCESSIBILITY, LOCAL RESOURCES AND INFRASTRUCTURE

The Seymour Lake Property is located between kilometre 57 to kilometre 60 of the all-weather, two-lane, Jackfish Main Haulage Road, 42 kilometres east of Armstrong Station, northwestern Ontario. The Project has excellent access via the Jackfish road, as well as proximity to existing rail sidings at Ferland Station on the main CN rail line, just 9 kilometres south of the Project,.

The Jackfish road has been well maintained and is also used by Landore Resources to access their Junior Lake project, providing easily drivable access to the north margin of the Property from Armstrong. The Armstrong Ontario Ministry of Natural Resources (“MNR”) airfield, with two paved runways (ex-Canadian Forces Station), is located at kilometre 13, east of Armstrong. The closest international airport with daily service is located at Thunder Bay approximately a three hour drive to the south via Highway 527.

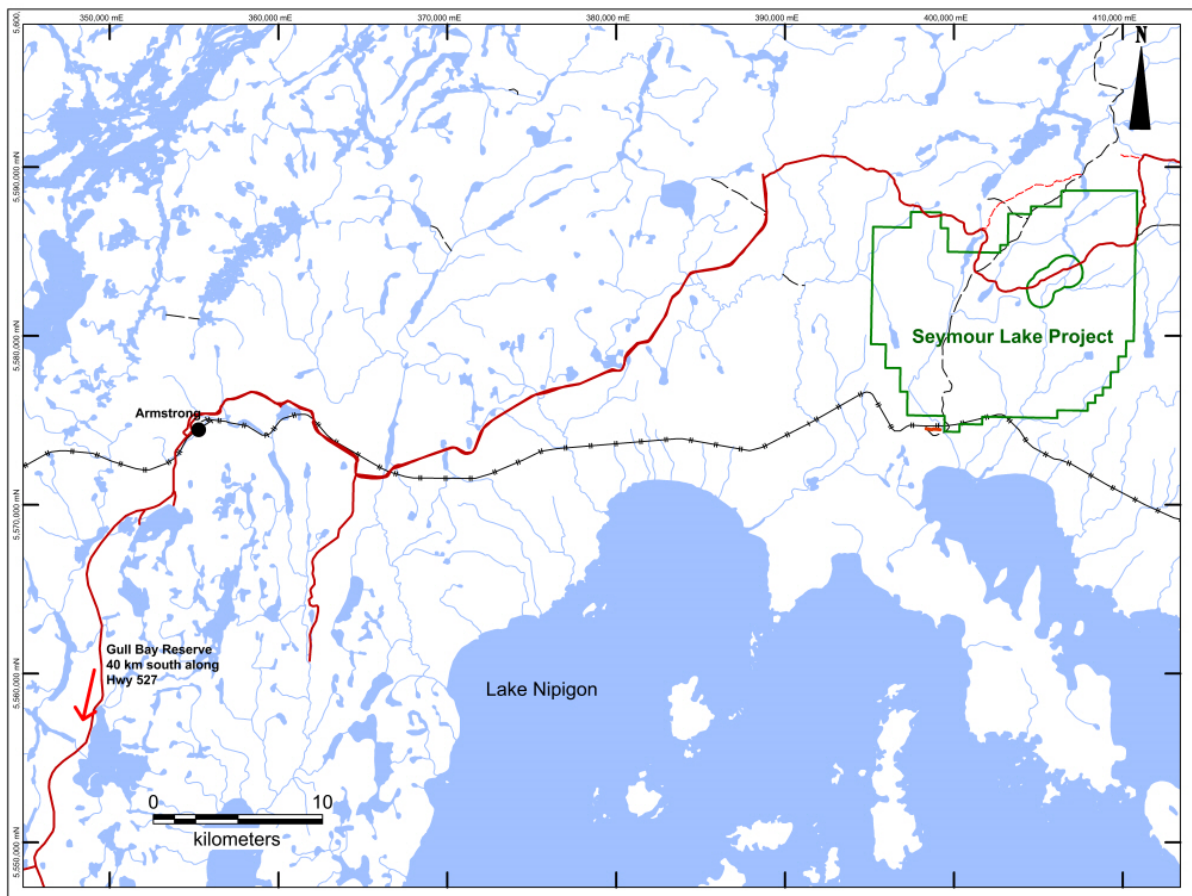


Figure 2 - Regional Location and Access

The town of Armstrong Station and the Whitesand First Nation have a combined population of less than 1,000 residents. Various services available at Armstrong include a general store, fuel, nursing station, post office, and temporary accommodations. The Thunder Bay Region and northwest Ontario in general, have a long mining history, with mining suppliers and contractors regionally available for materials that are not available in Armstrong.

CLIMATE AND PHYSIOGRAPHY

The Property lies within the Lake Nipigon Eco-region of the Boreal Shield Eco-zone and is marked by warm summers and cold, snowy winters. The mean annual temperature is approximately 1.5°C. The mean summer temperature is 14°C and the mean winter temperature is -13°C.

General topography in the area is characterized by gently rolling hills, with intervening swampy areas. Total relief is <50 metres with a mean elevation in the western area of 360 metres above sea level. The exceptions to this are occasional mesa-like hills that stand out in the general area around the north end of Lake Nipigon, created by caps of Proterozoic diabase sills. Specifically, in the western area, the topography is dominated by a large rugged NNE-trending elongate hill which stands at a height of approximately 100 metres above the low swampy ground to the west. The Aubry showings are exposed at surface along the west face of the hill. The area was completely glaciated and is now covered by tills and sands generally less than five metres thick.

The Project area lies 12 kilometres south of a regional drainage divide between Hudson Bay and the Great Lakes. The area is characterized by dense stands of jack pine, spruce, and white birch, with the pine and spruce having seen heavy logging, and sections of the property has been cut over.

GEOLOGICAL SETTING

Regional Geology

The Seymour Lake Property occurs within the Superior Province, proximal to the subprovincial boundary between the English River (north) and Wabigoon (south) subprovinces (Figure 4). Specifically, the Property is located within the Caribou Lake Greenstone Belt which trends east-northeast along the north shore of Lake Nipigon, extending eastward to the Onamon-Tashota Greenstone Belt.



Figure 3 - Regional geology of the western Superior Province with distribution of the subprovinces (modified from Galeschuk and Vanstone, 2007). Approximate location of the Seymour Lake property is indicated by the red star

Property Geology

Ontario government mapping shows the western part of the Property is underlain by mostly Willet Assemblage mafic volcanic-dominated rocks, with lesser units of Toronto Assemblage mafic volcanics, and minor Marshall Assemblage dacite tuffs and related sediments (Figure 5). The eastern part of the Property is underlain by a tonalite to granite to granodiorite pluton, thought to be the parental intrusion to the rare metal pegmatite dikes and sills exposed at the North and South Aubry showings. All Assemblages have been crosscut by felsic to mafic dikes of various ages and rock types, including the aforementioned pegmatite sills and dikes. The most volumetrically significant post-mineralization intrusive rocks are Proterozoic Nipigon mafic sills, which form the caps of the prominent “mesa-like” hills in the Lake Nipigon area.

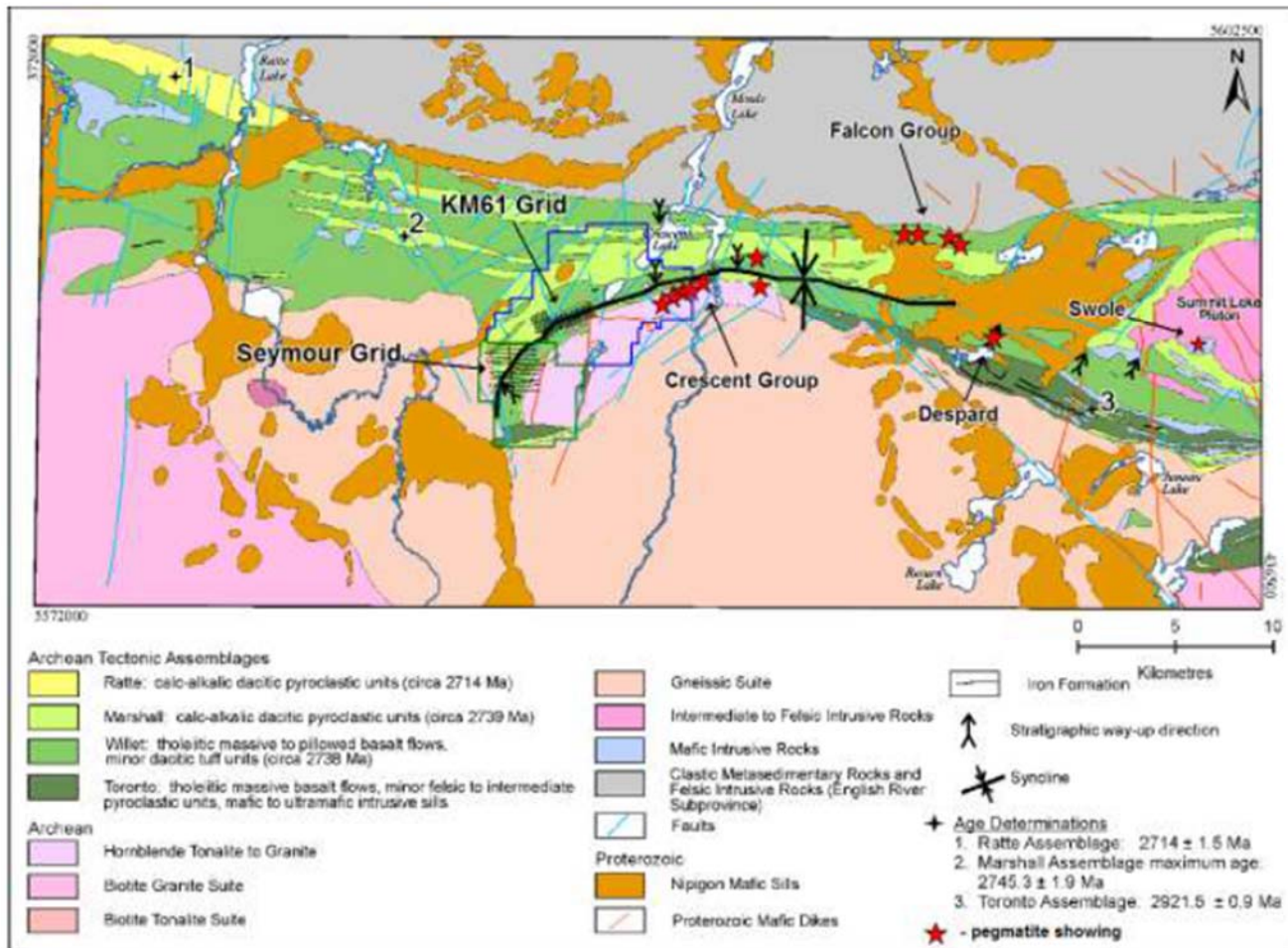


Figure 4 - Simplified Regional Geology, Seymour Lake Area (from Rees, 2011)

Pegmatites on the Property consist of spodumene-subtype North Aubry and South Aubry pegmatites hosted by mafic metavolcanic rocks and the spodumene-subtype Pye pegmatite is hosted by biotite granite gneiss. Pegmatites on the Property (North and South Aubry) have been described as ranking among the most highly fractionated, tantalum-bearing, granitic pegmatites yet documented in Ontario (Dimmell and Morgan, 2005). The pegmatites occur as an undulating system of stacked pegmatite sheets that dip moderately to steeply eastward over several kilometres strike length.

The northwest area of the Seymour grid is mainly underlain by a sequence of greywackes with lessor bedded tuffs and minor massive mafic to felsic volcanic of the Marshall Assemblage (Figure 5). The remainder of the grid area is underlain by mafic volcanics (massive and pillowed with areas of high

grade amphibolite) of the Willett Assemblage. Dikes and sills of pegmatite, gabbro, tonalite and quartz or feldspar porphyry cross cut all supracrustal rocks. West of the main Aubry showings, a prominent gabbro dike intrudes in a northeast direction, and is cut by pegmatite, indicating that the gabbro pre-dates the main plutonic event. The mafic volcanic rocks are flanked to the east by a granite to granodiorite pluton, which in the grid area is medium grained and relatively massive with up to 15% black biotite. Inclusions of a fine to medium grained, orangey granite were found near the contact and in the vicinity of the showings but it is not clear whether this a separate pulse of magma or due to later alteration or oxidation. This pluton may be the fertile parent associated with pegmatite emplacement.

In outcrop and trench exposures, the pegmatites are of two general varieties: (1) dominantly white, composed of k-spar, lesser albite, quartz and muscovite and is medium- to very coarse-grained (megacrystic), and (2) orange-red variety, medium- to very coarse-grained with k-spar and lesser quartz and muscovite. Both pegmatite varieties can contain spodumene, beryl and tantalite with more secondary hematite alteration noted in the orange variety, which likely imparts its distinct colouration. The bulk of the pegmatites occur as horizontal sills which are often connected by a lesser volume of vertical dikes.

The mafic volcanic rocks are cross cut by at least two generations of shears and/or faults. The main shears dip sub-vertically, and trend north, northeast and east. A prominent set of sub-horizontal step-faults are exposed on a few steep-sided outcrops, and these appear to form the main locus of pegmatite emplacement, especially in proximity to the shears, which also host thin pegmatite dikes. The general broad antiformal-synform structure of the pegmatites may be due to dip undulations in the step-faults, or possibility to post-pegmatite folding.

The most prominent alteration found in the mafic volcanic rocks is epidote-calcite-quartz, usually associated with pillowed units which show some degree of strain. These zones may also be cut by feldspar stringers, which may indicate proximity to a pegmatite body. When in very close proximity to a pegmatite, the altered zones may also host holmquistite (lithium-bearing amphibole).

DEPOSIT TYPES

Rare-element Pegmatites (Superior Province)

Rare-element pegmatites may host several economic commodities, such as tantalum (Ta-oxide minerals), tin (cassiterite), lithium (ceramic-grade spodumene and petalite), rubidium (lepidolite and K-feldspar), and cesium (pollucite) collectively known as rare elements, and ceramic-grade feldspar and quartz (Selway et al., 2005). Two families of rare-element pegmatites are common in the Superior Province, Canada: Li-Cs-Ta enriched ("LCT") and Nb-Y-F enriched ("NYF").

LCT pegmatites are associated with S-type, peraluminous (Al-rich), quartz-rich granites. S-type granites crystallize from a magma produced by partial melting of pre-existing sedimentary source rock. They are characterized by the presence of biotite and muscovite, and the absence of hornblende.

NYF pegmatites are enriched in rare earth elements ("REE"), U, and Th in addition to Nb, Y, F, and are associated with A-type, subaluminous to metaluminous (Al-poor), quartz-poor granites or syenites (Černý, 1991).

Rare-element pegmatites derived from a fertile granite intrusion are typically distributed over a 10 to 20 km² area within 10 km of the fertile granite (Breaks et al., 2006). A fertile granite is the parental granite to rare-element pegmatite dykes. The granitic melt first crystallizes several different granitic units (e.g., biotite granite to two mica granite to muscovite granite), due to an evolving melt composition, within a single parental fertile granite pluton. The residual melt enriched in incompatible elements (e.g., Rb, Cs, Nb, Ta, Sn) and volatiles (e.g., H₂O, Li, F, BO₃, and PO₄) from such a pluton can then migrate into the host rock and crystallize pegmatite dykes (Figure 6). Volatiles promote the crystallization of a few large crystals from a melt and increase the ability of the melt to travel greater distances. This results in pegmatite dykes with coarse-grained crystals occurring in country rocks considerable distances from their parent granite intrusions.

There are several geological features that are common in rare-element pegmatites of the Superior Province of Ontario (Breaks et al., 2003) and Manitoba (Černý et al., 1991, 1998) (Selway et al., 2005):

1. *Sub-provincial Boundaries*: The pegmatites tend to occur along sub-provincial boundaries.
2. *Metasedimentary-Dominant Subprovince*: Most pegmatites in the Superior Province occur along subprovince boundaries, except for those that occur within the metasedimentary Quetico Subprovince.
3. *Greenschist to Amphibolite Metamorphic Grade*: Pegmatites are absent in the granulite terranes.
4. *Fertile Parent Granite*: Most pegmatites in the Superior province are genetically derived from a fertile parent granite.
5. *Host Rocks*: Highly fractionated spodumene- and petalite-subtype pegmatites are commonly hosted by mafic metavolcanic rocks (amphibolite) in contact with a fertile granite intrusion along sub-provincial boundaries. Pegmatites within the Quetico Subprovince are hosted by metasedimentary rocks or their fertile granitic parents.
6. *Metasomatized Host Rocks*: Biotite and tourmaline are common minerals, and holmquistite is a minor phase in metasomatic aureoles in mafic metavolcanic host rocks to spodumene- and petalite-subtype pegmatites. Tourmaline, muscovite, and biotite are common, and holmquistite is rare in metasomatic aureoles in metasedimentary rocks.
7. *Lithium Minerals*: Most of the complex-type pegmatites of the Superior province contain spodumene and/or petalite as the dominant Li mineral, except for a few pegmatites which have lepidolite as the dominant Li mineral.
8. *Cesium Minerals*: Cesium-rich minerals only occur in the most extremely fractionated pegmatites.
9. *Ta-Sn Minerals*: Most pegmatites in the Superior Province contain ferrocolumbite and manganocolumbite as the dominant Nb-Ta-bearing minerals. Some pegmatites contain manganotantalite or wodginite as the dominant Ta-oxide mineral. Tantalum-bearing cassiterite is relatively rare in pegmatites of the Superior Province.

- 10. *Pegmatite Zone Hosting Ta Mineralization*: Fine-grained Ta-oxides (e.g., manganotantalite, wodginite, and microlite) commonly occur in the aplite, albitized K-feldspar, mica-rich, and spodumene core zones in pegmatites in the Superior Province.

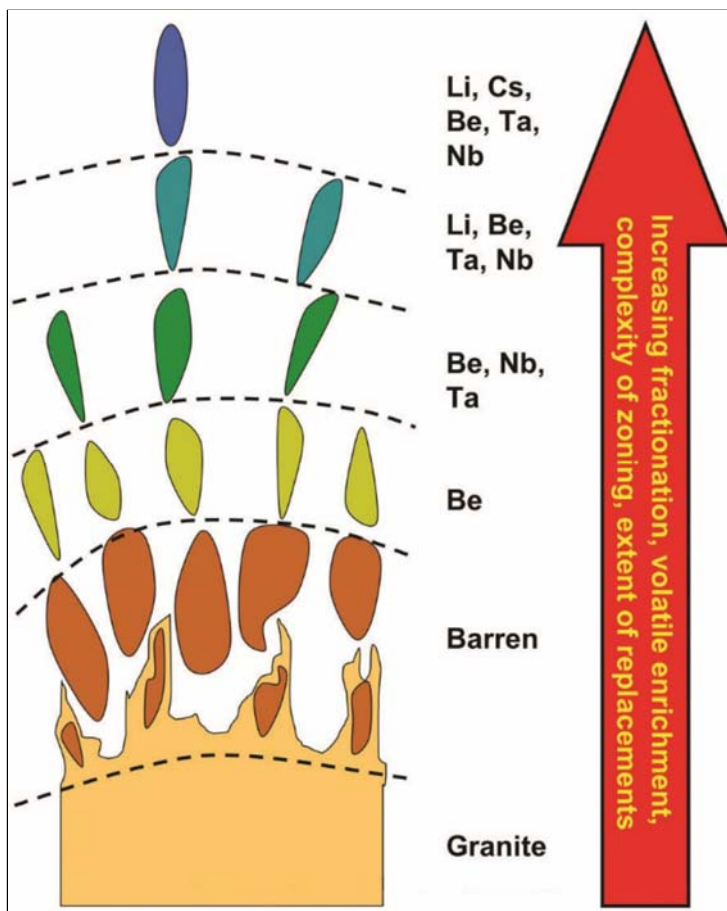


Figure 5 - Chemical evolution of lithium-rich pegmatites as a function of distance from the fertile granitic source (London, 2008)

Seymour Lake Pegmatites

The Seymour Lake area LCT Pegmatites (North and South Aubrey zones) have been classified as belonging to the Complex-type, Spodumene-subtype (Breaks et. al., 2003). Pegmatite bodies of this type, if large enough, are known to contain variously recoverable quantities of lithium (Li), beryllium (Be), tantalum (Ta), rubidium (Rb), cesium (Cs), gallium (Ga) and tin (Sn). These “rare-metals” are generally concentrated in specific mineral species such as spodumene (Li), beryl (Be), tantalite (Ta), pollucite (Cs) or even potassium feldspar (Rb).

There are numerous examples of these types of pegmatites world-wide, with at least two currently being exploited: at Greenbushes in Australia (Li-Ta-Sn) and at Bernic Lake (TANCO), Manitoba (Li-Ta-Be-Rb-Cs). In Canada (Quebec), industry leader Nemaska Lithium, is developing one of the most important spodumene lithium hard rock deposit in the world, both in volume and grade.

Lithium grades are controlled not only by the abundance of spodumene in the pegmatite, but also by the mineral’s purity (i.e., lack of other cation “contaminants” such as iron).

MINERALIZATION

Mineralization at the North and South Aubrey zones is dominated by spodumene (Li), with lesser beryl (Be), tantalite (Ta), and Rb-bearing potassium feldspar, hosted in a vertically stacked series of gently east-dipping, shallowly north-plunging pegmatite sills. At this time, The Seymour Lake pegmatites have been classified as belonging to the Complex-type, Spodumene-subtype. Mineralization is dominated by spodumene (Li), with lesser beryl (Be), tantalite (Ta), and Rb-bearing potassium feldspar, hosted in a vertically stacked series of gently dipping pegmatite sills.

The Project has over 4,000 metres of historic drilling from 2002 and 2009. Recent exploration and drilling (2016) has found that the lithium mineralization is hosted in extensive outcropping spodumene-bearing pegmatite structures with widths up to 30 metres and grades of up to 6.01% Li₂O. In addition, historic results show tantalum and beryllium grades of up to 1,180 ppm (Ta₂O₅) and 1,270ppm (BeO) respectively were intersected (Dimmell and Morgan, 2005).

Although up to seven different mineralogical sub-zones of the pegmatites have been described in detail (Dimmell and Morgan, 2005), drilling has shown that the sills can be considered as broadly zoned with a spodumene-quartz-albite bearing core and potassium feldspar rich edges. Spodumene crystals vary from 10 centimetres in length to as much as 3 to 4 metres. Beryl crystals occur throughout the width of the pegmatite, often in very large pale green crystals as much as 0.4 m in diameter. Tantalite occurs as fine to coarse crystals (up to 2 cm in diameter), generally irregularly distributed along strike (local pockets may contain as much as 50% tantalite, i.e. “nuggety”), but concentrated near the albite-potassium feldspar transition.

EXPLORATION HISTORY ON THE PROPERTY

Since the discovery of the “Aubry Pegmatites” in the 1950s, exploration work has identified significant concentrations of Ta, Be, and Li within the LCT Pegmatite dikes (e.g., Dimmell and Morgan, 2005). The exploration history is summarized as follows:

- 1957: Discovery of the Aubry Pegmatites by prospector Nelson Aubry (Nakina, Ontario).
- 1957: Anaconda Company (Canada) Limited – optioned from Aubry; mapping, sampling, diamond drilling (11 holes, 398m on North Aubry/4 holes, 100m on South Aubry). Drill core assayed for Li and Be.
- 1959-62: E.G. Pye (Ontario Department of Mines) mapped the area and described lithium occurrences in the area in addition to the Aubry pegmatites (Pye, 1968).
- 1969-70: Tantalum Corporation of Canada (Tanco) – ACA Howe International Ltd. completed geological mapping, geophysics, stripping, and chip sampling (110 samples) on North Aubry.
- 1979: E&B Explorations Inc. and Cominco Ltd. – line cutting and ground magnetic surveys.
- 1999: Clark Exploration (Garry Clark) – grab sampling (Clark and Maitland, 2000).
- 2000-02: Linear Resources Inc. – gridding, prospecting, geological mapping, soil and Lithochemical sampling, trenching, channel sampling, and diamond drilling (1,866m in 32 holes).
- 2005: Dimmell and Morgan (2005) publish summary paper in Exploration and Mining Geology.

2008-09: Linear Resources Inc. – geological mapping, soil (640 enzyme leach samples; 200m lines/50m stations) and rock sampling, and diamond drilling (2,362m in 19 holes; North (12) and South (7)).

2016: Benton Resources: diamond drilling (281m in 6 holes; February-March).

2016: Ardiden Limited: surface exploration (mapping, channel sampling; July-November).

CURRENT EXPLORATION PROGRAM

The Seymour Lake Property contains spodumene pegmatite mineralization at the North Aubry, South Aubry and Pye pegmatites. The focus of this program was on the northwestern-western area of the Property, specifically the North and South Aubry pegmatites where drilling targeted further definition of the orientation, strike and depth of the known spodumene bearing pegmatites. A summary of the personnel involved in the exploration program is provided in Table 1.

Table 1- Personnel

Julie Selway	Program Manager Geologist QP
Dan Courtney	Site Supervisor Geologist
Derek Drayson	Core Logger Geologist
Brent Clark	Core Logger Geologist

Diamond Drilling

Between October 22nd and December 5th of 2016 a diamond drilling program was completed targeting the North and South Aubry pegmatites. During this time 27 drill holes totalling 1728 metres were drilled. Drilling was completed by Rugged Aviation Inc. out of Murillo, Ontario. The drill was mobilized to the property on October 22nd and drilling commenced on October 24th and was completed on November 30th. A complete list of drillholes can be found in Table 2. Core logging and cutting was completed by geological staff from Caracle Creek International Consulting out of Sudbury.

Table 2 - Diamond Drill Hole Locations

Drillhole ID	Easting (NAD83)	Northing (NAD83)	Elevation	Depth (m)	Azimuth	Dip	Zone
SL-16-47	397003	5585037	398	50	271	-61	North Aubry
SL-16-48	397008	5585060	398	50	279	-60	North Aubry
SL-16-49	396999	5585115	402	52	275	-60	North Aubry
SL-16-50	396969	5585114	402	50	282	-61	North Aubry
SL-16-51	397012	5585092	400	50	276	-60	North Aubry
SL-16-52	397023	5585113	398	48	282	-61	North Aubry
SL-16-53	396970	5585030	398	50	261	-61	North Aubry
SL-16-54	396960	5585050	393	51	271	-59	North Aubry
SL-16-55	396929	5585049	389	50	276	-61	North Aubry
SL-16-56	396939	5585102	387	51	264	-60	North Aubry
SL-16-57	396912	5585111	383	50	271	-60	North Aubry
SL-16-58	396937	5585115	393	51	267	-59	North Aubry
SL-16-59	396915	5585095	390	49	279	-61	North Aubry
SL-16-60	396941	5585144	396	50	278	-60	North Aubry

Drillhole ID	Easting (NAD83)	Northing (NAD83)	Elevation	Depth (m)	Azimuth	Dip	Zone
SL-16-61	396968	5585145	401	51	270	-60	North Aubry
SL-16-62	396967	5585177	405	105	264	-60	North Aubry
SL-16-63	396994	5585167	399	105	270	-62	North Aubry
SL-16-64	396998	5585238	398	102	267	-59	North Aubry
SL-16-65	396965	5585245	396	101	274	-60	North Aubry
SL-16-66	396923	5585238	388	52	278	-60	North Aubry
SL-16-67	396896	5585230	378	51	265	-59	North Aubry
SL-16-68	396539	5584627	337	52	278	-59	South Aubry
SL-16-69	396527	5584573	333	52	91	-61	South Aubry
SL-16-70	396851	5585116	376	50	270	-60	North Aubry
SL-16-71	397028	5585169	398	102	262	-60	North Aubry
SL-16-72	396858	5585154	376	101	120	-80	North Aubry
SL-16-73	397110	5585130	372	102	272	-59	North Aubry

QUALITY ASSURANCE/ QUALITY CONTROL PROGRAM

A Quality Assurance/ Quality Control (QA/QC) program was designed, implemented, managed and reported on by Selway (2016).

As part of quality control, every 20 samples included one blank, one Li standard and one field duplicate. The blank was ½ inch mesh coarse silica purchased from Analytical Solutions Ltd., Toronto, Ontario. A total of 23 blanks were inserted into the sample stream. The blanks are silica-rich with typically about 97% SiO₂. The field duplicates were cut from drill core by cutting ¼ of the drill core.

The Li standard was purchased from Brammer Standard Company Inc., Houston, Texas, United States. The Li standard was CGL 128 created by Mongolia Central Geological Laboratory. A total of 22 Li standards were inserted into the sample stream. The Li standard has a certified value of 0.578% Li₂O and a 95% confidence level of 0.015% Li₂O. The starting material for the Li standard was a bulk of lithium ore from the Wolfram lithium deposit located at Arbyan area in Mongolia.

Sample Processing

Drill core was cut on site using a saw with a diamond blade. Drill core was sawn in half, one half was placed in a standard clear 6 mil poly bag. Samples were then placed in rice bags for transportation with approximately ten samples per rice bag. Samples were delivered by Caracle Creek's geology team to Actlabs preparation lab in Thunder Bay. The samples were prepared in Thunder Bay preparation lab and then analyzed in Actlabs' analytical lab, located in Ancaster, Ontario.

Actlabs' Quality System is accredited to international quality standards through the International Organization for Standardization /International Electrotechnical Commission (ISO/IEC) 17025 (ISO/IEC 17025 includes ISO 9001 and ISO 9002 specifications) with CAN-P-1578 (Forensics), CAN-P-1579 (Mineral Analysis) and CAN-P-1585 (Environmental) for specific registered tests by the Standards Council of Canada ("SCC"). The accreditation program includes ongoing audits which verify the QA system and all applicable registered test methods. ISO 17025 is the main standard

used by testing and calibration laboratories. Both Actlabs' preparation lab in Thunder Bay and its analytical lab in Ancaster have ISO 17025 certification.

The samples were prepared using RX1 analytical code. RX1 is dry, crush entire sample to 90% -10 mesh, riffle split (up to 5 kg) and pulverize with hardened steel (250 g sample to 95% -150 mesh) (includes cleaner sand).

Ore grade lithium samples were analyzed by FUS-Na₂O₂ (8-peroxide ICP-Li) analytical code which is sodium peroxide fusion with analysis by ICP-OES and a detection limit of 0.01% Li₂O. Fusion is a "total" digestion of the silicate sample and is the superior method to use for pegmatite analyses.

The major element oxides and trace elements including Rb, Cs, Nb, Ta and Be were analyzed by FUS-ICP and FUS-MS (4Litho-Pegmatite Special) analytical codes. This is lithium metaborate tetraborate fusion with analysis by ICP and ICPMS.

The specific gravity was determined for every 10th sample by RX17-GP analytical code which is a measurement on the pulp by a gas pycnometer.

Actlabs inserted internal standards, blanks and pulp duplicates within each sample batch as part of their own internal monitoring of quality control. They used the following lithium standards: NCS DC86303 with a certified value of 0.46% Li₂O, NCS DC86304 with a certified value of 2.29% Li₂O and NCS DC86314 with a certified value of 3.89% Li₂O.

The Qualified Person believes that the nature, quality and appropriateness of the assaying and laboratory procedures were acceptable and appropriate for the analysis of spodumene pegmatites. Fusion digestion method was used for "total" digestion of the silicate samples.

Verification of Sampling and Assaying

The QA/QC review of the assay data for the 2016 drill samples was conducted by Fladgate Exploration Consulting Corporation at the time of writing this report. Fladgate Exploration is independent of Ardiden Ltd.

A review of the QA/QC analyses included in this drill program indicates that the standards, blanks and duplicates are of moderate quality. Of the 23 blanks inserted into the sample stream, 20 were below the detection limit of 0.01% Li₂O. Two samples returned values at the detection limit, and one sample was twice the detection limit. Overall, the blank results indicate that there was no Li contamination across sample analyses.

The standard analyses displayed a high bias, as only 13 out of 22 analyses were within 3 sigma of the certified value. The remaining 40% of the standards fell above the top acceptable range (3 sigma) by up to 6%.

Twenty-three field duplicates were analysed in this program. Of these, 70% returned acceptable results in that they were within 10% error about the mean of the two analyses. The remaining 30% of the samples returned between 10 and 54% error about the mean, however only 1 out of 7 samples contained Li₂O > 2%.

CONCLUSIONS AND RECOMMENDATIONS

The 2016 fall exploration drill program successfully continued to intersect spodumene bearing pegmatite and provide valuable information about the grade and orientation of the pegmatite in both the Aubry North and South zones. Significant intersections are included in table 3 below and drill logs can be found in Appendix III at the back of this report.

It is recommended to continue drilling to determine the full extent of these dykes at depth and along strike and to explore to see if there are further pegmatites in the area.

Table 3 - Significant Intersections

Hole ID	From (m)	To (m)	Width (m)	Li ₂ O%
SL-16-47				NA
SL-16-48				NA
SL-16-49	34	41.98	8.24	1.66
SL-16-50	17	34.68	17.83	1.66
SL-16-51	32	34.55	2.55	0.94
SL-16-52	36	43.06	7.03	1.7
SL-16-53				NA
SL-16-54	2	21.70	19.22	2.22
SL-16-55				NA
SL-16-56	6	12.10	6.2	1.84
SL-16-57	0	7.77	7.32	2.15
SL-16-58	3	12.00	9.17	2.52
SL-16-59	4	10.00	6	2.59
SL-16-60	3	23.00	20	1.38
SL-16-61	12	19.57	7.44	0.75
SL-16-61	20	28.85	8.48	2.38
SL-16-62	30	40.60	11.05	2.1
SL-16-63	38	43.60	6	2.23
SL-16-63	87	103.25	15.8	1.7
SL-16-64	73	80.72	7.77	2.81
SL-16-65				NA
SL-16-66				NA
SL-16-67				NA
SL-16-68	6	13.90	8.06	1.64
SL-16-69	5	13.00	7.8	1.07
SL-16-70				NA
SL-16-71	45	50.00	5.25	5.25
SL-16-72	58	62.20	4.35	1.65
SL-16-73	63	77.23	14.33	1.2

REFERENCES

- Breaks, F.W., Selway, J.B., and Tindle, A.G. (2006): Fertile and peraluminous granites and related rare-element mineralization in pegmatites, north-central and northeastern Superior Province, Ontario; Ontario Geological Survey, Open File Report 6195, 143 p.
- Breaks, F.W., Selway, J.B., and Tindle, A.G. (2003). Fertile peraluminous granites and related rare element mineralization in pegmatites, Superior province, northwest and northeast Ontario; Operation Treasure Hunt. Ontario Geological Survey, Open File Report 6099, 179 p.
- Breaks, F.W. and Tindle, A.G. (1997). Rare-metal exploration potential of the Separation. Lake area: an emerging target for Bikita-type mineralization in the Superior Province of NW Ontario, Ontario Geological Survey, Open File Report 5966, 42 p.
- Černý, P., Ercit, T.S., and Vanstone, P.J. (1998). Mineralogy and petrology of the Tanco rare-element pegmatite deposit, southeastern Manitoba. International Mineralogical Association, 17th General Meeting, Field Trip Guidebook B6, 74 p.
- Černý, P. (1991). Rare-element granitic pegmatites. Part I: Anatomy and Internal Evolution of Pegmatite Deposits, Geoscience Canada, v. 18. No. 2, pp. 49-67
- Clark, G. and Maitland, T. (2000). Prospecting and exploration of the Crescent Lake area, 52 1/8 NW. 1999 OAP Program Report.
- Dimmell, P.M. and Morgan, J.A. (2005). The Aubry Pegmatites: Exploration for Highly-Evolved Lithium-Cesium-Tantalum Pegmatites in Northern Ontario. Exploration and Mining Geology, v.14, pp. 45-59.
- Galeschuk, C. and Vanstone, P. (2007). Exploration Techniques for Rare-Element Pegmatite in the Bird River Greenstone Belt, Southeastern Manitoba (Pare 55). In "Proceedings of Exploration 07: Fifth Decennial International Conference on Mineral Exploration" edited by B. Milkereit, 2007, pp. 823-839.
- Jobin-Bevans, S. (2016). Technical Report for MNM Assessment, 2016 Surface Exploration Program, Seymour Lake Property, Armstrong, NW Ontario, Canada. For Ardiden Limited, September 28, 2018. Caracle Creek International Consulting Inc., 30 p.
- McCulloch, P.D. (1969). Report on geological survey, Seymour Lake Claims, Port Author Mining Division, Ontario. Tantalum Mining Corporation of Canada Limited, Report 244, September 24, 1969.
- Pye, E.G. (1968). Geology of the Crescent Lake; Geologic Report No. 55, Ontario Dept. of Mines.
- Rees, M. (2011). Report of 2008 – 2009 Exploration on the Seymour Lake Property: Soil and Rock Sampling, Geologic Mapping, and Diamond Drilling Programs, Armstrong Station, NW Ontario (Sept. 3rd-Oct. 15th, 2008 and Sept. 20th-Dec. 7th, 2009); prepared for Linear Metals Corporation, 448 p.
- Selway, J.B. (2016). QA/QC Report for 2016 Channel Samples and Prospecting Samples, Seymour Lake Property, Armstrong, NW Ontario, Canada. For Ardiden Limited, November 1, 2016. Caracle Creek International Consulting Inc., 23 p.
- Selway, J.B., Breaks, F.W., and Tindle, A.G. (2005). A review of rare-element (Li-Cs-Ta) pegmatite exploration techniques for the Superior Province, Canada and large worldwide Tantalum deposits, Exploration and Mining Geology, v.14, pp. 1-30.

STATEMENT OF QUALIFICATIONS**Caitlin L. Jeffs, B.Sc., P.Geo.**

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Canada
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CERTIFICATE OF THE AUTHOR

I, **Caitlin Jeffs**, do hereby certify that:

1. I am a Partner of Fladgate Exploration Consulting Corporation, the geological consulting firm tasked with this report.
2. I am a member in good standing of the Association of Professional Geoscientists of Ontario (APGO #1488).
3. I am a graduate of the University of British Columbia (Hons. B.Sc., 2002).
4. I have practiced geology for 17 years in a variety of settings, mostly in Northwestern Ontario, Canada, and Chile. I have specific experience in lithium deposits including being directly involved in designing and implementing exploration programs, geological models, and quality assurance-quality control procedures and analysis for pegmatite hosted lithium projects in northwestern Ontario since 2010.
5. I have read the definition of "Qualified Person" as set out in the National Instrument 43-101 and certify that by reason of my education, affiliation with a professional association and past relevant work experience, I am a "Qualified Person" for the purposes of NI 43-101.

Dated October 22nd, 2018

"Caitlin Jeffs"

Caitlin Jeffs BSc P. Geo
Vice President
Fladgate Exploration Consulting Corporation

Appendix I: Mining Claims

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
110794	CRESCENT LAKE AREA	2019-01-05	400	Ardiden Limited
137057	CRESCENT LAKE AREA	2019-01-05	400	Ardiden Limited
202394	CRESCENT LAKE AREA	2019-01-05	400	Ardiden Limited
209206	CRESCENT LAKE AREA	2019-01-05	400	Ardiden Limited
209207	CRESCENT LAKE AREA	2019-01-05	400	Ardiden Limited
257034	CRESCENT LAKE AREA	2019-01-05	400	Ardiden Limited
110796	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
114199	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
114200	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
130705	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
130706	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
158701	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
158702	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
164044	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
166147	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
182257	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
186849	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
186850	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
189693	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
195436	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
199575	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
199576	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
202392	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
213972	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
216046	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
234658	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
239142	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
239197	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
246792	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
247930	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
247931	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
259408	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
259409	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
269391	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
282661	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
282662	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
290713	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
293546	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
305606	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
312405	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
313967	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
332326	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
332327	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited
341621	CRESCENT LAKE AREA	2019-01-19	200	Ardiden Limited
343884	CRESCENT LAKE AREA	2019-01-19	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
109882	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
109883	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
109884	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
110795	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
111512	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
128849	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
134452	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
139233	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
144333	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
145302	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
147129	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
147130	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
150834	CRESCENT LAKE AREA	2019-08-02	200	Ardiden Limited
154018	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
157231	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
158455	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
158456	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
158595	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
158739	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
159350	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
161227	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
161228	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
164672	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
174901	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
176401	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
183014	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
191608	CRESCENT LAKE AREA	2019-08-02	200	Ardiden Limited
192878	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
192879	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
202393	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
204013	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
206643	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
211639	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
213762	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
228166	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
238343	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
239069	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
247152	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
250469	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
257033	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
257911	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
261948	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
265918	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
277335	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
302513	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
306359	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
307057	CRESCENT LAKE AREA	2019-08-02	200	Ardiden Limited
313660	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
313661	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
313805	CRESCENT LAKE AREA	2019-08-02	200	Ardiden Limited
313806	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
313807	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
322021	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
325851	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
326498	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
327346	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
327347	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
329159	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
329160	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
338554	CRESCENT LAKE AREA	2019-08-02	400	Ardiden Limited
103639	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
107692	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
108167	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
108604	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
108937	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
108938	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
108996	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
108997	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
109057	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
109058	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
109059	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
110337	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
110535	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
112523	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
112551	CRESCENT LAKE AREA,FALCON LAKE AREA	2019-09-26	200	Ardiden Limited
112595	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
112596	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
112597	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
118922	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
120203	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
120204	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
120259	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
120826	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
121653	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
122538	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
122831	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
123189	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
124124	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
125514	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
126089	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
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131036	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
131682	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
132743	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
133053	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
133964	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
136419	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
136560	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
137595	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
140447	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
140448	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
141643	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
141644	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
142382	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
142383	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
142384	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
142472	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
142473	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
143955	CRESCENT LAKE AREA,FALCON LAKE AREA	2019-09-26	200	Ardiden Limited
143956	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
143993	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
146398	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
147644	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
147645	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
148378	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
149178	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
149896	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
150235	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
152639	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
156594	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
156623	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
158014	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
158015	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
158271	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
161036	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
161037	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
161676	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
162796	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
162797	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
162822	CRESCENT LAKE AREA,FALCON LAKE AREA	2019-09-26	200	Ardiden Limited
164376	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
165944	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
167316	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
167714	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
171277	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
176855	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
176909	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
177474	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
177475	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
177476	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
177781	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
177782	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
180818	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
180819	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
182794	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
182795	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
182796	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
183611	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
183612	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
184210	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
184741	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
184742	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
186558	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
186683	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
190097	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
190098	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
190099	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
193064	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
193065	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
196429	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
196430	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
196483	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
196484	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
197307	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
197308	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
200288	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
200289	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
200308	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
200309	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
200448	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
200449	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
201118	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
201239	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
202617	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
202618	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
202648	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
202649	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
205191	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
205516	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
207771	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
209269	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
210680	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
210717	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
210718	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
212521	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
213639	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
213710	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
213711	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
216480	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
217640	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
219379	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
219380	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
219487	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
223147	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
226787	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
226788	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
232543	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
232544	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
233869	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
233870	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
233871	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
234515	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
234778	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
235385	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
235386	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
235387	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
236750	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
237700	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
237862	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
237863	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
238117	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
238118	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
240508	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
240509	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
240531	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
243517	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
243518	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
243519	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
243520	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
243586	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
243587	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
244708	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
244969	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
250994	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
251057	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
252479	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
252702	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
252703	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
252704	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
252705	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
255760	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
255899	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
255900	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
256271	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
256272	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
256854	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
257285	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
257286	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
257287	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
263029	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
264070	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
264527	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
265023	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
265024	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
265025	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
267053	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
267830	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
267831	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
268004	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
270371	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
270372	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
271256	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
271759	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
273176	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
275233	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
275234	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
276614	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
276615	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
276616	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
276648	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
276649	CRESCENT LAKE AREA,FALCON LAKE AREA	2019-09-26	200	Ardiden Limited
276682	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
279143	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
279144	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
279145	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
280073	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
280074	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
280139	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
280559	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
280560	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
280561	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
282193	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
282194	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
282491	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
283382	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
284136	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
285387	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
289913	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
289914	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
290555	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
291446	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
292244	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
292949	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
297769	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
297770	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
298149	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
298150	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
298151	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
298724	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
298725	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
299556	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
299557	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
299558	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
299613	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
303562	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
304087	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
304354	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
306092	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
306434	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
306465	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
306466	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
306503	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
306504	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
311763	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
311764	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
312238	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
312836	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
313251	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
313252	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
313281	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
316941	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
317425	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
317570	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
318609	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
320752	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
320753	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
326001	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
326002	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
326003	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
326004	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
326385	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
328430	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
331525	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
331526	CRESCENT LAKE AREA,FALCON LAKE AREA	2019-09-26	200	Ardiden Limited
331527	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
333247	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
333248	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
336637	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
337814	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
337815	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
338426	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
338427	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
338473	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
338474	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
338790	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
339017	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
339018	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
340393	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
341504	CRESCENT LAKE AREA	2019-09-26	400	Ardiden Limited
342142	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
342143	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
342329	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
343145	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
343146	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
343147	FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
343748	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
343749	CRESCENT LAKE AREA	2019-09-26	200	Ardiden Limited
344314	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
344315	CRESCENT LAKE AREA,FERLAND STATION AREA	2019-09-26	400	Ardiden Limited
102009	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
111208	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
111240	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
115999	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
116000	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
116001	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
149204	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
152695	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
164290	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
164291	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
167331	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
177615	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
186421	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
186458	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
186459	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
224207	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
224208	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
230975	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
230976	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
252530	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
264569	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
264570	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
271302	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
278196	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
278197	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
297013	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
312772	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
312773	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
318517	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
326802	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
331205	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
331233	FERLAND STATION AREA	2019-10-04	400	Ardiden Limited
518640	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518641	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518642	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518643	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518644	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518645	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518646	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518647	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518648	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518649	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518650	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518651	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518652	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518653	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518654	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518655	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518656	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518657	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518658	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518659	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518660	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518661	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518662	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518663	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
518664	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518665	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518666	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518667	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518668	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518669	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518670	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518671	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518672	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518673	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518674	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518675	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518676	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518677	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518678	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518679	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518680	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518681	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518682	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518683	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518684	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518685	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518686	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
518687	FERLAND STATION AREA	2020-04-25	400	Ardiden Limited
519760	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519761	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519762	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519763	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519764	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519765	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519766	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519767	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519768	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519769	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519770	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519771	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519772	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519773	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519774	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519775	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519776	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519777	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519778	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519779	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519780	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
519781	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519782	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519783	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519784	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519785	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519786	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519787	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519788	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519789	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519790	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519791	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519792	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519793	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519794	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519795	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519796	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519797	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519798	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519803	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519804	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519805	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519806	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519807	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519808	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519809	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519810	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519811	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519812	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519813	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519814	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519815	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519816	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519817	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519818	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519819	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519820	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519821	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519822	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519823	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519824	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519825	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519826	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519827	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519828	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited
519829	CRESCENT LAKE AREA	2020-04-27	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
519969	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519970	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519971	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519972	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519973	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519974	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519975	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519976	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519977	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519978	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519979	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519980	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519981	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519982	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519983	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519984	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519985	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519986	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519987	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519988	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519989	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519990	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519991	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519992	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519993	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519994	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519995	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519996	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519997	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519998	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
519999	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520000	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520001	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520002	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520003	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520004	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520005	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520006	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520007	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520008	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520009	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520010	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520011	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520012	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520013	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
520014	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520015	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520016	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520017	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520018	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520019	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520020	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520021	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520022	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520023	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520024	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520025	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520026	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520027	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520028	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520029	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520030	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520031	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520032	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520033	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520034	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520035	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520036	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520037	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520038	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520039	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520040	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520041	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520042	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520043	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520044	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520045	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520046	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520047	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520048	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520049	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520050	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520051	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520052	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520053	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520054	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520055	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520056	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520057	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520058	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
520059	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520060	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520061	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520062	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520063	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520064	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520065	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520066	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520067	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520068	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520069	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520070	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520071	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520072	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520073	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520074	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520075	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520076	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520077	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520078	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520079	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520080	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520081	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520082	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520083	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520084	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520085	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520086	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520087	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520088	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520089	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520090	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520091	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520092	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520093	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520094	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520095	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520096	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520097	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520098	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520099	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520100	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520101	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520102	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520103	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited

Tenure ID	Township / Area	Anniversary Date	Work Required	Owner
520104	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520105	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520106	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520107	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520108	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520109	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520110	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520111	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520112	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520113	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520114	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520115	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520116	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520117	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520118	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited
520119	FERLAND STATION AREA	2020-04-27	400	Ardiden Limited

Appendix II: Assays & Certificates

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-47	1127501	31	31.95	1	A16-11702	20	45	56.2	68	< 0.01	0
SL-16-47	1127502	32	32.65	0.7	A16-11702	8 < 1		694	0	0.05	0
SL-16-47	1127503	33	33.65	1	A16-11702	13 < 1		6880	1	0.1	0
SL-16-47	1127504	39	39.81	1	A16-11702	6	7	1150	35	0.05	0
SL-16-47	1127505	40	40.53	0.72	A16-11702	56	30	1610	64	0.08	0
SL-16-47	1127506	41	41.53	1	A16-11702	2 < 1		672	0	0.05	0
SL-16-48	1127507	24	24.84	0.95	A16-11702	4 < 1		16.6	0	0.03	0
SL-16-48	1127508	25	25.14	0.3	A16-11702	66	51	157	279	0.02	0
SL-16-48	1127509	25	25.44	0.3	A16-11702	15	1	3510	2	0.11	0
SL-16-48	1127511	25	25.7	0.26	A16-11702	197	67	217	173	0.03	0
SL-16-48	1127512	26	26.38	0.68	A16-11702	93	13	1870	30	0.12	0
SL-16-48	1127513	26	26.86	0.48	A16-11702	193	49	53.3	172	< 0.01	0
SL-16-48	1127514	27	27.86	1	A16-11702	2 < 1		91.1	1	0.07	0
SL-16-49	1127515	33	33.74	1	A16-11702	10 < 1		111	1	0.13	0
SL-16-49	1127517	34	34.85	1.11	A16-11702	292	73	191	110	1.45	3
SL-16-49	1127518	35	35.9	1.05	A16-11702	163	122	77.7	227	0.07	0
SL-16-49	1127519	36	36.9	1	A16-11702	33	67	251	99	0.9	2
SL-16-49	1127521	37	37.65	0.75	A16-11702	214	31	253	85	1.5	3
SL-16-49	1127522	38	38.12	0.47	A16-11702	66	33	192	69	0.13	0
SL-16-49	1127523	38	39.12	1	A16-11702	436	35	315	67	0.71	2
SL-16-49	1127524	39	40.12	1	A16-11702	479	56	387	134	0.5	1
SL-16-49	1127525	40	41.12	1	A16-11702	91	50	234	123	0.65	1
SL-16-49	1127526	41	41.98	0.86	A16-11702	129	36	138	68	0.81	2
SL-16-49	1127527	42	42.32	0.34	A16-11702	116	45	124	104	0.21	0
SL-16-49	1127528	42	43	0.68	A16-11702	4	8	337	83	0.04	0
SL-16-49	1127529	43	43.28	0.28	A16-11702	208	80	78.6	171	0.02	0
SL-16-49	1127531	43	44.28	1	A16-11702	76	8	38.4	11	0.03	0
SL-16-50	1127532	16	16.85	1	A16-11702	3 < 1		12.6	0	0.08	0
SL-16-50	1127533	17	17.85	1	A16-11702	70	62	198	140	0.68	1
SL-16-50	1127534	18	18.85	1	A16-11702	104	30	212	53	1.41	3
SL-16-50	1127535	19	19.85	1	A16-11702	310	65	322	124	1.5	3
SL-16-50	1127537	20	21.4	1.55	A16-11702	104	20	587	34	0.07	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-50	1127538	21	22.1	0.7	A16-11702	77	71	494	158	0.7	2
SL-16-50	1127539	22	23.13	1.03	A16-11702	4	10	594	35	0.23	1
SL-16-50	1127541	23	24	0.87	A16-11702	6	496	204	1190	1.58	3
SL-16-50	1127542	24	25	1	A16-11702	12	17	289	92	0.78	2
SL-16-50	1127543	25	26	1	A16-11702	62	12	346	66	0.72	2
SL-16-50	1127544	26	26.89	0.89	A16-11702	149	15	432	55	0.48	1
SL-16-50	1127545	27	27.89	1	A16-11702	52	14	152	27	0.63	1
SL-16-50	1127546	28	28.89	1	A16-11702	128	23	283	42	0.85	2
SL-16-50	1127547	29	29.58	0.69	A16-11702	78	18	226	70	1.69	4
SL-16-50	1127548	30	30.41	0.82	A16-11702	84	26	188	123	0.11	0
SL-16-50	1127549	30	31.41	1	A16-11702	192	35	270	61	0.93	2
SL-16-50	1127551	31	32.41	1	A16-11702	181	51	279	72	1.2	3
SL-16-50	1127552	32	33.41	1	A16-11702	421	57	184	114	0.5	1
SL-16-50	1127553	33	34.68	1.27	A16-11702	133	50	185	72	0.54	1
SL-16-50	1127554	35	35.08	0.4	A16-11702	83	51	37.8	174	0.01	0
SL-16-50	1127555	35	36.08	1	A16-11702	10	3	37.2	1	0.05	0
SL-16-51	1127557	31	32	1	A16-11702	3	2	98.9	0	0.1	0
SL-16-51	1127558	32	33	1	A16-11702	496	78	130	140	0.32	1
SL-16-51	1127559	33	34	1	A16-11702	89	108	483	208	0.43	1
SL-16-51	1127561	34	34.55	0.55	A16-11702	177	120	535	189	0.66	1
SL-16-51	1127562	35	35.88	1.33	A16-11702	25	8	507	7	0.14	0
SL-16-51	1127563	36	36.3	0.42	A16-11702	170	34	43.9	275	0.02	0
SL-16-51	1127564	36	37.3	1	A16-11702	10	6	502	18	0.09	0
SL-16-52	1127565	35	36.03	1	A16-11702	6	4	428	2	0.13	0
SL-16-52	1127566	36	37.03	1	A16-11702	246	83	222	243	1.12	2
SL-16-52	1127567	37	38.03	1	A16-11702	122	211	316	453	1.35	3
SL-16-52	1127568	38	39.03	1	A16-11702	25	374	214	592	1.74	4
SL-16-52	1127569	39	39.67	0.64	A16-11702	259	69	231	123	0.73	2
SL-16-52	1127571	40	40.67	1	A16-11702	104	72	156	230	0.06	0
SL-16-52	1127572	41	42.06	1.39	A16-11702	210	74	239	132	0.37	1
SL-16-52	1127573	42	43.06	1	A16-11702	8	4	3640	6	0.29	1
SL-16-53	1127574	16	16.91	1	A16-11702	2	3	97.6	1	0.07	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-53	1127575	17	17.11	0.2	A16-11702	33	72	42.4	200	0.01	0
SL-16-53	1127577	17	18.11	1	A16-11702	1	2	9.4	1	0.06	0
SL-16-54	1127578	2	3	0.52	A16-11702	26	6	565	18	0.48	1
SL-16-54	1127579	3	4	1	A16-11702	462	15	420	53	0.45	1
SL-16-54	1127581	4	5	1	A16-11702	152	14	354	75	0.64	1
SL-16-54	1127582	5	6	1	A16-11702	10	29	203	105	1.48	3
SL-16-54	1127583	6	7	1	A16-11702	34	15	178	101	1.54	3
SL-16-54	1127584	7	8	1	A16-11702	655	24	436	166	1.05	2
SL-16-54	1127585	8	9	1	A16-11702	2137	38	991	237	1.43	3
SL-16-54	1127586	9	10	1	A16-11702	802	132	514	923	1.91	4
SL-16-54	1127587	10	11	1	A16-11702	36	11	149	57	2.18	5
SL-16-54	1127588	11	12	1	A16-11702	429	96	283	800	1.71	4
SL-16-54	1127589	12	13	1	A16-11702	12	448	110	3720	0.99	2
SL-16-54	1127591	13	14	1	A16-11702	273	23	402	118	1.5	3
SL-16-54	1127592	14	15	1	A16-11702	656	61	792	256	1	2
SL-16-54	1127593	15	16	1	A16-11702	57	10	366	57	1.3	3
SL-16-54	1127594	16	17	1	A16-11702	239	21	373	134	0.25	1
SL-16-54	1127595	17	18	1	A16-11702	109	38	448	198	0.3	1
SL-16-54	1127597	18	19	1	A16-11702	76	62	425	267	0.78	2
SL-16-54	1127598	19	20	1	A16-11702	194	48	349	203	0.48	1
SL-16-54	1127599	20	20.7	0.7	A16-11702	150	92	244	120	0.21	0
SL-16-54	1127601	21	21.7	1	A16-12021	22	7	1180	24	0.39	1
SL-16-54	1127602	28	29.22	1	A16-12021	9	3	1990	3	0.33	1
SL-16-54	1127603	29	30.12	0.9	A16-12021	27	86	2120	194	0.25	1
SL-16-54	1127604	30	31.12	1	A16-12021	7	5	69.4	18	0.17	0
SL-16-55	1127605	14	15.32	1	A16-12021	11	2	479	5	0.23	1
SL-16-55	1127606	15	16.13	0.81	A16-12021	65	67	337	246	0.02	0
SL-16-55	1127607	16	17.13	1	A16-12021	2	2	152	1	0.17	0
SL-16-56	1127608	6	7	1.1	A16-12021	49	50	626	240	0.59	1
SL-16-56	1127609	7	8	1	A16-12021	23	88	158	264	0.98	2
SL-16-56	1127611	8	9	1	A16-12021	39	7	321	30	0.9	2
SL-16-56	1127612	9	10	1	A16-12021	7	22	406	103	1.01	2

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-56	1127613	10	11	1	A16-12021	22	11	132	44	1.22	3
SL-16-56	1127614	11	12.1	1.1	A16-12021	82	46	567	266	0.5	1
SL-16-56	1127615	12	13.1	1	A16-12021	9	60	1150	571	0.15	0
SL-16-56	1127617	13	14.05	0.95	A16-12021	10	89	1480	743	0.25	1
SL-16-56	1127618	14	15	0.95	A16-12021	149	89	143	402	0.02	0
SL-16-56	1127619	15	16	1	A16-12021	92	93	40.7	262	< 0.01	0
SL-16-56	1127621	16	16.5	0.5	A16-12021	129	40	27.1	204	< 0.01	0
SL-16-56	1127622	17	17.5	1	A16-12021	5	2	134	1	0.13	0
SL-16-57	1127623	0	1	0.55	A16-12021	31	14	442	85	0.79	2
SL-16-57	1127624	1	2	1	A16-12021	1196	7	365	45	2.15	5
SL-16-57	1127625	2	3	1	A16-12021	80	17	324	119	0.8	2
SL-16-57	1127626	3	4	1	A16-12021	31	31	332	82	0.77	2
SL-16-57	1127627	4	5	1	A16-12021	156	18	344	46	1	2
SL-16-57	1127628	5	6	1	A16-12021	61	28	268	35	0.59	1
SL-16-57	1127629	6	7	1	A16-12021	47	75	176	131	1.1	2
SL-16-57	1127631	7	7.77	0.77	A16-12021	228	49	325	134	0.61	1
SL-16-57	1127632	8	9.15	1.38	A16-12021	107	61	100	175	0.03	0
SL-16-57	1127633	9	10.15	1	A16-12021	6	3	184	1	0.14	0
SL-16-58	1127634	3	4	1.17	A16-12021	875	82	463	149	0.93	2
SL-16-58	1127635	4	5	1	A16-12021	39	15	212	28	2.79	6
SL-16-58	1127637	5	6	1	A16-12021	93	134	327	309	1.9	4
SL-16-58	1127638	6	7	1	A16-12021	40	42	283	109	1.64	4
SL-16-58	1127639	7	8	1	A16-12021	177	10	298	25	0.56	1
SL-16-58	1127641	8	9	1	A16-12021	78	17	320	31	0.87	2
SL-16-58	1127642	9	10	1	A16-12021	65	16	407	52	0.91	2
SL-16-58	1127643	10	11	1	A16-12021	465	39	319	123	0.55	1
SL-16-58	1127644	11	12	1	A16-12021	196	42	260	80	0.44	1
SL-16-58	1127645	12	13	1	A16-12021	79	13	382	22	0.05	0
SL-16-58	1127646	13	14.07	1.07	A16-12021	70	21	300	43	0.41	1
SL-16-58	1127647	14	15.07	1	A16-12021	1 < 1		5.8	0	0.04	0
SL-16-59	1127648	4	5	1	A16-12021	93	23	383	162	1.06	2
SL-16-59	1127649	5	6	1	A16-12021	74	26	318	52	0.87	2

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-59	1127651	6	7	1	A16-12021	83	28	302	77	1.25	3
SL-16-59	1127652	7	8	1	A16-12021	293	37	309	85	1.2	3
SL-16-59	1127653	8	9	1	A16-12021	64	15	343	156	1.47	3
SL-16-59	1127654	9	10	1	A16-12021	53	22	227	79	1.36	3
SL-16-59	1127655	10	11.03	1.03	A16-12021	100	61	252	302	0.27	1
SL-16-59	1127657	11	12.03	1	A16-12021	4	2	206	2	0.24	1
SL-16-60	1127658	3	4	1	A16-12021	42	172	262	384	1.14	2
SL-16-60	1127659	4	5	1	A16-12021	1877	61	495	161	2.15	5
SL-16-60	1127661	5	6	1	A16-12021	11	356	350	733	0.26	1
SL-16-60	1127662	6	7	1	A16-12021	30	94	355	186	1.3	3
SL-16-60	1127663	7	8	1	A16-12021	88	126	522	215	0.26	1
SL-16-60	1127664	8	9	1	A16-12021	55	17	534	34	0.29	1
SL-16-60	1127665	9	10	1	A16-12021	46	23	351	49	0.98	2
SL-16-60	1127666	10	11	1	A16-12021	28	28	519	60	0.52	1
SL-16-60	1127667	11	12	1	A16-12021	52	35	177	104	0.68	1
SL-16-60	1127668	12	13	1	A16-12021	20	11	119	41	0.16	0
SL-16-60	1127669	13	14	1	A16-12021	59	27	255	46	0.82	2
SL-16-60	1127671	14	15	1	A16-12021	472	45	411	95	0.73	2
SL-16-60	1127672	15	16	1	A16-12021	246	67	317	181	0.08	0
SL-16-60	1127673	16	17	1	A16-12021	158	32	594	92	0.27	1
SL-16-60	1127674	17	18	1	A16-12021	108	15	473	46	0.45	1
SL-16-60	1127675	18	19	1	A16-12021	283	18	635	60	0.5	1
SL-16-60	1127677	19	20	1	A16-12021	232	33	623	47	0.25	1
SL-16-60	1127678	20	21	1	A16-12021	250	26	435	51	0.41	1
SL-16-60	1127679	21	22	1	A16-12021	77	15	453	29	0.38	1
SL-16-60	1127681	22	23	1	A16-12021	140	34	306	379	1.2	3
SL-16-60	1127682	23	24	1	A16-12021	176	59	413	187	0.22	0
SL-16-60	1127683	24	25.47	1.47	A16-12021	106	55	320	167	0.02	0
SL-16-60	1127684	25	26.47	1	A16-12021	3	2	155	1	0.09	0
SL-16-60	1127685	31	32.04	1	A16-12021	28	7	224	4	0.06	0
SL-16-60	1127686	32	32.36	0.32	A16-12021	110	11	56.8	112	0.03	0
SL-16-60	1127687	32	33.36	1	A16-12021	13	3	568	1	0.1	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-61	1127688	11	12.13	1	A16-12021	7	2	86	0	0.08	0
SL-16-61	1127689	12	13.13	1	A16-12021	68	55	176	175	0.75	2
SL-16-61	1127691	13	14.13	1	A16-12021	74	28	218	97	0.09	0
SL-16-61	1127692	14	15.13	1	A16-12021	64	31	197	89	0.19	0
SL-16-61	1127693	15	16.13	1	A16-12021	113	137	292	238	0.7	2
SL-16-61	1127694	16	17.63	1.5	A16-12021	124	39	331	122	0.26	1
SL-16-61	1127695	18	18.19	0.56	A16-12021	38	6	937	8	0.35	1
SL-16-61	1127697	18	18.57	0.38	A16-12021	80	35	629	479	0.12	0
SL-16-61	1127698	19	19.57	1	A16-12021	111	20	773	55	0.21	0
SL-16-61	1127699	20	21.37	1	A16-12592	88	14	721	58	0.19	0
SL-16-61	1127701	21	22.37	1	A16-12592	61	79	509	207	0.93	2
SL-16-61	1127702	22	23.37	1	A16-12592	229	71	363	113	0.84	2
SL-16-61	1127703	23	24.37	1	A16-12592	191	46	505	101	0.42	1
SL-16-61	1127704	24	25.37	1	A16-12592	207	43	382	75	1.41	3
SL-16-61	1127705	25	26.37	1	A16-12592	68	32	443	52	0.77	2
SL-16-61	1127706	26	27.37	1	A16-12592	406	44	306	96	1.52	3
SL-16-61	1127707	27	28.85	1.48	A16-12592	121	55	297	145	0.24	1
SL-16-61	1127708	29	29.85	1	A16-12592	8	3	254	1	0.13	0
SL-16-61	1127709	32	32.8	1	A16-12592	14	2	107	0	0.13	0
SL-16-61	1127711	33	33.81	1.01	A16-12592	210	78	126	198	0.31	1
SL-16-61	1127712	34	34.81	1	A16-12592	9	2	182	1	0.12	0
SL-16-61	1127713	37	37.57	1	A16-12592	2	2	74.8	0	0.07	0
SL-16-61	1127714	38	38.17	0.6	A16-12592	138	58	105	218	0.01	0
SL-16-61	1127715	38	39.17	1	A16-12592	1	2	354	1	0.11	0
SL-16-62	1127717	28	28.54	1	A16-12592	9	2	714	0	0.09	0
SL-16-62	1127718	29	29.55	1.01	A16-12592	412	80	297	222	0.14	0
SL-16-62	1127719	30	30.55	1	A16-12592	119	68	149	167	0.43	1
SL-16-62	1127721	31	31.55	1	A16-12592	140	54	219	127	0.9	2
SL-16-62	1127722	32	32.55	1	A16-12592	450	80	230	118	0.85	2
SL-16-62	1127723	33	33.55	1	A16-12592	339	30	377	71	1.12	2
SL-16-62	1127724	34	34.55	1	A16-12592	125	21	494	82	1.3	3
SL-16-62	1127725	35	35.55	1	A16-12592	200	42	375	120	1.11	2

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-62	1127726	36	36.55	1	A16-12592	278	25	278	62	1.48	3
SL-16-62	1127727	37	37.55	1	A16-12592	187	21	297	48	1.35	3
SL-16-62	1127728	38	38.55	1	A16-12592	93	24	259	48	0.97	2
SL-16-62	1127729	39	39.55	1	A16-12592	115	56	106	196	0.44	1
SL-16-62	1127731	40	40.6	1.05	A16-12592	45	48	99.1	127	0.78	2
SL-16-62	1127732	41	41.6	1	A16-12592	11	3	244	2	0.06	0
SL-16-62	1127733	91	92.23	1	A16-12592	2	4	31.8	1	0.06	0
SL-16-62	1127734	92	93.23	1	A16-12592	49	105	203	134	0.06	0
SL-16-62	1127735	93	94.23	1	A16-12592	112	88	163	269	1.66	4
SL-16-62	1127737	94	95.23	1	A16-12592	135	112	162	214	0.71	2
SL-16-62	1127738	95	96.23	1	A16-12592	289	80	266	136	0.45	1
SL-16-62	1127739	96	97.12	0.89	A16-12592	56	76	287	65	0.11	0
SL-16-62	1127741	97	98.12	1	A16-12592	8	3	1270	1	0.16	0
SL-16-63	1127742	29	30	1	A16-12592	16	6	767	1	0.09	0
SL-16-63	1127743	30	30.94	0.94	A16-12592	41	63	340	97	0.75	2
SL-16-63	1127744	31	31.94	1	A16-12592	14	4	269	9	0.09	0
SL-16-63	1127745	33	33.82	1	A16-12592	22	3	31.1	5	0.05	0
SL-16-63	1127746	34	34.4	0.58	A16-12592	85	56	46.9	265	0.01	0
SL-16-63	1127747	34	35.4	1	A16-12592	6	2	39.5	1	0.09	0
SL-16-63	1127748	37	37.6	1	A16-12592	18	3	635	5	0.15	0
SL-16-63	1127749	38	38.6	1	A16-12592	230	26	327	80	1.49	3
SL-16-63	1127751	39	39.6	1	A16-12592	30	42	326	118	1.41	3
SL-16-63	1127752	40	40.6	1	A16-12592	20	19	383	93	0.94	2
SL-16-63	1127753	41	41.6	1	A16-12592	9	24	484	63	0.62	1
SL-16-63	1127754	42	42.6	1	A16-12592	152	34	473	86	0.53	1
SL-16-63	1127755	43	43.6	1	A16-12592	51	24	355	70	1.24	3
SL-16-63	1127757	44	45	1.4	A16-12592	76	23	448	64	0.15	0
SL-16-63	1127758	45	46	1	A16-12592	140	111	95.1	323	0.03	0
SL-16-63	1127759	46	46.83	0.83	A16-12592	92	23	199	52	0.02	0
SL-16-63	1127761	47	47.83	1	A16-12592	2	2	81.7	1	0.22	0
SL-16-63	1127762	84	85.18	1	A16-12592	35	3	193	2	0.12	0
SL-16-63	1127763	85	85.71	0.53	A16-12592	9538	14	935	30	0.13	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-63	1127764	86	86.71	1	A16-12592	6602	84	947	148	0.25	1
SL-16-63	1127765	87	87.45	0.74	A16-12592	65	145	547	187	0.22	0
SL-16-63	1127766	87	88.61	1.16	A16-12592	79	43	498	146	2.16	5
SL-16-63	1127767	89	89.8	1.19	A16-12592	93	98	722	136	0.13	0
SL-16-63	1127768	90	91	1.2	A16-12592	21	14	656	72	0.07	0
SL-16-63	1127769	91	92	1	A16-12592	71	26	449	75	0.94	2
SL-16-63	1127771	92	93	1	A16-12592	262	24	796	185	1.28	3
SL-16-63	1127772	93	94	1	A16-12592	307	34	563	151	0.14	0
SL-16-63	1127773	94	95	1	A16-12592	52	30	812	224	1.12	2
SL-16-63	1127774	95	96.45	1.45	A16-12592	231	28	606	74	1.05	2
SL-16-63	1127775	96	97.35	0.9	A16-12592	109	14	353	273	0.95	2
SL-16-63	1127777	97	98.25	0.9	A16-12592	9	30	273	814	1.27	3
SL-16-63	1127778	98	99.25	1	A16-12592	82	84	63.9	614	< 0.01	0
SL-16-63	1127779	99	100.28	1.03	A16-12592	293	98	472	409	0.11	0
SL-16-63	1127781	100	101.28	1	A16-12592	139	29	332	134	1.29	3
SL-16-63	1127782	101	102.25	0.97	A16-12592	200	21	503	72	0.92	2
SL-16-63	1127783	102	103.25	1	A16-12592	166	36	369	215	0.42	1
SL-16-63	1127784	103	104.25	1	A16-12592	16	3	381	1	0.16	0
SL-16-64	1127785	72	72.95	1	A16-12592	8	4	49.1	1	0.04	0
SL-16-64	1127786	73	73.95	1	A16-12592	77	28	200	58	0.3	1
SL-16-64	1127787	74	74.95	0.8	A16-12592	260	27	667	76	0.85	2
SL-16-64	1127788	75	75.95	1	A16-12592	53	10	484	49	1.01	2
SL-16-64	1127789	76	76.95	1	A16-12592	5	9	191	69	0.57	1
SL-16-64	1127791	77	77.95	1	A16-12592	3	2	164	18	1.41	3
SL-16-64	1127792	78	78.95	1	A16-12592	26	20	167	73	1.76	4
SL-16-64	1127793	79	79.95	1	A16-12592	3	64	109	187	2.38	5
SL-16-64	1127794	80	80.72	0.77	A16-12592	16	71	207	126	2.43	5
SL-16-64	1127795	81	81.72	1	A16-12592	331	134	232	367	0.22	0
SL-16-64	1127797	82	82.72	1	A16-12592	242	42	50.6	171	0.01	0
SL-16-64	1127798	83	83.93	1.21	A16-12592	116	204	267	513	0.04	0
SL-16-64	1127799	84	84.93	1	A16-12592	8	14	7820	49	0.26	1
SL-16-65	1127801	62	63.09	1	A16-12592	19	10	712	26	0.12	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-65	1127802	63	63.5	0.41	A16-12592	197	79	145	221	0.05	0
SL-16-65	1127803	64	64.84	1.34	A16-12592	16	6	350	2	0.09	0
SL-16-65	1127804	65	65.36	0.52	A16-12592	66	66	213	93	0.07	0
SL-16-65	1127805	65	66.36	1	A16-12592	5	5	267	4	0.06	0
SL-16-65	1127806	76	76.87	1	A16-12592	10	7	292	11	0.1	0
SL-16-65	1127807	77	77.24	0.37	A16-12592	364	205	222	237	0.05	0
SL-16-65	1127808	77	78.24	1	A16-12592	11	5	207	2	0.06	0
SL-16-66	1127809	14	15.33	1	A16-12592	5	3	236	1	0.07	0
SL-16-66	1127811	15	16.72	1.39	A16-13265	220	99	154	191	0.05	0
SL-16-66	1127812	17	18	1.28	A16-13265	21	7	896	3	0.17	0
SL-16-66	1127813	18	19	1	A16-13265	196	76	189	187	0.04	0
SL-16-66	1127814	19	20	1	A16-13265	316	101	261	422	0.05	0
SL-16-66	1127815	20	20.91	0.91	A16-13265	152	125	186	267	0.04	0
SL-16-66	1127817	21	21.91	1	A16-13265	155	109	183	222	0.04	0
SL-16-67	1127818	3	4.27	1	A16-13265	140	99	161	217	0.05	0
SL-16-67	1127819	4	5.27	1	A16-13265	114	111	419	194	0.09	0
SL-16-67	1127821	5	6.27	1	A16-13265	90	79	92.4	309	0.01	0
SL-16-67	1127822	6	7.27	1	A16-13265	2	4	151	1	0.04	0
SL-16-67	1127823	10	10.87	1	A16-13265	< 1	3	210	0	0.04	0
SL-16-67	1127824	11	11.02	0.15	A16-13265	33	17	316	118	0.02	0
SL-16-67	1127825	11	12	0.98	A16-13265	5	3	87.3	1	0.03	0
SL-16-68	1127826	6	6.84	1	A16-13265	51	4	601	1	0.3	1
SL-16-68	1127827	7	7.84	1	A16-13265	16	33	82.8	96	1.27	3
SL-16-68	1127828	8	8.84	1	A16-13265	20	109	46.6	337	1.06	2
SL-16-68	1127829	9	9.84	1	A16-13265	25	43	648	159	0.34	1
SL-16-68	1127831	10	10.84	1	A16-13265	175	36	509	115	0.69	1
SL-16-68	1127832	11	11.84	1	A16-13265	52	66	306	202	0.68	1
SL-16-68	1127833	12	12.84	1	A16-13265	93	107	491	191	1.11	2
SL-16-68	1127834	13	13.9	1.06	A16-13265	28	59	209	143	0.66	1
SL-16-68	1127835	14	14.84	0.94	A16-13265	9	4	42.1	2	0.05	0
SL-16-68	1127837	15	15.78	0.94	A16-13265	3	2	22	0	0.04	0
SL-16-68	1127838	16	16.72	0.94	A16-13265	2	2	18.3	0	0.03	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-68	1127839	17	17.66	0.94	A16-13265	13	3	36.5	1	0.12	0
SL-16-68	1127841	18	18.66	1	A16-13265	78	37	447	117	0.17	0
SL-16-68	1127842	19	19.66	1	A16-13265	152	54	336	88	0.56	1
SL-16-68	1127843	20	20.66	1	A16-13265	341	92	489	175	0.37	1
SL-16-68	1127844	21	21.66	1	A16-13265	10	16	302	31	1.24	3
SL-16-68	1127845	22	22.66	1	A16-13265	14	17	243	38	1.16	2
SL-16-68	1127846	23	23.66	1	A16-13265	931	25	463	60	0.36	1
SL-16-68	1127847	24	24.66	1	A16-13265	64	49	612	120	0.52	1
SL-16-68	1127848	25	25.66	1	A16-13265	202	20	164	39	0.95	2
SL-16-68	1127849	26	26.71	1.05	A16-13265	157	36	1450	106	0.24	1
SL-16-68	1127851	27	27.83	1.12	A16-13265	12	9	477	4	0.09	0
SL-16-68	1127852	28	28.2	0.37	A16-13265	90	64	228	598	0.03	0
SL-16-68	1127853	28	29.2	1	A16-13265	2	7	76.9	1	0.05	0
SL-16-69	1127854	5	6	0.8	A16-13265	279	27	530	134	0.41	1
SL-16-69	1127855	6	7	1	A16-13265	123	41	602	117	0.47	1
SL-16-69	1127857	7	8	0.94	A16-13265	188	36	441	96	0.39	1
SL-16-69	1127858	8	9	0.91	A16-13265	115	59	490	115	0.22	0
SL-16-69	1127859	9	10	1	A16-13265	374	46	433	119	0.64	1
SL-16-69	1127861	10	11	1	A16-13265	614	21	574	34	0.18	0
SL-16-69	1127862	11	12	1	A16-13265	177	42	438	106	0.74	2
SL-16-69	1127863	12	13	1	A16-13265	181	42	300	145	0.92	2
SL-16-69	1127864	13	14	1	A16-13265	96	43	121	122	0.01	0
SL-16-69	1127865	14	15.7	0.9	A16-13265	45	45	83.4	201	< 0.01	0
SL-16-69	1127866	16	16.7	1	A16-13265	4	2	55.1	0	0.05	0
SL-16-70	1127867	5	5.82	1	A16-13265	5	3	361	1	0.15	0
SL-16-70	1127868	6	6.76	0.94	A16-13265	27	50	315	197	0.15	0
SL-16-70	1127869	7	7.48	0.72	A16-13265	81	30	8760	87	0.2	0
SL-16-70	1127871	7	7.76	0.28	A16-13265	114	29	531	504	0.04	0
SL-16-70	1127872	8	8.76	1	A16-13265	7	4	118	2	0.08	0
SL-16-70	1127873	9	9.25	0.49	A16-13265	2	3	4.4	0	0.02	0
SL-16-70	1127874	9	9.47	0.22	A16-13265	13	19	11.6	33	0.01	0
SL-16-70	1127875	9	10.47	1	A16-13265	1	3	2.7	0	0.01	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-71	1127877	43	43.75	1	A16-13265	< 1	2	14.6	0	0.05	0
SL-16-71	1127878	44	44.75	1	A16-13265	7	7	621	32	0.1	0
SL-16-71	1127879	45	45.75	1	A16-13265	258	34	605	81	0.44	1
SL-16-71	1127881	46	46.5	0.75	A16-13265	3	3	545	21	0.72	2
SL-16-71	1127882	47	47	0.5	A16-13265	6	6	523	34	0.12	0
SL-16-71	1127883	47	48	1	A16-13265	28	148	158	627	1.07	2
SL-16-71	1127884	48	49	1	A16-13265	148	195	170	289	1.08	2
SL-16-71	1127885	49	50	1	A16-13265	142	97	162	212	0.54	1
SL-16-71	1127886	50	51	1	A16-13265	111	67	78.1	126	0.11	0
SL-16-71	1127887	51	51.5	0.5	A16-13265	142	68	374	172	0.27	1
SL-16-71	1127888	52	52.5	1	A16-13265	38	4	324	4	0.12	0
SL-16-71	1127889	55	55.75	1	A16-13265	14	3	179	1	0.06	0
SL-16-71	1127891	56	56.46	0.71	A16-13265	113	82	148	194	0.03	0
SL-16-71	1127892	56	57.46	1	A16-13265	8	3	268	7	0.07	0
SL-16-71	1127957	57	58.4	0.94	A16-13265	1 < 1		19	0	0.03	0
SL-16-71	1127893	86	86.95	1	A16-13265	8	2	72.1	2	0.05	0
SL-16-71	1127894	87	87.95	1	A16-13265	67	33	565	141	0.08	0
SL-16-71	1127895	88	88.95	1	A16-13265	74	55	430	114	0.53	1
SL-16-71	1127897	89	89.95	1	A16-13265	127	54	351	127	0.35	1
SL-16-71	1127898	90	90.55	0.6	A16-13265	69	35	396	70	0.07	0
SL-16-71	1127899	91	91.15	0.6	A16-13265	385	73	347	144	0.14	0
SL-16-71	1127901	91	92.21	1.06	A16-13265	21	3	126	1	0.21	0
SL-16-71	1127902	92	93.21	1	A16-13265	197	71	164	148	0.49	1
SL-16-71	1127903	93	94.21	1	A16-13265	170	53	161	145	0.26	1
SL-16-71	1127904	94	95.21	1	A16-13265	304	37	359	135	0.2	0
SL-16-71	1127905	95	96.21	1	A16-13265	171	88	451	226	0.69	1
SL-16-71	1127906	96	96.87	0.66	A16-13265	363	98	658	528	0.11	0
SL-16-71	1127907	97	97.53	0.66	A16-13265	78	32	143	195	0.02	0
SL-16-71	1127908	98	98.53	1	A16-13265	6	4	255	2	0.11	0
SL-16-72	1127909	3	4.06	1	A16-13265	2	3	116	1	0.1	0
SL-16-72	1127911	4	5.06	1	A16-13265	173	46	475	87	0.05	0
SL-16-72	1127912	5	6.06	1	A16-13265	1336	30	910	103	0.04	0

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-72	1127913	6	6.79	0.73	A16-13265	1177	46	973	245	0.08	0
SL-16-72	1127914	7	7.79	1	A16-13265	16	7	7140	30	0.21	0
SL-16-72	1127915	49	49.7	1	A16-13265	14	3	449	1	0.09	0
SL-16-72	1127916	50	50.7	1	A16-13265	24	18	586	68	0.02	0
SL-16-72	1127918	51	51.8	1.1	A16-13265	19	6	880	41	< 0.01	0
SL-16-72	1127919	52	52.9	1.1	A16-13265	8	3	837	25	0.1	0
SL-16-72	1127921	53	53.9	1	A16-13265	132	52	508	105	0.1	0
SL-16-72	1127922	54	54.9	1	A16-13265	29	99	461	352	0.07	0
SL-16-72	1127923	55	55.9	1	A16-13265	171	63	281	121	0.04	0
SL-16-72	1127924	56	56.85	0.95	A16-13265	75	34	537	133	0.02	0
SL-16-72	1127925	57	57.85	1	A16-13265	6	43	648	897	0.04	0
SL-16-72	1127926	58	58.85	1	A16-13265	8	115	757	2760	0.43	1
SL-16-72	1127927	59	59.85	1	A16-13265	23	20	540	248	1.29	3
SL-16-72	1127928	60	60.85	1	A16-13265	135	53	558	277	0.99	2
SL-16-72	1127929	61	62.2	1.35	A16-13265	7	9	568	45	0.46	1
SL-16-72	1127931	62	63.3	1.1	A16-13265	88	44	88.2	228	0.02	0
SL-16-72	1127932	63	64.3	1	A16-13265	9	5	45.4	13	0.06	0
SL-16-72	1127933	88	88.55	1	A16-13265	2	3	113	1	0.1	0
SL-16-72	1127934	89	89.2	0.65	A16-13265	25	53	197	669	< 0.01	0
SL-16-72	1127935	89	90.2	1	A16-13265	4	3	36.4	1	0.04	0
SL-16-73	1127937	61	62.1	1	A16-13265	17	9	2650	17	0.21	0
SL-16-73	1127938	62	62.9	0.8	A16-13265	25750	8	2010	33	0.19	0
SL-16-73	1127939	63	63.9	1	A16-13265	1190	19	838	43	0.3	1
SL-16-73	1127941	64	64.9	1	A16-13265	160	39	470	109	0.84	2
SL-16-73	1127942	65	65.9	1	A16-13265	47	48	508	40	0.74	2
SL-16-73	1127943	66	66.9	1	A16-13265	114	44	510	33	0.1	0
SL-16-73	1127944	67	67.9	1	A16-13265	15	70	569	49	0.18	0
SL-16-73	1127945	68	68.9	1	A16-13265	142	51	568	87	0.34	1
SL-16-73	1127946	69	69.9	1	A16-13265	525	53	472	76	0.5	1
SL-16-73	1127947	70	70.9	1	A16-13265	258	31	579	32	0.24	1
SL-16-73	1127948	71	71.9	1	A16-13265	227	40	397	54	0.3	1
SL-16-73	1127949	72	72.9	1	A16-13265	209	52	319	38	0.33	1

Hole ID	Sample #	From (m)	To (m)	Width (m)	Report_Number	Be_PPM	Nb_PPM	Cs_PPM	Ta_PPM	Li_PCT	Li2O_PCT
SL-16-73	1127951	73	73.9	1	A16-13265	67	40	351	247	1.37	3
SL-16-73	1127952	74	74.9	1	A16-13265	175	43	479	105	0.8	2
SL-16-73	1127953	75	75.9	1	A16-13265	111	21	327	33	1.55	3
SL-16-73	1127954	76	77.23	1.33	A16-13265	152	84	349	130	0.31	1
SL-16-73	1127956	77	78.23	1	A16-13265	5	1	63	0	0.03	0



Date Submitted: 10-Dec-16
Invoice No.: A16-13265
Invoice Date: 19-Jan-17
Your Reference: Seymour Lake

Ardiden Ltd.
Suite 6, 295 Rokeby Rd
Subiaco WA 6008
Australia

ATTN: Brad Boyle (inv/res)

CERTIFICATE OF ANALYSIS

147 Core samples were submitted for analysis.

The following analytical package(s) were requested:

- Code 4Litho-Pegmatite Special Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
- Code 8-Li (Sodium Peroxide Fusion) Sodium Peroxide Fusion
- Code Specific Gravity-Pycnometer (Nitrogen) Pulp by Nitrogen Pycnometer

REPORT **A16-13265**

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Notes:

Total includes all elements in % oxide to the left of total.

CERTIFIED BY:

Emmanuel Esemé , Ph.D.
Quality Control

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Results

Activation Laboratories Ltd.

Report: A16-13265

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127811	73.37	15.83	0.69	0.091	0.10	0.36	6.97	1.25	0.015	0.22	0.72	99.60	< 1	220	< 5	30	1	< 20	< 10	80	51	6	< 5
1127812	64.77	14.46	6.91	0.117	2.35	2.68	1.79	3.41	0.749	0.15	1.68	99.06	18	21	142	90	19	40	90	120	20	2	< 5
1127813	73.42	15.52	0.73	0.079	0.09	0.34	7.24	0.93	0.019	0.21	0.55	99.12	< 1	196	< 5	< 20	< 1	< 20	< 10	50	45	7	< 5
1127814	70.95	16.66	0.68	0.115	0.07	0.43	7.89	1.10	0.013	0.29	0.67	98.88	< 1	316	< 5	< 20	< 1	< 20	< 10	60	51	8	< 5
1127815	71.63	17.59	0.61	0.112	0.09	0.75	7.96	1.05	0.011	0.42	0.51	100.7	< 1	152	< 5	< 20	< 1	< 20	< 10	50	46	7	< 5
1127816	44.76	15.77	14.15	0.257	7.77	10.58	1.28	1.48	1.217	0.11	1.62	98.99	46	7	375	200	49	110	70	160	20	2	6
1127817	71.68	16.16	0.68	0.088	0.11	0.55	7.61	1.14	0.020	0.28	0.61	98.91	< 1	155	< 5	< 20	< 1	< 20	< 10	60	48	6	< 5
1127818	69.95	18.22	0.50	0.069	0.05	0.42	9.29	0.73	0.010	0.28	0.46	99.98	< 1	140	< 5	< 20	< 1	< 20	< 10	50	49	7	< 5
1127819	67.28	19.57	0.72	0.112	0.08	0.32	7.15	2.56	0.018	0.23	1.01	99.05	< 1	114	< 5	< 20	< 1	< 20	< 10	120	66	7	< 5
1127820	74.54	13.38	0.68	0.596	0.03	0.75	0.58	6.17	0.054	0.02	2.05	98.85	12	5	< 5	110	< 1	< 20	170	580	30	7	48
1127821	67.98	19.10	0.40	0.074	0.03	0.69	10.46	0.35	0.007	0.41	0.32	99.81	< 1	90	< 5	< 20	< 1	< 20	< 10	40	43	7	< 5
1127822	49.56	15.79	12.60	0.241	6.12	11.68	1.86	0.41	1.157	0.10	0.90	100.4	45	2	327	210	49	110	90	90	18	2	< 5
1127823	51.17	16.97	12.16	0.221	4.94	8.56	3.18	1.01	1.236	0.10	0.73	100.3	48	< 1	348	230	52	120	110	90	19	1	< 5
1127824	66.90	16.49	2.48	0.056	0.75	2.49	7.72	0.42	0.216	0.28	1.14	98.93	8	33	56	50	7	< 20	30	< 30	36	5	< 5
1127825	49.41	15.99	13.84	0.266	5.23	10.57	2.58	0.47	1.179	0.10	0.58	100.2	46	5	340	220	49	120	90	90	19	2	< 5
1127826	46.87	16.96	11.45	0.201	7.37	10.05	1.29	2.28	0.841	0.06	1.90	99.27	36	51	249	260	49	150	30	100	20	5	< 5
1127827	68.85	22.19	1.53	0.176	0.22	0.64	5.61	0.64	0.028	0.12	0.37	100.4	2	16	11	30	2	< 20	< 10	< 30	66	6	< 5
1127828	67.17	22.30	1.20	0.146	0.12	0.82	6.72	0.41	0.011	0.33	0.48	99.72	< 1	20	6	< 20	< 1	< 20	20	< 30	64	7	< 5
1127829	66.99	19.09	1.52	0.146	0.67	1.11	5.80	4.02	0.080	0.39	0.50	100.3	3	25	24	40	4	< 20	10	60	44	6	< 5
1127830	97.75	0.60	2.53	0.025	0.02	0.03	0.05	0.05	0.028	< 0.01	-0.28	100.8	< 1	< 1	5	< 20	1	< 20	20	< 30	1	1	< 5
1127831	75.20	15.82	0.86	0.076	0.06	0.19	3.59	3.46	0.006	0.06	0.16	99.46	< 1	175	< 5	30	< 1	< 20	< 10	< 30	38	6	< 5
1127832	73.71	15.93	0.88	0.167	0.07	0.30	4.23	2.86	0.009	0.15	0.22	98.53	< 1	52	< 5	40	< 1	< 20	< 10	< 30	38	5	< 5
1127833	69.23	19.72	0.87	0.201	0.06	0.22	4.11	5.02	0.005	0.13	0.20	99.76	< 1	93	< 5	30	< 1	< 20	< 10	< 30	45	7	< 5
1127834	70.53	18.69	1.27	0.084	0.37	0.47	4.91	2.91	0.026	0.13	0.40	99.79	1	28	9	30	2	< 20	< 10	< 30	47	6	< 5
1127835	47.60	16.06	13.41	0.185	7.40	8.51	2.11	1.51	0.900	0.08	2.71	100.5	37	9	283	430	41	140	< 10	60	18	3	< 5
1127836	47.53	15.83	13.45	0.183	7.12	8.83	2.06	1.55	0.896	0.10	2.69	100.2	38	9	297	430	42	140	< 10	80	18	3	< 5
1127837	48.36	16.27	11.21	0.202	6.81	9.56	2.63	1.52	0.714	0.04	1.96	99.27	32	3	241	350	45	140	< 10	70	16	2	< 5
1127838	48.94	16.04	10.97	0.200	6.71	10.83	2.30	1.52	0.750	0.06	1.78	100.1	34	2	249	480	45	130	< 10	80	16	3	< 5
1127839	48.96	16.30	10.80	0.213	6.03	12.13	1.98	1.07	0.781	0.06	1.61	99.95	38	13	270	560	38	100	10	70	18	3	< 5
1127840	75.09	13.66	0.69	0.590	0.03	0.76	0.58	6.05	0.051	< 0.01	1.95	99.45	12	5	< 5	130	< 1	< 20	170	570	29	7	59
1127841	72.06	15.26	0.59	0.189	0.08	0.35	4.66	5.20	0.006	0.18	0.14	98.72	< 1	78	< 5	30	< 1	< 20	< 10	< 30	35	6	< 5
1127842	72.82	16.89	0.70	0.188	0.08	0.21	3.98	4.54	0.005	0.10	0.18	99.69	< 1	152	< 5	30	< 1	< 20	< 10	< 30	37	6	< 5
1127843	71.86	16.47	0.65	0.133	0.09	0.24	4.45	4.56	0.009	0.09	0.33	98.88	< 1	341	< 5	30	< 1	< 20	< 10	< 30	37	6	< 5
1127844	76.37	16.37	1.12	0.081	0.10	0.17	1.86	3.42	0.007	0.07	0.20	99.76	< 1	10	< 5	40	1	< 20	< 10	< 30	50	6	< 5
1127845	73.94	17.85	1.31	0.094	0.14	0.22	3.14	2.46	0.007	0.04	0.35	99.54	2	14	< 5	40	2	< 20	< 10	< 30	49	6	< 5
1127846	74.26	16.21	0.77	0.048	0.12	0.25	4.77	3.27	0.008	0.06	0.33	100.1	< 1	931	< 5	30	< 1	< 20	< 10	< 30	35	5	< 5
1127847	70.12	17.52	0.94	0.098	0.25	0.22	3.04	6.82	0.013	0.08	0.64	99.73	< 1	64	< 5	30	2	< 20	10	30	41	6	< 5
1127848	74.31	17.56	1.02	0.076	0.23	0.29	4.26	1.63	0.005	0.05	0.57	100.0	< 1	202	< 5	20	1	< 20	< 10	< 30	46	6	< 5
1127849	70.17	16.10	2.34	0.124	0.74	1.01	5.02	3.10	0.282	0.09	0.93	99.91	10	157	87	40	5	< 20	< 10	50	36	6	< 5
1127850	96.74	0.64	2.48	0.026	0.02	0.03	0.06	0.07	0.032	< 0.01	-0.16	99.92	< 1	< 1	6	< 20	1	< 20	< 10	< 30	1	< 1	< 5
1127851	66.03	14.49	4.99	0.115	2.17	4.01	2.25	2.51	0.653	0.18	2.05	99.44	13	12	111	90	10	40	< 10	< 30	21	2	< 5

Results

Activation Laboratories Ltd.

Report: A16-13265

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127852	67.67	17.42	1.39	0.035	0.30	1.57	5.00	3.98	0.101	0.09	1.02	98.58	2	90	15	20	2	< 20	10	30	58	8	< 5
1127853	64.91	13.41	7.24	0.094	1.95	4.84	0.88	3.49	0.497	0.15	1.56	99.02	8	2	67	70	22	60	90	40	18	1	< 5
1127854	78.24	12.25	1.25	0.067	0.25	0.43	2.11	3.87	0.033	0.03	0.31	98.85	1	279	9	30	2	< 20	< 10	< 30	27	6	< 5
1127855	74.60	15.89	0.83	0.100	0.10	0.28	3.99	3.39	0.010	0.12	0.50	99.80	< 1	123	< 5	30	3	< 20	20	50	38	6	< 5
1127856	74.46	16.10	0.87	0.093	0.14	0.27	4.15	3.33	0.011	0.09	0.63	100.2	< 1	203	< 5	20	1	< 20	< 10	50	39	6	< 5
1127857	74.92	15.05	0.77	0.109	0.12	0.22	4.30	2.98	0.013	0.05	0.58	99.12	< 1	188	< 5	30	1	< 20	< 10	60	41	6	< 5
1127858	73.73	15.49	0.56	0.073	0.16	0.25	3.95	5.31	0.006	0.08	0.46	100.1	< 1	115	< 5	30	< 1	< 20	< 10	< 30	34	5	< 5
1127859	75.57	15.67	0.76	0.100	0.08	0.27	4.16	3.05	0.005	0.07	0.30	100.0	< 1	374	5	20	< 1	< 20	< 10	< 30	37	5	< 5
1127860	74.02	13.86	0.69	0.597	0.04	0.77	0.57	6.24	0.053	< 0.01	2.07	98.90	12	5	5	130	< 1	< 20	180	600	31	7	55
1127861	73.29	16.01	0.59	0.078	0.10	0.18	4.13	5.47	0.016	0.06	0.44	100.4	< 1	614	< 5	20	< 1	< 20	< 10	50	34	5	< 5
1127862	71.41	18.31	0.72	0.093	0.08	0.26	4.42	3.87	0.008	0.07	0.39	99.63	< 1	177	7	30	< 1	< 20	< 10	< 30	42	5	< 5
1127863	71.84	18.44	0.96	0.225	0.08	0.22	4.09	2.90	0.008	0.05	0.29	99.10	< 1	181	7	30	< 1	< 20	< 10	< 30	42	5	< 5
1127864	73.77	14.92	0.48	0.047	0.03	0.32	6.70	2.64	0.005	0.07	0.22	99.20	< 1	96	< 5	30	< 1	< 20	< 10	< 30	30	5	< 5
1127865	67.84	18.76	0.73	0.066	0.05	0.58	7.39	4.20	0.005	0.27	0.22	100.1	< 1	45	< 5	20	< 1	< 20	10	< 30	34	5	< 5
1127866	47.73	15.67	10.02	0.175	7.36	11.09	2.51	1.71	0.710	0.05	3.15	100.2	34	4	238	370	43	160	20	60	17	2	< 5
1127867	49.04	15.17	12.43	0.291	7.02	9.78	2.15	1.18	1.137	0.10	2.07	100.4	43	5	321	200	48	110	100	90	18	2	< 5
1127868	66.13	18.53	0.74	0.064	0.17	0.95	8.14	3.17	0.025	0.46	0.56	98.94	< 1	27	8	< 20	< 1	< 20	< 10	< 30	44	6	< 5
1127869	46.22	13.94	14.46	0.415	5.36	7.18	1.23	3.81	0.720	0.83	4.43	98.58	29	81	256	140	36	80	190	140	32	5	21
1127870	97.21	0.95	0.85	0.010	0.06	0.07	0.12	0.12	0.028	0.01	0.36	99.78	< 1	< 1	8	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127871	66.71	16.75	2.30	0.085	0.86	2.72	6.74	1.67	0.201	0.46	0.66	99.16	7	114	50	50	10	20	40	40	33	8	< 5
1127872	50.04	15.26	11.07	0.255	6.08	10.67	3.41	0.55	1.110	0.10	1.71	100.3	41	7	313	200	46	110	110	80	18	2	< 5
1127873	46.92	14.56	13.48	0.305	6.64	11.86	2.87	0.51	1.072	0.08	2.02	100.3	42	2	329	200	44	110	20	80	18	2	< 5
1127874	53.62	16.95	7.27	0.158	3.89	6.91	5.63	1.32	0.642	0.40	2.39	99.17	21	13	167	100	28	70	60	50	15	1	< 5
1127875	47.19	15.38	12.69	0.271	5.73	12.85	3.11	0.38	1.166	0.10	1.62	100.5	43	1	344	200	46	120	30	80	19	2	< 5
1127876	47.14	15.52	12.43	0.264	5.82	12.71	3.04	0.41	1.160	0.07	1.85	100.4	43	1	340	190	44	110	20	80	19	2	< 5
1127877	49.78	15.90	12.40	0.221	5.25	13.57	1.04	0.39	0.872	0.07	1.03	100.5	46	< 1	295	290	53	150	140	90	16	2	< 5
1127878	74.99	13.00	0.82	0.057	0.26	0.71	1.65	7.19	0.036	0.26	0.44	99.40	2	7	13	40	3	< 20	10	30	23	7	< 5
1127879	72.14	16.79	0.98	0.116	0.12	0.28	1.63	6.26	0.025	0.17	1.02	99.51	< 1	258	5	30	1	< 20	< 10	170	61	7	< 5
1127880	73.47	14.53	0.69	0.603	0.03	0.76	0.57	6.24	0.052	0.01	1.98	98.94	12	5	5	130	< 1	< 20	170	580	29	7	53
1127881	76.68	14.36	0.45	0.037	0.10	0.20	1.10	5.20	0.010	0.12	0.40	98.66	< 1	3	5	40	< 1	< 20	< 10	30	34	8	< 5
1127882	77.89	12.02	0.32	0.034	0.07	0.18	1.11	6.37	0.010	0.10	0.46	98.56	< 1	6	< 5	40	< 1	< 20	< 10	50	24	7	< 5
1127883	75.33	17.36	0.53	0.096	0.09	0.37	4.01	0.67	0.008	0.22	0.57	99.25	< 1	28	5	40	< 1	< 20	< 10	40	50	7	< 5
1127884	73.49	19.21	0.44	0.070	0.09	0.27	5.30	0.29	0.005	0.12	0.44	99.73	< 1	148	5	30	< 1	< 20	< 10	< 30	51	7	< 5
1127885	71.81	17.86	0.38	0.102	0.06	0.35	6.75	0.53	0.006	0.21	0.46	98.53	< 1	142	< 5	30	< 1	< 20	< 10	40	45	6	< 5
1127886	72.07	16.89	0.22	0.071	0.05	0.32	8.29	0.38	0.005	0.14	0.36	98.79	< 1	111	< 5	30	< 1	< 20	< 10	< 30	38	6	< 5
1127887	71.23	17.05	0.54	0.100	0.16	1.08	6.81	0.83	0.030	0.28	1.02	99.11	1	142	8	40	2	< 20	< 10	410	47	6	44
1127888	52.34	12.67	10.01	0.214	4.56	14.63	0.49	0.50	0.642	0.07	4.29	100.4	33	38	217	210	37	100	100	90	14	3	< 5
1127889	46.24	14.01	14.72	0.304	5.64	15.26	0.57	0.49	0.708	0.05	2.43	100.4	37	14	252	240	51	130	350	100	15	3	< 5
1127890	97.02	0.67	0.98	0.010	0.06	0.09	0.08	0.07	0.032	< 0.01	0.28	99.29	< 1	< 1	6	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127891	72.73	15.64	0.54	0.057	0.19	0.87	7.30	1.18	0.020	0.31	0.64	99.46	< 1	113	9	20	2	< 20	20	50	40	7	< 5
1127892	49.48	14.27	12.14	0.207	6.91	11.91	1.50	0.69	0.761	0.09	1.41	99.38	42	8	274	300	50	140	100	100	15	2	< 5

Results

Activation Laboratories Ltd.

Report: A16-13265

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127893	48.45	14.01	11.83	0.257	5.73	15.39	0.88	0.61	0.757	0.08	2.03	100.0	41	8	277	300	46	120	110	90	15	3	< 5
1127894	69.61	15.87	0.61	0.080	0.43	0.86	4.12	5.99	0.017	0.25	1.16	98.99	< 1	67	7	< 20	3	< 20	20	50	36	7	< 5
1127895	73.26	16.22	0.56	0.070	0.29	0.42	3.74	4.05	0.017	0.20	0.72	99.54	< 1	74	7	30	1	< 20	10	< 30	43	6	< 5
1127896	72.38	16.51	0.30	0.053	0.11	0.31	4.29	4.82	0.005	0.25	0.39	99.41	< 1	175	< 5	20	1	< 20	< 10	< 30	36	6	< 5
1127897	76.54	13.85	0.47	0.085	0.19	0.32	4.24	2.18	0.014	0.14	0.77	98.80	< 1	127	5	30	1	< 20	< 10	70	41	5	< 5
1127898	73.47	15.23	0.39	0.056	0.08	0.31	4.90	4.08	0.012	0.14	0.63	99.31	< 1	69	< 5	40	< 1	< 20	< 10	60	38	6	< 5
1127899	73.07	15.07	0.46	0.082	0.19	0.65	5.33	2.78	0.014	0.26	0.81	98.71	< 1	385	< 5	< 20	1	< 20	10	80	47	6	< 5
1127900	74.74	13.83	0.69	0.604	0.03	0.77	0.58	6.24	0.051	0.02	1.99	99.55	12	5	5	130	< 1	< 20	180	570	29	6	48
1127901	49.94	17.65	11.09	0.270	4.49	13.36	0.65	0.75	0.928	0.10	1.19	100.4	48	21	298	350	55	150	80	100	18	3	< 5
1127902	69.39	19.27	0.41	0.099	0.15	0.77	7.32	0.86	0.013	0.27	0.56	99.13	< 1	197	7	30	< 1	< 20	< 10	< 30	46	6	< 5
1127903	72.59	16.51	0.30	0.173	0.06	0.36	7.96	0.43	0.007	0.16	0.44	98.98	< 1	170	< 5	20	< 1	< 20	< 10	< 30	38	6	< 5
1127904	74.67	14.73	0.34	0.082	0.08	0.36	5.77	1.99	0.012	0.19	0.48	98.70	< 1	304	< 5	30	1	< 20	< 10	40	35	7	< 5
1127905	71.56	17.74	0.53	0.105	0.26	0.48	5.19	1.55	0.012	0.28	1.09	98.81	< 1	171	< 5	20	< 1	< 20	< 10	60	49	7	< 5
1127906	70.76	16.85	0.50	0.126	0.16	0.48	5.58	3.37	0.012	0.36	1.06	99.27	< 1	363	< 5	< 20	1	< 20	< 10	100	46	8	< 5
1127907	70.47	16.85	0.25	0.049	0.07	0.73	8.69	0.68	0.007	0.36	0.60	98.77	< 1	78	< 5	30	< 1	< 20	< 10	< 30	39	7	< 5
1127908	47.37	14.28	9.63	0.264	4.83	15.21	1.19	0.59	0.727	0.10	5.31	99.50	38	6	245	280	43	110	140	90	16	2	< 5
1127909	47.44	14.74	13.69	0.342	5.64	10.61	1.04	0.41	1.213	0.12	3.60	98.86	40	2	319	180	46	100	80	150	21	2	10
1127910	97.87	0.74	0.81	0.008	0.03	0.05	0.05	0.06	0.027	< 0.01	0.40	100.1	< 1	< 1	6	< 20	1	< 20	10	< 30	1	< 1	< 5
1127911	58.28	22.92	1.47	0.162	0.44	2.73	6.79	3.08	0.090	0.82	2.46	99.23	3	173	22	20	5	< 20	< 10	150	86	7	< 5
1127912	64.00	21.47	0.48	0.125	0.15	0.84	8.80	1.70	0.010	0.47	1.05	99.09	< 1	1336	< 5	< 20	< 1	< 20	< 10	60	60	8	< 5
1127913	60.47	21.17	1.02	0.187	0.38	2.71	8.11	2.03	0.043	1.84	1.29	99.25	1	1177	9	< 20	2	< 20	< 10	70	58	7	< 5
1127914	46.53	14.50	12.21	0.312	5.50	13.04	0.57	1.60	1.007	0.65	3.09	99.03	37	16	288	190	40	100	130	100	20	2	< 5
1127915	50.09	15.40	13.31	0.242	6.16	10.30	0.99	1.27	1.178	0.13	1.77	100.8	42	14	322	200	49	120	140	110	19	3	< 5
1127916	74.69	13.93	0.46	0.032	0.17	0.48	2.65	6.52	0.020	0.22	0.45	99.63	< 1	24	6	30	5	< 20	30	40	30	6	< 5
1127917	71.88	15.33	0.35	0.028	0.19	0.48	2.93	7.23	0.010	0.24	0.55	99.24	< 1	52	5	20	2	< 20	20	< 30	32	6	< 5
1127918	67.90	16.86	0.24	0.017	0.05	0.26	2.19	10.78	0.007	0.24	0.32	98.88	< 1	19	< 5	20	3	< 20	20	< 30	28	8	< 5
1127919	70.01	16.07	0.27	0.017	0.09	0.22	1.85	9.41	0.007	0.20	0.39	98.52	< 1	8	< 5	30	5	< 20	30	< 30	25	8	< 5
1127920	74.88	13.89	0.69	0.602	0.03	0.75	0.56	6.17	0.055	0.02	2.05	99.70	12	5	< 5	130	< 1	< 20	180	580	30	6	50
1127921	72.20	16.45	0.50	0.091	0.16	0.40	4.81	3.94	0.018	0.28	0.80	99.63	< 1	132	< 5	< 20	8	< 20	50	90	47	6	< 5
1127922	72.33	16.56	0.31	0.135	0.04	0.52	5.33	3.42	0.012	0.45	0.85	99.95	< 1	29	< 5	20	2	< 20	20	90	51	8	< 5
1127923	70.98	17.41	0.24	0.064	0.03	0.50	8.04	2.06	0.008	0.40	0.49	100.2	< 1	171	< 5	< 20	3	< 20	20	40	42	7	< 5
1127924	69.46	18.32	0.19	0.034	0.02	0.24	6.20	5.34	0.006	0.22	0.37	100.4	< 1	75	< 5	< 20	< 1	< 20	< 10	40	37	7	< 5
1127925	71.67	15.89	0.29	0.061	0.05	0.12	2.48	7.67	0.010	0.14	0.56	98.96	< 1	6	< 5	20	2	< 20	10	60	38	7	< 5
1127926	71.33	16.04	0.58	0.123	1.44	0.47	1.11	5.47	0.011	0.17	2.34	99.08	< 1	8	< 5	30	6	< 20	40	50	45	13	< 5
1127927	69.35	20.40	0.81	0.088	1.48	0.30	0.79	3.52	0.008	0.08	2.43	99.25	< 1	23	5	30	9	< 20	50	30	62	13	< 5
1127928	74.17	16.69	0.76	0.099	0.71	0.21	1.54	3.18	0.012	0.10	1.42	98.89	< 1	135	< 5	20	8	< 20	50	60	57	10	< 5
1127929	74.81	15.18	0.36	0.047	0.09	0.16	3.51	4.56	0.004	0.12	0.32	99.15	< 1	7	< 5	30	1	< 20	< 10	< 30	35	6	< 5
1127930	98.10	0.74	1.02	0.009	0.03	0.03	0.10	0.09	0.023	< 0.01	0.31	100.4	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127931	73.79	15.25	0.26	0.091	0.05	0.28	7.58	0.89	0.005	0.14	0.48	98.82	< 1	88	< 5	30	2	< 20	20	< 30	35	6	< 5
1127932	49.94	15.38	12.09	0.256	7.85	7.44	1.34	1.26	1.055	0.12	3.03	99.78	41	9	306	190	47	110	90	80	21	2	< 5
1127933	49.06	15.72	11.99	0.251	7.38	10.68	2.09	0.59	1.139	0.09	1.01	100.0	42	2	319	210	43	110	< 10	90	17	2	< 5

Results

Activation Laboratories Ltd.

Report: A16-13265

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127934	73.79	15.80	0.38	0.019	0.12	0.52	6.97	1.83	0.008	0.14	0.54	100.1	< 1	25	< 5	30	3	< 20	30	< 30	26	10	< 5
1127935	48.43	14.77	12.13	0.307	7.85	11.44	1.89	0.57	1.073	0.07	1.12	99.65	41	4	319	200	45	120	< 10	100	17	2	< 5
1127936	48.49	14.28	12.49	0.321	8.01	11.60	1.77	0.64	1.029	0.08	1.25	99.96	40	3	315	190	44	120	< 10	100	16	2	< 5
1127937	46.69	16.39	11.03	0.209	6.64	13.09	0.82	1.17	0.655	0.50	2.94	100.1	34	17	237	270	43	160	90	110	22	3	< 5
1127938	73.73	13.78	0.49	0.014	0.09	0.38	2.15	0.11	0.008	0.15	1.46	92.35	< 1	25750	5	60	< 1	< 20	< 10	270	19	3	< 5
1127939	68.37	18.00	0.52	0.044	0.14	0.15	2.79	8.13	0.011	0.11	0.83	99.10	< 1	1190	6	20	2	< 20	10	60	41	7	< 5
1127940	74.14	13.95	0.67	0.584	0.03	0.74	0.56	6.21	0.050	0.02	2.01	98.98	12	8	7	130	< 1	< 20	180	550	30	6	48
1127941	77.33	14.81	0.63	0.077	0.14	0.29	1.90	3.02	0.010	0.11	0.84	99.16	< 1	160	< 5	30	< 1	< 20	< 10	60	47	6	< 5
1127942	72.12	17.90	0.77	0.095	0.22	0.25	1.97	4.75	0.020	0.07	1.21	99.37	< 1	47	< 5	< 20	1	< 20	< 10	110	62	6	< 5
1127943	71.52	16.55	0.66	0.051	0.27	0.32	3.33	6.46	0.016	0.17	0.97	100.3	< 1	114	< 5	< 20	2	< 20	< 10	80	44	5	< 5
1127944	70.95	16.36	0.90	0.082	0.24	0.17	1.73	7.34	0.029	0.12	1.37	99.29	1	15	7	20	2	< 20	< 10	160	58	5	< 5
1127945	72.70	15.90	0.58	0.063	0.13	0.23	2.99	5.73	0.014	0.18	0.68	99.19	< 1	142	< 5	30	< 1	< 20	< 10	90	48	7	< 5
1127946	74.09	16.22	0.57	0.090	0.11	0.37	3.35	3.82	0.014	0.26	0.70	99.59	< 1	525	< 5	30	1	< 20	< 10	80	49	6	< 5
1127947	74.07	15.18	0.47	0.061	0.10	0.18	1.68	7.16	0.013	0.17	0.61	99.70	< 1	258	< 5	20	< 1	< 20	< 10	70	38	6	< 5
1127948	75.56	15.01	0.70	0.069	0.17	0.28	3.34	3.94	0.022	0.13	0.90	100.1	2	227	8	20	1	< 20	< 10	100	46	5	< 5
1127949	76.82	15.11	0.83	0.085	0.21	0.35	3.35	2.72	0.023	0.16	0.93	100.6	1	209	7	30	1	< 20	< 10	130	53	5	< 5
1127950	97.34	0.75	0.79	0.008	0.03	0.04	0.11	0.09	0.024	0.01	0.34	99.53	< 1	1	< 5	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127951	76.90	16.90	0.64	0.105	0.11	0.24	1.41	1.50	0.012	0.13	0.86	98.81	< 1	67	< 5	40	1	< 20	< 10	70	57	11	< 5
1127952	75.17	16.29	0.63	0.084	0.09	0.21	2.28	4.08	0.010	0.13	0.63	99.59	< 1	175	< 5	40	< 1	< 20	< 10	60	47	7	< 5
1127953	76.34	17.04	0.79	0.104	0.10	0.16	1.25	2.25	0.007	0.09	0.46	98.59	< 1	111	< 5	40	< 1	< 20	10	30	54	6	< 5
1127954	72.89	15.90	0.60	0.162	0.06	0.50	7.04	0.94	0.005	0.26	0.52	98.89	< 1	152	< 5	30	< 1	< 20	< 10	30	41	6	< 5
1127955	72.45	17.05	0.60	0.115	0.06	0.44	7.31	0.75	0.005	0.20	0.46	99.45	< 1	59	< 5	30	< 1	< 20	< 10	< 30	40	5	< 5
1127956	41.50	12.97	12.60	0.289	5.64	19.16	1.21	0.30	0.656	0.06	4.97	99.35	38	5	242	230	41	120	280	90	14	3	< 5
1127957	53.79	10.27	5.64	0.179	3.14	17.42	1.07	0.36	0.322	0.04	8.23	100.5	17	1	107	120	19	50	20	50	10	1	< 5

Results

Activation Laboratories Ltd.

Report: A16-13265

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127811	1210	19	3	25	99	< 2	< 0.5	< 0.2	18	< 0.5	154	8	9.6	3.1	191	3	6.8	< 5	10.4	3.3	0.05	0.10	
1127812	1950	69	10	148	7	< 2	< 0.5	< 0.2	7	< 0.5	896	451	16.3	3.9	2.7	2	16.8	6	3.6	2.6	0.17	0.37	
1127813	1010	20	< 2	24	76	< 2	< 0.5	< 0.2	14	< 0.5	189	16	6.3	2.6	187	2	7.1	6	8.5	4.4	0.04	0.09	
1127814	1170	21	< 2	38	101	< 2	< 0.5	< 0.2	18	0.5	261	10	18.3	5.0	422	3	7.6	9	16.0	10.7	0.05	0.10	
1127815	1050	29	2	50	125	< 2	< 0.5	< 0.2	12	0.6	186	11	27.2	6.3	267	2	6.8	14	19.8	16.5	0.04	0.08	
1127816	558	97	22	69	4	< 2	< 0.5	< 0.2	2	2.5	674	111	0.5	2.0	1.5	1	5.5	37	0.6	32.6	0.08	0.18	
1127817	1140	28	3	66	109	< 2	< 0.5	< 0.2	15	0.5	183	17	17.9	8.0	222	3	7.1	10	25.3	10.3	0.04	0.08	
1127818	779	18	< 2	23	99	< 2	< 0.5	< 0.2	10	< 0.5	161	6	0.6	2.7	217	2	5.1	6	12.3	7.3	0.05	0.11	
1127819	2700	45	< 2	13	111	< 2	< 0.5	< 0.2	38	< 0.5	419	15	2.5	1.9	194	4	19.2	12	14.0	6.9	0.09	0.20	2.65
1127820	2160	23	13	69	68	6	1.5	0.3	17	18.7	64.8	90	38.9	5.5	11.6	108	14.5	405	25.3	45.2	0.28	0.60	
1127821	346	25	< 2	24	79	< 2	< 0.5	< 0.2	6	< 0.5	92.4	7	0.7	3.3	309	2	3.1	10	9.4	6.0	0.01	0.02	
1127822	199	150	21	66	4	< 2	< 0.5	< 0.2	1	0.6	151	35	0.5	1.9	1.0	< 1	2.2	< 5	0.6	0.2	0.04	0.09	
1127823	195	138	19	69	3	< 2	< 0.5	< 0.2	< 1	< 0.5	210	276	< 0.4	1.8	0.3	< 1	1.9	< 5	0.5	0.1	0.04	0.09	
1127824	310	78	5	26	17	< 2	< 0.5	< 0.2	3	1.1	316	56	0.6	1.9	118	< 1	2.8	6	2.1	3.2	0.02	0.05	
1127825	78	127	19	65	3	< 2	< 0.5	< 0.2	1	< 0.5	87.3	129	< 0.4	1.7	0.5	< 1	0.7	< 5	0.4	0.1	0.03	0.06	
1127826	2030	115	14	46	4	< 2	< 0.5	< 0.2	12	< 0.5	601	517	1.5	1.2	1.4	1	17.3	6	0.3	0.3	0.30	0.65	
1127827	422	23	< 2	20	33	< 2	< 0.5	< 0.2	20	1.0	82.8	63	4.5	2.5	96.2	< 1	4.0	21	11.3	6.5	1.27	2.74	
1127828	189	18	< 2	19	109	< 2	< 0.5	< 0.2	17	1.2	46.6	43	5.1	2.7	337	2	1.7	32	21.3	15.6	1.06	2.28	
1127829	3300	64	< 2	14	43	< 2	< 0.5	< 0.2	11	0.7	648	96	1.0	1.3	159	< 1	29.0	16	3.5	5.7	0.34	0.74	2.67
1127830	2	8	< 2	23	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	158	< 0.4	0.4	0.2	< 1	1.2	< 5	0.4	0.2	< 0.01	< 0.01	
1127831	2650	42	< 2	11	36	< 2	< 0.5	< 0.2	8	0.6	509	37	1.3	1.1	115	< 1	24.3	12	3.6	4.7	0.69	1.49	
1127832	2100	36	< 2	15	66	< 2	< 0.5	< 0.2	9	0.5	306	41	< 0.4	1.9	202	< 1	20.3	13	11.7	7.9	0.68	1.45	
1127833	3600	56	< 2	33	107	< 2	< 0.5	< 0.2	13	< 0.5	491	50	< 0.4	4.8	191	2	35.6	17	7.6	5.7	1.11	2.38	
1127834	1640	38	< 2	16	59	< 2	< 0.5	< 0.2	19	< 0.5	209	123	0.5	1.7	143	< 1	15.5	9	4.6	3.1	0.66	1.42	
1127835	139	112	19	65	4	< 2	< 0.5	< 0.2	1	< 0.5	42.1	223	3.0	1.7	1.6	3	1.6	12	0.4	1.7	0.05	0.11	
1127836	116	129	21	66	3	< 2	< 0.5	< 0.2	1	0.7	36.3	250	3.1	1.7	0.4	3	0.8	13	0.4	1.9	0.05	0.11	
1127837	137	126	13	36	2	< 2	< 0.5	< 0.2	< 1	< 0.5	22.0	222	1.0	0.9	0.4	< 1	0.9	8	0.2	0.6	0.04	0.08	
1127838	151	120	13	39	2	< 2	< 0.5	< 0.2	< 1	< 0.5	18.3	240	1.2	1.1	0.2	< 1	0.8	11	0.2	0.3	0.03	0.06	
1127839	135	135	14	39	3	< 2	< 0.5	< 0.2	2	< 0.5	36.5	114	1.9	1.1	0.5	< 1	1.1	11	0.2	0.3	0.12	0.25	3.04
1127840	2250	23	13	73	73	6	1.8	0.3	14	19.2	64.6	87	55.2	6.0	11.0	120	14.4	481	27.4	47.5	0.28	0.60	
1127841	3370	49	< 2	9	37	< 2	< 0.5	< 0.2	8	0.9	447	25	1.6	1.1	117	1	31.8	13	3.7	5.5	0.17	0.37	
1127842	2920	45	< 2	12	54	< 2	< 0.5	< 0.2	11	< 0.5	336	34	0.6	1.3	88.3	< 1	28.1	12	3.4	2.1	0.56	1.21	
1127843	3020	48	< 2	20	92	< 2	< 0.5	< 0.2	10	0.6	489	49	0.5	2.3	175	1	29.6	14	6.1	5.2	0.37	0.80	
1127844	2290	35	< 2	10	16	< 2	< 0.5	< 0.2	57	< 0.5	302	46	< 0.4	1.0	31.4	< 1	22.0	8	1.9	1.2	1.24	2.67	
1127845	1440	30	< 2	14	17	< 2	< 0.5	< 0.2	31	0.6	243	88	< 0.4	1.5	38.0	< 1	14.9	7	4.0	2.8	1.16	2.49	
1127846	2130	40	< 2	13	25	< 2	< 0.5	< 0.2	7	0.5	463	76	0.6	1.2	59.8	< 1	19.9	11	2.9	3.3	0.36	0.78	
1127847	4550	71	< 2	14	49	< 2	< 0.5	< 0.2	16	0.7	612	128	0.6	1.4	120	< 1	43.3	19	3.5	5.6	0.52	1.13	
1127848	821	23	< 2	20	20	< 2	< 0.5	< 0.2	12	0.8	164	64	0.5	2.0	39.0	< 1	8.5	10	4.9	4.4	0.95	2.05	
1127849	2880	58	3	34	36	< 2	< 0.5	< 0.2	11	0.8	1450	76	1.0	2.5	106	2	26.5	16	7.6	5.3	0.24	0.52	2.67
1127850	3	7	< 2	23	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	0.9	145	< 0.4	0.5	0.1	< 1	1.1	< 5	0.5	0.2	< 0.01	< 0.01	
1127851	811	113	9	143	9	< 2	< 0.5	< 0.2	3	< 0.5	477	371	0.9	3.2	4.2	1	7.4	< 5	3.4	1.7	0.09	0.20	

Results

Activation Laboratories Ltd.

Report: A16-13265

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127852	1530	68	< 2	40	64	< 2	< 0.5	< 0.2	12	2.4	228	129	1.7	4.3	598	4	12.2	17	4.5	7.6	0.03	0.06	
1127853	157	104	7	131	7	< 2	< 0.5	< 0.2	1	< 0.5	76.9	445	0.5	2.9	1.2	< 1	1.4	21	2.9	0.9	0.05	0.11	
1127854	3160	56	< 2	9	27	< 2	< 0.5	< 0.2	5	0.6	530	76	5.6	0.6	134	< 1	31.6	12	1.6	3.8	0.41	0.88	
1127855	2950	52	< 2	15	41	< 2	< 0.5	< 0.2	12	1.1	602	84	3.6	1.8	117	2	29.5	12	4.1	4.5	0.47	1.02	
1127856	2850	50	< 2	15	38	< 2	< 0.5	< 0.2	10	1.1	604	96	1.3	1.8	106	1	27.4	11	4.2	4.4	0.46	0.99	
1127857	2510	46	< 2	11	36	< 2	< 0.5	< 0.2	11	0.9	441	67	1.4	1.2	96.3	1	24.0	11	4.0	4.7	0.39	0.83	
1127858	3840	67	< 2	14	59	< 2	< 0.5	< 0.2	5	0.9	490	164	1.0	1.4	115	< 1	38.9	17	4.3	3.7	0.22	0.47	
1127859	2240	46	< 2	15	46	< 2	< 0.5	< 0.2	5	0.9	433	59	1.5	1.4	119	< 1	22.4	14	6.6	7.4	0.64	1.38	2.68
1127860	2280	24	14	78	71	6	1.7	0.3	14	18.8	66.5	91	51.6	6.1	11.2	120	16.1	472	28.1	49.5	0.30	0.64	
1127861	3840	67	< 2	9	21	< 2	< 0.5	< 0.2	12	0.6	574	104	1.1	0.7	33.7	< 1	37.9	11	3.1	1.3	0.18	0.39	
1127862	2800	52	< 2	14	42	< 2	< 0.5	< 0.2	8	0.9	438	62	1.2	1.5	106	< 1	28.4	12	7.7	6.8	0.74	1.60	
1127863	1930	41	< 2	16	42	< 2	< 0.5	< 0.2	8	0.7	300	59	0.6	1.8	145	< 1	20.6	12	6.8	5.1	0.92	1.98	
1127864	1520	38	< 2	12	43	< 2	< 0.5	< 0.2	3	< 0.5	121	55	< 0.4	1.3	122	< 1	16.0	7	3.2	2.5	0.01	0.02	
1127865	1590	41	< 2	12	45	< 2	< 0.5	< 0.2	3	2.1	83.4	221	1.1	1.5	201	2	12.8	14	4.2	4.1	< 0.01	0.01	
1127866	194	133	13	40	2	< 2	< 0.5	< 0.2	< 1	< 0.5	55.1	1249	0.5	1.0	0.4	< 1	2.2	5	0.2	0.5	0.05	0.11	
1127867	332	138	20	67	3	15	< 0.5	< 0.2	1	0.6	361	88	< 0.4	1.8	0.6	< 1	3.9	5	0.5	0.4	0.15	0.33	
1127868	2350	49	< 2	13	50	< 2	< 0.5	< 0.2	14	< 0.5	315	80	1.1	1.6	197	< 1	21.9	9	4.4	5.1	0.15	0.33	
1127869	6470	101	13	48	30	< 2	< 0.5	< 0.2	23	0.9	8760	180	2.5	1.7	87.3	2	64.7	5	2.7	5.1	0.20	0.42	2.98
1127870	11	10	< 2	23	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	5.1	158	< 0.4	0.6	0.5	1	1.9	< 5	0.4	0.2	< 0.01	< 0.01	
1127871	1560	86	4	27	29	< 2	< 0.5	< 0.2	19	1.2	531	99	12.6	3.8	504	< 1	13.3	15	5.4	10.4	0.04	0.08	
1127872	149	147	19	63	4	< 2	< 0.5	< 0.2	2	1.0	118	80	0.7	1.7	1.5	19	2.4	6	0.5	0.2	0.08	0.16	
1127873	32	180	19	62	3	< 2	< 0.5	< 0.2	< 1	0.9	4.4	43	0.5	1.6	0.3	< 1	0.5	7	0.4	0.8	0.02	0.03	
1127874	136	126	17	31	19	< 2	< 0.5	< 0.2	3	0.8	11.6	207	1.0	0.8	33.0	< 1	0.7	< 5	0.4	1.4	0.01	0.03	
1127875	19	219	21	69	3	< 2	< 0.5	< 0.2	< 1	0.6	2.7	35	0.6	1.8	0.3	< 1	0.1	10	0.4	0.2	0.01	0.02	
1127876	22	219	20	65	3	< 2	< 0.5	< 0.2	< 1	0.7	2.6	40	0.6	1.7	0.2	< 1	0.1	9	0.4	0.3	0.01	0.03	
1127877	31	104	16	47	2	< 2	< 0.5	< 0.2	< 1	0.9	14.6	43	< 0.4	1.3	0.2	< 1	0.4	< 5	0.3	< 0.1	0.05	0.10	
1127878	8010	96	< 2	7	7	< 2	< 0.5	< 0.2	6	1.3	621	21	35.1	0.3	31.8	< 1	88.7	35	1.0	0.8	0.10	0.22	
1127879	7280	89	< 2	5	34	< 2	< 0.5	< 0.2	49	0.8	605	15	12.8	0.2	81.2	3	72.0	12	2.0	0.8	0.44	0.94	2.68
1127880	2190	24	13	75	68	6	1.6	0.3	14	18.0	64.4	90	44.4	5.9	11.1	113	17.3	459	26.5	47.3	0.28	0.60	
1127881	5860	71	< 2	6	3	< 2	< 0.5	< 0.2	9	0.8	545	17	14.1	< 0.2	21.3	< 1	65.5	22	1.9	1.8	0.72	1.56	
1127882	7250	86	< 2	11	6	< 2	< 0.5	< 0.2	12	0.7	523	17	9.4	< 0.2	34.0	< 1	80.9	17	0.5	1.3	0.12	0.27	
1127883	887	21	< 2	51	148	< 2	< 0.5	< 0.2	17	1.3	158	17	2.8	5.5	627	2	9.0	12	12.3	12.2	1.07	2.31	
1127884	373	14	< 2	43	195	< 2	< 0.5	< 0.2	10	< 0.5	170	6	0.5	4.8	289	2	3.3	13	14.2	16.7	1.08	2.32	
1127885	763	19	< 2	28	97	< 2	< 0.5	< 0.2	13	< 0.5	162	5	3.9	3.1	212	2	5.4	10	9.2	17.7	0.54	1.16	
1127886	409	16	< 2	15	67	< 2	< 0.5	< 0.2	7	< 0.5	78.1	5	1.2	1.5	126	< 1	3.2	12	7.8	8.4	0.11	0.24	
1127887	1170	33	< 2	11	68	< 2	< 0.5	< 0.2	17	2.2	374	8	1.1	0.9	172	1	8.3	232	4.1	10.9	0.27	0.57	
1127888	363	104	12	35	4	< 2	< 0.5	< 0.2	5	1.4	324	39	1.9	1.0	3.6	39	4.3	27	0.5	0.7	0.12	0.26	
1127889	361	90	12	40	3	4	< 0.5	< 0.2	3	1.2	179	33	2.2	1.0	0.5	61	3.7	10	0.3	0.7	0.06	0.13	3.15
1127890	8	9	< 2	23	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.1	167	< 0.4	0.5	0.3	< 1	0.3	< 5	0.5	0.2	< 0.01	< 0.01	
1127891	1350	31	< 2	21	82	< 2	< 0.5	< 0.2	17	< 0.5	148	20	8.4	2.2	194	1	10.6	14	8.6	5.9	0.03	0.06	
1127892	511	105	14	44	3	< 2	< 0.5	< 0.2	1	0.9	268	59	0.4	1.2	7.4	< 1	5.6	< 5	0.4	0.8	0.07	0.14	

Results

Activation Laboratories Ltd.

Report: A16-13265

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127893	193	90	15	43	2	< 2	< 0.5	< 0.2	2	0.5	72.1	78	0.9	1.1	2.2	< 1	2.2	< 5	0.3	< 0.1	0.05	0.11	
1127894	6220	82	< 2	33	33	< 2	< 0.5	< 0.2	17	< 0.5	565	55	0.5	1.4	141	< 1	65.4	11	2.7	2.3	0.08	0.17	
1127895	3900	53	< 2	13	55	< 2	< 0.5	< 0.2	18	< 0.5	430	29	1.2	1.3	114	< 1	42.3	9	5.5	3.5	0.53	1.15	
1127896	4360	57	< 2	18	63	< 2	< 0.5	< 0.2	10	< 0.5	415	28	1.2	2.1	148	< 1	48.1	10	5.0	3.8	0.36	0.78	
1127897	2470	37	< 2	9	54	< 2	< 0.5	< 0.2	22	< 0.5	351	37	2.1	0.8	127	1	24.2	< 5	2.6	4.3	0.35	0.76	
1127898	4120	54	< 2	7	35	< 2	< 0.5	< 0.2	20	< 0.5	396	21	1.4	0.5	70.0	2	41.4	7	1.8	3.9	0.07	0.16	
1127899	2720	45	< 2	22	73	< 2	< 0.5	< 0.2	28	< 0.5	347	40	1.5	2.1	144	1	26.3	6	5.4	5.3	0.14	0.30	2.63
1127900	2210	23	14	85	76	6	1.6	0.3	14	17.6	65.3	90	47.9	6.7	11.3	116	15.9	458	26.8	48.6	0.28	0.61	
1127901	446	102	17	50	3	< 2	< 0.5	< 0.2	4	0.7	126	49	1.8	1.3	1.4	22	5.9	< 5	0.4	0.2	0.21	0.45	
1127902	882	27	< 2	12	71	< 2	< 0.5	< 0.2	11	< 0.5	164	18	0.4	1.3	148	< 1	7.8	15	9.9	12.9	0.49	1.06	
1127903	544	15	< 2	16	53	< 2	< 0.5	< 0.2	7	< 0.5	161	6	2.1	1.9	145	< 1	4.2	< 5	7.1	6.3	0.26	0.56	
1127904	2340	35	< 2	10	37	< 2	< 0.5	< 0.2	13	< 0.5	359	13	2.0	1.0	135	< 1	23.5	< 5	2.4	4.4	0.20	0.44	
1127905	1820	32	< 2	16	88	< 2	< 0.5	< 0.2	20	< 0.5	451	21	1.4	2.0	226	1	15.9	< 5	7.5	3.2	0.69	1.49	
1127906	4270	60	< 2	26	98	< 2	< 0.5	< 0.2	29	< 0.5	658	16	4.2	3.2	528	3	41.2	6	11.1	9.6	0.11	0.25	
1127907	748	26	< 2	13	32	< 2	< 0.5	< 0.2	10	< 0.5	143	25	6.9	1.6	195	1	5.2	7	3.4	4.2	0.02	0.05	
1127908	240	82	13	39	4	< 2	< 0.5	< 0.2	3	0.7	255	57	1.1	1.0	2.1	1	2.5	9	0.3	1.6	0.11	0.23	
1127909	180	115	22	73	3	< 2	< 0.5	< 0.2	3	0.9	116	87	< 0.4	2.0	0.7	1	1.2	5	0.5	0.4	0.10	0.23	3.01
1127910	9	8	< 2	26	< 1	< 2	< 0.5	< 0.2	1	< 0.5	1.4	155	< 0.4	0.4	0.3	< 1	0.1	< 5	0.5	0.2	< 0.01	< 0.01	
1127911	3860	64	< 2	11	46	< 2	< 0.5	< 0.2	82	< 0.5	475	61	0.9	0.8	86.9	4	23.7	6	3.4	5.2	0.05	0.11	
1127912	1950	50	< 2	13	30	< 2	< 0.5	< 0.2	35	< 0.5	910	25	2.3	2.2	103	1	13.1	5	4.1	2.5	0.04	0.09	
1127913	2510	70	3	12	46	< 2	< 0.5	< 0.2	45	< 0.5	973	56	2.7	1.2	245	4	16.4	20	4.9	22.4	0.08	0.17	
1127914	3570	157	19	61	7	5	< 0.5	< 0.2	7	1.0	7140	34	1.5	1.8	30.2	2	30.9	6	1.5	3.9	0.21	0.45	
1127915	992	116	21	67	3	< 2	< 0.5	< 0.2	4	0.9	449	119	0.8	1.8	1.4	3	9.9	< 5	0.5	2.5	0.09	0.19	
1127916	6820	86	< 2	8	18	< 2	< 0.5	< 0.2	16	< 0.5	586	27	4.1	0.9	67.7	1	72.2	14	1.6	9.6	0.02	0.04	
1127917	7550	99	< 2	9	18	< 2	< 0.5	< 0.2	12	< 0.5	615	29	6.5	1.3	64.8	< 1	80.6	15	0.9	7.9	0.02	0.03	
1127918	11800	139	< 2	4	6	< 2	< 0.5	< 0.2	7	< 0.5	880	39	4.6	0.4	40.6	< 1	125	16	0.5	2.9	< 0.01	0.02	
1127919	10300	125	< 2	< 4	3	< 2	< 0.5	< 0.2	11	< 0.5	837	38	5.3	< 0.2	25.1	< 1	115	14	0.2	0.7	0.10	0.21	2.58
1127920	2270	25	14	77	62	6	1.5	0.3	13	16.4	65.9	90	44.3	5.9	11.3	113	17.7	459	27.2	50.0	0.29	0.62	
1127921	4510	61	< 2	9	52	< 2	< 0.5	< 0.2	39	< 0.5	508	25	3.7	0.8	105	3	42.0	8	7.9	2.0	0.10	0.22	
1127922	4410	57	< 2	9	99	< 2	< 0.5	< 0.2	30	< 0.5	461	15	1.7	0.8	352	4	40.5	8	11.7	6.4	0.07	0.15	
1127923	2360	41	< 2	9	63	< 2	< 0.5	< 0.2	17	< 0.5	281	13	0.5	0.8	121	2	23.4	6	4.5	2.3	0.04	0.08	
1127924	5420	75	< 2	8	34	< 2	< 0.5	< 0.2	10	< 0.5	537	33	0.8	0.5	133	1	60.1	9	2.8	1.7	0.02	0.05	
1127925	7810	94	< 2	12	43	< 2	< 0.5	< 0.2	21	< 0.5	648	50	1.0	2.2	897	2	81.2	12	1.7	1.8	0.04	0.09	
1127926	4100	72	< 2	69	115	< 2	< 0.5	< 0.2	44	< 0.5	757	329	3.9	40.3	2760	3	39.7	8	7.1	7.8	0.43	0.92	
1127927	1950	43	< 2	24	20	< 2	< 0.5	< 0.2	39	< 0.5	540	309	4.1	6.0	248	2	14.1	< 5	2.0	2.8	1.29	2.78	
1127928	2720	44	< 2	16	53	< 2	< 0.5	< 0.2	55	< 0.5	558	100	7.3	2.6	277	2	22.1	6	7.9	9.9	0.99	2.13	
1127929	4570	59	< 2	7	9	< 2	< 0.5	< 0.2	12	< 0.5	568	36	1.8	0.6	44.8	1	49.2	8	1.1	1.4	0.46	1.00	2.65
1127930	7	9	< 2	27	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.2	160	< 0.4	1.4	0.7	< 1	1.7	< 5	0.5	0.2	< 0.01	< 0.01	
1127931	833	21	2	18	44	< 2	< 0.5	< 0.2	8	< 0.5	88.2	14	0.8	2.4	228	1	7.5	< 5	4.1	2.7	0.02	0.03	
1127932	185	103	18	63	5	< 2	< 0.5	< 0.2	3	0.5	45.4	206	0.5	1.8	13.1	2	1.8	< 5	0.6	1.1	0.06	0.13	
1127933	251	150	19	61	3	< 2	< 0.5	< 0.2	1	< 0.5	113	89	< 0.4	1.7	1.0	< 1	2.9	< 5	0.4	0.2	0.10	0.21	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127934	2430	41	< 2	12	53	< 2	< 0.5	< 0.2	11	1.7	197	23	< 0.4	1.6	669	1	30.2	7	5.9	3.3	< 0.01	0.02	
1127935	138	125	18	59	3	< 2	< 0.5	< 0.2	1	0.6	36.4	134	< 0.4	1.5	1.3	< 1	2.4	< 5	0.4	0.1	0.04	0.08	
1127936	150	122	18	55	3	< 2	< 0.5	< 0.2	1	0.7	35.6	145	< 0.4	1.4	2.8	1	1.5	< 5	1.1	0.2	0.04	0.08	
1127937	2310	112	12	35	9	< 2	< 0.5	< 0.2	16	1.2	2650	21	15.2	1.0	16.9	3	17.0	15	0.6	0.8	0.21	0.45	
1127938	451	10	< 2	5	8	< 2	< 0.5	< 0.2	3	< 0.5	2010	5	2.2	0.3	32.9	< 1	3.6	< 5	0.4	2.0	0.19	0.42	
1127939	6630	90	< 2	5	19	< 2	< 0.5	< 0.2	22	< 0.5	838	71	1.1	0.3	42.5	2	65.9	16	0.6	0.9	0.30	0.64	2.63
1127940	2280	24	14	83	70	6	1.3	0.3	14	15.7	65.8	90	49.8	6.7	11.5	121	16.9	476	29.9	52.8	0.28	0.60	
1127941	2780	41	< 2	10	39	< 2	< 0.5	< 0.2	26	0.7	470	30	0.6	1.0	109	3	25.0	8	4.9	2.8	0.84	1.81	
1127942	4200	58	< 2	7	48	< 2	< 0.5	< 0.2	46	< 0.5	508	66	0.6	0.5	39.7	3	35.4	8	0.9	1.2	0.74	1.59	
1127943	5120	70	< 2	6	44	< 2	< 0.5	< 0.2	38	< 0.5	510	80	0.6	0.5	32.7	4	49.1	15	3.3	1.2	0.10	0.21	
1127944	6340	81	< 2	5	70	< 2	< 0.5	< 0.2	66	< 0.5	569	70	1.0	0.4	49.2	4	54.8	9	1.3	1.5	0.18	0.39	
1127945	5160	66	< 2	11	51	< 2	< 0.5	< 0.2	32	< 0.5	568	67	4.3	1.0	86.8	2	47.4	11	4.3	2.5	0.34	0.74	
1127946	3620	50	< 2	43	53	< 2	< 0.5	< 0.2	35	< 0.5	472	56	0.5	1.8	76.2	3	33.4	10	4.9	5.6	0.50	1.08	
1127947	6230	78	< 2	7	31	< 2	< 0.5	< 0.2	29	< 0.5	579	97	0.6	0.5	32.2	3	58.9	11	1.9	2.3	0.24	0.52	
1127948	3600	54	< 2	6	40	< 2	< 0.5	< 0.2	37	< 0.5	397	52	1.2	< 0.2	53.9	4	31.5	6	0.5	1.1	0.30	0.66	
1127949	2880	43	< 2	4	52	< 2	< 0.5	< 0.2	54	0.6	319	25	0.8	0.3	38.1	3	23.7	< 5	1.8	1.3	0.33	0.72	2.67
1127950	8	7	< 2	22	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.0	152	0.5	0.5	0.2	< 1	1.3	< 5	0.6	0.2	< 0.01	< 0.01	
1127951	1850	23	< 2	7	40	< 2	< 0.5	< 0.2	36	< 0.5	351	12	1.0	0.6	247	2	13.2	< 5	2.7	2.6	1.37	2.94	
1127952	3970	51	< 2	8	43	< 2	< 0.5	< 0.2	32	0.5	479	25	< 0.4	0.8	105	2	37.1	7	1.2	2.9	0.80	1.72	
1127953	2070	29	< 2	6	21	< 2	< 0.5	< 0.2	26	< 0.5	327	16	0.9	0.4	32.5	< 1	20.6	6	1.6	1.6	1.55	3.35	
1127954	1040	23	< 2	18	84	< 2	< 0.5	< 0.2	12	< 0.5	349	15	0.4	1.8	130	2	8.6	6	9.2	6.5	0.31	0.66	
1127955	750	21	< 2	18	38	< 2	< 0.5	< 0.2	9	< 0.5	272	12	< 0.4	1.9	92.0	< 1	5.2	5	8.1	5.1	0.33	0.71	
1127956	55	71	15	39	1	< 2	< 0.5	< 0.2	1	1.0	63.0	29	2.5	1.1	0.3	< 1	1.0	12	< 0.1	0.2	0.03	0.07	
1127957	64	105	8	18	< 1	< 2	< 0.5	< 0.2	< 1	0.8	19.0	61	< 0.4	0.5	0.2	< 1	0.5	5	< 0.1	< 0.1	0.03	0.06	

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.22	1.87	0.73	0.010	0.35	42.85	0.85	0.54	0.120	30.20					1604								
NIST 694 Cert	11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2					1740								
NIST 694 Meas	11.47	1.94	0.75	0.010	0.35	42.71	0.90	0.55	0.120	30.21					1614								
NIST 694 Cert	11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2					1740								
DNC-1 Meas	47.53	18.89	9.97	0.150	10.22	11.45	1.91	0.22	0.490	0.06				31	154	280	58	250	100	70	15		
DNC-1 Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070				31	148	270	57	247	100	70	15		
DNC-1 Meas	46.69	18.42	9.89	0.150	10.08	11.42	1.93	0.22	0.490	0.07				31	152								
DNC-1 Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070				31	148								
GBW 07113 Meas	71.71	13.22	3.28	0.150	0.15	0.60	2.48	5.45	0.270	0.04				5	4	6							
GBW 07113 Cert	72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500				5.00	4.00	5.00							
GBW 07113 Meas	71.13	12.77	3.18	0.140	0.15	0.60	2.48	5.43	0.280	0.03				5	4	< 5							
GBW 07113 Cert	72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500				5.00	4.00	5.00							
LKSD-3 Meas																90	31	50	30	150			26
LKSD-3 Cert																87.0	30.0	47.0	35.0	152			27.0
TDB-1 Meas															473	240		80	340	160			
TDB-1 Cert															471	251		92	323	155			
W-2a Meas	52.92	15.26	10.53	0.160	6.43	11.05	2.21	0.61	1.070	0.14				35	< 1	274	100	43	70	110	80	18	1
W-2a Cert	52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130				36.0	1.30	262	92.0	43.0	70.0	110	80.0	17.0	1.00
W-2a Meas	52.30	15.50	10.54	0.170	6.37	11.01	2.23	0.62	1.060	0.14				35	< 1	267							
W-2a Cert	52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130				36.0	1.30	262							
SY-4 Meas	50.49	20.43	6.13	0.110	0.51	8.12	6.93	1.64	0.280	0.14				< 1	3	9							
SY-4 Cert	49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131				1.1	2.6	8.0							
SY-4 Meas	50.40	20.34	6.11	0.100	0.52	8.27	6.94	1.65	0.280	0.12				< 1	3	8							
SY-4 Cert	49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131				1.1	2.6	8.0							
CTA-AC-1 Meas																			60	40			
CTA-AC-1 Cert																			54.0	38.0			
BIR-1a Meas	47.78	15.74	11.44	0.170	9.61	13.47	1.82	0.02	0.980	0.03				43	< 1	332	380	53	180	130	80	16	
BIR-1a Cert	47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021				44	0.58	310	370	52	170	125	70	16	
BIR-1a Meas	48.03	15.79	11.36	0.170	9.48	13.51	1.83	0.01	0.960	0.02				44	< 1	325							
BIR-1a Cert	47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021				44	0.58	310							
NCS DC86312 Meas																							
NCS DC86312 Cert																							
ZW-C Meas																				1000	98		
ZW-C Cert																				1050.00	99		
NCS DC70009 (GBW07241) Meas																			990	100	17	11	63
NCS DC70009 (GBW07241) Cert																			960	100	16.5	11.2	69.9

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
OREAS 100a (Fusion) Meas																	17		180				
OREAS 100a (Fusion) Cert																	18.1		169				
OREAS 101a (Fusion) Meas																	48		440				
OREAS 101a (Fusion) Cert																	48.8		434				
OREAS 101b (Fusion) Meas																	45		420				
OREAS 101b (Fusion) Cert																	47		416				
JR-1 Meas																		< 20		30	17	2	17
JR-1 Cert																		1.67		30.6	16.1	1.88	16.3
NCS DC86303 Meas																							
NCS DC86303 Cert																							
NCS DC86303 Meas																							
NCS DC86303 Cert																							
NCS DC86303 Meas																							
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NCS DC86303 Meas																							
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NCS DC86304 Meas																							
NCS DC86304 Cert																							
NCS DC86304 Meas																							
NCS DC86304 Cert																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NCS DC86304 Meas																							
NCS DC86304 Cert																							
NCS DC86304 Meas																							
NCS DC86304 Cert																							
NCS DC86304 Meas																							
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NCS DC86314 Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
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Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
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Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
1127817 Orig																							
1127817 Dup																							
1127825 Orig	49.28	16.00	13.77	0.262	5.15	10.51	2.58	0.47	1.168	0.09	0.58	99.85	46	5	339	220	49	120	90	90	19	2	< 5
1127825 Dup	49.53	15.99	13.91	0.271	5.31	10.63	2.58	0.47	1.190	0.10	0.58	100.6	46	5	341	220	48	110	90	90	19	1	< 5
1127839 Orig																							
1127839 Dup																							
1127842 Orig	72.42	16.68	0.69	0.187	0.08	0.20	3.93	4.47	0.005	0.10	0.18	98.94	< 1	149	< 5	30	< 1	< 20	< 10	< 30	37	6	< 5
1127842 Dup	73.23	17.10	0.72	0.188	0.08	0.21	4.03	4.60	0.005	0.10	0.18	100.4	< 1	155	< 5	40	< 1	< 20	< 10	< 30	36	5	< 5
1127847 Orig																							
1127847 Dup																							
1127861 Orig																							
1127861 Dup																							
1127869 Orig																							
1127869 Dup																							
1127873 Orig	46.78	14.42	13.50	0.301	6.57	11.81	2.86	0.50	1.063	0.09	2.02	99.92	42	3	327	200	44	110	20	80	17	2	< 5
1127873 Dup	47.05	14.70	13.47	0.309	6.70	11.92	2.88	0.51	1.081	0.08	2.02	100.7	42	2	331	200	44	110	20	80	18	2	< 5
1127883 Orig																							
1127883 Dup																							
1127890 Orig	96.39	0.67	0.96	0.010	0.06	0.10	0.08	0.07	0.032	< 0.01	0.28	98.64	< 1	< 1	5	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127890 Dup	97.66	0.66	1.01	0.010	0.06	0.09	0.08	0.07	0.032	< 0.01	0.28	99.93	< 1	< 1	6	< 20	1	< 20	< 10	< 30	1	< 1	< 5
1127891 Orig																							
1127891 Dup																							
1127905 Orig																							
1127905 Dup																							
1127909 Orig																							
1127909 Dup																							
1127911 Orig	58.28	22.92	1.47	0.162	0.44	2.73	6.79	3.08	0.090	0.82	2.46	99.23	3	173	22	20	5	< 20	< 10	150	86	7	< 5
1127911 Split PREP DUP	58.68	23.38	1.40	0.152	0.40	2.60	6.97	3.00	0.080	0.79	2.36	99.83	2	142	19	30	10	< 20	< 10	150	85	6	6
1127913 Orig																							
1127913 Dup																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127921 Orig	72.12	16.39	0.50	0.093	0.16	0.40	4.82	3.95	0.018	0.28	0.80	99.52	< 1	134	< 5	20	8	< 20	50	90	47	6	< 5
1127921 Dup	72.28	16.51	0.49	0.089	0.16	0.40	4.81	3.92	0.018	0.28	0.80	99.75	< 1	131	< 5	< 20	7	< 20	50	90	47	6	< 5
1127927 Orig																							
1127927 Dup																							
1127935 Orig																							
1127935 Dup																							
1127938 Orig	73.26	13.74	0.49	0.014	0.09	0.38	2.14	0.11	0.008	0.15	1.46	91.84	< 1	26110	5	60	1	< 20	< 10	260	19	3	< 5
1127938 Dup	74.19	13.82	0.49	0.014	0.09	0.38	2.15	0.11	0.008	0.15	1.46	92.87	< 1	25380	6	60	< 1	< 20	< 10	280	19	3	< 5
1127949 Orig																							
1127949 Dup																							
Method Blank																< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
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Method Blank																							

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
NIST 694 Meas																							
NIST 694 Cert																							
NIST 694 Meas																							
NIST 694 Cert																							
DNC-1 Meas		147	15	37						0.9		106						7					
DNC-1 Cert		144.0	18.0	38						0.96		118						6.3					
DNC-1 Meas		147	15	38								108											
DNC-1 Cert		144.0	18.0	38								118											
GBW 07113 Meas		41	45	387								500											
GBW 07113 Cert		43.0	43.0	403								506											
GBW 07113 Meas		41	45	384								499											
GBW 07113 Cert		43.0	43.0	403								506											
LKSD-3 Meas	75					< 2	2.0		2		2.4			4.5	0.7	< 1			10.7	4.6			
LKSD-3 Cert	78.0					2.00	2.70		3.00		2.30			4.80	0.700	2.00			11.4	4.60			
TDB-1 Meas	21		31	163																			
TDB-1 Cert	23		36	156																			
W-2a Meas	20	196	18	89	7	< 2					0.9	174	< 0.4	2.3	0.5	< 1	< 0.1		2.3	0.5			
W-2a Cert	21.0	190	24.0	94.0	7.90	0.600					0.990	182	0.0300	2.60	0.500	0.300	0.200		2.40	0.530			
W-2a Meas		200	18	93								175											
W-2a Cert		190	24.0	94.0								182											
SY-4 Meas		1210	115	538								344											
SY-4 Cert		1191	119	517								340											
SY-4 Meas		1199	116	534								347											
SY-4 Cert		1191	119	517								340											
CTA-AC-1 Meas															2.5				23.3	4.2			
CTA-AC-1 Cert															2.65				21.8	4.4			
BIR-1a Meas		109	13	16								7		0.6									
BIR-1a Cert		110	16	18								6		0.60									
BIR-1a Meas		109	13	17								8											
BIR-1a Cert		110	16	18								6											
NCS DC86312 Meas																				24.6			
NCS DC86312 Cert																				23.6			
ZW-C Meas	8760				192				1280		266				79.7	326	33.7						
ZW-C Cert	8500				198				1300.00		260				82	320	34						
NCS DC70009 (GBW07241) Meas	502						1.6	1.0	1660	3.4	42.0					2040	2.0		28.8				
NCS DC70009 (GBW07241) Cert	500						1.8	1.3	1701	3.1	41					2200	1.8		28.3				

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
OREAS 100a (Fusion) Meas						25														53.0	143		
OREAS 100a (Fusion) Cert						24.1														51.6	135		
OREAS 101a (Fusion) Meas						21														35.4	424		
OREAS 101a (Fusion) Cert						21.9														36.6	422		
OREAS 101b (Fusion) Meas						20														37.3	400		
OREAS 101b (Fusion) Cert						20.9														37.1	396		
JR-1 Meas	253				14	3		< 0.2	3		20.8		0.6	4.1	1.8	2	1.5	19	25.9	9.2			
JR-1 Cert	257				15.2	3.25		0.028	2.86		20.8		0.56	4.51	1.86	1.59	1.56	19.3	26.7	8.88			
NCS DC86303 Meas																						0.21	0.46
NCS DC86303 Cert																						0.21	0.460
NCS DC86303 Meas																						0.22	0.47
NCS DC86303 Cert																						0.21	0.460
NCS DC86303 Meas																						0.23	0.49
NCS DC86303 Cert																						0.21	0.460
NCS DC86303 Meas																						0.21	0.46
NCS DC86303 Cert																						0.21	0.460
NCS DC86303 Meas																						0.22	0.47
NCS DC86303 Cert																						0.21	0.460
NCS DC86303 Meas																						0.22	0.47
NCS DC86303 Cert																						0.21	0.460
NCS DC86304 Meas																						1.07	2.30
NCS DC86304 Cert																						1.06	2.29
NCS DC86304 Meas																						1.05	2.27
NCS DC86304 Cert																						1.06	2.29

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav		
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-		
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01		
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV		
NCS DC86304 Meas																						1.09	2.34		
NCS DC86304 Cert																							1.06	2.29	
NCS DC86304 Meas																							1.06	2.28	
NCS DC86304 Cert																							1.06	2.29	
NCS DC86304 Meas																							1.08	2.32	
NCS DC86304 Cert																							1.06	2.29	
NCS DC86304 Meas																							1.05	2.27	
NCS DC86304 Cert																							1.06	2.29	
NCS DC86314 Meas																							1.75	3.77	
NCS DC86314 Cert																							1.81	3.89	
NCS DC86314 Meas																							1.75	3.77	
NCS DC86314 Cert																							1.81	3.89	
NCS DC86314 Meas																							1.80	3.88	
NCS DC86314 Cert																							1.81	3.89	
NCS DC86314 Meas																							1.76	3.79	
NCS DC86314 Cert																							1.81	3.89	
NCS DC86314 Meas																							1.86	4.00	
NCS DC86314 Cert																							1.81	3.89	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.23		
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8		
Lithium Tetraborate FX-LT																							8.11		

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.97	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.93	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.03	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.10	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.17	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.17	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.82	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.97	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.55	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.86	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.23	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.36	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
Lithium Tetraborate FX-LT 100 lot#220610B Cert																					8		
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.34	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
1127817 Orig																						0.04	0.08
1127817 Dup																						0.04	0.08
1127825 Orig	77	127	19	64	3	< 2	< 0.5	< 0.2	1	< 0.5	87.8	128	< 0.4	1.7	0.5	< 1	0.8	< 5	0.4	0.1	0.03	0.06	
1127825 Dup	78	126	20	65	3	< 2	< 0.5	< 0.2	1	< 0.5	86.8	130	< 0.4	1.7	0.5	< 1	0.6	< 5	0.4	0.1	0.03	0.06	
1127839 Orig																						0.12	0.25
1127839 Dup																						0.12	0.25
1127842 Orig	2910	44	< 2	12	59	< 2	< 0.5	< 0.2	11	< 0.5	340	34	0.7	1.3	97.2	< 1	28.3	12	3.3	2.2			
1127842 Dup	2920	46	< 2	12	48	< 2	< 0.5	< 0.2	11	< 0.5	333	35	0.6	1.2	79.5	< 1	27.9	11	3.5	2.0			
1127847 Orig																						0.53	1.13
1127847 Dup																						0.52	1.12
1127861 Orig																						0.18	0.39
1127861 Dup																						0.19	0.40
1127869 Orig																						0.20	0.43
1127869 Dup																						0.20	0.42
1127873 Orig	31	182	19	62	3	< 2	< 0.5	< 0.2	< 1	0.9	4.3	43	0.5	1.6	0.2	< 1	0.6	7	0.4	0.7			
1127873 Dup	32	179	19	63	3	< 2	< 0.5	< 0.2	< 1	0.9	4.4	43	0.5	1.6	0.3	2	0.3	6	0.4	0.8			
1127883 Orig																						1.08	2.31
1127883 Dup																						1.07	2.30
1127890 Orig	8	9	< 2	22	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.1	167	< 0.4	0.5	0.3	< 1	0.4	< 5	0.5	0.2			
1127890 Dup	8	9	< 2	23	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.1	167	< 0.4	0.5	0.3	< 1	0.2	< 5	0.5	0.2			
1127891 Orig																						0.03	0.06
1127891 Dup																						0.03	0.06
1127905 Orig																						0.70	1.51
1127905 Dup																						0.68	1.47
1127909 Orig																							3.01
1127909 Dup																							3.01
1127911 Orig	3860	64	< 2	11	46	< 2	< 0.5	< 0.2	82	< 0.5	475	61	0.9	0.8	86.9	4	23.7	6	3.4	5.2	0.05	0.11	
1127911 Split PREP DUP	3860	62	< 2	12	41	< 2	< 0.5	< 0.2	80	< 0.5	475	62	1.1	1.2	87.0	3	24.2	6	3.5	6.0	0.05	0.11	
1127913 Orig																						0.08	0.17
1127913 Dup																						0.08	0.17

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127921 Orig	4480	62	< 2	9	50	< 2	< 0.5	< 0.2	38	0.5	513	25	4.0	0.7	105	3	42.9	8	7.6	1.9			
1127921 Dup	4550	60	< 2	9	53	< 2	< 0.5	< 0.2	40	< 0.5	503	25	3.4	0.8	105	2	41.0	7	8.2	2.1			
1127927 Orig																					1.28	2.76	
1127927 Dup																					1.30	2.79	
1127935 Orig																					0.03	0.08	
1127935 Dup																					0.04	0.08	
1127938 Orig	443	10	< 2	6	7	< 2	< 0.5	< 0.2	3	< 0.5	1990	5	2.0	0.3	31.3	< 1	3.8	< 5	0.3	2.0			
1127938 Dup	458	10	< 2	5	8	< 2	< 0.5	< 0.2	3	< 0.5	2040	5	2.4	0.3	34.5	< 1	3.4	5	0.4	2.1			
1127949 Orig																					0.34	0.72	
1127949 Dup																					0.33	0.71	
Method Blank	< 2				< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5		< 0.4	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1			
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																							< 0.01
Method Blank																							< 0.01



Date Submitted: 22-Nov-16
Invoice No.: A16-12592
Invoice Date: 28-Dec-16
Your Reference: Seymour Lake

Ardiden Ltd.
Suite 6, 295 Rokeby Rd
Subiaco WA 6008
Australia

ATTN: Brad Boyle (inv/res)

CERTIFICATE OF ANALYSIS

112 Core samples were submitted for analysis.

The following analytical package(s) were requested:

- Code 4Litho-Pegmatite Special Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
- Code 8-Li (Sodium Peroxide Fusion) Sodium Peroxide Fusion
- Code Specific Gravity-Pycnometer (Nitrogen) Pulp by Nitrogen Pycnometer

REPORT **A16-12592**

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:

Total includes all elements in % oxide to the left of total.

CERTIFIED BY:

Emmanuel Esemé , Ph.D.
Quality Control

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
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-12592

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127699	53.69	15.84	10.10	0.247	4.35	11.44	1.20	1.10	0.671	0.19	1.57	100.4	38	88	227	240	41	120	40	130	26	5	< 5
1127700	74.25	13.68	0.72	0.609	0.04	0.76	0.60	6.33	0.053	< 0.01	2.20	99.23	12	5	< 5	120	< 1	< 20	160	560	28	7	42
1127701	72.99	16.99	1.17	0.116	0.31	0.89	3.69	1.98	0.045	0.28	0.87	99.33	2	61	16	30	2	< 20	< 10	70	49	6	< 5
1127702	76.18	15.95	0.64	0.084	0.09	0.28	3.65	2.36	0.010	0.13	0.77	100.2	< 1	229	< 5	40	< 1	< 20	< 10	50	48	6	< 5
1127703	73.00	16.71	0.47	0.058	0.09	0.28	3.88	5.27	0.005	0.17	0.56	100.5	< 1	191	< 5	< 20	< 1	< 20	< 10	< 30	37	6	< 5
1127704	77.89	16.08	1.06	0.148	0.16	0.26	1.12	1.73	0.018	0.14	0.96	99.58	< 1	207	< 5	40	< 1	< 20	< 10	90	64	6	< 5
1127705	80.00	13.16	0.83	0.115	0.11	0.27	1.46	3.05	0.018	0.14	0.84	99.99	< 1	68	< 5	30	< 1	< 20	10	110	47	5	< 5
1127706	77.64	16.80	0.87	0.131	0.11	0.28	1.81	1.13	0.011	0.17	0.76	99.70	< 1	406	< 5	40	< 1	< 20	< 10	60	57	6	< 5
1127707	71.88	16.39	0.30	0.066	0.05	0.37	6.44	2.90	0.004	0.17	0.44	99.00	< 1	121	< 5	< 20	< 1	< 20	< 10	< 30	37	6	< 5
1127708	47.73	16.36	11.25	0.192	7.61	11.67	2.13	0.77	0.734	0.04	1.50	99.97	42	8	247	310	53	220	120	200	16	3	< 5
1127709	48.60	15.95	11.28	0.186	7.05	12.56	2.09	0.64	0.736	0.03	1.21	100.3	41	14	252	290	48	180	100	90	16	4	< 5
1127710	96.91	0.96	0.67	0.007	0.04	0.06	0.05	0.06	0.032	< 0.01	0.48	99.24	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127711	72.04	16.83	0.32	0.197	0.09	0.54	7.69	0.73	0.005	0.18	0.38	99.01	< 1	210	< 5	< 20	< 1	< 20	< 10	50	40	8	< 5
1127712	48.26	15.60	11.33	0.186	6.99	13.39	2.06	0.60	0.741	0.03	1.53	100.7	41	9	254	300	45	150	120	80	15	3	< 5
1127713	47.86	15.60	11.70	0.188	7.59	13.02	1.85	0.46	0.715	0.03	1.42	100.4	41	2	250	270	42	130	110	70	14	2	< 5
1127714	71.11	15.81	0.89	0.153	0.45	0.99	8.36	0.45	0.036	0.25	0.52	99.03	2	138	13	30	2	< 20	< 10	< 30	42	7	< 5
1127715	48.43	15.23	11.72	0.137	8.51	10.37	2.46	1.01	0.733	0.03	1.35	99.98	40	1	252	320	48	160	100	100	15	2	< 5
1127716	48.46	14.70	11.98	0.140	8.82	10.41	2.45	1.09	0.710	0.04	1.38	100.2	40	1	259	300	47	150	110	80	15	2	< 5
1127717	48.67	15.13	11.90	0.209	6.90	12.20	1.76	0.88	0.814	0.03	1.72	100.2	44	9	269	310	49	140	70	110	15	2	< 5
1127718	70.08	17.98	0.81	0.083	0.15	0.51	7.50	1.44	0.017	0.24	0.87	99.68	< 1	412	< 5	< 20	< 1	< 20	< 10	90	55	7	< 5
1127719	74.89	15.19	1.06	0.075	0.14	0.30	6.16	0.75	0.005	0.15	0.40	99.12	< 1	119	< 5	< 20	< 1	< 20	< 10	40	37	6	< 5
1127720	74.19	13.69	0.70	0.607	0.04	0.77	0.60	6.35	0.053	< 0.01	2.05	99.03	12	5	6	120	< 1	< 20	150	530	28	6	46
1127721	76.55	15.10	1.21	0.081	0.08	0.22	3.70	1.46	0.006	0.09	0.53	99.03	< 1	140	< 5	30	< 1	< 20	< 10	< 30	43	6	< 5
1127722	76.75	15.34	0.56	0.090	0.09	0.35	3.98	1.06	0.009	0.18	0.70	99.11	< 1	450	< 5	< 20	< 1	< 20	< 10	50	49	6	< 5
1127723	77.59	14.62	0.82	0.107	0.13	0.35	1.52	2.70	0.007	0.16	0.66	98.67	< 1	339	< 5	20	< 1	< 20	< 10	40	46	6	< 5
1127724	76.46	16.02	0.77	0.095	0.10	0.16	0.97	3.48	0.007	0.09	0.55	98.69	< 1	125	< 5	20	< 1	< 20	< 10	60	50	6	< 5
1127725	78.43	14.77	0.60	0.097	0.10	0.22	1.47	2.66	0.007	0.13	0.58	99.07	< 1	200	< 5	30	< 1	< 20	< 10	50	46	6	< 5
1127726	79.32	15.78	0.76	0.103	0.09	0.21	1.43	1.63	0.007	0.09	0.47	99.90	< 1	278	< 5	30	< 1	< 20	< 10	40	53	6	< 5
1127727	77.49	15.87	0.67	0.090	0.09	0.16	1.61	2.07	0.007	0.06	0.58	98.70	< 1	187	< 5	20	< 1	< 20	< 10	40	52	6	< 5
1127728	77.24	15.36	0.61	0.085	0.12	0.14	2.33	2.48	0.007	0.09	0.63	99.10	< 1	93	< 5	< 20	< 1	< 20	< 10	50	45	6	< 5
1127729	72.85	17.89	0.35	0.171	0.06	0.45	6.99	0.82	0.007	0.22	0.60	100.4	< 1	115	< 5	< 20	< 1	< 20	< 10	40	49	7	< 5
1127730	98.08	0.52	0.69	0.009	0.03	0.04	0.03	0.03	0.027	< 0.01	0.29	99.74	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
1127731	72.98	17.61	0.57	0.132	0.13	0.44	5.22	0.98	0.008	0.17	0.76	99.01	< 1	45	< 5	20	< 1	< 20	< 10	50	53	7	< 5
1127732	49.29	14.63	11.07	0.204	6.12	14.84	0.91	0.39	0.776	0.06	2.46	100.8	41	11	254	300	42	110	110	80	17	3	< 5
1127733	49.19	16.63	12.01	0.289	5.09	11.02	1.00	1.28	1.212	0.08	2.78	100.6	46	2	346	190	42	110	90	80	22	2	< 5
1127734	64.66	20.39	1.23	0.160	0.35	1.79	6.96	2.91	0.037	0.82	1.50	100.8	1	49	8	< 20	2	< 20	< 10	110	68	6	< 5
1127735	67.80	23.05	0.62	0.182	0.12	0.39	4.52	1.47	0.012	0.13	0.75	99.04	< 1	112	< 5	20	< 1	< 20	< 10	40	66	7	< 5
1127736	67.50	23.69	0.55	0.172	0.09	0.33	4.03	1.68	0.009	0.10	0.71	98.86	< 1	261	< 5	20	< 1	< 20	< 10	40	69	8	< 5
1127737	72.03	18.22	0.65	0.133	0.19	0.37	5.29	1.41	0.013	0.09	0.93	99.32	< 1	135	< 5	< 20	< 1	< 20	< 10	60	56	7	< 5
1127738	72.51	16.98	0.71	0.099	0.19	0.32	4.47	2.39	0.019	0.10	1.15	98.94	< 1	289	< 5	< 20	< 1	< 20	< 10	90	58	6	< 5
1127739	58.20	26.02	1.68	0.118	0.29	0.69	5.86	4.48	0.069	0.30	2.26	99.97	2	56	15	< 20	2	< 20	20	180	98	5	< 5

Results

Activation Laboratories Ltd.

Report: A16-12592

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127740	73.96	13.79	0.73	0.598	0.05	0.76	0.60	6.41	0.053	< 0.01	2.15	99.09	12	5	8	120	< 1	< 20	170	560	29	6	51
1127741	47.39	15.18	13.88	0.327	5.91	12.77	0.90	0.91	0.803	0.06	1.72	99.84	44	8	284	270	48	130	70	90	16	3	< 5
1127742	65.65	12.91	8.09	0.192	2.87	2.83	1.64	1.98	0.502	0.08	2.42	99.16	13	16	98	50	22	40	130	90	18	2	< 5
1127743	71.97	16.51	1.11	0.113	0.32	1.96	3.89	1.50	0.042	0.14	1.24	98.81	2	41	11	20	2	< 20	< 10	530	46	7	< 5
1127744	48.26	14.99	10.69	0.258	3.38	17.50	0.52	0.44	0.678	0.13	3.64	100.5	38	14	246	220	36	100	150	70	17	3	< 5
1127745	46.22	15.10	13.02	0.279	4.03	17.32	0.71	0.29	0.781	0.06	2.99	100.8	43	22	269	260	50	130	240	90	16	3	< 5
1127746	68.91	17.14	1.14	0.065	0.34	2.35	8.26	0.17	0.070	0.27	0.73	99.42	4	85	23	30	4	< 20	20	< 30	34	6	< 5
1127747	48.10	15.33	12.04	0.249	4.55	15.52	0.74	0.37	0.828	0.05	2.09	99.87	46	6	285	290	52	160	150	90	16	3	< 5
1127748	65.55	15.64	4.60	0.118	1.69	5.88	3.35	1.24	0.409	0.09	1.47	100.0	15	18	97	90	18	100	450	120	21	2	< 5
1127749	74.46	18.48	0.95	0.151	0.47	0.58	1.39	1.51	0.019	0.30	1.50	99.81	< 1	230	< 5	20	< 1	< 20	< 10	60	63	7	< 5
1127750	98.01	0.63	0.68	0.008	0.02	0.03	0.03	0.06	0.028	< 0.01	0.30	99.79	< 1	< 1	7	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
1127751	74.14	18.28	0.74	0.111	0.28	0.40	2.12	2.33	0.009	0.16	1.03	99.59	< 1	30	6	< 20	< 1	< 20	10	30	61	7	< 5
1127752	79.24	14.45	0.49	0.063	0.07	0.17	1.54	3.30	0.005	0.10	0.46	99.88	< 1	20	< 5	20	< 1	< 20	< 10	< 30	40	8	< 5
1127753	78.37	13.56	0.58	0.097	0.09	0.22	1.12	4.27	0.017	0.09	0.94	99.36	< 1	9	6	< 20	< 1	< 20	< 10	90	49	7	< 5
1127754	76.76	14.23	0.48	0.085	0.06	0.28	1.97	4.47	0.009	0.20	0.62	99.15	< 1	152	5	20	< 1	< 20	< 10	50	38	7	< 5
1127755	73.38	17.98	0.86	0.098	0.13	0.61	1.57	3.76	0.026	0.13	0.68	99.21	2	51	11	30	1	< 20	10	40	53	6	< 5
1127756	71.90	17.73	1.26	0.085	0.15	1.40	1.94	4.12	0.060	0.12	0.69	99.48	3	115	24	30	2	< 20	20	50	46	6	< 5
1127757	75.41	15.00	0.35	0.057	0.07	0.32	4.59	3.50	0.009	0.19	0.65	100.2	< 1	76	6	< 20	< 1	< 20	10	40	35	6	< 5
1127758	72.50	16.69	0.21	0.091	0.03	0.40	8.63	0.48	0.005	0.24	0.35	99.64	< 1	140	< 5	< 20	< 1	< 20	< 10	< 30	40	7	< 5
1127759	75.41	15.20	0.21	0.041	0.05	0.23	6.18	2.69	0.004	0.10	0.47	100.6	< 1	92	< 5	< 20	< 1	< 20	< 10	< 30	31	6	< 5
1127760	74.56	13.94	0.70	0.602	0.03	0.77	0.59	6.23	0.056	< 0.01	2.14	99.61	12	5	8	120	< 1	< 20	170	560	29	6	50
1127761	49.34	14.86	12.11	0.184	9.28	10.76	1.37	0.29	0.751	0.06	1.26	100.3	42	2	251	310	52	180	140	90	15	2	< 5
1127762	48.81	14.05	12.59	0.198	7.80	11.98	1.43	0.66	0.876	0.20	1.65	100.3	47	35	292	300	47	110	180	120	16	2	< 5
1127763	67.19	18.40	0.54	0.045	0.25	0.37	3.04	6.53	0.007	0.15	1.18	97.71	< 1	9538	< 5	20	1	< 20	20	100	32	6	< 5
1127764	65.77	21.02	0.76	0.133	0.15	0.33	6.13	2.43	0.023	0.21	1.70	98.66	< 1	6602	< 5	< 20	< 1	< 20	< 10	210	71	6	< 5
1127765	66.54	20.15	0.80	0.286	0.13	0.26	6.20	3.13	0.028	0.12	1.72	99.37	< 1	65	6	< 20	1	< 20	< 10	260	86	6	< 5
1127766	75.09	20.27	0.87	0.177	0.14	0.44	0.49	0.97	0.011	0.23	0.85	99.54	< 1	79	< 5	40	< 1	< 20	< 10	80	75	9	< 5
1127767	71.91	16.23	0.34	0.068	0.07	0.22	3.78	6.09	0.010	0.13	0.76	99.61	< 1	93	5	< 20	< 1	< 20	< 10	60	41	6	< 5
1127768	68.14	17.81	0.14	0.023	0.03	0.25	4.57	7.51	0.004	0.21	0.45	99.14	< 1	21	6	< 20	< 1	< 20	< 10	< 30	30	6	< 5
1127769	80.49	13.15	0.56	0.109	0.09	0.18	0.92	2.11	0.012	0.08	0.93	98.63	< 1	71	< 5	40	< 1	< 20	< 10	90	52	7	< 5
1127770	97.33	0.50	0.56	0.007	0.03	0.02	0.03	0.05	0.022	< 0.01	0.19	98.73	< 1	< 1	6	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127771	78.06	15.81	0.67	0.106	0.09	0.16	0.85	2.67	0.009	0.10	0.83	99.35	< 1	262	< 5	20	< 1	< 20	< 10	60	55	8	< 5
1127772	76.03	13.66	0.33	0.058	0.08	0.42	4.46	3.27	0.009	0.17	0.77	99.26	< 1	307	6	< 20	< 1	< 20	< 10	40	36	6	< 5
1127773	74.39	18.09	0.77	0.157	0.13	0.20	1.73	3.44	0.012	0.16	0.84	99.92	1	52	< 5	30	< 1	< 20	< 10	60	57	8	< 5
1127774	72.86	17.87	0.59	0.074	0.07	0.27	3.78	2.58	0.003	0.15	0.47	98.72	< 1	231	5	< 20	< 1	< 20	< 10	< 30	49	6	< 5
1127775	86.75	9.54	0.52	0.070	0.15	0.14	0.31	0.59	0.003	0.04	0.62	98.72	< 1	109	< 5	40	< 1	< 20	< 10	< 30	32	12	< 5
1127776	88.80	9.30	0.56	0.058	0.15	0.15	0.65	0.62	0.003	0.08	0.56	100.9	< 1	30	5	30	< 1	< 20	< 10	< 30	30	12	< 5
1127777	81.30	14.13	0.42	0.065	0.14	0.19	1.15	0.71	0.003	0.04	0.68	98.82	< 1	9	< 5	30	< 1	< 20	< 10	< 30	42	17	< 5
1127778	70.01	16.84	0.11	0.050	0.02	0.59	10.34	0.15	0.001	0.39	0.26	98.75	< 1	82	< 5	< 20	< 1	< 20	< 10	< 30	39	10	< 5
1127779	71.97	17.00	0.22	0.109	0.02	0.38	8.43	0.94	0.004	0.36	0.62	100.1	< 1	293	< 5	< 20	< 1	< 20	< 10	50	41	8	< 5
1127780	74.84	13.81	0.71	0.616	0.03	0.77	0.59	6.33	0.055	< 0.01	2.06	99.81	12	5	7	120	< 1	< 20	170	550	28	6	49

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127781	76.49	16.80	0.71	0.104	0.14	0.38	3.39	0.62	0.005	0.15	0.70	99.50	< 1	139	5	20	< 1	< 20	< 10	< 30	52	7	< 5
1127782	73.96	17.38	0.53	0.097	0.14	0.44	3.69	2.41	0.006	0.22	0.73	99.59	< 1	200	< 5	30	< 1	< 20	< 10	30	45	7	< 5
1127783	75.10	15.19	0.42	0.127	0.11	0.29	5.67	1.90	0.006	0.14	0.64	99.59	< 1	166	6	< 20	< 1	< 20	< 10	< 30	38	6	< 5
1127784	48.20	14.74	13.48	0.299	7.62	8.51	0.65	1.31	0.737	0.07	5.18	100.8	37	16	224	260	39	120	210	50	18	2	< 5
1127785	42.70	14.25	11.93	0.299	6.05	16.59	0.73	0.36	0.768	0.07	5.34	99.08	42	8	259	300	46	140	100	170	17	2	< 5
1127786	77.29	13.73	0.95	0.110	0.38	0.44	3.19	1.82	0.035	0.07	1.39	99.41	1	77	10	20	3	< 20	20	150	50	6	< 5
1127787	76.11	15.30	0.86	0.137	0.21	0.28	0.51	3.77	0.020	0.08	1.26	98.52	< 1	260	6	< 20	2	< 20	< 10	150	63	7	< 5
1127788	75.33	16.49	0.57	0.077	0.13	0.23	0.88	4.58	0.011	0.09	0.72	99.12	< 1	53	5	20	< 1	< 20	< 10	30	46	8	< 5
1127789	84.78	10.73	0.49	0.046	0.17	0.17	2.20	1.17	0.008	0.03	0.70	100.5	< 1	5	5	30	2	< 20	10	30	31	10	< 5
1127790	98.98	0.57	0.52	0.006	0.02	0.02	0.03	0.06	0.030	< 0.01	0.37	100.6	< 1	< 1	6	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127791	81.88	14.49	0.49	0.244	0.08	0.22	0.81	0.96	0.005	0.07	0.55	99.81	< 1	3	< 5	50	2	< 20	20	30	43	8	< 5
1127792	80.72	16.32	0.69	0.148	0.13	0.17	0.30	0.79	0.007	0.08	0.66	100.0	< 1	26	< 5	30	< 1	< 20	< 10	80	57	7	< 5
1127793	74.20	21.72	0.58	0.161	0.10	0.16	1.08	0.49	0.006	0.05	0.67	99.22	< 1	3	< 5	20	< 1	< 20	< 10	40	75	8	< 5
1127794	70.02	23.83	0.51	0.142	0.12	0.34	1.43	1.35	0.007	0.17	0.83	98.75	< 1	16	< 5	30	< 1	< 20	< 10	70	76	11	< 5
1127795	75.44	15.24	0.40	0.106	0.07	0.41	5.82	1.20	0.011	0.26	0.86	99.83	< 1	331	< 5	30	< 1	< 20	< 10	80	45	7	< 5
1127796	77.06	14.36	0.39	0.088	0.05	0.41	5.74	0.94	0.008	0.28	0.71	100.0	< 1	111	< 5	< 20	< 1	< 20	< 10	60	41	6	< 5
1127797	73.51	16.18	0.44	0.026	0.08	0.45	8.94	0.43	0.003	0.22	0.52	100.8	< 1	242	< 5	< 20	< 1	< 20	< 10	< 30	34	7	< 5
1127798	64.90	21.26	0.48	0.104	0.09	0.52	9.14	2.23	0.020	0.31	1.18	100.2	< 1	116	5	30	2	< 20	20	100	60	7	< 5
1127799	49.24	15.62	13.01	0.330	3.83	7.67	0.38	2.72	1.101	0.57	4.31	98.78	42	8	307	190	45	100	120	90	23	2	7
1127800	74.20	13.55	0.69	0.598	0.04	0.75	0.60	6.35	0.052	< 0.01	2.17	99.00	12	5	< 5	120	< 1	< 20	170	570	27	6	52
1127801	51.47	17.12	11.38	0.211	4.70	7.98	2.36	1.81	1.328	0.30	1.61	100.3	47	19	311	220	54	110	190	300	21	2	< 5
1127802	72.67	16.48	0.85	0.084	0.21	0.70	5.82	1.91	0.042	0.20	1.35	100.3	1	197	8	< 20	2	< 20	30	130	57	6	< 5
1127803	56.19	15.40	10.96	0.238	3.42	8.06	1.28	1.84	0.931	0.08	1.96	100.3	33	16	243	160	36	80	130	100	18	2	< 5
1127804	75.05	14.99	1.40	0.114	0.35	0.71	1.88	3.29	0.062	0.09	1.97	99.90	2	66	10	< 20	2	< 20	10	190	73	5	< 5
1127805	50.04	15.78	12.07	0.201	5.91	10.10	1.49	1.08	1.141	0.10	1.94	99.85	42	5	311	190	45	110	90	110	18	2	< 5
1127806	50.39	14.63	12.93	0.235	6.93	9.56	1.69	0.84	1.244	0.13	1.67	100.2	39	10	291	140	43	90	100	140	19	2	< 5
1127807	74.98	13.54	2.10	0.148	0.89	1.35	4.66	1.24	0.096	0.36	1.15	100.5	3	364	26	20	5	< 20	30	50	39	5	< 5
1127808	53.43	12.48	16.21	0.382	4.75	7.88	0.99	0.90	0.833	0.08	2.28	100.2	27	11	204	110	34	80	200	140	15	2	< 5
1127809	52.31	15.74	14.17	0.271	3.89	8.58	1.74	1.55	1.207	0.09	1.09	100.6	42	5	302	190	42	80	130	80	18	2	< 5
1127810	97.97	0.46	0.59	0.007	0.02	0.03	0.02	0.04	0.025	< 0.01	0.19	99.32	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5

Results

Activation Laboratories Ltd.

Report: A16-12592

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127699	1180	91	14	42	14	< 2	< 0.5	< 0.2	19	1.0	721	58	2.4	1.7	58.2	8	10.4	9	1.6	2.2	0.19	0.41	
1127700	2170	25	14	73	58	5	0.6	0.2	13	16.9	65.0	89	28.7	6.3	10.4	114	15.3	452	26.1	47.3	0.29	0.62	
1127701	2160	37	< 2	12	79	< 2	< 0.5	< 0.2	27	0.9	509	20	< 0.4	1.2	207	3	20.9	19	5.8	5.5	0.93	1.99	
1127702	2210	34	< 2	9	71	< 2	< 0.5	< 0.2	22	< 0.5	363	17	0.7	0.9	113	2	20.3	7	2.8	2.7	0.84	1.80	
1127703	4010	62	< 2	6	46	< 2	< 0.5	< 0.2	12	< 0.5	505	49	0.9	0.5	101	2	45.0	10	1.9	2.1	0.42	0.91	
1127704	1950	28	< 2	7	43	< 2	< 0.5	< 0.2	46	< 0.5	382	17	1.7	0.7	74.7	3	16.8	< 5	2.3	1.9	1.41	3.04	
1127705	2920	40	< 2	14	32	< 2	< 0.5	< 0.2	40	< 0.5	443	25	1.0	0.6	52.3	2	20.6	< 5	1.7	1.5	0.77	1.65	
1127706	1230	20	< 2	19	44	< 2	< 0.5	< 0.2	32	< 0.5	306	13	12.7	1.0	96.3	1	8.9	< 5	4.5	4.1	1.52	3.27	
1127707	2270	37	< 2	10	55	< 2	< 0.5	< 0.2	8	< 0.5	297	20	0.6	1.2	145	2	22.3	13	3.1	4.2	0.24	0.51	
1127708	540	122	15	41	3	< 2	< 0.5	< 0.2	2	1.7	254	60	0.5	1.2	1.0	< 1	8.2	100	0.3	0.7	0.13	0.28	3.03
1127709	224	115	14	41	2	< 2	< 0.5	< 0.2	2	1.0	107	38	0.8	1.2	0.4	< 1	4.0	6	0.2	0.2	0.13	0.28	
1127710	2	13	< 2	21	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	243	< 0.4	0.5	< 0.1	< 1	0.9	< 5	0.4	0.2	< 0.01	< 0.01	
1127711	519	17	< 2	30	78	< 2	< 0.5	< 0.2	5	< 0.5	126	13	< 0.4	4.3	198	1	4.2	10	4.8	4.1	0.31	0.67	
1127712	235	92	15	43	2	< 2	< 0.5	< 0.2	2	1.0	182	33	0.8	1.3	0.8	2	2.7	6	0.3	0.3	0.12	0.26	
1127713	106	94	14	45	2	3	< 0.5	< 0.2	< 1	1.0	74.8	38	< 0.4	1.2	0.2	< 1	1.3	7	0.3	0.3	0.07	0.16	
1127714	249	22	< 2	15	58	< 2	< 0.5	< 0.2	13	0.5	105	14	< 0.4	1.9	218	2	1.8	14	5.8	5.5	0.01	0.03	
1127715	275	98	15	41	2	< 2	< 0.5	< 0.2	< 1	1.0	354	73	< 0.4	1.3	0.5	< 1	2.6	6	0.2	< 0.1	0.11	0.23	
1127716	280	91	15	42	1	< 2	< 0.5	< 0.2	< 1	1.1	362	56	< 0.4	1.3	0.4	< 1	3.0	7	0.2	< 0.1	0.11	0.24	
1127717	580	129	17	44	2	< 2	< 0.5	< 0.2	2	1.6	714	59	< 0.4	1.4	0.3	3	6.6	< 5	0.3	0.1	0.09	0.19	
1127718	1600	31	< 2	18	80	< 2	< 0.5	< 0.2	32	< 0.5	297	19	1.5	2.4	222	2	10.6	7	6.5	2.5	0.14	0.31	2.65
1127719	711	16	< 2	7	68	< 2	< 0.5	< 0.2	9	< 0.5	149	16	4.0	0.8	167	1	6.2	6	4.3	2.4	0.43	0.93	
1127720	2100	24	14	75	61	6	< 0.5	0.2	13	17.7	63.9	93	30.8	6.5	10.1	105	13.6	474	25.1	46.0	0.29	0.62	
1127721	1400	23	< 2	27	54	< 2	< 0.5	< 0.2	15	0.7	219	17	0.7	3.2	127	2	13.3	10	10.7	8.8	0.90	1.94	
1127722	1170	19	< 2	10	80	< 2	< 0.5	< 0.2	23	< 0.5	230	12	1.3	1.1	118	2	9.9	10	5.1	7.0	0.85	1.82	
1127723	2420	34	< 2	6	30	< 2	< 0.5	< 0.2	21	< 0.5	377	27	0.4	0.5	70.7	1	22.4	6	2.8	2.1	1.12	2.42	
1127724	3090	43	< 2	8	21	< 2	< 0.5	< 0.2	22	< 0.5	494	28	< 0.4	0.7	82.4	1	32.8	7	2.3	1.3	1.30	2.80	
1127725	2510	35	< 2	22	42	< 2	< 0.5	< 0.2	28	< 0.5	375	18	< 0.4	1.3	120	2	25.6	7	2.7	2.4	1.11	2.39	
1127726	1520	23	< 2	7	25	< 2	< 0.5	< 0.2	25	< 0.5	278	11	< 0.4	0.8	61.5	< 1	16.1	8	3.1	2.4	1.48	3.18	
1127727	1920	27	< 2	6	21	< 2	< 0.5	< 0.2	24	< 0.5	297	12	1.2	0.4	47.5	1	19.7	< 5	7.2	2.5	1.35	2.90	
1127728	2110	33	< 2	6	24	< 2	< 0.5	< 0.2	24	< 0.5	259	20	< 0.4	0.5	48.3	1	21.1	8	1.0	2.0	0.97	2.10	2.75
1127729	773	16	< 2	10	56	< 2	< 0.5	< 0.2	14	< 0.5	106	6	1.5	1.4	196	1	7.8	7	6.5	6.5	0.44	0.95	
1127730	< 2	7	< 2	33	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	149	< 0.4	0.6	< 0.1	< 1	0.6	< 5	0.6	0.2	< 0.01	< 0.01	
1127731	825	18	< 2	11	48	< 2	< 0.5	< 0.2	18	< 0.5	99.1	15	< 0.4	1.5	127	1	5.1	8	9.8	5.5	0.78	1.67	
1127732	182	98	15	42	3	14	< 0.5	< 0.2	3	1.3	244	47	0.8	1.2	1.7	27	2.2	< 5	0.3	0.2	0.06	0.13	
1127733	360	143	22	75	4	< 2	< 0.5	< 0.2	5	0.6	31.8	208	< 0.4	2.0	0.6	< 1	2.3	< 5	0.5	0.5	0.06	0.12	
1127734	2620	61	2	36	105	< 2	< 0.5	< 0.2	46	< 0.5	203	46	1.1	4.0	134	3	17.6	10	20.0	13.9	0.06	0.12	
1127735	1140	46	< 2	34	88	< 2	< 0.5	< 0.2	16	< 0.5	163	82	< 0.4	3.4	269	3	7.4	12	17.9	7.6	1.66	3.58	
1127736	1260	45	< 2	23	59	< 2	< 0.5	< 0.2	16	< 0.5	201	69	< 0.4	2.4	165	1	9.7	12	9.9	5.4	1.82	3.91	
1127737	1240	34	< 2	10	112	< 2	< 0.5	< 0.2	25	< 0.5	162	82	1.9	1.1	214	2	9.2	8	5.3	17.4	0.71	1.53	
1127738	2180	38	< 2	15	80	< 2	< 0.5	< 0.2	36	< 0.5	266	44	1.5	1.6	136	3	16.8	8	8.1	5.2	0.45	0.98	2.70
1127739	3710	68	< 2	23	76	< 2	< 0.5	< 0.2	67	< 0.5	287	31	< 0.4	2.2	64.6	3	25.6	< 5	11.1	2.4	0.11	0.23	

Results

Activation Laboratories Ltd.

Report: A16-12592

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127740	2090	24	14	70	65	6	1.1	0.3	13	15.0	61.4	95	51.2	5.3	10.6	110	13.4	439	24.7	46.3	0.28	0.61	
1127741	783	70	17	45	3	< 2	< 0.5	< 0.2	3	2.1	1270	62	0.5	1.3	0.7	3	9.8	6	0.4	0.3	0.16	0.34	
1127742	1690	76	9	121	6	< 2	< 0.5	< 0.2	7	1.4	767	218	0.6	3.2	1.3	1	16.0	12	3.6	1.9	0.09	0.18	
1127743	1530	36	< 2	9	63	42	< 0.5	< 0.2	18	< 0.5	340	24	0.4	0.7	97.3	9	14.3	6	2.4	3.6	0.75	1.62	
1127744	271	148	15	39	4	< 2	< 0.5	< 0.2	3	1.4	269	26	1.9	1.2	9.4	14	4.5	< 5	0.5	0.7	0.09	0.20	
1127745	67	95	16	42	3	< 2	< 0.5	< 0.2	7	1.2	31.1	31	2.2	1.3	4.6	19	1.9	< 5	0.3	0.3	0.05	0.10	
1127746	101	31	< 2	18	56	< 2	< 0.5	< 0.2	3	1.0	46.9	21	1.9	2.6	265	1	1.3	12	5.0	6.5	0.01	0.03	
1127747	97	110	16	48	2	< 2	< 0.5	< 0.2	2	0.9	39.5	37	1.8	1.2	0.8	4	1.0	< 5	0.4	0.2	0.09	0.20	
1127748	1940	398	7	90	3	3	< 0.5	< 0.2	52	< 0.5	635	400	1.9	2.3	4.7	15	14.8	12	4.5	2.0	0.15	0.32	2.81
1127749	1670	33	< 2	15	26	< 2	< 0.5	< 0.2	53	1.4	327	34	92.6	0.9	80.2	2	12.6	9	4.5	2.3	1.49	3.21	
1127750	4	9	< 2	23	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	0.5	161	< 0.4	0.5	< 0.1	< 1	0.8	< 5	0.4	0.2	< 0.01	< 0.01	
1127751	2430	34	< 2	8	42	< 2	< 0.5	< 0.2	38	0.6	326	31	23.6	0.7	118	< 1	21.7	10	4.6	4.8	1.41	3.03	
1127752	3450	44	< 2	7	19	< 2	< 0.5	< 0.2	14	< 0.5	383	13	7.5	0.6	92.5	< 1	36.6	9	2.2	3.4	0.94	2.03	
1127753	4860	53	< 2	4	24	< 2	< 0.5	< 0.2	33	< 0.5	484	13	5.7	0.3	62.6	1	45.0	6	1.2	2.4	0.62	1.34	
1127754	4690	56	< 2	7	34	< 2	< 0.5	< 0.2	19	< 0.5	473	14	6.7	0.6	86.2	< 1	49.6	8	5.0	4.4	0.53	1.13	
1127755	3280	53	< 2	7	24	< 2	< 0.5	< 0.2	23	< 0.5	355	24	1.7	0.4	70.1	< 1	32.4	7	0.9	2.0	1.24	2.66	
1127756	3510	71	< 2	10	25	< 2	< 0.5	< 0.2	20	0.5	361	24	0.7	0.6	42.1	1	35.7	9	1.7	2.1	0.96	2.06	
1127757	3490	49	< 2	10	23	< 2	< 0.5	< 0.2	16	< 0.5	448	19	< 0.4	1.1	63.8	1	34.1	< 5	2.0	3.9	0.15	0.32	
1127758	479	13	< 2	16	111	< 2	< 0.5	< 0.2	7	< 0.5	95.1	7	0.7	2.1	323	3	4.7	< 5	8.6	11.8	0.03	0.06	2.62
1127759	2280	34	< 2	8	23	< 2	< 0.5	< 0.2	7	< 0.5	199	20	0.6	0.6	52.3	< 1	21.4	6	3.1	1.2	0.02	0.04	
1127760	2170	23	14	73	65	6	1.5	0.3	14	17.0	63.2	91	57.4	5.8	11.8	105	14.9	432	25.7	46.5	0.27	0.59	
1127761	113	94	14	42	2	< 2	< 0.5	< 0.2	< 1	1.4	81.7	41	< 0.4	1.2	0.9	< 1	2.2	7	0.3	0.2	0.22	0.47	
1127762	420	80	15	47	3	< 2	< 0.5	< 0.2	4	1.3	193	44	0.8	1.2	1.5	< 1	4.1	49	0.5	0.8	0.12	0.26	
1127763	5580	77	< 2	10	14	< 2	< 0.5	< 0.2	6	< 0.5	935	64	1.0	0.3	29.7	< 1	51.3	12	0.8	3.2	0.13	0.29	
1127764	2920	41	2	63	84	< 2	< 0.5	< 0.2	50	< 0.5	947	15	1.9	6.4	148	4	19.9	9	46.8	11.1	0.25	0.54	
1127765	4260	52	< 2	21	145	< 2	< 0.5	< 0.2	76	< 0.5	547	11	1.9	2.6	187	5	29.6	7	10.8	19.1	0.22	0.47	
1127766	1560	23	< 2	13	43	< 2	< 0.5	< 0.2	47	< 0.5	498	14	2.7	0.8	146	3	11.4	< 5	3.2	3.1	2.16	4.66	
1127767	6490	84	< 2	56	98	< 2	< 0.5	< 0.2	22	< 0.5	722	28	0.7	1.6	136	2	66.8	10	7.9	2.8	0.13	0.27	
1127768	7160	94	< 2	5	14	< 2	< 0.5	< 0.2	4	< 0.5	656	47	< 0.4	0.3	71.9	< 1	80.1	10	1.0	1.7	0.07	0.14	2.60
1127769	2820	35	< 2	9	26	< 2	< 0.5	< 0.2	33	< 0.5	449	9	2.5	0.8	74.7	2	26.4	< 5	2.9	2.1	0.94	2.03	
1127770	3	7	< 2	18	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	150	< 0.4	0.4	< 0.1	< 1	1.4	< 5	0.3	0.2	< 0.01	< 0.01	
1127771	3440	43	< 2	8	24	< 2	< 0.5	< 0.2	28	< 0.5	796	13	1.9	0.6	185	< 1	34.4	< 5	5.7	3.4	1.28	2.76	
1127772	3850	53	< 2	9	34	< 2	< 0.5	< 0.2	16	< 0.5	563	24	2.4	0.9	151	1	39.3	6	3.2	1.7	0.14	0.30	
1127773	4430	57	< 2	11	30	< 2	< 0.5	< 0.2	26	0.6	812	21	53.4	0.5	224	2	42.0	6	1.8	1.4	1.12	2.40	
1127774	2900	43	< 2	7	28	< 2	< 0.5	< 0.2	17	< 0.5	606	14	0.5	0.4	73.5	< 1	32.8	< 5	1.8	1.5	1.05	2.27	
1127775	747	13	< 2	5	14	< 2	< 0.5	< 0.2	19	< 0.5	353	11	1.7	0.6	273	< 1	7.4	< 5	1.5	5.1	0.95	2.05	
1127776	735	14	< 2	6	8	< 2	< 0.5	< 0.2	12	< 0.5	262	23	0.9	0.8	138	< 1	6.3	< 5	2.0	3.4	0.89	1.92	
1127777	924	15	< 2	5	30	< 2	< 0.5	< 0.2	21	< 0.5	273	13	< 0.4	0.7	814	< 1	7.6	< 5	1.3	3.4	1.27	2.73	
1127778	53	13	< 2	16	84	< 2	< 0.5	< 0.2	1	< 0.5	63.9	5	1.2	2.9	614	1	1.1	6	4.7	6.8	< 0.01	0.02	2.60
1127779	1770	32	< 2	24	98	< 2	< 0.5	< 0.2	11	< 0.5	472	8	1.1	3.3	409	3	12.1	7	13.9	15.0	0.11	0.24	
1127780	2160	24	14	180	67	6	1.5	0.2	13	16.8	62.7	92	38.1	8.3	11.6	109	14.7	414	26.8	46.7	0.28	0.61	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
1127781	811	17	< 2	11	29	< 2	< 0.5	< 0.2	19	< 0.5	332	29	1.2	1.5	134	2	7.0	< 5	1.9	1.6	1.29	2.77	
1127782	2750	46	< 2	18	21	< 2	< 0.5	< 0.2	16	< 0.5	503	50	1.7	1.8	71.8	< 1	29.3	6	2.8	1.9	0.92	1.97	
1127783	1970	34	< 2	25	36	< 2	< 0.5	< 0.2	16	< 0.5	369	71	0.5	2.9	215	< 1	18.6	6	5.2	4.7	0.42	0.91	
1127784	803	88	13	65	3	< 2	< 0.5	< 0.2	8	2.0	381	271	1.2	1.7	1.2	49	8.9	7	0.8	4.2	0.16	0.35	
1127785	86	114	14	44	4	< 2	< 0.5	< 0.2	3	1.5	49.1	107	0.6	1.2	0.8	4	1.4	< 5	0.4	0.3	0.04	0.09	
1127786	2200	31	< 2	7	28	< 2	< 0.5	< 0.2	39	< 0.5	200	19	6.9	0.3	58.0	1	14.3	< 5	0.9	1.2	0.30	0.65	
1127787	4550	53	< 2	5	27	< 2	< 0.5	< 0.2	44	< 0.5	667	28	15.0	0.3	75.5	2	40.9	< 5	1.6	3.3	0.85	1.82	
1127788	5110	64	< 2	5	10	< 2	< 0.5	< 0.2	18	< 0.5	484	18	14.5	< 0.2	49.0	< 1	57.4	< 5	1.0	0.9	1.01	2.18	2.76
1127789	1260	19	< 2	5	9	< 2	< 0.5	< 0.2	22	< 0.5	191	17	6.6	< 0.2	68.5	< 1	13.1	< 5	0.7	0.4	0.57	1.22	
1127790	3	10	3	50	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	0.6	179	< 0.4	1.2	3.1	< 1	0.9	< 5	1.0	0.3	< 0.01	< 0.01	
1127791	1030	17	< 2	5	2	< 2	< 0.5	< 0.2	28	< 0.5	164	10	8.6	0.3	17.6	< 1	9.5	< 5	3.6	1.4	1.41	3.03	
1127792	971	15	< 2	26	20	< 2	< 0.5	< 0.2	28	< 0.5	167	11	14.0	0.7	72.9	< 1	7.2	< 5	1.3	1.8	1.76	3.79	
1127793	486	11	< 2	7	64	< 2	< 0.5	< 0.2	55	< 0.5	109	11	2.5	0.5	187	< 1	4.1	< 5	5.6	4.6	2.38	5.13	
1127794	1430	25	2	16	71	< 2	< 0.5	< 0.2	44	0.6	207	28	1.5	1.3	126	3	11.4	5	9.3	5.6	2.43	5.24	
1127795	1490	28	< 2	35	134	< 2	< 0.5	< 0.2	21	< 0.5	232	20	1.4	3.4	367	3	9.5	9	23.5	8.0	0.22	0.48	
1127796	1110	25	< 2	32	167	< 2	< 0.5	< 0.2	17	< 0.5	137	15	1.3	4.0	503	3	8.8	10	30.5	9.7	0.26	0.56	
1127797	287	19	< 2	11	42	< 2	< 0.5	< 0.2	3	< 0.5	50.6	11	0.5	1.2	171	1	3.5	8	4.7	16.7	0.01	0.03	
1127798	2440	46	4	48	204	< 2	< 0.5	< 0.2	31	< 0.5	267	22	1.6	5.6	513	5	17.2	7	27.4	8.0	0.04	0.09	2.65
1127799	3820	77	24	75	14	< 2	< 0.5	< 0.2	7	1.4	7820	87	1.3	2.2	48.6	2	38.3	6	1.4	1.8	0.26	0.57	
1127800	2100	25	14	74	67	6	< 0.5	0.2	13	13.7	59.7	91	35.6	5.8	10.2	97	17.4	454	26.5	44.6	0.28	0.60	
1127801	1160	126	26	99	10	< 2	< 0.5	< 0.2	5	< 0.5	712	170	0.9	2.9	25.7	2	14.4	20	1.0	1.3	0.12	0.26	
1127802	1870	36	< 2	12	79	< 2	< 0.5	< 0.2	35	< 0.5	145	16	2.2	1.3	221	3	13.7	6	4.4	4.9	0.05	0.10	
1127803	752	61	16	93	6	< 2	< 0.5	< 0.2	5	0.7	350	240	1.0	2.3	2.0	2	8.2	< 5	1.5	0.9	0.09	0.19	
1127804	3410	51	< 2	12	66	< 2	< 0.5	< 0.2	54	< 0.5	213	22	2.6	0.9	92.8	3	21.4	< 5	2.6	1.2	0.07	0.15	
1127805	620	118	20	73	5	< 2	< 0.5	< 0.2	4	< 0.5	267	106	0.6	2.0	3.9	7	7.2	< 5	0.5	0.4	0.06	0.14	
1127806	598	99	27	88	7	< 2	< 0.5	< 0.2	5	< 0.5	292	87	1.1	2.4	11.1	1	6.3	< 5	1.0	1.8	0.10	0.22	
1127807	1160	43	3	49	205	< 2	< 0.5	< 0.2	21	< 0.5	222	35	2.4	4.1	237	3	8.5	18	32.0	12.6	0.05	0.10	
1127808	379	78	19	91	5	< 2	< 0.5	< 0.2	5	< 0.5	207	77	1.4	2.2	1.8	23	5.0	10	1.7	0.9	0.06	0.13	3.04
1127809	481	70	21	72	3	< 2	< 0.5	< 0.2	1	< 0.5	236	173	< 0.4	1.9	0.6	< 1	5.9	< 5	0.5	0.3	0.07	0.15	
1127810	< 2	9	< 2	20	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	195	< 0.4	0.5	< 0.1	< 1	0.7	< 5	0.4	0.2	< 0.01	< 0.01	

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.21	1.92	0.76	0.010	0.34	43.07	0.87	0.53	0.120	30.28					1615								
NIST 694 Cert	11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2					1740								
DNC-1 Meas	47.19	17.98	9.71	0.150	10.05	11.33	1.95	0.22	0.470	0.05			32		150	280	56	260	90	70			
DNC-1 Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070			31		148	270	57	247	100	70			
GBW 07113 Meas	72.64	13.45	3.28	0.140	0.15	0.61	2.53	5.49	0.290	0.02			5	4	< 5								
GBW 07113 Cert	72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500			5.00	4.00	5.00								
LKSD-3 Meas																80	27	50	30	150			28
LKSD-3 Cert																87.0	30.0	47.0	35.0	152			27.0
TDB-1 Meas																250		100	350	160			
TDB-1 Cert																251		92	323	155			
W-2a Meas	52.09	15.21	10.28	0.160	6.27	11.01	2.19	0.60	1.040	0.12			35	< 1	265	90	43	80	110	80	18	2	< 5
W-2a Cert	52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130			36.0	1.30	262	92.0	43.0	70.0	110	80.0	17.0	1.00	1.20
SARM-62 Meas	32.90	0.89			0.05	0.15			0.124	0.15													
SARM-62 Cert	32.8	0.880			0.0400	0.110			0.130	0.120													
SY-4 Meas	50.12	20.38	6.15	0.110	0.51	8.18	6.97	1.65	0.290	0.13			1	3	8								
SY-4 Cert	49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131			1.1	2.6	8.0								
CTA-AC-1 Meas																			60	40			
CTA-AC-1 Cert																			54.0	38.0			
BIR-1a Meas	48.03	16.17	11.27	0.170	9.74	13.40	1.85	0.02	0.980	0.01			44	< 1	320	400	48	180	120	70	15		
BIR-1a Cert	47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021			44	0.58	310	370	52	170	125	70	16		
NCS DC86312 Meas																							
NCS DC86312 Cert																							
ZW-C Meas																				990	97		
ZW-C Cert																				1050.00	99		
NCS DC70009 (GBW07241) Meas																30	4	< 20	880	100	16	11	68
NCS DC70009 (GBW07241) Cert																30	3.7	2.8	960	100	16.5	11.2	69.9
OREAS 100a (Fusion) Meas																	17		160				
OREAS 100a (Fusion) Cert																	18.1		169				
OREAS 101a (Fusion) Meas																	47		430				
OREAS 101a (Fusion) Cert																	48.8		434				
OREAS 101b (Fusion) Meas																	45		420				
OREAS 101b																	47		416				

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
(Fusion) Cert																							
JR-1 Meas																		< 20	< 10	30	15	2	15
JR-1 Cert																		1.67	2.68	30.6	16.1	1.88	16.3
NCS DC86303 Meas																							
NCS DC86303 Cert																							
NCS DC86303 Meas																							
NCS DC86303 Cert																							
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NCS DC86304 Meas																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NCS DC86304 Cert																							
NCS DC86304 Meas																							
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Lithium Tetraborate FX-LT 100 lot#220610B Meas																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
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Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
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Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
100 lot#220610B Cert																							
1127703 Orig																							
1127703 Dup																							
1127713 Orig	48.13	15.49	11.55	0.187	7.56	13.06	1.85	0.46	0.704	0.04	1.42	100.4	41	2	251	290	45	140	120	70	15	2	< 5
1127713 Dup	47.60	15.70	11.85	0.189	7.61	12.99	1.85	0.47	0.726	0.03	1.42	100.4	41	2	250	250	38	120	100	60	13	2	< 5
1127717 Orig																							
1127717 Dup																							
1127725 Orig																							
1127725 Dup																							
1127730 Orig	98.33	0.54	0.67	0.010	0.03	0.04	0.03	0.03	0.027	< 0.01	0.29	99.98	1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
1127730 Dup	97.83	0.51	0.71	0.009	0.03	0.04	0.03	0.03	0.027	< 0.01	0.29	99.49	< 1	< 1	< 5	20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
1127739 Orig																							
1127739 Dup																							
1127747 Orig																							
1127747 Dup																							
1127748 Orig																							
1127748 Split PREP DUP																							
1127760 Orig	73.71	13.79	0.69	0.597	0.03	0.76	0.59	6.21	0.056	< 0.01	2.14	98.58	12	5	7	120	< 1	< 20	160	560	29	6	56
1127760 Dup	75.40	14.08	0.71	0.606	0.03	0.77	0.59	6.26	0.055	< 0.01	2.14	100.6	13	5	8	120	< 1	< 20	180	560	29	6	43
1127768 Orig																							
1127768 Dup																							
1127777 Orig	81.61	14.05	0.42	0.066	0.14	0.19	1.15	0.71	0.003	0.04	0.68	99.06	< 1	9	< 5	30	< 1	< 20	< 10	< 30	42	17	< 5
1127777 Dup	80.98	14.22	0.42	0.065	0.14	0.19	1.14	0.71	0.003	0.04	0.68	98.59	< 1	9	< 5	40	< 1	< 20	< 10	< 30	42	17	< 5
1127782 Orig																							
1127782 Dup																							
1127790 Orig																							
1127790 Dup																							
1127798 Orig																							
1127798 Split PREP DUP																							
1127798 Dup																							
1127803 Orig																							
1127803 Dup																							
1127810 Orig	98.10	0.46	0.60	0.007	0.02	0.03	0.02	0.04	0.026	< 0.01	0.19	99.46	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
1127810 Dup	97.85	0.45	0.58	0.007	0.02	0.03	0.02	0.04	0.024	< 0.01	0.19	99.18	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
Method Blank																< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
Method Blank																							
Method Blank																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Method Blank																							
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Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
NIST 694 Meas																							
NIST 694 Cert																							
DNC-1 Meas		145	16	36								107											
DNC-1 Cert		144.0	18.0	38								118											
GBW 07113 Meas		42	46	409								506											
GBW 07113 Cert		43.0	43.0	403								506											
LKSD-3 Meas	75					< 2	2.5		2	1.2	2.5			4.4	0.7					4.2			
LKSD-3 Cert	78.0					2.00	2.70		3.00	1.30	2.30			4.80	0.700					4.60			
TDB-1 Meas	21																						
TDB-1 Cert	23																						
W-2a Meas	20	193	18	88		< 2						171	< 0.4		0.5	< 1	< 0.1			2.4	0.5		
W-2a Cert	21.0	190	24.0	94.0		0.600						182	0.0300		0.500	0.300	0.200			2.40	0.530		
SARM-62 Meas				475100																			
SARM-62 Cert				476000																			
SY-4 Meas		1203	115	516								347											
SY-4 Cert		1191	119	517								340											
CTA-AC-1 Meas															2.5					22.5	4.0		
CTA-AC-1 Cert															2.65					21.8	4.4		
BIR-1a Meas		113	14	17								8		0.6						< 5			
BIR-1a Cert		110	16	18								6		0.60						3			
NCS DC86312 Meas																					24.3		
NCS DC86312 Cert																					23.6		
ZW-C Meas	9030								1280			257			81.5	330	33.6						
ZW-C Cert	8500								1300			260			82	320	34						
NCS DC70009 (GBW07241) Meas	452							1.0	1760	3.0	37.8					2120	1.8			27.6			
NCS DC70009 (GBW07241) Cert	500							1.3	1701	3.1	41					2200	1.8			28.3			
OREAS 100a (Fusion) Meas						23														48.7	132		
OREAS 100a (Fusion) Cert						24.1														51.6	135		
OREAS 101a (Fusion) Meas						21														34.0	402		
OREAS 101a (Fusion) Cert						21.9														36.6	422		
OREAS 101b (Fusion) Meas						20														38.0	405		
OREAS 101b (Fusion) Cert						20.9														37.1	396		

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
JR-1 Meas	252				15	3		< 0.2	3		20.6		0.6	4.4	2.0	2	1.5	18	25.4	8.6			
JR-1 Cert	257				15.2	3.25		0.028	2.86		20.8		0.56	4.51	1.86	1.59	1.56	19.3	26.7	8.88			
NCS DC86303 Meas																					0.22	0.48	
NCS DC86303 Cert																					0.21	0.460	
NCS DC86303 Meas																					0.22	0.47	
NCS DC86303 Cert																					0.21	0.460	
NCS DC86303 Meas																					0.20	0.44	
NCS DC86303 Cert																					0.21	0.460	
NCS DC86303 Meas																					0.21	0.46	
NCS DC86303 Cert																					0.21	0.460	
NCS DC86303 Meas																					0.21	0.45	
NCS DC86303 Cert																					0.21	0.460	
NCS DC86303 Meas																					0.22	0.47	
NCS DC86303 Cert																					0.21	0.460	
NCS DC86304 Meas																					1.04	2.24	
NCS DC86304 Cert																					1.06	2.29	
NCS DC86304 Meas																					1.05	2.25	
NCS DC86304 Cert																					1.06	2.29	
NCS DC86304 Meas																					1.06	2.28	
NCS DC86304 Cert																					1.06	2.29	
NCS DC86304 Meas																					0.99	2.13	
NCS DC86304 Cert																					1.06	2.29	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-	
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV	
NCS DC86304 Meas																						1.11	2.39	
NCS DC86304 Cert																						1.06	2.29	
NCS DC86304 Meas																						1.07	2.30	
NCS DC86304 Cert																						1.06	2.29	
NCS DC86304 Meas																						1.10	2.36	
NCS DC86304 Cert																						1.06	2.29	
NCS DC86314 Meas																						1.76	3.79	
NCS DC86314 Cert																						1.81	3.89	
NCS DC86314 Meas																						1.74	3.74	
NCS DC86314 Cert																						1.81	3.89	
NCS DC86314 Meas																						1.75	3.77	
NCS DC86314 Cert																						1.81	3.89	
NCS DC86314 Meas																						1.74	3.74	
NCS DC86314 Cert																						1.81	3.89	
NCS DC86314 Meas																						1.72	3.71	
NCS DC86314 Cert																						1.81	3.89	
NCS DC86314 Meas																						1.88	4.04	
NCS DC86314 Cert																						1.81	3.89	
NCS DC86314 Meas																						1.83	3.95	
NCS DC86314 Cert																						1.81	3.89	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.98		
Lithium Tetraborate FX-LT																						8		

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-	
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV	
100 lot#220610B Cert																								
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.19		
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8		
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.97		
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8		
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.00		
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8		
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.16		
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8		
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.30		
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8		
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.89		
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8		

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.07	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.03	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.00	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.30	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.26	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.63	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-	
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV	
1127703 Orig																					0.42	0.91		
1127703 Dup																						0.42	0.91	
1127713 Orig	113	93	14	50	2	3	< 0.5	< 0.2	< 1	1.2	79.8	38	0.7	1.4	0.2	1	1.4	8	0.3	0.3				
1127713 Dup	98	95	14	40	1	2	< 0.5	< 0.2	< 1	0.7	69.8	38	< 0.4	1.0	0.2	< 1	1.1	5	0.2	0.2				
1127717 Orig																					0.09	0.20		
1127717 Dup																					0.09	0.19		
1127725 Orig																					1.10	2.38		
1127725 Dup																					1.12	2.41		
1127730 Orig	< 2	8	< 2	34	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	151	< 0.4	0.6	0.1	< 1	0.9	< 5	0.7	0.2				
1127730 Dup	< 2	7	2	32	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	147	< 0.4	0.5	< 0.1	< 1	0.3	< 5	0.5	0.2				
1127739 Orig																					0.11	0.23		
1127739 Dup																					0.10	0.23		
1127747 Orig																					0.09	0.20		
1127747 Dup																					0.09	0.20		
1127748 Orig																					0.15	0.32		
1127748 Split PREP DUP																					0.14	0.31		
1127760 Orig	2150	23	15	74	65	6	1.4	0.3	14	17.8	63.2	90	84.2	5.7	12.1	106	15.4	470	26.0	46.9	0.27	0.59		
1127760 Dup	2180	23	14	73	64	6	1.6	0.3	14	16.3	63.1	91	30.7	5.8	11.5	103	14.3	394	25.4	46.0	0.27	0.59		
1127768 Orig																					0.07	0.14		
1127768 Dup																					0.07	0.14		
1127777 Orig	924	15	< 2	5	31	< 2	< 0.5	< 0.2	22	< 0.5	275	13	0.4	0.7	808	< 1	7.6	< 5	1.2	3.3				
1127777 Dup	923	15	< 2	6	28	< 2	< 0.5	< 0.2	19	< 0.5	270	13	< 0.4	0.7	821	< 1	7.6	< 5	1.3	3.5				
1127782 Orig																					0.91	1.96		
1127782 Dup																					0.92	1.98		
1127790 Orig																					< 0.01	< 0.01		
1127790 Dup																					< 0.01	< 0.01		
1127798 Orig																					0.04	0.09		
1127798 Split PREP DUP																					0.05	0.10		
1127798 Orig																							2.65	
1127798 Dup																							2.64	
1127803 Orig																					0.09	0.19		
1127803 Dup																					0.09	0.19		
1127810 Orig	< 2	9	< 2	21	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	195	< 0.4	0.6	< 0.1	< 1	1.1	< 5	0.3	0.1				
1127810 Dup	< 2	9	< 2	19	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	195	< 0.4	0.4	< 0.1	< 1	0.3	< 5	0.4	0.2				
Method Blank	< 2				< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5		< 0.4	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1				
Method Blank																					< 0.01	< 0.01		
Method Blank																					< 0.01	< 0.01		
Method Blank																					< 0.01	0.01		
Method Blank																					< 0.01	< 0.01		

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O	Spec Grav
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	-
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-Na2O2	FUS-Na2O2	GRAV
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																					< 0.01	< 0.01	
Method Blank																							< 0.01
Method Blank																							< 0.01



Date Submitted: 11-Nov-16
Invoice No.: A16-12021
Invoice Date: 16-Dec-16
Your Reference: Seymour Lake

Ardiden Ltd.
Suite 6, 295 Rokeby Rd
Subiaco WA 6008
Australia

ATTN: Brad Boyle (inv/res)

CERTIFICATE OF ANALYSIS

98 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 4Litho-Pegmatite Special Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)

Code 8-Li (Sodium Peroxide Fusion) Sodium Peroxide Fusion

Code Specific Gravity-Pycnometer (Nitrogen) Pulp by Nitrogen Pycnometer

REPORT **A16-12021**

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:

Total includes all elements in % oxide to the left of total.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé". The signature is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

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
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A16-12021

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127601	52.60	15.61	11.87	0.238	4.31	10.13	1.01	1.28	0.802	0.20	2.49	100.6	42	22	280	260	46	140	160	100	18	3	8
1127602	45.16	13.60	13.40	0.277	5.24	13.04	0.80	0.89	0.730	0.05	5.67	98.87	39	9	253	250	48	130	250	100	14	2	7
1127603	60.83	16.15	4.81	0.137	1.78	6.05	4.78	1.78	0.301	0.83	2.82	100.3	16	27	106	120	20	60	100	70	17	3	26
1127604	49.06	14.80	12.76	0.236	5.24	13.66	1.68	0.30	0.808	0.08	1.82	100.4	41	7	270	260	47	140	150	110	15	3	< 5
1127605	48.71	14.24	13.25	0.209	7.80	11.36	0.92	0.75	0.809	0.06	1.53	99.64	41	11	259	240	45	130	130	180	13	2	< 5
1127606	69.47	17.97	1.23	0.080	0.24	0.79	9.49	0.34	0.030	0.31	0.31	100.3	1	65	10	30	2	< 20	10	80	34	6	< 5
1127607	49.54	14.40	13.02	0.201	6.33	12.53	1.28	0.50	0.837	0.05	1.21	99.90	43	2	271	290	49	140	130	90	14	2	< 5
1127608	70.75	17.29	0.81	0.132	0.10	0.36	2.11	6.32	0.014	0.30	0.66	98.85	< 1	49	< 5	30	< 1	< 20	< 10	70	45	8	< 5
1127609	81.74	13.74	1.17	0.111	0.09	0.25	1.95	1.00	0.012	0.12	0.48	100.7	< 1	23	10	40	< 1	< 20	< 10	110	31	4	< 5
1127610	94.91	0.63	2.67	0.027	0.03	0.03	0.02	0.05	0.033	< 0.01	0.32	98.72	< 1	< 1	6	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
1127611	78.67	14.58	1.39	0.068	0.05	0.17	2.20	2.53	0.005	0.12	0.26	100.0	< 1	39	< 5	40	< 1	< 20	< 10	50	36	7	< 5
1127612	76.76	16.09	1.03	0.066	0.08	0.21	2.38	3.31	0.008	0.10	0.42	100.5	< 1	7	< 5	40	< 1	< 20	< 10	< 30	41	8	< 5
1127613	77.47	15.40	1.18	0.623	0.08	0.33	2.45	0.79	0.007	0.75	0.39	99.47	< 1	22	7	50	< 1	< 20	< 10	90	30	5	< 5
1127614	72.77	16.38	0.84	0.115	0.09	0.20	2.72	4.91	0.014	0.17	0.83	99.03	< 1	82	< 5	30	< 1	< 20	< 10	80	47	8	< 5
1127615	72.00	17.10	1.00	0.248	0.05	0.17	1.70	4.41	0.030	0.13	2.13	98.96	< 1	9	5	< 20	< 1	< 20	< 10	200	83	9	< 5
1127616	72.34	16.82	1.25	0.305	0.06	0.20	1.18	4.39	0.033	0.19	2.30	99.07	< 1	9	6	20	< 1	< 20	< 10	210	84	8	< 5
1127617	67.96	20.32	1.31	0.302	0.09	0.09	2.03	5.07	0.042	0.09	2.65	99.95	< 1	10	5	< 20	< 1	< 20	< 10	240	104	8	< 5
1127618	70.83	18.15	0.32	0.077	0.03	0.40	9.27	0.47	0.005	0.31	0.46	100.3	< 1	149	7	< 20	< 1	< 20	< 10	< 30	28	5	< 5
1127619	72.38	17.43	0.30	0.078	0.02	0.46	9.37	0.20	0.003	0.30	0.23	100.8	< 1	92	< 5	< 20	< 1	< 20	< 10	< 30	25	4	< 5
1127620	73.49	14.13	0.71	0.614	0.04	0.75	0.61	6.54	0.058	0.02	2.14	99.11	12	5	6	120	< 1	< 20	170	580	28	7	54
1127621	71.55	16.68	0.35	0.233	0.04	0.53	9.00	0.11	0.004	0.30	0.23	99.03	< 1	129	< 5	< 20	< 1	< 20	< 10	< 30	35	8	< 5
1127622	48.25	16.59	13.16	0.275	4.56	11.27	2.10	0.81	0.925	0.06	1.77	99.79	47	5	291	340	56	140	250	120	15	2	< 5
1127623	72.85	16.77	1.19	0.079	0.22	0.44	2.08	5.51	0.028	0.17	0.41	99.75	1	31	10	40	2	< 20	10	40	42	7	< 5
1127624	72.78	20.47	1.78	0.164	0.06	0.27	1.05	1.55	0.010	0.15	0.45	98.74	< 1	1196	< 5	30	< 1	< 20	< 10	50	67	7	< 5
1127625	80.42	13.29	0.93	0.086	0.06	0.12	1.88	2.59	0.008	0.08	0.46	99.92	< 1	80	< 5	40	< 1	< 20	< 10	50	41	7	< 5
1127626	77.11	14.85	1.09	0.101	0.14	0.31	1.46	3.85	0.021	0.25	0.75	99.93	< 1	31	< 5	30	< 1	< 20	< 10	100	47	6	< 5
1127627	75.44	17.26	1.10	0.101	0.12	0.22	3.34	2.18	0.012	0.17	0.65	100.6	< 1	156	< 5	30	< 1	< 20	< 10	80	50	7	< 5
1127628	72.35	16.47	0.85	0.060	0.06	0.22	2.84	5.02	0.007	0.11	0.53	98.53	< 1	61	< 5	30	< 1	< 20	< 10	40	38	5	< 5
1127629	73.83	17.87	1.06	0.108	0.09	0.24	3.55	1.42	0.009	0.12	0.54	98.83	< 1	47	< 5	30	< 1	< 20	< 10	130	51	6	< 5
1127630	95.00	0.66	2.61	0.026	0.04	0.05	0.03	0.06	0.029	0.01	0.10	98.62	< 1	< 1	6	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
1127631	76.57	15.28	1.00	0.140	0.09	0.20	3.27	1.58	0.015	0.12	0.92	99.19	< 1	228	< 5	20	< 1	< 20	< 10	120	53	6	< 5
1127632	69.32	18.06	0.46	0.196	0.06	0.41	8.75	0.69	0.009	0.28	0.47	98.69	< 1	107	< 5	< 20	< 1	< 20	< 10	40	44	7	< 5
1127633	52.56	16.24	11.57	0.244	3.99	9.74	1.96	1.04	0.878	0.06	0.90	99.18	47	6	297	360	58	160	190	120	16	2	< 5
1127634	77.22	15.15	0.70	0.088	0.07	0.25	1.21	4.23	0.009	0.20	0.38	99.52	< 1	875	< 5	30	< 1	< 20	20	40	41	6	< 5
1127635	71.68	23.26	1.89	0.194	0.10	0.24	0.31	0.82	0.015	0.11	0.38	99.00	< 1	39	< 5	40	< 1	< 20	< 10	30	101	8	< 5
1127636	72.33	22.43	1.79	0.187	0.10	0.21	0.32	0.76	0.014	0.10	0.41	98.64	< 1	17	< 5	40	< 1	< 20	< 10	40	89	8	< 5
1127637	73.13	19.31	1.38	0.154	0.11	0.47	1.10	2.49	0.012	0.31	0.51	98.97	< 1	93	< 5	30	< 1	< 20	< 10	30	67	7	< 5
1127638	74.48	18.08	1.09	0.104	0.07	0.37	1.07	2.96	0.008	0.22	0.46	98.93	< 1	40	< 5	30	< 1	< 20	< 10	100	56	7	< 5
1127639	79.27	12.79	0.77	0.068	0.06	0.23	2.02	3.46	0.008	0.16	0.45	99.29	< 1	177	< 5	30	< 1	< 20	< 10	40	33	6	< 5
1127640	74.37	13.66	0.66	0.597	0.04	0.75	0.57	6.18	0.054	0.02	2.28	99.19	12	5	6	120	< 1	< 20	180	570	27	6	51
1127641	77.82	13.81	1.27	0.119	0.15	0.26	1.22	3.00	0.016	0.16	0.81	98.63	< 1	78	< 5	30	< 1	< 20	< 10	100	50	6	< 5

Results

Activation Laboratories Ltd.

Report: A16-12021

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127642	74.70	16.81	0.94	0.095	0.10	0.28	2.06	4.80	0.009	0.17	0.56	100.5	< 1	65	6	30	< 1	< 20	< 10	50	49	12	< 5
1127643	79.16	13.41	0.91	0.090	0.07	0.28	3.04	2.09	0.009	0.16	0.36	99.58	< 1	465	< 5	30	< 1	< 20	< 10	60	38	5	< 5
1127644	76.81	14.28	1.00	0.069	0.10	0.17	3.29	2.77	0.012	0.09	0.55	99.13	< 1	196	< 5	30	< 1	< 20	< 10	70	44	5	< 5
1127645	71.31	16.26	0.43	0.026	0.04	0.14	3.69	7.66	0.004	0.12	0.25	99.94	< 1	79	< 5	< 20	< 1	< 20	< 10	< 30	27	5	< 5
1127646	75.67	14.46	0.82	0.064	0.09	0.15	3.66	4.25	0.010	0.12	0.68	99.97	< 1	70	5	30	< 1	< 20	< 10	60	41	6	< 5
1127647	49.06	15.24	12.20	0.242	5.40	13.39	2.11	0.22	0.844	0.06	1.22	99.99	45	1	287	310	49	130	100	150	14	1	< 5
1127648	73.76	18.27	0.87	0.116	0.14	0.40	1.95	3.66	0.015	0.26	0.67	100.1	< 1	93	< 5	< 20	< 1	< 20	< 10	70	52	6	< 5
1127649	76.19	15.49	1.16	0.119	0.09	0.45	2.13	2.69	0.016	0.30	0.56	99.20	< 1	74	< 5	30	< 1	20	< 10	90	55	6	< 5
1127650	96.93	0.47	3.17	0.030	0.04	0.04	0.03	0.05	0.029	0.03	-0.47	100.3	< 1	< 1	7	20	1	< 20	< 10	< 30	1	1	< 5
1127651	75.07	17.56	1.21	0.109	0.08	0.28	2.83	1.89	0.013	0.16	0.43	99.63	< 1	83	< 5	30	< 1	< 20	< 10	70	65	7	< 5
1127652	77.05	16.51	1.17	0.142	0.08	0.40	2.41	1.33	0.013	0.28	0.50	99.89	< 1	293	< 5	30	< 1	< 20	< 10	110	62	7	< 5
1127653	75.33	18.67	0.94	0.084	0.07	0.20	1.39	3.39	0.005	0.13	0.25	100.5	< 1	64	< 5	30	< 1	< 20	< 10	30	53	9	< 5
1127654	75.65	17.61	1.45	0.109	0.26	0.20	2.83	0.71	0.007	0.11	0.64	99.56	< 1	53	< 5	30	< 1	< 20	< 10	40	61	6	< 5
1127655	70.00	16.52	1.44	0.229	0.60	0.97	6.43	0.85	0.018	0.45	1.00	98.51	< 1	100	7	20	2	< 20	20	50	44	8	< 5
1127656	68.63	17.56	2.14	0.172	0.94	1.55	6.34	1.12	0.088	0.40	1.00	99.94	5	76	34	50	5	< 20	30	60	41	7	< 5
1127657	49.83	15.77	12.75	0.223	5.79	11.95	1.17	0.59	0.868	0.06	1.59	100.6	46	4	293	340	50	130	130	110	16	2	< 5
1127658	71.82	18.93	1.13	0.140	0.13	0.42	3.57	1.80	0.025	0.17	0.65	98.78	< 1	42	5	20	< 1	< 20	< 10	70	61	7	< 5
1127659	68.40	23.92	1.11	0.220	0.14	0.70	1.13	1.51	0.019	0.45	0.98	98.58	< 1	1877	12	30	< 1	< 20	< 10	90	79	7	< 5
1127660	75.35	13.87	0.70	0.618	0.04	0.79	0.59	6.46	0.056	< 0.01	2.01	100.5	12	7	5	130	< 1	< 20	160	550	29	7	51
1127661	66.90	20.57	0.49	0.122	0.08	0.28	7.98	2.95	0.009	0.21	0.65	100.2	< 1	11	< 5	< 20	< 1	< 20	< 10	60	53	7	< 5
1127662	68.04	22.09	1.55	0.170	0.11	0.20	3.37	2.29	0.016	0.12	1.14	99.10	< 1	30	< 5	20	< 1	< 20	< 10	150	77	7	< 5
1127663	69.32	17.95	0.48	0.062	0.08	0.16	2.82	7.89	0.007	0.15	0.74	99.64	< 1	88	8	30	< 1	< 20	< 10	60	39	6	< 5
1127664	69.20	17.45	0.60	0.055	0.07	0.23	2.56	7.72	0.006	0.20	0.51	98.61	< 1	55	7	40	< 1	< 20	< 10	30	33	6	< 5
1127665	77.14	15.49	1.06	0.094	0.08	0.33	2.11	2.98	0.008	0.26	0.47	100.0	< 1	46	< 5	40	< 1	< 20	< 10	50	47	6	< 5
1127666	72.40	16.34	0.62	0.046	0.04	0.15	2.99	6.48	0.004	0.15	0.15	99.38	< 1	28	< 5	30	< 1	< 20	< 10	< 30	38	6	< 5
1127667	74.15	16.26	0.89	0.061	0.05	0.46	5.63	0.73	0.007	0.29	0.36	98.89	< 1	52	< 5	30	< 1	< 20	< 10	30	44	6	< 5
1127668	72.64	17.41	0.54	0.021	0.03	0.50	7.79	1.08	0.003	0.22	0.27	100.5	< 1	20	< 5	20	< 1	< 20	< 10	< 30	36	6	< 5
1127669	72.75	18.90	1.07	0.064	0.09	0.38	4.61	1.25	0.009	0.21	0.76	100.1	< 1	59	< 5	20	< 1	< 20	< 10	70	54	6	< 5
1127670	96.33	0.75	3.47	0.031	0.05	0.06	0.02	0.06	0.034	< 0.01	-0.05	100.8	< 1	< 1	5	20	1	< 20	< 10	< 30	1	< 1	< 5
1127671	83.49	11.45	1.25	0.086	0.07	0.14	1.77	0.78	0.008	0.06	0.45	99.55	< 1	472	< 5	40	< 1	< 20	< 10	60	39	6	< 5
1127672	72.26	16.04	0.48	0.082	0.05	0.33	6.08	3.14	0.007	0.24	0.45	99.15	< 1	246	< 5	< 20	< 1	< 20	< 10	50	42	6	< 5
1127673	74.07	15.55	0.99	0.089	0.10	0.12	2.05	6.22	0.017	0.12	0.66	99.99	< 1	158	< 5	30	< 1	< 20	< 10	100	43	6	< 5
1127674	76.76	14.68	0.51	0.057	0.05	0.14	3.31	4.30	0.006	0.13	0.33	100.3	< 1	108	< 5	20	< 1	< 20	< 10	40	36	7	< 5
1127675	75.75	14.08	0.99	0.065	0.07	0.16	1.94	5.07	0.007	0.12	0.44	98.69	< 1	283	< 5	20	< 1	< 20	< 10	50	33	6	< 5
1127676	77.02	13.79	0.77	0.058	0.07	0.15	2.07	5.37	0.010	0.13	0.46	99.89	< 1	89	< 5	30	< 1	< 20	< 10	60	34	6	< 5
1127677	73.14	15.25	1.07	0.086	0.13	0.14	1.24	6.89	0.022	0.12	0.73	98.81	< 1	232	< 5	30	1	< 20	< 10	120	46	5	< 5
1127678	79.42	13.19	0.91	0.066	0.07	0.17	1.48	4.55	0.010	0.11	0.45	100.4	< 1	250	< 5	30	< 1	< 20	< 10	60	37	5	< 5
1127679	71.89	16.31	0.76	0.044	0.05	0.18	1.94	7.27	0.006	0.12	0.34	98.90	< 1	77	< 5	30	< 1	< 20	< 10	40	36	5	< 5
1127680	75.09	14.12	0.69	0.608	0.04	0.76	0.58	6.36	0.055	< 0.01	1.96	100.3	12	5	10	130	< 1	< 20	160	540	18	4	36
1127681	78.85	15.24	0.87	0.090	0.08	0.18	1.49	1.94	0.006	0.07	0.39	99.21	< 1	140	< 5	50	< 1	< 20	< 10	30	48	6	< 5
1127682	74.92	15.14	0.99	0.082	0.09	0.29	4.35	3.23	0.012	0.17	0.65	99.91	< 1	176	< 5	< 20	< 1	< 20	< 10	70	45	6	< 5

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127683	70.27	16.86	1.34	0.063	0.03	0.36	6.55	3.87	0.006	0.23	0.22	99.80	< 1	106	< 5	< 20	< 1	< 20	< 10	< 30	37	6	< 5
1127684	48.98	15.23	12.72	0.210	6.86	12.08	1.63	0.47	0.830	0.07	1.25	100.3	42	3	277	320	49	140	120	90	9	1	< 5
1127685	44.69	15.33	10.66	0.226	5.57	16.48	0.77	0.73	0.795	0.04	4.49	99.78	41	28	252	320	46	140	60	80	10	2	< 5
1127686	60.03	18.99	1.63	0.057	0.79	4.59	8.45	0.83	0.050	0.19	3.16	98.77	3	110	17	20	4	< 20	20	< 30	33	5	< 5
1127687	43.71	10.81	10.82	0.289	5.24	19.66	0.19	1.55	0.598	0.04	5.75	98.65	33	13	201	240	37	100	60	80	14	5	6
1127688	42.93	13.21	16.29	0.476	6.14	16.83	0.88	0.41	0.772	0.05	2.24	100.2	43	7	269	250	42	110	270	90	15	3	< 5
1127689	73.22	16.99	0.61	0.094	0.13	0.50	5.58	1.02	0.011	0.24	0.38	98.78	< 1	68	< 5	< 20	< 1	< 20	10	70	43	6	< 5
1127690	96.54	0.72	3.33	0.031	0.03	0.05	0.04	0.06	0.033	< 0.01	-0.07	100.8	< 1	< 1	7	20	< 1	< 20	< 10	< 30	1	1	< 5
1127691	75.21	14.76	0.54	0.039	0.05	0.49	6.26	2.06	0.004	0.34	0.31	100.1	< 1	74	< 5	< 20	< 1	< 20	< 10	30	28	6	< 5
1127692	76.18	14.92	0.64	0.053	0.04	0.27	6.11	1.67	0.006	0.20	0.44	100.5	< 1	64	7	30	< 1	< 20	< 10	50	33	6	< 5
1127693	75.38	16.89	0.80	0.089	0.06	0.23	4.71	1.98	0.007	0.16	0.52	100.8	< 1	113	< 5	20	< 1	< 20	< 10	50	44	6	< 5
1127694	73.71	15.14	0.76	0.080	0.08	0.33	4.58	3.46	0.008	0.20	0.52	98.88	< 1	124	< 5	20	< 1	< 20	< 10	50	37	6	< 5
1127695	51.71	17.16	11.36	0.286	3.52	10.03	0.70	1.43	0.898	0.10	1.78	98.98	45	38	295	300	54	160	190	130	20	4	< 5
1127696	52.33	17.70	11.57	0.284	3.53	10.14	0.79	1.49	0.923	0.08	1.73	100.6	44	39	296	290	53	150	200	120	20	4	< 5
1127697	66.50	16.25	2.38	0.104	0.62	4.17	5.25	1.22	0.125	1.49	0.89	99.00	5	80	32	60	9	20	90	130	28	4	< 5
1127698	50.51	17.84	10.76	0.260	3.98	11.09	1.64	1.31	0.723	0.34	1.74	100.2	37	111	243	250	44	120	180	140	28	5	< 5

Results

Activation Laboratories Ltd.

Report: A16-12021

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
1127601	942	144	14	41	7	< 2	< 0.5	< 0.2	6	1.7	1180	102	1.2	1.3	24.0	< 1	6.9	13	0.7	1.6		0.39	0.83
1127602	1140	93	14	39	3	< 2	< 0.5	< 0.2	2	1.9	1990	51	0.8	1.1	3.0	< 1	8.6	14	0.2	1.6		0.33	0.72
1127603	1980	75	6	55	86	< 2	1.2	< 0.2	8	1.8	2120	137	1.2	4.1	194	4	17.3	21	6.9	9.7		0.25	0.53
1127604	51	123	15	44	5	< 2	< 0.5	< 0.2	2	1.3	69.4	77	0.6	1.5	17.9	< 1	1.4	9	0.7	0.2		0.17	0.37
1127605	524	97	14	40	2	< 2	< 0.5	< 0.2	3	1.7	479	47	2.1	1.3	5.0	< 1	4.1	50	0.3	0.6		0.23	0.50
1127606	531	26	< 2	41	67	< 2	< 0.5	< 0.2	5	< 0.5	337	12	0.9	5.0	246	1	3.7	8	10.2	6.5		0.02	0.05
1127607	204	113	15	42	2	2	< 0.5	< 0.2	< 1	0.8	152	27	0.5	1.3	0.6	< 1	1.7	9	0.2	0.6		0.17	0.37
1127608	7250	89	< 2	18	50	< 2	< 0.5	< 0.2	22	0.7	626	15	9.4	0.6	240	2	51.3	12	4.2	3.0		0.59	1.26
1127609	1280	21	< 2	10	88	< 2	0.8	< 0.2	30	3.5	158	15	164	0.6	264	2	10.1	39	2.7	5.3	2.77	0.98	2.11
1127610	3	11	2	27	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	172	< 0.4	0.6	< 0.1	< 1	0.9	< 5	0.6	0.2		< 0.01	< 0.01
1127611	2840	39	< 2	< 4	7	< 2	< 0.5	< 0.2	12	< 0.5	321	10	1.1	0.2	30.1	1	21.1	9	5.0	1.7		0.90	1.95
1127612	3520	49	< 2	5	22	< 2	< 0.5	< 0.2	14	< 0.5	406	16	0.9	0.3	103	< 1	27.1	14	1.7	2.1		1.01	2.18
1127613	963	21	< 2	13	11	< 2	0.8	< 0.2	21	< 0.5	132	12	3.3	0.4	44.1	< 1	7.2	< 5	1.8	1.2		1.22	2.63
1127614	5400	69	< 2	8	46	< 2	< 0.5	< 0.2	26	0.6	567	20	1.5	1.1	266	2	38.7	9	2.4	2.4		0.50	1.07
1127615	6450	75	< 2	16	60	< 2	< 0.5	< 0.2	67	< 0.5	1150	14	0.9	3.3	571	5	36.0	< 5	2.6	4.7		0.15	0.33
1127616	6500	76	< 2	17	61	< 2	< 0.5	< 0.2	68	< 0.5	1170	18	0.5	3.5	540	4	35.3	< 5	2.9	3.5		0.17	0.36
1127617	7900	86	< 2	35	89	< 2	< 0.5	< 0.2	91	< 0.5	1480	11	< 0.4	7.7	743	7	40.9	< 5	4.1	1.3		0.25	0.53
1127618	572	17	< 2	19	89	< 2	0.6	< 0.2	10	< 0.5	143	12	0.5	2.4	402	3	4.1	7	5.1	6.5		0.02	0.04
1127619	181	9	< 2	27	93	< 2	0.6	< 0.2	3	< 0.5	40.7	10	0.8	2.9	262	3	1.5	< 5	6.2	2.1	2.62	< 0.01	0.02
1127620	2370	26	15	77	59	6	1.5	0.3	12	16.6	58.9	93	50.1	6.2	11.3	102	10.8	472	24.8	47.8		0.27	0.59
1127621	20	7	3	15	40	< 2	< 0.5	< 0.2	5	< 0.5	27.1	10	2.3	1.6	204	< 1	0.1	< 5	5.3	2.4		< 0.01	0.01
1127622	423	97	19	44	2	< 2	< 0.5	< 0.2	1	0.8	134	127	1.1	1.4	0.6	< 1	3.2	17	0.3	0.2		0.13	0.27
1127623	5400	66	< 2	6	14	< 2	< 0.5	< 0.2	17	< 0.5	442	21	0.9	0.7	84.7	< 1	40.2	9	1.3	0.8		0.79	1.70
1127624	1490	20	< 2	6	7	< 2	< 0.5	< 0.2	60	< 0.5	365	15	1.8	0.3	45.4	< 1	11.9	5	1.7	2.7		2.15	4.64
1127625	2910	35	< 2	11	17	< 2	< 0.5	< 0.2	26	0.6	324	13	8.7	1.5	119	< 1	20.5	7	1.8	1.5		0.80	1.72
1127626	3800	49	< 2	6	31	< 2	< 0.5	< 0.2	40	< 0.5	332	13	2.2	0.8	81.7	2	26.1	7	0.8	1.0		0.77	1.65
1127627	2470	34	< 2	9	18	< 2	< 0.5	< 0.2	29	0.8	344	14	0.4	1.3	46.3	1	16.9	< 5	1.8	0.7		1.00	2.14
1127628	4000	58	< 2	< 4	28	< 2	< 0.5	< 0.2	17	< 0.5	268	30	< 0.4	0.2	35.4	< 1	31.0	8	0.5	0.5		0.59	1.27
1127629	1470	26	< 2	19	75	< 2	< 0.5	< 0.2	23	< 0.5	176	20	2.6	1.6	131	1	10.2	< 5	3.9	1.5	2.77	1.10	2.37
1127630	4	11	< 2	45	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	169	< 0.4	1.0	0.1	< 1	0.9	< 5	0.5	0.2		< 0.01	< 0.01
1127631	2330	27	< 2	18	49	< 2	< 0.5	< 0.2	34	< 0.5	325	8	< 0.4	2.3	134	3	10.1	< 5	4.0	1.5		0.61	1.31
1127632	816	17	< 2	18	61	< 2	< 0.5	< 0.2	14	< 0.5	100	9	0.4	2.3	175	1	4.6	< 5	4.9	1.8		0.03	0.08
1127633	739	76	18	44	3	8	< 0.5	< 0.2	2	< 0.5	184	201	< 0.4	1.5	0.9	< 1	5.5	15	0.3	0.1		0.14	0.31
1127634	3890	46	< 2	4	82	< 2	< 0.5	< 0.2	24	< 0.5	463	16	5.2	0.3	149	2	28.0	9	1.1	1.4		0.93	2.00
1127635	950	13	< 2	7	15	< 2	< 0.5	< 0.2	58	< 0.5	212	13	0.8	0.4	27.8	< 1	6.8	< 5	0.5	0.5		2.79	6.00
1127636	877	12	< 2	6	25	< 2	< 0.5	< 0.2	58	< 0.5	195	13	0.6	0.4	45.6	< 1	5.5	< 5	1.3	0.8		2.78	5.99
1127637	2300	30	< 2	13	134	< 2	< 0.5	< 0.2	40	< 0.5	327	17	0.8	0.5	309	2	16.8	10	2.2	3.3		1.90	4.09
1127638	2640	39	< 2	8	42	< 2	< 0.5	< 0.2	38	< 0.5	283	17	13.5	0.8	109	< 1	20.5	17	22.6	6.2		1.64	3.54
1127639	3230	42	< 2	< 4	10	< 2	< 0.5	< 0.2	17	< 0.5	298	16	33.3	0.3	24.6	< 1	24.1	11	0.8	0.8	2.69	0.56	1.21
1127640	2340	24	15	81	64	6	1.2	0.2	12	16.7	57.0	88	36.2	6.0	10.7	102	12.4	417	24.1	45.9		0.27	0.59
1127641	3110	38	< 2	34	17	< 2	< 0.5	< 0.2	37	< 0.5	320	17	12.8	0.8	30.5	2	20.8	6	2.2	1.0		0.87	1.86

Results

Activation Laboratories Ltd.

Report: A16-12021

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
1127642	4110	54	< 2	7	16	< 2	< 0.5	< 0.2	25	< 0.5	407	30	11.0	0.4	52.0	< 1	32.8	7	1.0	0.8		0.91	1.97
1127643	2240	32	< 2	13	39	< 2	< 0.5	< 0.2	24	1.3	319	24	0.7	1.4	123	2	15.5	< 5	2.7	1.7		0.55	1.19
1127644	2820	37	< 2	8	42	< 2	< 0.5	< 0.2	30	< 0.5	260	22	0.5	0.6	79.8	1	18.4	6	2.2	1.9		0.44	0.94
1127645	5770	83	< 2	7	13	< 2	< 0.5	< 0.2	8	< 0.5	382	45	< 0.4	0.3	21.6	< 1	46.9	11	0.9	0.6		0.05	0.11
1127646	3540	49	< 2	10	21	< 2	< 0.5	< 0.2	26	< 0.5	300	35	< 0.4	0.5	43.4	1	27.8	9	1.4	0.8		0.41	0.88
1127647	32	104	16	47	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	5.8	79	< 0.4	1.3	0.2	< 1	2.2	< 5	0.3	0.1		0.04	0.08
1127648	3340	48	< 2	9	23	< 2	< 0.5	< 0.2	34	< 0.5	383	30	33.9	0.4	162	< 1	25.7	11	2.0	1.5		1.06	2.28
1127649	2770	37	< 2	4	26	< 2	< 0.5	< 0.2	39	0.8	318	10	29.4	0.3	51.6	2	23.2	11	1.4	1.7	2.75	0.87	1.87
1127650	4	9	2	21	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	131	< 0.4	0.4	0.2	< 1	1.0	< 5	0.4	0.2		< 0.01	< 0.01
1127651	2030	26	< 2	5	28	< 2	< 0.5	< 0.2	45	0.8	302	12	18.7	0.3	77.1	2	17.3	8	3.6	1.6		1.25	2.69
1127652	1790	23	< 2	11	37	< 2	< 0.5	< 0.2	38	1.7	309	9	45.4	1.2	85.4	3	13.5	9	3.2	2.4		1.20	2.59
1127653	3130	41	2	13	15	< 2	< 0.5	< 0.2	33	0.6	343	19	9.4	1.4	156	< 1	34.4	12	4.2	1.3		1.47	3.17
1127654	907	20	< 2	7	22	< 2	< 0.5	< 0.2	26	< 0.5	227	44	6.9	0.6	79.2	2	7.2	< 5	1.2	0.7		1.36	2.92
1127655	741	32	< 2	19	61	< 2	< 0.5	< 0.2	21	< 0.5	252	146	0.6	2.6	302	2	5.5	8	4.4	2.7		0.27	0.59
1127656	1090	39	3	19	59	< 2	< 0.5	< 0.2	17	< 0.5	451	160	0.9	1.9	212	2	8.9	6	3.3	2.1		0.29	0.62
1127657	286	85	19	47	2	< 2	< 0.5	< 0.2	1	0.8	206	32	0.9	1.2	1.5	< 1	3.8	10	0.3	0.2		0.24	0.52
1127658	1880	37	2	13	172	< 2	< 0.5	< 0.2	32	< 0.5	262	17	11.5	1.2	384	3	14.3	13	16.1	7.2		1.14	2.46
1127659	1740	30	< 2	13	61	< 2	< 0.5	< 0.2	40	< 0.5	495	15	2.8	1.5	161	2	9.4	9	11.5	3.7	2.94	2.15	4.62
1127660	2120	26	15	72	68	6	1.5	0.3	13	17.8	62.3	92	39.4	5.2	12.0	112	15.1	457	25.3	47.9		0.27	0.58
1127661	2640	50	< 2	24	356	< 2	< 0.5	< 0.2	18	0.6	350	16	< 0.4	2.8	733	4	24.5	18	32.4	23.2		0.26	0.57
1127662	2460	39	< 2	27	94	< 2	< 0.5	< 0.2	39	< 0.5	355	12	45.9	3.2	186	3	17.6	12	11.9	7.4		1.30	2.79
1127663	6210	83	< 2	15	126	< 2	< 0.5	< 0.2	15	< 0.5	522	32	1.0	1.0	215	< 1	64.9	16	2.3	1.9		0.26	0.56
1127664	6090	82	< 2	10	17	< 2	< 0.5	< 0.2	12	< 0.5	534	34	1.0	0.3	34.1	< 1	67.7	15	2.8	1.1		0.29	0.63
1127665	2510	39	< 2	6	23	< 2	< 0.5	< 0.2	31	< 0.5	351	13	< 0.4	0.3	49.0	< 1	25.4	9	2.3	1.0		0.98	2.10
1127666	5040	78	< 2	5	28	< 2	< 0.5	< 0.2	19	< 0.5	519	32	< 0.4	0.5	59.6	< 1	53.3	13	2.4	1.3		0.52	1.13
1127667	795	28	< 2	6	35	< 2	< 0.5	< 0.2	20	< 0.5	177	26	0.5	0.6	104	1	7.5	10	2.0	2.0		0.68	1.46
1127668	909	35	< 2	< 4	11	< 2	< 0.5	< 0.2	6	< 0.5	119	13	< 0.4	0.2	40.9	< 1	8.4	7	0.9	0.9		0.16	0.35
1127669	1480	32	< 2	5	27	< 2	< 0.5	< 0.2	30	< 0.5	255	10	0.7	0.6	45.5	2	10.4	< 5	1.7	1.1	2.74	0.82	1.76
1127670	4	11	3	23	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	155	< 0.4	0.5	0.1	< 1	0.6	< 5	0.4	0.2		< 0.01	< 0.01
1127671	1020	15	< 2	6	45	< 2	< 0.5	< 0.2	24	< 0.5	411	7	0.6	0.6	94.5	2	6.4	< 5	2.3	1.3		0.73	1.58
1127672	2630	43	< 2	11	67	< 2	< 0.5	< 0.2	17	< 0.5	317	24	< 0.4	1.3	181	1	23.9	9	6.8	5.2		0.08	0.18
1127673	5510	76	< 2	< 4	32	< 2	< 0.5	< 0.2	37	< 0.5	594	47	0.5	0.5	92.3	2	52.5	9	0.9	0.7		0.27	0.59
1127674	3790	55	< 2	< 4	15	< 2	< 0.5	< 0.2	15	< 0.5	473	32	< 0.4	0.4	45.7	< 1	38.9	8	1.2	1.3		0.45	0.97
1127675	4360	61	< 2	< 4	18	< 2	< 0.5	< 0.2	17	< 0.5	635	33	< 0.4	0.3	59.9	1	47.1	11	2.4	1.1		0.50	1.08
1127676	4630	64	< 2	5	33	< 2	< 0.5	< 0.2	21	< 0.5	547	36	0.7	0.6	127	1	47.3	9	1.4	1.5		0.32	0.69
1127677	5870	80	< 2	< 4	33	< 2	< 0.5	< 0.2	47	< 0.5	623	51	0.6	0.2	46.7	3	56.5	10	0.7	0.7		0.25	0.53
1127678	3750	52	< 2	5	26	< 2	< 0.5	< 0.2	27	< 0.5	435	31	< 0.4	0.3	50.6	< 1	36.2	7	1.1	0.9		0.41	0.89
1127679	5460	79	< 2	< 4	15	< 2	< 0.5	< 0.2	17	< 0.5	453	36	0.4	< 0.2	29.0	< 1	56.6	12	0.5	0.5	2.64	0.38	0.82
1127680	2290	24	13	78	75	7	2.1	0.3	16	17.9	65.9	93	68.6	5.8	11.6	127	14.9	557	25.8	48.4		0.27	0.59
1127681	1820	26	< 2	5	34	< 2	< 0.5	< 0.2	29	< 0.5	306	15	< 0.4	0.9	379	2	17.1	7	1.6	1.1		1.20	2.58
1127682	2900	42	< 2	14	59	< 2	< 0.5	< 0.2	30	< 0.5	413	19	1.4	1.6	187	2	27.0	7	3.6	2.5		0.22	0.48

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
1127683	2950	58	< 2	16	55	< 2	< 0.5	< 0.2	10	< 0.5	320	25	< 0.4	1.4	167	3	28.0	8	5.3	3.5		0.02	0.05
1127684	196	127	15	51	2	< 2	1.0	< 0.2	1	2.1	155	55	0.4	1.3	0.8	2	2.8	5	0.3	1.1		0.09	0.20
1127685	334	111	13	49	7	< 2	0.7	< 0.2	8	1.9	224	105	2.3	1.3	4.1	16	2.8	6	0.3	0.6		0.06	0.13
1127686	311	54	2	20	11	< 2	< 0.5	< 0.2	5	1.0	56.8	98	0.4	2.4	112	< 1	2.0	9	3.6	5.4		0.03	0.06
1127687	899	71	14	35	3	4	< 0.5	< 0.2	8	1.7	568	160	4.2	0.9	0.5	2	6.7	7	0.2	0.1		0.10	0.23
1127688	101	82	18	43	2	< 2	< 0.5	< 0.2	1	0.9	86.0	38	2.0	1.1	0.2	< 1	1.5	16	0.3	0.3		0.08	0.17
1127689	931	26	< 2	11	55	< 2	< 0.5	< 0.2	10	< 0.5	176	13	< 0.4	1.2	175	1	7.3	8	3.8	2.2	2.70	0.75	1.62
1127690	6	8	< 2	29	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.0	130	< 0.4	0.5	0.2	< 1	0.5	< 5	0.4	0.2		< 0.01	< 0.01
1127691	1720	44	3	10	28	< 2	< 0.5	< 0.2	6	< 0.5	218	21	< 0.4	1.1	96.7	< 1	15.2	7	2.8	2.0		0.09	0.19
1127692	1440	30	< 2	10	31	< 2	< 0.5	< 0.2	7	< 0.5	197	16	0.4	0.7	89.1	1	18.5	6	1.5	1.4		0.19	0.42
1127693	1820	30	< 2	8	137	< 2	< 0.5	< 0.2	15	< 0.5	292	17	0.5	0.7	238	2	16.2	19	6.4	5.5		0.70	1.51
1127694	2870	43	< 2	13	39	< 2	< 0.5	< 0.2	13	< 0.5	331	26	0.6	0.8	122	1	27.9	12	2.0	1.6		0.26	0.56
1127695	1670	82	18	50	6	< 2	< 0.5	< 0.2	11	0.7	937	94	1.1	1.2	7.7	< 1	16.8	8	0.4	0.5		0.35	0.76
1127696	1760	89	20	50	5	< 2	< 0.5	< 0.2	10	0.8	992	100	1.2	1.3	7.5	< 1	16.7	12	0.5	0.6		0.34	0.72
1127697	2050	88	4	17	35	3	< 0.5	< 0.2	18	0.8	629	41	0.9	2.1	479	3	15.3	56	3.1	10.1		0.12	0.25
1127698	1940	110	15	42	20	< 2	< 0.5	< 0.2	27	2.1	773	57	3.3	1.3	55.3	2	16.9	7	0.8	0.9		0.21	0.45

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.29	2.00	0.80	0.010	0.35	42.94	0.87	0.53	0.120	30.21					1625								
NIST 694 Cert	11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2					1740								
DNC-1 Meas	47.01	18.57	9.74	0.150	10.19	11.42	1.91	0.22	0.500	0.06			31		154	270	53	250	90	70			
DNC-1 Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070			31		148	270	57	247	100	70			
GBW 07113 Meas	70.68	13.04	3.15	0.140	0.16	0.61	2.53	5.46	0.290	0.05			5	4	6								
GBW 07113 Cert	72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500			5.00	4.00	5.00								
LKSD-3 Meas																80	29	50	30	150			27
LKSD-3 Cert																87.0	30.0	47.0	35.0	152			27.0
TDB-1 Meas																250		100	340	160			
TDB-1 Cert																251		92	323	155			
W-2a Meas	52.91	15.63	10.93	0.170	6.45	11.10	2.24	0.62	1.090	0.13			36	< 1	275	90	43	80	110	80	19	2	
W-2a Cert	52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130			36.0	1.30	262	92.0	43.0	70.0	110	80.0	17.0	1.00	
SY-4 Meas	49.88	20.53	6.08	0.110	0.52	8.10	6.89	1.65	0.290	0.13			1	3	9								
SY-4 Cert	49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131			1.1	2.6	8.0								
CTA-AC-1 Meas																			60	40			
CTA-AC-1 Cert																			54.0	38.0			
BIR-1a Meas	48.02	15.60	11.32	0.170	9.72	13.45	1.84	0.01	0.970	0.02			44	< 1	328	390	50	170	120	70	15		< 5
BIR-1a Cert	47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021			44	0.58	310	370	52	170	125	70	16		0.44
NCS DC86312 Meas																							
NCS DC86312 Cert																							
ZW-C Meas																							
ZW-C Cert																							
NCS DC70009 (GBW07241) Meas																		< 20	890	100	16	11	67
NCS DC70009 (GBW07241) Cert																		2.8	960	100	16.5	11.2	69.9
OREAS 100a (Fusion) Meas																	17		160				
OREAS 100a (Fusion) Cert																	18.1		169				
OREAS 101a (Fusion) Meas																	44		420				
OREAS 101a (Fusion) Cert																	48.8		434				
OREAS 101b (Fusion) Meas																	46		430				
OREAS 101b (Fusion) Cert																	47		416				
JR-1 Meas																		< 20	< 10	< 30	15	2	15
JR-1 Cert																		1.67	2.68	30.6	16.1	1.88	16.3

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NCS DC86314 Cert																							
AMIS 0104 Meas	18.30	2.33	20.87	46.06		1.36		0.27	0.276														
AMIS 0104 Cert	18.30	2.20	20.78	45.580		1.34		0.26	0.27														
USZ 28-99 Meas																							
USZ 28-99 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
1127607 Orig																							
1127607 Dup																							
1127615 Orig	72.05	16.88	0.99	0.248	0.04	0.16	1.71	4.43	0.030	0.13	2.13	98.81	< 1	9	5	20	< 1	< 20	< 10	200	83	9	< 5
1127615 Dup	71.95	17.31	1.02	0.249	0.05	0.17	1.69	4.38	0.030	0.14	2.13	99.11	< 1	9	5	< 20	< 1	< 20	< 10	190	82	9	< 5
1127629 Orig																							
1127629 Dup																							
1127632 Orig	69.17	18.08	0.45	0.196	0.06	0.41	8.78	0.69	0.009	0.28	0.47	98.59	< 1	109	< 5	< 20	< 1	< 20	< 10	40	44	7	< 5
1127632 Dup	69.46	18.05	0.46	0.196	0.06	0.41	8.72	0.69	0.009	0.28	0.47	98.80	< 1	104	< 5	< 20	< 1	< 20	< 10	40	43	7	< 5
1127637 Orig																							
1127637 Dup																							
1127651 Orig	75.07	17.56	1.21	0.109	0.08	0.28	2.83	1.89	0.013	0.16	0.43	99.63	< 1	83	< 5	30	< 1	< 20	< 10	70	65	7	< 5
1127651 Split PREP DUP	73.81	17.60	1.12	0.107	0.08	0.29	2.97	1.98	0.013	0.17	0.53	98.67	< 1	86	< 5	30	< 1	< 20	< 10	70	61	6	< 5
1127651 Orig																							
1127651 Dup																							
1127659 Orig																							
1127659 Dup																							
1127663 Orig	68.53	17.89	0.47	0.062	0.08	0.16	2.82	7.88	0.007	0.14	0.74	98.79	< 1	89	6	20	< 1	< 20	20	60	37	6	< 5
1127663 Dup	70.10	18.00	0.48	0.062	0.08	0.16	2.82	7.89	0.007	0.16	0.74	100.5	< 1	87	9	40	< 1	< 20	< 10	50	40	6	< 5
1127673 Orig																							
1127673 Dup																							
1127680 Orig	75.39	13.99	0.70	0.609	0.06	0.75	0.58	6.33	0.055	< 0.01	1.96	100.4	12	5	10	120	< 1	< 20	180	580	29	6	48
1127680 Dup	74.79	14.25	0.69	0.607	0.03	0.76	0.58	6.39	0.055	< 0.01	1.96	100.1	12	5	10	120	< 1	< 20	160	540	28	6	48
1127680 Orig	74.57	13.93	0.71	0.607	0.03	0.76	0.58	6.23	0.055	< 0.01	1.96	99.43	12	5	< 5	130	< 1	< 20	170	580	18	4	35
1127680 Dup	74.74	14.66	0.70	0.609	0.03	0.75	0.59	6.33	0.054	< 0.01	0.00	98.47	12	5	< 5	130	< 1	< 20	150	500	18	4	36
1127681 Orig																							
1127681 Dup																							
1127689 Orig																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127689 Dup																							
1127695 Orig																							
1127695 Dup																							
Method Blank																< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
NIST 694 Meas																							
NIST 694 Cert																							
DNC-1 Meas		148	17	38								106											
DNC-1 Cert		144.0	18.0	38								118											
GBW 07113 Meas		45	45	383								502											
GBW 07113 Cert		43.0	43.0	403								506											
LKSD-3 Meas						< 2	2.5				2.2			4.5	0.6				11.5	4.5			
LKSD-3 Cert						2.00	2.70				2.30			4.80	0.700				11.4	4.60			
TDB-1 Meas	21																						
TDB-1 Cert	23																						
W-2a Meas	20	200	21	95	8	< 2						176	< 0.4		0.4	< 1	< 0.1		2.4	0.5			
W-2a Cert	21.0	190	24.0	94.0	7.90	0.600						182	0.0300		0.500	0.300	0.200		2.40	0.530			
SY-4 Meas		1190	120	555								343											
SY-4 Cert		1191	119	517								340											
CTA-AC-1 Meas																				21.5	4.3		
CTA-AC-1 Cert																				21.8	4.4		
BIR-1a Meas		111	15	16								8											
BIR-1a Cert		110	16	18								6											
NCS DC86312 Meas																				23.6			
NCS DC86312 Cert																				23.6			
ZW-C Meas											257				88.2	333	34.2						
ZW-C Cert											260				82	320	34						
NCS DC70009 (GBW07241) Meas	470							1.0			38.1					2150	1.7			26.9			
NCS DC70009 (GBW07241) Cert	500							1.3			41					2200	1.8			28.3			
OREAS 100a (Fusion) Meas						22														49.0	133		
OREAS 100a (Fusion) Cert						24.1														51.6	135		
OREAS 101a (Fusion) Meas						21															395		
OREAS 101a (Fusion) Cert						21.9															422		
OREAS 101b (Fusion) Meas						21														39.0			
OREAS 101b (Fusion) Cert						20.9														37.1			
JR-1 Meas	235				16	4		< 0.2	3	1.3	20.3		0.4		1.8	2	1.5	18		8.1			
JR-1 Cert	257				15.2	3.25		0.028	2.86	1.19	20.8		0.56		1.86	1.59	1.56	19.3		8.88			

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%	
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2	
NCS DC86304 Meas																						1.01	2.18	
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.01	2.17
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.03	2.23
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.01	2.16
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.03	2.22
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.04	2.24
NCS DC86304 Cert																							1.06	2.29
NCS DC86314 Meas																							1.73	3.72
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.72	3.70
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.77	3.80
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.75	3.76
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.71	3.67
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.79	3.85

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O	
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	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2	
NCS DC86314 Cert																						1.81	3.89	
AMIS 0104 Meas												28390												
AMIS 0104 Cert												28600												
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							7.97	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.17	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							7.99	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.14	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.91	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.08	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
1127607 Orig																						0.18	0.38
1127607 Dup																						0.17	0.37
1127615 Orig	6540	75	< 2	16	60	< 2	< 0.5	< 0.2	68	< 0.5	1160	15	1.1	3.2	581	5	37.4	< 5	2.5	4.7		0.15	0.33
1127615 Dup	6350	75	< 2	16	59	< 2	< 0.5	< 0.2	66	< 0.5	1130	14	0.6	3.4	561	4	34.6	< 5	2.7	4.7		0.15	0.33
1127629 Orig																						1.11	2.39
1127629 Dup																						1.09	2.35
1127632 Orig	830	18	< 2	17	64	< 2	< 0.5	< 0.2	14	< 0.5	101	9	0.5	2.3	179	1	4.8	5	5.0	1.8			
1127632 Dup	801	17	< 2	18	58	< 2	< 0.5	< 0.2	13	< 0.5	99.3	9	0.4	2.3	170	1	4.3	< 5	4.9	1.8			
1127637 Orig																						1.91	4.11
1127637 Dup																						1.89	4.06
1127651 Orig	2030	26	< 2	5	28	< 2	< 0.5	< 0.2	45	0.8	302	12	18.7	0.3	77.1	2	17.3	8	3.6	1.6		1.25	2.69
1127651 Split PREP DUP	2070	27	< 2	6	25	< 2	< 0.5	< 0.2	41	0.7	305	12	19.2	0.4	70.0	1	18.3	11	3.4	1.5		1.17	2.53
1127651 Orig																						1.26	2.71
1127651 Dup																						1.24	2.66
1127659 Orig																						2.15	4.63
1127659 Dup																						2.14	4.61
1127663 Orig	5980	83	< 2	17	111	< 2	< 0.5	< 0.2	14	< 0.5	502	32	1.2	1.1	202	< 1	61.7	16	2.3	1.9			
1127663 Dup	6440	84	< 2	12	141	< 2	< 0.5	< 0.2	16	< 0.5	543	32	0.9	1.0	227	< 1	68.1	15	2.4	1.9			
1127673 Orig																						0.27	0.59
1127673 Dup																						0.27	0.59
1127680 Orig	2130	24	13	80	68	7	1.3	0.3	13	16.9	61.7	93	46.1	5.3	11.9	109	15.2	450	25.5	49.0			
1127680 Dup	2090	24	14	76	65	6	1.7	0.3	12	16.8	60.7	94	39.8	5.6	11.3	110	14.6	452	24.5	46.6			
1127680 Orig	2280	24	14	70	72	6	1.9	0.3	15	17.7	65.7	91	50.5	6.1	12.0	129	14.3	514	25.9	49.8			
1127680 Dup	2290	25	14	72	78	7	2.3	0.3	16	18.1	66.2	92	86.6	5.5	11.1	124	15.4	599	25.8	47.1			
1127681 Orig																						1.19	2.56
1127681 Dup																						1.21	2.61
1127689 Orig																						2.70	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O	
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	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2	
1127689 Dup																						2.70		
1127695 Orig																							0.35	0.76
1127695 Dup																							0.35	0.75
Method Blank	< 2				< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5		< 0.4	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1				
Method Blank																							< 0.01	< 0.01
Method Blank																							< 0.01	< 0.01
Method Blank																							< 0.01	< 0.01
Method Blank																							< 0.01	< 0.01
Method Blank																							< 0.01	< 0.01
Method Blank																							< 0.01	< 0.01
Method Blank																							< 0.01	< 0.01



Date Submitted: 04-Nov-16
Invoice No.: A16-11702 (i)
Invoice Date: 02-Dec-16
Your Reference: Seymour Lake

Ardiden Ltd.
Suite 6, 295 Rokeby Rd
Subiaco WA 6008
Australia

ATTN: Brad Boyle (inv/res)

CERTIFICATE OF ANALYSIS

100 Core samples were submitted for analysis.

The following analytical package(s) were requested:

- Code 4Litho-Pegmatite Special Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)
- Code 8-Li (Sodium Peroxide Fusion) Sodium Peroxide Fusion
- Code Specific Gravity-Pycnometer (Nitrogen) Pulp by Nitrogen Pycnometer

REPORT **A16-11702 (i)**

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:

Total includes all elements in % oxide to the left of total.

CERTIFIED BY:

Elitsa Hrischeva, Ph.D.
Quality Control

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Results

Activation Laboratories Ltd.

Report: A16-11702

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127501	69.46	17.32	0.51	0.051	0.11	1.11	9.36	0.34	0.011	0.50	0.55	99.34	< 1	20	8	20	< 1	< 20	< 10	< 30	32	4	< 5
1127502	49.65	14.25	12.33	0.513	7.37	11.48	1.34	0.78	0.745	0.05	1.75	100.3	39	8	245	280	46	130	170	100	14	2	< 5
1127503	47.39	14.71	12.02	0.466	7.29	11.30	0.93	1.55	0.708	0.05	2.20	98.62	38	13	246	270	48	150	120	130	16	6	< 5
1127504	52.92	16.00	10.80	0.503	5.57	9.72	1.98	0.81	0.782	0.05	1.56	100.7	40	6	256	290	49	150	140	90	17	2	< 5
1127505	62.92	19.21	2.89	0.218	1.57	1.30	7.83	1.50	0.187	0.38	1.47	99.48	9	56	61	90	12	40	90	90	39	7	< 5
1127506	52.53	15.47	11.49	0.529	5.21	10.21	1.26	0.75	0.788	0.05	1.85	100.2	41	2	270	300	51	160	130	100	16	2	< 5
1127507	48.90	15.28	12.37	0.519	6.56	12.81	1.47	0.47	0.769	0.05	1.45	100.7	42	4	275	290	47	150	130	100	16	2	< 5
1127508	68.72	17.07	1.82	0.199	0.64	2.13	7.56	0.26	0.073	0.29	0.67	99.42	4	66	28	50	5	20	20	60	41	8	< 5
1127509	51.27	15.63	12.00	0.514	5.40	10.05	0.81	1.65	0.730	0.09	2.34	100.5	39	15	265	280	44	150	150	170	18	4	< 5
1127510	95.44	0.69	4.78	0.037	0.03	0.04	0.09	0.08	0.027	< 0.01	-0.73	100.5	< 1	< 1	9	50	3	< 20	20	< 30	1	< 1	< 5
1127511	70.63	16.05	1.17	0.411	0.27	1.08	7.53	0.64	0.045	0.35	0.58	98.77	3	197	16	40	2	< 20	< 10	40	37	8	< 5
1127512	49.82	16.83	11.11	0.551	5.62	9.49	1.18	2.14	0.784	0.24	2.58	100.3	39	93	252	280	44	140	100	150	26	4	< 5
1127513	74.62	14.56	0.61	0.112	0.07	1.07	7.76	0.32	0.009	0.28	0.32	99.74	< 1	193	6	30	< 1	< 20	< 10	< 30	26	4	< 5
1127514	49.45	14.49	12.23	0.479	7.45	11.14	2.11	0.78	0.742	0.07	1.45	100.4	42	2	269	250	48	150	120	90	15	2	< 5
1127515	48.95	15.13	12.44	0.480	7.61	11.25	1.64	0.54	0.840	0.08	1.60	100.6	47	10	292	270	49	120	160	210	17	3	< 5
1127516	48.75	15.28	12.34	0.467	7.23	11.36	1.66	0.50	0.822	0.13	1.71	100.3	46	11	284	260	49	120	160	190	17	3	< 5
1127517	71.72	19.08	1.63	0.276	0.38	0.43	3.80	0.54	0.023	0.15	0.59	98.62	1	292	9	40	2	< 20	< 10	< 30	56	6	< 5
1127518	73.23	16.29	0.45	0.056	0.06	0.72	8.73	0.41	0.007	0.38	0.37	100.7	< 1	163	7	< 20	< 1	< 20	< 10	< 30	36	5	< 5
1127519	73.75	16.78	1.31	0.352	0.11	0.28	3.44	1.58	0.016	0.14	0.86	98.61	< 1	33	< 5	50	1	< 20	< 10	130	64	6	< 5
1127520	74.60	13.44	0.69	0.600	0.03	0.76	0.59	6.36	0.052	< 0.01	2.01	99.13	12	5	6	120	< 1	< 20	180	550	24	6	41
1127521	75.36	17.27	1.24	0.283	0.08	0.34	2.96	0.58	0.006	0.19	0.42	98.73	< 1	214	< 5	50	< 1	< 20	< 10	50	58	7	< 5
1127522	75.49	13.96	0.59	0.047	0.04	0.42	6.75	1.23	0.005	0.25	0.32	99.10	< 1	66	< 5	30	< 1	< 20	< 10	< 30	27	5	< 5
1127523	76.68	14.75	1.17	0.286	0.11	0.30	3.30	1.41	0.013	0.16	0.66	98.83	< 1	436	< 5	40	< 1	< 20	< 10	100	51	6	< 5
1127524	78.34	13.33	1.01	0.269	0.08	0.22	3.40	1.35	0.014	0.11	0.72	98.85	< 1	479	< 5	40	1	< 20	< 10	120	49	7	< 5
1127525	77.27	14.66	1.04	0.258	0.10	0.19	3.69	1.20	0.012	0.10	0.67	99.19	< 1	91	< 5	40	1	< 20	< 10	100	51	7	< 5
1127526	79.99	13.61	1.10	0.103	0.09	0.20	3.44	0.67	0.009	0.09	0.38	99.68	< 1	129	6	50	< 1	< 20	< 10	60	36	5	< 5
1127527	75.35	15.38	0.68	0.073	0.06	0.27	7.54	0.67	0.009	0.14	0.45	100.6	< 1	116	< 5	30	< 1	< 20	< 10	60	34	5	< 5
1127528	90.91	5.44	0.97	0.148	0.03	0.13	1.23	1.23	0.007	0.09	0.29	100.5	< 1	4	< 5	70	1	< 20	< 10	50	22	9	< 5
1127529	69.11	15.98	1.48	0.257	0.21	4.04	7.11	0.41	0.036	0.49	1.15	100.3	3	208	16	40	3	< 20	30	60	37	7	< 5
1127530	93.05	0.76	5.27	0.042	0.04	0.38	0.09	0.07	0.030	< 0.01	-0.60	99.11	< 1	< 1	7	60	3	20	20	< 30	2	< 1	< 5
1127531	44.81	14.95	9.45	0.734	3.50	19.06	1.42	0.31	0.592	0.76	4.62	100.2	33	76	215	200	36	100	110	90	17	4	< 5
1127532	42.73	13.95	13.05	0.770	5.93	18.15	0.88	0.30	0.803	0.06	4.00	100.6	43	3	275	260	46	130	60	110	16	3	< 5
1127533	76.80	14.23	2.46	0.275	0.47	1.00	3.40	1.00	0.054	0.19	0.64	100.5	2	70	17	50	4	< 20	30	70	39	7	< 5
1127534	79.79	14.72	1.40	0.256	0.15	0.16	1.42	0.84	0.010	0.07	0.53	99.34	< 1	104	< 5	40	1	< 20	< 10	60	54	6	< 5
1127535	78.23	15.79	1.56	0.290	0.10	0.19	1.01	1.48	0.009	0.09	0.42	99.16	< 1	310	< 5	50	< 1	< 20	< 10	60	56	6	< 5
1127536	76.75	16.37	1.47	0.288	0.09	0.16	1.36	2.13	0.008	0.08	0.42	99.12	< 1	280	< 5	50	1	< 20	< 10	60	57	6	< 5
1127537	73.23	15.10	0.44	0.041	0.06	0.27	3.10	7.77	0.008	0.24	0.53	100.8	< 1	104	6	30	< 1	< 20	< 10	30	26	5	< 5
1127538	76.00	15.28	1.04	0.198	0.14	0.13	1.84	3.97	0.012	0.10	0.71	99.42	< 1	77	< 5	40	< 1	< 20	< 10	80	48	7	< 5
1127539	67.94	17.09	0.47	0.034	0.04	0.13	2.19	10.38	0.004	0.15	0.47	98.90	< 1	4	6	30	< 1	< 20	< 10	< 30	27	6	< 5
1127540	73.96	13.75	0.68	1.461	0.03	0.75	0.56	6.21	0.054	< 0.01	1.97	99.43	12	5	< 5	140	< 1	< 20	200	650	33	8	51
1127541	77.12	17.16	1.24	0.345	0.08	0.17	1.06	1.24	0.012	0.11	0.42	98.95	< 1	6	< 5	50	< 1	< 20	< 10	60	60	8	< 5

Results

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127542	80.58	12.56	1.10	0.201	0.06	0.29	1.52	2.55	0.006	0.23	0.23	99.35	< 1	12	< 5	70	< 1	< 20	< 10	50	37	8	< 5
1127543	79.29	13.91	0.78	0.055	0.05	0.21	2.50	3.68	0.005	0.14	0.28	100.9	< 1	62	< 5	40	< 1	< 20	< 10	< 30	29	5	< 5
1127544	77.80	13.94	0.87	0.090	0.06	0.34	2.80	3.07	0.012	0.22	0.58	99.78	< 1	149	< 5	40	< 1	< 20	< 10	70	37	6	< 5
1127545	81.45	13.11	1.03	0.096	0.08	0.18	2.63	1.26	0.015	0.08	0.66	100.6	< 1	52	< 5	50	< 1	< 20	< 10	110	41	5	< 5
1127546	76.80	15.27	1.24	0.305	0.08	0.19	2.40	1.64	0.020	0.09	0.96	99.00	< 1	128	< 5	40	1	< 20	< 10	140	63	6	< 5
1127547	76.36	17.86	1.26	0.133	0.12	0.23	1.83	0.91	0.011	0.13	0.56	99.41	< 1	78	5	50	< 1	< 20	< 10	70	55	6	< 5
1127548	85.42	8.35	1.18	0.256	0.05	0.52	2.33	1.16	0.014	0.37	0.47	100.1	< 1	84	< 5	50	1	< 20	< 10	90	35	7	< 5
1127549	75.22	15.04	1.37	0.230	0.10	1.35	1.75	1.53	0.019	0.96	0.92	98.49	< 1	192	< 5	50	< 1	< 20	< 10	130	61	7	< 5
1127550	93.83	0.88	4.13	0.033	0.02	0.06	0.07	0.11	0.026	0.01	-0.47	98.70	< 1	3	8	40	3	< 20	30	< 30	2	1	< 5
1127551	74.87	17.06	1.50	0.137	0.10	0.37	2.62	1.18	0.014	0.19	0.71	98.76	< 1	181	< 5	40	< 1	< 20	< 10	80	58	6	< 5
1127552	76.99	14.28	1.08	0.073	0.08	0.34	4.58	0.96	0.009	0.12	0.65	99.16	< 1	421	< 5	40	< 1	< 20	< 10	60	43	5	< 5
1127553	77.02	14.93	0.80	0.091	0.12	0.37	4.27	1.17	0.014	0.13	0.87	99.78	< 1	133	5	30	< 1	< 20	< 10	80	47	5	< 5
1127554	70.21	17.19	0.63	0.094	0.07	0.58	9.25	0.21	0.005	0.26	0.37	98.87	< 1	83	7	< 20	< 1	< 20	< 10	< 30	37	6	< 5
1127555	48.33	15.72	13.30	0.280	4.76	13.39	1.03	0.43	0.867	0.06	1.22	99.38	48	10	296	320	53	140	150	110	17	2	< 5
1127556	48.24	16.45	13.67	0.277	4.68	13.30	1.20	0.42	0.922	0.07	1.15	100.4	49	5	310	330	54	140	180	120	18	2	< 5
1127557	48.18	15.44	11.14	0.169	6.64	10.90	2.81	1.01	0.863	0.06	2.49	99.68	45	3	274	260	53	160	130	90	15	2	< 5
1127558	70.56	17.65	0.77	0.078	0.17	0.65	8.00	0.32	0.008	0.31	0.49	98.99	< 1	496	< 5	20	< 1	< 20	< 10	< 30	45	6	< 5
1127559	68.07	17.79	1.29	0.127	0.44	1.25	7.07	1.10	0.059	0.63	0.70	98.53	3	89	21	30	3	< 20	20	90	49	6	< 5
1127560	74.61	13.35	0.69	0.599	0.03	0.75	0.60	6.35	0.054	< 0.01	2.14	99.17	12	5	5	100	< 1	< 20	170	560	28	6	32
1127561	68.96	18.80	1.34	0.088	0.30	2.02	6.97	0.38	0.048	0.95	0.44	100.3	2	177	18	30	3	< 20	20	30	47	6	< 5
1127562	49.07	15.19	12.26	0.266	5.24	14.78	0.60	0.60	0.822	0.06	1.55	100.4	45	25	275	260	48	150	180	100	19	4	< 5
1127563	59.29	19.33	2.10	0.076	0.81	5.47	8.84	0.27	0.090	2.26	1.56	100.1	4	170	30	60	6	30	20	60	40	6	< 5
1127564	48.93	15.47	12.47	0.205	7.33	11.53	1.81	0.71	0.773	0.12	1.17	100.5	41	10	263	230	49	160	120	110	17	2	< 5
1127565	46.74	16.15	11.93	0.247	6.72	11.68	2.04	1.34	0.885	0.07	2.23	100.0	46	6	293	260	52	140	200	300	18	2	< 5
1127566	70.13	19.67	0.80	0.152	0.08	0.88	4.74	1.00	0.011	0.52	0.70	98.67	< 1	246	< 5	30	< 1	< 20	< 10	50	57	7	< 5
1127567	69.62	20.75	1.26	0.184	0.08	0.28	3.70	1.64	0.019	0.15	0.97	98.64	< 1	122	< 5	30	< 1	< 20	< 10	160	81	8	< 5
1127568	72.13	20.37	1.05	0.148	0.07	0.32	3.14	0.65	0.009	0.17	0.52	98.58	1	25	8	30	< 1	< 20	< 10	180	66	7	< 5
1127569	76.91	15.38	0.86	0.099	0.09	0.29	4.69	0.65	0.008	0.17	0.57	99.73	< 1	259	< 5	40	< 1	< 20	< 10	60	46	6	13
1127570	94.79	0.63	3.32	0.031	0.03	0.03	0.05	0.06	0.022	< 0.01	-0.10	98.86	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	1	1	< 5
1127571	72.73	16.49	0.59	0.151	0.03	0.37	8.19	0.77	0.009	0.22	0.49	100.0	< 1	104	< 5	< 20	< 1	< 20	< 10	60	46	7	< 5
1127572	67.35	19.59	0.73	0.101	0.10	0.65	8.39	0.77	0.008	0.15	1.19	99.02	< 1	210	< 5	< 20	< 1	< 20	< 10	50	56	7	< 5
1127573	45.92	14.41	10.98	0.294	3.40	16.61	0.28	0.90	0.781	0.29	5.34	99.23	40	8	253	240	43	120	100	90	17	2	< 5
1127574	49.09	14.99	12.98	0.192	7.86	11.10	2.01	0.40	0.812	0.05	0.93	100.4	42	2	268	300	50	150	140	100	15	2	< 5
1127575	71.53	16.94	0.80	0.057	0.09	1.15	8.52	0.40	0.014	0.48	0.42	100.4	< 1	33	5	< 20	< 1	< 20	10	< 30	49	6	< 5
1127576	68.56	17.74	0.85	0.088	0.13	1.05	8.91	0.38	0.016	0.34	0.80	98.86	1	56	7	< 20	< 1	< 20	< 10	< 30	49	6	< 5
1127577	49.98	14.52	12.66	0.198	7.26	11.54	1.62	0.43	0.785	0.05	1.41	100.5	42	1	266	290	50	160	230	90	15	2	< 5
1127578	72.01	15.48	0.68	0.076	0.05	0.43	2.15	7.16	0.008	0.36	0.33	98.75	< 1	26	< 5	20	< 1	< 20	< 10	40	37	6	< 5
1127579	80.74	11.52	0.92	0.066	0.08	0.26	2.20	2.68	0.014	0.13	0.55	99.16	< 1	462	< 5	40	< 1	< 20	< 10	60	36	6	< 5
1127580	74.43	14.00	0.70	0.607	0.03	0.76	0.58	6.22	0.056	< 0.01	2.04	99.43	11	5	6	120	< 1	< 20	160	600	28	7	54
1127581	80.42	12.12	0.92	0.055	0.05	0.16	1.72	2.85	0.005	0.13	0.29	98.72	< 1	152	< 5	60	< 1	< 20	< 10	40	34	6	< 5
1127582	78.63	15.44	1.26	0.115	0.06	0.20	1.07	1.63	0.009	0.18	0.35	98.95	< 1	10	8	60	< 1	< 20	< 10	60	57	7	< 5

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
1127583	80.52	14.42	0.74	0.187	0.06	0.68	0.47	0.86	0.007	0.60	0.32	98.84	< 1	34	< 5	60	< 1	< 20	< 10	60	51	8	< 5
1127584	82.18	13.18	0.77	0.090	0.06	0.26	1.15	1.52	0.005	0.25	0.26	99.73	< 1	655	< 5	70	< 1	< 20	< 10	50	41	8	< 5
1127585	79.83	15.76	0.56	0.093	0.04	0.13	0.84	1.96	0.004	0.11	0.38	99.70	< 1	2137	< 5	50	< 1	< 20	< 10	50	47	9	< 5
1127586	76.95	17.45	1.03	0.360	0.05	0.55	0.46	0.80	0.007	0.66	0.41	98.73	< 1	802	< 5	70	< 1	< 20	< 10	50	65	10	< 5
1127587	80.67	17.65	0.79	0.105	0.04	0.12	0.25	0.37	0.005	0.06	0.33	100.4	< 1	36	< 5	60	< 1	< 20	< 10	< 30	62	9	< 5
1127588	82.76	14.09	1.18	0.230	0.08	0.54	0.28	0.30	0.004	0.52	0.33	100.3	< 1	429	8	80	< 1	< 20	10	< 30	47	11	< 5
1127589	82.61	13.13	0.72	0.166	0.06	0.10	2.48	0.40	0.006	0.04	0.25	99.98	< 1	12	< 5	50	< 1	< 20	< 10	30	40	9	< 5
1127590	96.13	0.70	3.75	0.034	0.02	0.03	0.09	0.08	0.028	< 0.01	-0.20	100.7	< 1	3	< 5	30	< 1	40	< 10	< 30	2	< 1	< 5
1127591	83.27	13.93	1.16	0.102	0.08	0.16	0.76	0.74	0.007	0.08	0.48	100.8	< 1	273	< 5	50	< 1	< 20	< 10	50	51	9	< 5
1127592	79.73	14.47	0.79	0.129	0.07	0.26	1.60	1.35	0.011	0.14	0.94	99.49	< 1	656	< 5	60	< 1	< 20	< 10	90	61	9	< 5
1127593	79.35	15.43	1.01	0.094	0.06	0.12	1.29	1.18	0.009	0.03	0.73	99.31	< 1	57	< 5	50	< 1	< 20	< 10	100	57	10	< 5
1127594	78.78	13.12	0.55	0.069	0.04	0.16	4.53	1.12	0.011	0.11	0.61	99.11	< 1	239	< 5	30	< 1	< 20	< 10	90	46	8	< 5
1127595	78.62	13.30	0.86	0.103	0.06	0.18	3.60	1.73	0.014	0.10	0.96	99.52	< 1	109	< 5	40	< 1	< 20	< 10	100	53	9	< 5
1127596	78.46	13.80	0.67	0.087	0.07	0.20	4.09	1.40	0.011	0.13	0.84	99.76	< 1	44	< 5	30	< 1	< 20	10	80	49	9	< 5
1127597	73.16	17.71	0.90	0.169	0.12	0.37	3.28	1.86	0.016	0.26	1.06	98.90	< 1	76	< 5	40	< 1	< 20	20	110	68	7	9
1127598	73.39	17.01	0.99	0.103	0.10	0.25	5.41	1.31	0.013	0.16	0.81	99.54	< 1	194	< 5	30	< 1	< 20	10	100	57	8	5
1127599	71.74	13.39	3.49	0.128	1.13	3.33	3.75	0.90	0.216	0.38	1.09	99.54	10	150	76	100	12	40	50	70	33	5	< 5
1127600	74.29	13.98	0.69	0.601	0.03	0.78	0.58	6.12	0.052	< 0.01	2.09	99.23	12	5	< 5	120	< 1	< 20	180	590	29	6	52

Results

Activation Laboratories Ltd.

Report: A16-11702

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
1127501	347	25	4	21	45	< 2	< 0.5	< 0.2	11	< 0.5	56.2	12	4.8	1.5	67.6	1	1.9	10	2.0	1.3		< 0.01	0.02
1127502	505	96	13	40	< 1	< 2	< 0.5	< 0.2	1	0.9	694	126	0.6	1.3	0.1	2	4.2	< 5	0.4	0.2		0.05	0.10
1127503	2310	106	14	37	< 1	11	< 0.5	< 0.2	5	2.0	6880	45	3.9	1.1	0.6	2	19.2	23	0.2	0.1		0.10	0.22
1127504	690	104	13	48	7	3	< 0.5	< 0.2	3	1.0	1150	57	0.5	1.6	34.9	1	7.9	< 5	0.8	0.5		0.05	0.11
1127505	2330	54	< 2	19	30	< 2	< 0.5	< 0.2	33	0.7	1610	34	3.6	1.0	64.1	1	18.6	11	0.9	1.2		0.08	0.18
1127506	475	96	13	43	< 1	5	< 0.5	< 0.2	2	2.0	672	53	0.4	1.2	0.3	< 1	5.4	< 5	0.3	0.1		0.05	0.10
1127507	78	127	14	39	< 1	3	< 0.5	< 0.2	2	0.9	16.6	87	1.5	1.2	0.2	< 1	1.4	11	0.3	0.1		0.03	0.07
1127508	237	47	3	16	51	< 2	< 0.5	< 0.2	9	1.1	157	32	1.5	1.9	279	1	2.0	12	4.9	8.3		0.02	0.04
1127509	2070	173	14	42	1	7	< 0.5	< 0.2	7	1.2	3510	112	3.9	1.2	1.8	1	17.9	< 5	0.3	0.4	3.08	0.11	0.23
1127510	3	7	2	32	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	0.7	151	< 0.4	0.7	0.1	< 1	0.1	< 5	0.4	0.2		< 0.01	< 0.01
1127511	661	35	4	15	67	< 2	< 0.5	< 0.2	11	< 0.5	217	28	7.0	1.8	173	1	4.8	10	8.0	4.3		0.03	0.06
1127512	1880	168	14	50	13	< 2	< 0.5	< 0.2	20	1.0	1870	74	2.1	1.5	30.1	< 1	16.1	6	1.4	1.3		0.12	0.26
1127513	144	24	< 2	35	49	< 2	< 0.5	< 0.2	4	0.5	53.3	30	0.7	3.9	172	< 1	0.9	9	5.4	5.0		< 0.01	0.01
1127514	155	113	14	43	< 1	< 2	< 0.5	< 0.2	< 1	0.7	91.1	96	< 0.4	1.2	0.7	< 1	1.7	6	0.3	0.2		0.07	0.14
1127515	124	112	17	46	< 1	4	< 0.5	< 0.2	1	1.5	111	63	0.4	1.3	0.5	< 1	1.5	21	0.3	0.3		0.13	0.29
1127516	128	117	17	44	< 1	4	< 0.5	< 0.2	2	1.6	112	53	0.7	1.3	1.5	< 1	1.4	29	0.3	0.3		0.13	0.29
1127517	415	14	< 2	16	73	< 2	< 0.5	< 0.2	13	< 0.5	191	33	< 0.4	1.7	110	1	2.7	< 5	6.2	4.0		1.45	3.13
1127518	395	15	< 2	17	122	< 2	< 0.5	< 0.2	9	< 0.5	77.7	11	0.5	1.7	227	< 1	2.1	< 5	8.4	8.0		0.07	0.16
1127519	1950	27	< 2	11	67	< 2	< 0.5	< 0.2	40	< 0.5	251	8	< 0.4	1.2	98.6	2	12.3	5	2.6	2.9	2.79	0.90	1.94
1127520	2200	23	14	74	68	6	1.4	0.2	13	17.2	64.7	95	55.1	5.7	10.3	107	13.4	468	24.9	45.8		0.28	0.61
1127521	877	15	< 2	11	31	< 2	< 0.5	< 0.2	18	0.6	253	8	< 0.4	1.3	84.6	1	6.7	< 5	3.2	4.1		1.50	3.22
1127522	1140	25	< 2	20	33	< 2	< 0.5	< 0.2	8	< 0.5	192	13	< 0.4	1.3	68.7	11	10.6	7	3.1	3.1		0.13	0.28
1127523	1630	23	< 2	8	35	< 2	< 0.5	< 0.2	31	< 0.5	315	10	< 0.4	0.6	67.2	1	10.9	< 5	2.8	2.6		0.71	1.54
1127524	1730	24	< 2	15	56	< 2	< 0.5	< 0.2	30	< 0.5	387	7	< 0.4	2.0	134	2	11.9	< 5	3.8	4.8		0.50	1.08
1127525	1540	22	< 2	55	50	< 2	< 0.5	< 0.2	27	< 0.5	234	20	< 0.4	5.3	123	4	10.4	< 5	7.3	3.8		0.65	1.41
1127526	835	13	< 2	19	36	< 2	< 0.5	< 0.2	24	< 0.5	138	11	< 0.4	1.6	67.9	2	5.8	7	2.4	1.3		0.81	1.75
1127527	813	17	< 2	19	45	< 2	< 0.5	< 0.2	17	0.8	124	10	< 0.4	1.5	104	< 1	5.3	< 5	2.1	1.3		0.21	0.45
1127528	1720	21	< 2	8	8	< 2	< 0.5	< 0.2	14	< 0.5	337	7	< 0.4	1.1	82.7	< 1	12.7	< 5	1.9	1.8		0.04	0.09
1127529	422	24	2	16	80	< 2	< 0.5	< 0.2	28	2.3	78.6	30	2.3	1.6	171	46	4.2	8	5.0	4.0	2.70	0.02	0.05
1127530	3	25	< 2	27	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	163	< 0.4	0.5	0.2	< 1	0.5	< 5	0.4	0.2		< 0.01	< 0.01
1127531	141	99	15	43	8	7	< 0.5	< 0.2	20	1.6	38.4	69	1.6	1.2	10.5	64	1.2	5	0.2	0.2		0.03	0.06
1127532	32	79	16	46	< 1	< 2	< 0.5	< 0.2	< 1	1.0	12.6	55	2.2	1.3	0.3	2	0.5	13	0.3	0.4		0.08	0.17
1127533	1120	25	2	14	62	< 2	< 0.5	< 0.2	16	0.6	198	137	3.4	1.8	140	1	7.6	16	3.8	1.9		0.68	1.46
1127534	1010	14	< 2	15	30	< 2	< 0.5	< 0.2	25	0.6	212	14	0.5	1.6	53.3	< 1	6.5	< 5	3.3	1.1		1.41	3.02
1127535	1540	21	< 2	40	65	< 2	< 0.5	< 0.2	25	0.5	322	21	1.5	4.5	124	< 1	12.5	6	12.7	3.1		1.50	3.23
1127536	2060	28	< 2	39	120	< 2	< 0.5	< 0.2	22	< 0.5	390	23	0.8	5.0	206	3	18.5	7	14.1	5.3		1.39	2.99
1127537	6460	79	< 2	13	20	< 2	< 0.5	< 0.2	13	< 0.5	587	33	0.8	0.5	33.5	< 1	58.3	12	1.4	0.8		0.07	0.14
1127538	3520	48	< 2	11	71	< 2	< 0.5	< 0.2	29	< 0.5	494	18	5.9	1.3	158	2	35.6	7	0.6	1.2		0.70	1.51
1127539	8230	105	< 2	8	10	< 2	< 0.5	< 0.2	8	< 0.5	594	35	2.6	< 0.2	35.0	< 1	87.3	16	1.6	0.7	2.62	0.23	0.50
1127540	2350	24	14	75	65	7	1.7	0.4	14	19.8	67.7	90	48.4	7.3	12.9	112	20.2	448	30.8	54.1		0.28	0.59
1127541	1440	22	< 2	11	496	< 2	< 0.5	< 0.2	33	0.9	204	9	4.2	1.2	1190	8	13.0	12	1.7	6.8		1.58	3.39

Results

Activation Laboratories Ltd.

Report: A16-11702

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
1127542	2560	35	< 2	5	17	< 2	< 0.5	< 0.2	23	0.6	289	9	0.6	0.5	92.2	< 1	25.8	5	1.7	0.9		0.78	1.67
1127543	3280	44	< 2	12	12	< 2	< 0.5	< 0.2	17	3.1	346	14	< 0.4	< 0.2	66.0	< 1	33.2	7	1.8	1.4		0.72	1.54
1127544	3190	40	< 2	10	15	< 2	< 0.5	< 0.2	27	< 0.5	432	16	0.5	0.2	55.2	< 1	28.2	5	1.7	1.4		0.48	1.03
1127545	1550	21	< 2	13	14	< 2	< 0.5	< 0.2	34	< 0.5	152	8	1.3	< 0.2	27.2	< 1	11.0	< 5	0.6	0.6		0.63	1.36
1127546	2140	27	< 2	< 4	23	< 2	< 0.5	< 0.2	46	< 0.5	283	6	1.6	< 0.2	42.1	1	14.8	< 5	1.0	0.8		0.85	1.82
1127547	1310	17	< 2	11	18	< 2	< 0.5	< 0.2	33	< 0.5	226	13	0.8	1.0	69.6	< 1	8.5	< 5	1.3	0.9		1.69	3.65
1127548	1490	20	< 2	5	26	< 2	< 0.5	< 0.2	25	< 0.5	188	6	7.7	0.5	123	1	10.1	< 5	1.4	1.0		0.11	0.25
1127549	2020	27	< 2	5	35	< 2	< 0.5	< 0.2	42	< 0.5	270	7	4.2	0.3	60.9	3	11.5	< 5	3.6	2.2	2.83	0.93	1.99
1127550	15	13	< 2	24	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	3.0	223	< 0.4	0.6	0.6	< 1	1.3	< 5	0.4	0.2		< 0.01	0.01
1127551	1530	25	< 2	10	51	< 2	< 0.5	< 0.2	33	< 0.5	279	8	6.2	0.8	72.1	3	9.5	< 5	2.2	2.5		1.20	2.59
1127552	1100	23	< 2	12	57	< 2	< 0.5	< 0.2	23	< 0.5	184	7	< 0.4	1.2	114	1	7.7	< 5	3.8	2.7		0.50	1.08
1127553	1410	22	2	12	50	< 2	< 0.5	< 0.2	24	< 0.5	185	30	0.6	1.1	71.7	1	8.3	< 5	2.1	1.4		0.54	1.15
1127554	168	14	< 2	17	51	< 2	< 0.5	< 0.2	4	< 0.5	37.8	10	< 0.4	1.7	174	3	1.6	< 5	3.2	2.3		0.01	0.03
1127555	95	115	17	47	3	< 2	< 0.5	< 0.2	2	1.3	37.2	60	0.7	1.4	0.7	2	1.5	< 5	0.3	0.2		0.05	0.12
1127556	66	125	17	48	2	< 2	< 0.5	< 0.2	1	0.5	26.2	60	< 0.4	1.5	0.4	< 1	1.0	< 5	0.3	0.3		0.05	0.11
1127557	190	92	14	44	2	< 2	< 0.5	< 0.2	1	< 0.5	98.9	67	0.6	1.3	0.2	1	2.0	7	0.3	0.3		0.10	0.22
1127558	197	20	< 2	16	78	< 2	< 0.5	< 0.2	7	< 0.5	130	41	< 0.4	2.0	140	1	1.4	6	6.6	2.8		0.32	0.69
1127559	1780	37	4	45	108	< 2	< 0.5	< 0.2	33	< 0.5	483	22	1.0	4.7	208	2	11.7	13	13.5	9.8	2.73	0.43	0.92
1127560	2100	23	13	80	61	5	1.6	0.3	12	15.4	60.9	91	23.8	6.7	11.2	99	13.7	348	24.8	44.0		0.29	0.61
1127561	617	29	< 2	26	120	< 2	< 0.5	< 0.2	8	0.5	535	16	< 0.4	3.0	189	3	6.6	10	7.5	8.6		0.66	1.42
1127562	430	92	16	45	8	< 2	< 0.5	< 0.2	5	1.2	507	50	2.1	1.4	6.9	< 1	4.2	< 5	0.4	0.6		0.14	0.30
1127563	229	45	4	25	34	< 2	< 0.5	< 0.2	10	1.0	43.9	17	< 0.4	2.9	275	< 1	2.3	18	6.8	12.6		0.02	0.04
1127564	494	84	14	48	6	2	< 0.5	< 0.2	4	1.0	502	49	0.5	1.5	18.0	2	4.4	< 5	0.6	0.8		0.09	0.20
1127565	984	102	15	54	4	7	< 0.5	< 0.2	3	0.8	428	223	0.8	1.6	1.9	< 1	9.2	30	0.7	0.6		0.13	0.27
1127566	1250	23	< 2	27	83	< 2	< 0.5	< 0.2	21	< 0.5	222	12	7.4	4.3	243	2	9.4	8	6.6	6.3		1.12	2.41
1127567	2250	30	< 2	42	211	< 2	< 0.5	< 0.2	42	0.9	316	8	< 0.4	6.6	453	4	14.8	17	19.2	20.3		1.35	2.92
1127568	1010	17	3	52	374	< 2	< 0.5	< 0.2	23	< 0.5	214	11	< 0.4	6.7	592	4	6.4	29	19.7	20.3		1.74	3.75
1127569	893	17	< 2	15	69	< 2	< 0.5	< 0.2	18	< 0.5	231	12	< 0.4	1.5	123	2	8.2	11	6.7	12.8	2.74	0.73	1.57
1127570	4	7	< 2	16	3	< 2	< 0.5	< 0.2	< 1	< 0.5	0.9	126	< 0.4	0.5	2.1	< 1	1.0	< 5	0.3	0.4		< 0.01	0.01
1127571	1000	20	< 2	35	72	< 2	< 0.5	< 0.2	15	< 0.5	156	6	< 0.4	3.4	230	3	6.0	6	5.6	6.5		0.06	0.12
1127572	907	23	< 2	15	74	< 2	< 0.5	< 0.2	18	< 0.5	239	11	1.0	2.2	132	2	6.2	7	3.7	5.7		0.37	0.80
1127573	1330	187	15	41	4	< 2	< 0.5	< 0.2	4	1.3	3640	85	1.0	1.4	5.7	1	13.0	< 5	0.4	0.8		0.29	0.63
1127574	102	108	15	43	3	< 2	< 0.5	< 0.2	< 1	1.1	97.6	44	< 0.4	1.2	1.0	< 1	2.5	< 5	0.3	0.2		0.07	0.15
1127575	119	27	< 2	9	72	< 2	< 0.5	< 0.2	20	< 0.5	42.4	16	0.7	0.9	200	2	1.3	< 5	2.8	1.6		0.01	0.03
1127576	214	29	2	32	67	< 2	< 0.5	< 0.2	16	< 0.5	53.3	21	0.9	1.3	122	2	1.8	< 5	2.2	1.5		0.01	0.03
1127577	54	109	15	41	2	< 2	< 0.5	< 0.2	< 1	0.5	9.4	51	< 0.4	1.2	0.5	< 1	0.5	< 5	0.2	< 0.1		0.06	0.13
1127578	5770	77	< 2	8	6	< 2	< 0.5	< 0.2	11	< 0.5	565	19	2.1	< 0.2	17.6	< 1	62.7	10	1.5	0.6		0.48	1.03
1127579	2470	34	2	< 4	15	< 2	< 0.5	< 0.2	32	< 0.5	420	16	2.6	0.3	52.7	1	27.2	< 5	0.8	0.8	2.70	0.45	0.97
1127580	2070	23	13	80	66	6	1.9	0.3	12	18.3	61.1	89	41.4	6.9	11.4	102	16.4	405	25.3	45.1		0.28	0.60
1127581	2600	36	< 2	6	14	< 2	< 0.5	< 0.2	21	< 0.5	354	10	1.7	1.0	74.9	1	28.0	< 5	1.9	0.9		0.64	1.38
1127582	1820	26	< 2	6	29	< 2	< 0.5	< 0.2	51	< 0.5	203	10	1.8	0.6	105	2	14.9	< 5	6.0	1.2		1.48	3.19

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
1127583	1010	20	3	5	15	< 2	< 0.5	< 0.2	45	0.5	178	9	24.3	0.3	101	1	8.6	5	3.6	2.5		1.54	3.31
1127584	1680	23	< 2	9	24	< 2	< 0.5	< 0.2	23	0.7	436	12	15.8	0.8	166	< 1	14.8	6	2.0	1.4		1.05	2.27
1127585	2110	29	< 2	< 4	38	< 2	< 0.5	< 0.2	23	1.0	991	8	9.9	0.3	237	< 1	23.7	9	0.6	0.9		1.43	3.08
1127586	927	28	< 2	< 4	132	< 2	< 0.5	< 0.2	34	0.5	514	11	7.0	0.6	923	3	9.2	8	2.8	4.1		1.91	4.11
1127587	394	8	< 2	5	11	< 2	< 0.5	< 0.2	38	< 0.5	149	5	6.2	0.3	56.8	< 1	4.3	< 5	1.5	0.9		2.18	4.69
1127588	317	29	< 2	7	96	< 2	< 0.5	< 0.2	40	0.8	283	13	1.4	0.6	800	1	3.2	8	144	7.9		1.71	3.68
1127589	370	11	< 2	13	448	< 2	< 0.5	< 0.2	30	1.0	110	24	9.6	2.5	3720	5	3.3	10	30.5	9.2	2.78	0.99	2.14
1127590	10	7	< 2	26	3	< 2	< 0.5	< 0.2	< 1	< 0.5	4.2	87	< 0.4	0.7	4.1	< 1	0.5	< 5	5.4	0.2		< 0.01	0.02
1127591	852	16	< 2	6	23	< 2	< 0.5	< 0.2	33	< 0.5	402	14	3.3	0.7	118	< 1	5.2	< 5	4.1	2.7		1.50	3.22
1127592	1740	23	< 2	12	61	< 2	< 0.5	< 0.2	32	< 0.5	792	11	5.3	1.9	256	2	11.8	7	13.6	6.2		1.00	2.14
1127593	1550	19	< 2	< 4	10	< 2	< 0.5	< 0.2	32	< 0.5	366	6	0.4	0.4	57.3	< 1	11.7	< 5	1.8	2.7		1.30	2.80
1127594	1460	21	< 2	< 4	21	< 2	< 0.5	< 0.2	22	< 0.5	373	7	1.2	0.5	134	2	10.5	< 5	3.2	7.0		0.25	0.55
1127595	2230	31	< 2	14	38	< 2	< 0.5	< 0.2	35	< 0.5	448	11	0.5	2.9	198	2	15.7	< 5	5.1	3.6		0.30	0.65
1127596	1780	28	< 2	11	34	< 2	< 0.5	< 0.2	28	0.6	347	12	0.5	1.8	202	2	13.4	< 5	7.8	4.3		0.29	0.62
1127597	2390	33	< 2	12	62	< 2	< 0.5	< 0.2	42	< 0.5	425	12	1.7	1.7	267	3	14.5	< 5	9.0	2.3		0.78	1.69
1127598	1660	25	< 2	13	48	< 2	< 0.5	< 0.2	31	< 0.5	349	16	1.9	2.2	203	2	12.1	8	7.1	3.5		0.48	1.03
1127599	890	45	5	24	92	< 2	< 0.5	< 0.2	17	1.2	244	36	2.8	1.6	120	3	7.4	8	4.4	5.9	2.77	0.21	0.46
1127600	2140	24	15	70	68	5	1.4	0.3	12	17.1	62.3	90	40.1	6.3	11.5	115	14.2	383	24.9	45.6		0.28	0.59

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01		1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.07	1.90	0.74	0.010	0.34	42.90	0.86	0.55	0.120	30.17					1608								
NIST 694 Cert	11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2					1740								
DNC-1 Meas	46.49	18.27	9.84	0.150	9.96	11.44	1.90	0.22	0.480	0.08			31		150	280	58	250	100	70	15		
DNC-1 Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070			31		148	270	57	247	100	70	15		
GBW 07113 Meas	71.63	12.75	3.19	0.140	0.14	0.60	2.44	5.38	0.280	0.05			5	4	6								
GBW 07113 Cert	72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500			5.00	4.00	5.00								
LKSD-3 Meas																90	31	50	30	150			25
LKSD-3 Cert																87.0	30.0	47.0	35.0	152			27.0
TDB-1 Meas																250			340	160			
TDB-1 Cert																251			323	155			
W-2a Meas	53.27	15.04	10.70	0.170	6.17	11.08	2.23	0.62	1.090	0.15			36	< 1	269	90	43	70	110	80	19	2	
W-2a Cert	52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130			36.0	1.30	262	92.0	43.0	70.0	110	80.0	17.0	1.00	
SY-4 Meas	49.78	20.84	6.20	0.110	0.50	8.02	6.91	1.69	0.290	0.13			1	3	7								
SY-4 Cert	49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131			1.1	2.6	8.0								
CTA-AC-1 Meas																			50	40			
CTA-AC-1 Cert																			54.0	38.0			
BIR-1a Meas	48.37	15.86	11.34	0.170	9.52	13.53	1.82	0.02	0.990	0.02			44	< 1	328	390	54	170	130	70	17		
BIR-1a Cert	47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021			44	0.58	310	370	52	170	125	70	16		
ZW-C Meas																				1060	98		
ZW-C Cert																				1050.0	99		
NCS DC70009 (GBW07241) Meas																	4	< 20	960	100	17	11	66
NCS DC70009 (GBW07241) Cert																	3.7	2.8	960	100	16.5	11.2	69.9
OREAS 100a (Fusion) Meas																	17		170				
OREAS 100a (Fusion) Cert																	18.1		169				
OREAS 101a (Fusion) Meas																	47		420				
OREAS 101a (Fusion) Cert																	48.8		434				
OREAS 101b (Fusion) Meas																	45		430				
OREAS 101b (Fusion) Cert																	47		416				
JR-1 Meas																		< 20		30	17	2	15
JR-1 Cert																		1.67		30.6	16.1	1.88	16.3
NCS DC86304 Meas																							
NCS DC86304																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Cert																							
NCS DC86304 Meas																							
NCS DC86304 Cert																							
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NCS DC86314 Meas																							
NCS DC86314 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
USZ 28-99 Meas																							
USZ 28-99 Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Cert																							
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							
1127507 Orig																							
1127507 Dup																							
1127515 Orig	48.72	15.10	12.45	0.484	7.68	11.18	1.64	0.54	0.841	0.08	1.60	100.3	47	10	292	270	48	120	160	210	16	3	< 5
1127515 Dup	49.18	15.15	12.43	0.477	7.55	11.32	1.64	0.55	0.839	0.09	1.60	100.8	47	10	292	270	49	120	160	220	17	3	< 5
1127529 Orig																							
1127529 Dup																							
1127532 Orig	42.71	13.95	13.14	0.770	6.01	18.12	0.89	0.30	0.790	0.06	4.00	100.7	43	3	279	260	45	120	60	110	16	3	< 5
1127532 Dup	42.74	13.96	12.95	0.769	5.85	18.18	0.86	0.30	0.816	0.06	4.00	100.5	44	3	271	270	47	130	60	110	16	3	< 5
1127537 Orig																							
1127537 Dup																							
1127549 Orig																50	< 1	< 20	< 10	130	61	7	< 5
1127549 Split PREP DUP	77.15	14.41	1.47	0.228	0.09	1.52	2.00	1.35	0.017	1.10	0.80	100.1	< 1	266	< 5	50	< 1	< 20	< 10	120	58	6	9
1127551 Orig																							
1127551 Dup																							
1127559 Orig																							
1127559 Dup																							
1127563 Orig	58.92	19.46	2.10	0.076	0.81	5.42	8.76	0.27	0.091	2.24	1.56	99.69	4	167	30	60	6	30	30	70	42	6	< 5
1127563 Dup	59.67	19.19	2.09	0.076	0.82	5.53	8.91	0.28	0.089	2.28	1.56	100.5	4	172	30	60	6	20	20	60	38	6	< 5
1127573 Orig																							
1127573 Dup																							
1127581 Orig	80.72	12.01	0.92	0.055	0.05	0.16	1.71	2.85	0.005	0.13	0.29	98.91	< 1	151	< 5	60	< 1	< 20	< 10	40	34	6	< 5
1127581 Dup	80.11	12.23	0.92	0.055	0.05	0.16	1.72	2.85	0.005	0.13	0.29	98.53	< 1	153	< 5	50	< 1	< 20	< 10	40	34	6	< 5
1127595 Orig																							
1127595 Dup																							
1127599 Orig	71.74	13.39	3.49	0.128	1.13	3.33	3.75	0.90	0.216	0.38	1.09	99.54	10	150	76	100	12	40	50	70	33	5	< 5
1127599 Split PREP DUP	71.05	13.24	3.38	0.125	1.14	3.24	3.79	0.90	0.212	0.39	1.08	98.55	11	151	77	110	13	40	50	80	35	4	6
1127599 Orig	71.64	13.29	3.46	0.127	1.12	3.30	3.73	0.90	0.214	0.38	1.09	99.25	10	150	76	100	12	40	50	70	32	4	6
1127599 Dup	71.84	13.49	3.53	0.129	1.13	3.36	3.76	0.90	0.218	0.37	1.09	99.82	10	150	76	100	12	40	50	70	33	5	< 5
Method Blank																< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
Method Blank																							
Method Blank																							

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
NIST 694 Meas																							
NIST 694 Cert																							
DNC-1 Meas		143	15	38								106											
DNC-1 Cert		144.0	18.0	38								118											
GBW 07113 Meas		40	45	381								496											
GBW 07113 Cert		43.0	43.0	403								506											
LKSD-3 Meas	76					< 2	2.5		2		2.3			4.3	0.7				10.7	4.6			
LKSD-3 Cert	78.0					2.00	2.70		3.00		2.30			4.80	0.700				11.4	4.60			
TDB-1 Meas	21																						
TDB-1 Cert	23																						
W-2a Meas	20	196	19	86		< 2						176	< 0.4	2.5	0.5	< 1	< 0.1		2.2	0.5			
W-2a Cert	21.0	190	24.0	94.0		0.600						182	0.0300	2.60	0.500	0.300	0.200		2.40	0.530			
SY-4 Meas		1198	117	548								345											
SY-4 Cert		1191	119	517								340											
CTA-AC-1 Meas															2.8						4.2		
CTA-AC-1 Cert															2.65						4.4		
BIR-1a Meas		108	14	15								9		0.6									
BIR-1a Cert		110	16	18								6		0.60									
ZW-C Meas	8850				203						262				85.9	331	33.7						
ZW-C Cert	8500				198						260				82	320	34						
NCS DC70009 (GBW07241) Meas	514						1.7	1.0		3.0	41.1					2160	1.9		29.7				
NCS DC70009 (GBW07241) Cert	500						1.8	1.3		3.1	41					2200	1.8		28.3				
OREAS 100a (Fusion) Meas						25													52.7	142			
OREAS 100a (Fusion) Cert						24.1													51.6	135			
OREAS 101a (Fusion) Meas						20													36.7	437			
OREAS 101a (Fusion) Cert						21.9													36.6	422			
OREAS 101b (Fusion) Meas						20													38.7	432			
OREAS 101b (Fusion) Cert						20.9													37.1	396			
JR-1 Meas	254				15	3		< 0.2	3	1.2	20.2		0.5	4.3	2.0		1.4	21	27.1	9.1			
JR-1 Cert	257				15.2	3.25		0.028	2.86	1.19	20.8		0.56	4.51	1.86		1.56	19.3	26.7	8.88			
NCS DC86304 Meas																						1.03	2.22
NCS DC86304 Cert																						1.06	2.29

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O	
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	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2	
NCS DC86304 Meas																							1.11	2.39
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.03	2.21
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.04	2.24
NCS DC86304 Cert																							1.06	2.29
NCS DC86304 Meas																							1.06	2.27
NCS DC86304 Cert																							1.06	2.29
NCS DC86314 Meas																							1.81	3.90
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.78	3.84
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.76	3.78
NCS DC86314 Cert																							1.81	3.89
NCS DC86314 Meas																							1.78	3.84
NCS DC86314 Cert																							1.81	3.89
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
USZ 28-99 Meas																							0.18	
USZ 28-99 Cert																							0.173	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							7.84	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O	
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	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.59	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							7.73	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							7.87	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.43	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.03	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.14	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	-	%	%
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.50	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
1127507 Orig																						0.03	0.07
1127507 Dup																						0.03	0.07
1127515 Orig	122	112	17	46	< 1	4	< 0.5	< 0.2	1	1.5	109	64	0.5	1.4	0.6	< 1	1.6	21	0.3	0.3		0.13	0.29
1127515 Dup	126	113	17	46	< 1	4	< 0.5	< 0.2	1	1.4	112	63	0.4	1.3	0.4	< 1	1.4	21	0.3	0.2		0.13	0.29
1127529 Orig																						0.02	0.05
1127529 Dup																						0.02	0.05
1127532 Orig	31	79	16	48	< 1	< 2	< 0.5	< 0.2	< 1	1.0	12.2	56	2.5	1.3	0.3	1	0.6	13	0.3	0.4			
1127532 Dup	32	79	16	44	< 1	< 2	< 0.5	< 0.2	< 1	1.0	13.1	54	1.9	1.3	0.3	3	0.4	13	0.3	0.3			
1127537 Orig																						0.07	0.15
1127537 Dup																						0.07	0.14
1127549 Orig	2020				35	< 2	< 0.5	< 0.2	42	< 0.5	270		4.2	0.3	60.9	3	11.5	< 5	3.6	2.2		0.93	1.99
1127549 Split PREP DUP	1800	24	3	5	46	< 2	< 0.5	< 0.2	41	0.8	288	6	4.6	0.4	68.6	3	12.8	< 5	5.2	2.4		0.89	1.91
1127551 Orig																						1.19	2.56
1127551 Dup																						1.21	2.61
1127559 Orig																						0.42	0.91
1127559 Dup																						0.43	0.93
1127563 Orig	242	46	4	26	36	< 2	< 0.5	< 0.2	10	1.2	46.6	18	< 0.4	2.9	290	1	2.7	19	7.4	13.3			
1127563 Dup	216	44	4	24	32	< 2	< 0.5	< 0.2	9	0.7	41.3	17	< 0.4	2.9	261	< 1	2.0	16	6.1	11.9			
1127573 Orig																						0.29	0.63
1127573 Dup																						0.29	0.63
1127581 Orig	2620	36	< 2	5	14	< 2	< 0.5	< 0.2	24	< 0.5	356	10	1.1	0.8	72.8	1	27.1	< 5	1.9	0.9		0.63	1.37
1127581 Dup	2580	36	< 2	7	13	< 2	< 0.5	< 0.2	18	< 0.5	351	10	2.2	1.1	77.1	1	28.9	5	1.9	1.0		0.65	1.40
1127595 Orig																						0.30	0.65
1127595 Dup																						0.30	0.65
1127599 Orig	890	45	5	24	92	< 2	< 0.5	< 0.2	17	1.2	244	36	2.8	1.6	120	3	7.4	8	4.4	5.9		0.21	0.46
1127599 Split PREP DUP	909	44	4	21	86	< 2	< 0.5	< 0.2	17	1.4	252	36	2.1	1.6	128	2	7.8	8	4.8	6.5		0.22	0.47
1127599 Orig	881	45	5	23	91	< 2	< 0.5	< 0.2	17	1.1	240	36	2.5	1.6	123	2	7.4	8	4.4	6.0	2.78		
1127599 Dup	899	45	5	24	93	< 2	< 0.5	< 0.2	17	1.2	249	36	3.0	1.6	118	4	7.4	8	4.3	5.9	2.77		
Method Blank	< 2				< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5		< 0.4	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1			
Method Blank																						< 0.01	< 0.01
Method Blank																						< 0.01	< 0.01
Method Blank																						< 0.01	< 0.01

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Spec Grav	Li	Li2O	
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	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.2	0.1	1	0.1	5	0.1	0.1	0.01	0.01	0.01	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	GRAV	FUS-Na2O2	FUS-Na2O2	
Method Blank																						< 0.01	< 0.01	
Method Blank																						< 0.01		
Method Blank																						< 0.01		

Appendix III: Drill Logs

GEOLOGICAL CORE LOG

SL-16-63

Page 1 of 1

CLAIM NUMBER: 1245661		DISTRICT OF THUNDER BAY	
PROJECT: SEYMOUR LAKE		DATE LOGGED: 13/11/2016	
PROSPECT: NORTH AUBRY		LOGGED BY: Dan Courtney	
DRILL CONTRACTOR: Rugged Aviation Ltd		DATE DRILLED: /11/2016	
GPS COLLAR COORDINATES: UTM NAD 83 Zone 16		AZIMUTH: 270°	
EASTING: 396993.74	NORTHING: 5585166.88	ELEVATION: 399m	DIP: -60°



Depth From (m)	Depth To (m)	Oxidation state	Lithology	Lithology texture	Colour	Foliation TCA	Alteration 1	Alteration 2	Alteration 3	Alteration style	Mineral 1	Mineral 2	Mineral 3	Contact TCA	Pegmatite Zone	Comments
0.00	1.16															Overburden, no recovery
1.16	2.50	FRS	GDB	MA	BK											Vfgr Massive Diabase dyke; Aphanitic blk, homogenous and featureless. Somewhat irregular lower contact
2.50	30.00	FRS	VBA	MA	GY BK		CA	EP		DI VN	PO			65°		Fgr mafic volcanic; Generally very massive and Vfgr -locally becoming near mgr. Possible fine calcite throughout. 2-4% Calc +/- Qtz veining as fract fill or irregular veins. Local patchy epidote. Weak to moderate fracturing often with oxide coatings. 16.9 to 17.8 tectonic breccia Calc + lesser Qtz matrix infill. 23.55-23.6 Massive PO. Sharp LC
30.00	30.94	FRS	GPE	MA	WH						SPOD	Nb/Ta	FL AP	45°	8	Pegmatite, massive; mgr to vcgr white Kspar, 5-8% Spodumene Cgr light grn - with common Musc inclusions. 25-30% gry Qtz, 10-15% silver grn MU. <1 fgr blk amorphous Nb/Ta oxides. Possible grn blue Flour-apatite? slightly irregular lower contact.
30.94	33.82	FRS	VBA	MA	BK GY		CA	EP		DI VN PE						Fgr phaneritic mafic volcanic; Generally massive with irregular veining producing local fabrics. Possible fgr calc flecked throughout. Very irregular often coarse Calc/Qtz +/- epid veining. Hble -amph rich. Very irregular lower contact -injected.
33.82	34.40	FRS	GPE	MA	WH GY							Nb/Ta	FL AP	80°	2	Pegmatite, massive; No spod . Dominantly fgr sugary albite or poorly developed cleavelandite. 15-20% gry Qtz, minor fgr mgr silver grn MU. <1% blue Flour-apatite and traces of vfgr to fgr blk Nb/Ta oxides. Very sharp slightly wavy lower contact @ 80deg TCA (no orientation line due to broken core).
34.40	36.88	FRS	VBA	MA	BK GY		CA	EP		DI VN PE				40°		Fgr phaneritic mafic volcanic; Generally massive. Possible fgr calc flecked throughout. Very irregular often coarse Calc/Qtz +/- epid veining or as patchy alteration. Hble -amph rich. Sharp lower contact but orientation line not possible - broken core
36.88	37.60	FRS	GPO	MA	GY									-28°		Fgr Massive Fsp Porphyry; Intermediate composition. Mm subhedral plag fsp phenos, biotite mafic component (10%). Hard competent. Very irregular lower contact with Pegmatite is crudely at 28deg TCA.
37.60	44.98	FRS	GPE	MA	WH GY						SPOD	Nb/Ta	FL AP		8	Pegmatite, Massive; 5 to 8% Spodumene -quite variable, mostly lt grn but locally white also. Vcgr white commonly perthitic Kspar, 35-50% gry Qtz. 10-15% silver grn or dk grn MU. Localized fgr accessory blue-grn Flour-Apatite and vfgr blk Nb/Ta oxides <= 1%.
44.98	46.83	FRS	GPE	MA	WH GY						SPOD	Nb/Ta	FL AP	85°	2	Pegmatite, massive; ~1% Spodumene which is mostly altered and somewhat oxidized . Dominantly Fgr sugary albite locally as poorly developed cleavelandite. Traces of fgr bluish Fl-Apatite and also <1% vfgr blk Nb/Ta oxides. (46.1 to 46.5 is a nested unit of zone 6 with Vcgr white, perthitic Kspar), 10% Qtz, 3% MU and 1-3% altered spodumene. Lower contact is oxidized and clay rich (no orientation line) but nearly 90deg TCA.
44.98	85.18	FRS	GAB	MA	BK		CA			PE				47°		Fgr mafic volcanic, possibly intrusive (gabbro) as material is very homogenous and featureless. Possible very weak calc alt'n? <1% very fine Qtz/calc veining. Mostly very competent, strongly fractured from 75.25 to 77.75. fairly sharp lower contact.
85.18	85.71	FRS	GPE	MA	WH						SPOD		FL AP		6	Pegmatite, Megacrysts of white weakly perthitic Kspar. 4% interstitial gry Qtz, 2-5% mgr very grn MU, 2, 4cm xtals of vey lt grn SPOD observed . Traces of vfgr bluish Fl-AP.

GEOLOGICAL CORE LOG

SL-16-65

Page 1 of 1

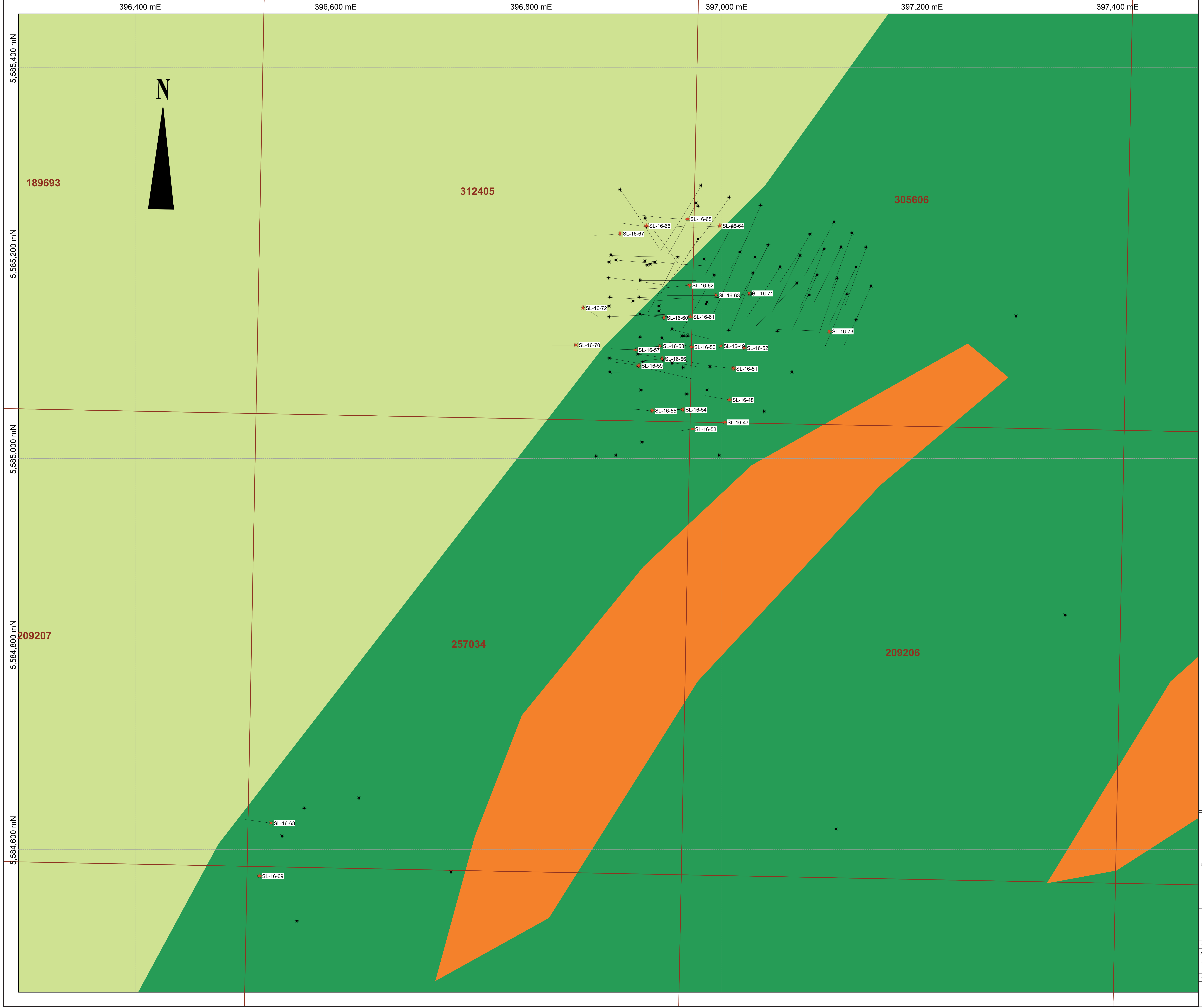
CLAIM NUMBER: 1245661 DISTRICT of THUNDER BAY

PROJECT: SEYMOUR LAKE	DATE LOGGED: 17/11/2016	DEPTH: 101.0m
PROSPECT: NORTH AUBRY	LOGGED BY: Dan Courtney, Brent Clark	
DRILL CONTRACTOR: Rugged Aviation Ltd	DATE DRILLED: 12/11/2016	
GPS COLLAR COORDINATES: UTM NAD 83 Zone 16		AZIMUTH: 270°
EASTING: 396965.40	NORTHING: 5585244.54	ELEVATION: 396m
		DIP: -60°

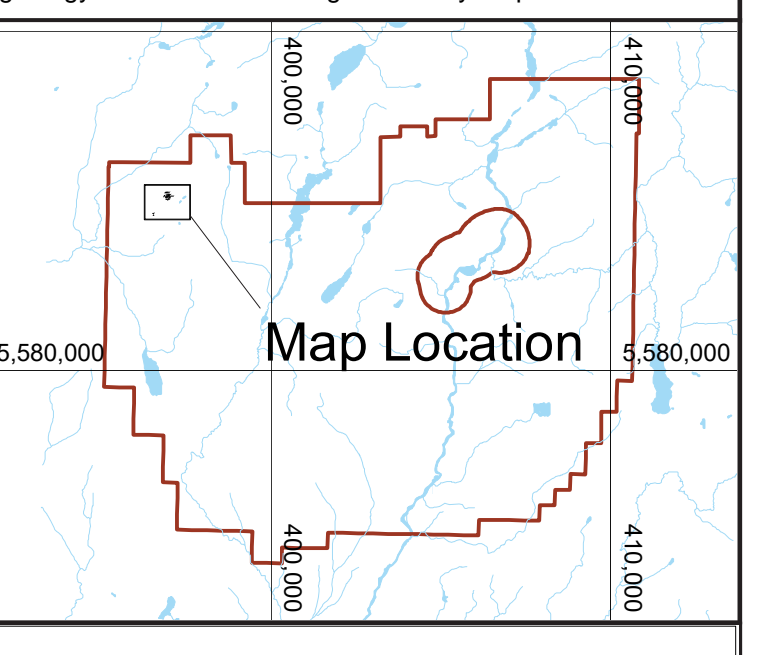


Depth From (m)	Depth To (m)	Oxidation state	Lithology	Lithology texture	Colour	Foliation TCA	Alteration 1	Alteration 2	Alteration 3	Alteration style	Mineral 1	Mineral 2	Mineral 3	Contact TCA	Pegmatite Zone	Comments
0.00	1.46															Overburden, no core recovered
1.46	2.72	FR	VBA	MA	GY, BK, GN		CA			DI						Fgr mafic volcanic, generally massive with irregular qtz/calc +/- ep veining along pillow selvages(?). Sharp lower contact with GDB. Trace disseminated py.
2.72	3.74	FR	GDB	MA, AP	BK, MV									20		vfg aphanitic diabase dyke, Black, homogenous and featureless, magnetic, chilled margins with sharp upper and lower contacts.
3.74	10.08	FR	VBA	MA	GY, GN		CA			SV						fgr mafic volcanic, generally massive with irregular qtz/calc +/- ep veining along pillow selvages(?). Sharp lower contact.
10.08	12.73	FR	GDB	MA	GY		CA			DI				35		fg-mg volcanic, generally massive, increase in grain size moving from contacts. Amph (hbl), ep(?). Weak CA alt occurring as veins. Sharp contacts w/ chilled margins.
12.73	27.32	FR	VBA	MA, PI	GY, GN, BK		CA			SV						Fgr mafic volcanic, generally massive with irregular calc/qtz veins along pillow selvages. Amph (hbl) 5-10%, alt halos surrounding calc/qtz veins (ep, chl(?), hbl). Trace disseminated py, pr. Locally weakly magnetic.
27.32	44.60	FR	VBA	MA, PI	BK, GN, GY		CA			SV						Fgr-Mg mafic volcanic(?); generally massive; weak foliation(?), pillow selvages(?), more evident along alteration halos. Alt'n halos contain qtz/calc-bt-chl-amph +/- gnt(?), Amph (5-7%), disseminated py/pr. Dissuse upper contact, lower contact cly altered with qtz/calc vein-network.
44.60	46.10	FR	VTU	LM	GY, MV		CA			DI				35-40		fg laminated volcanic tuff; calc/qtz, hem, gn(almandine?), along laminations. Sharp upper and lower contacts with cb veinlets/cly alt.
46.10	63.09	FR	VBA	MA	BK-GY, GN	55	CA			VN						Fgr-mg mafic volcanic; generally massive with local weak foliation. Calc/qtz veining +/- act, ep, fb(?). Amph (hbl/Act) 7-10%. Sharp lower contact with GPE
63.09	63.50	FR	GPE	MA	CR, BR, WH							Nb/Ta	FB	2		No SPOD. Pegmatite Cgr muscovite outer(upper/lower) rims with internal 'zone' of fgr albite, qtz, clevelandite
63.50	64.84	FR	VBA	MA	GY, BK, GN		CA			DI						Fgr mafic volcanic; generally massive with local pseudo-laminations(?). Qtz/calc +/- gn(?). Disseminated py. Sharp lower contact with GPE
64.84	65.36	FR	GPE	MA	BR, GY, CR							Nb/Ta	FB	35	4	No SPOD. Pegmatite , Vgr muscovite (~50%), trace Nb/Ta oxides, clevelandite(?). Sharp upper contact, broken lower contact.
65.36	76.87	FR	VBA	MA	GY, BK, GN	35										Fgr-mgr mafic volcanic, generally massive; locally weakly. Ca/qtz veins +/- chl, ep(?). Local cly alt msc veins or selvages.

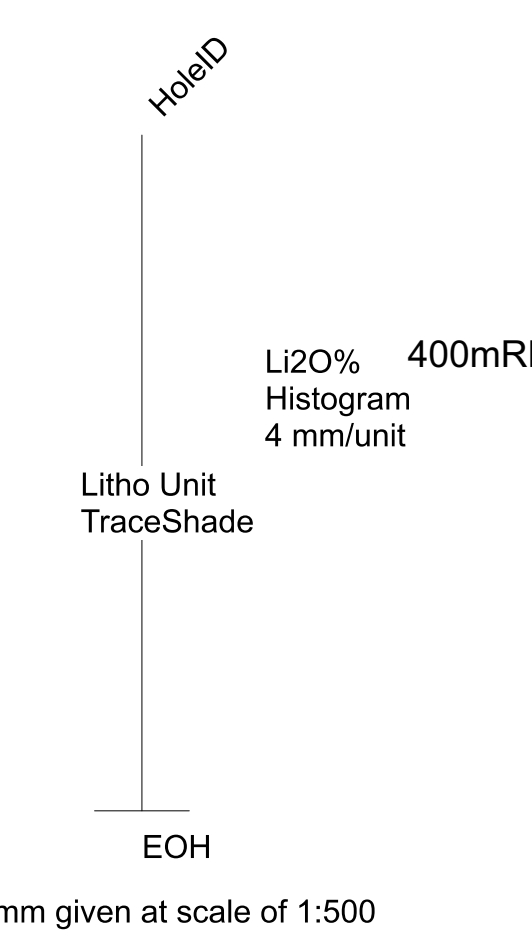
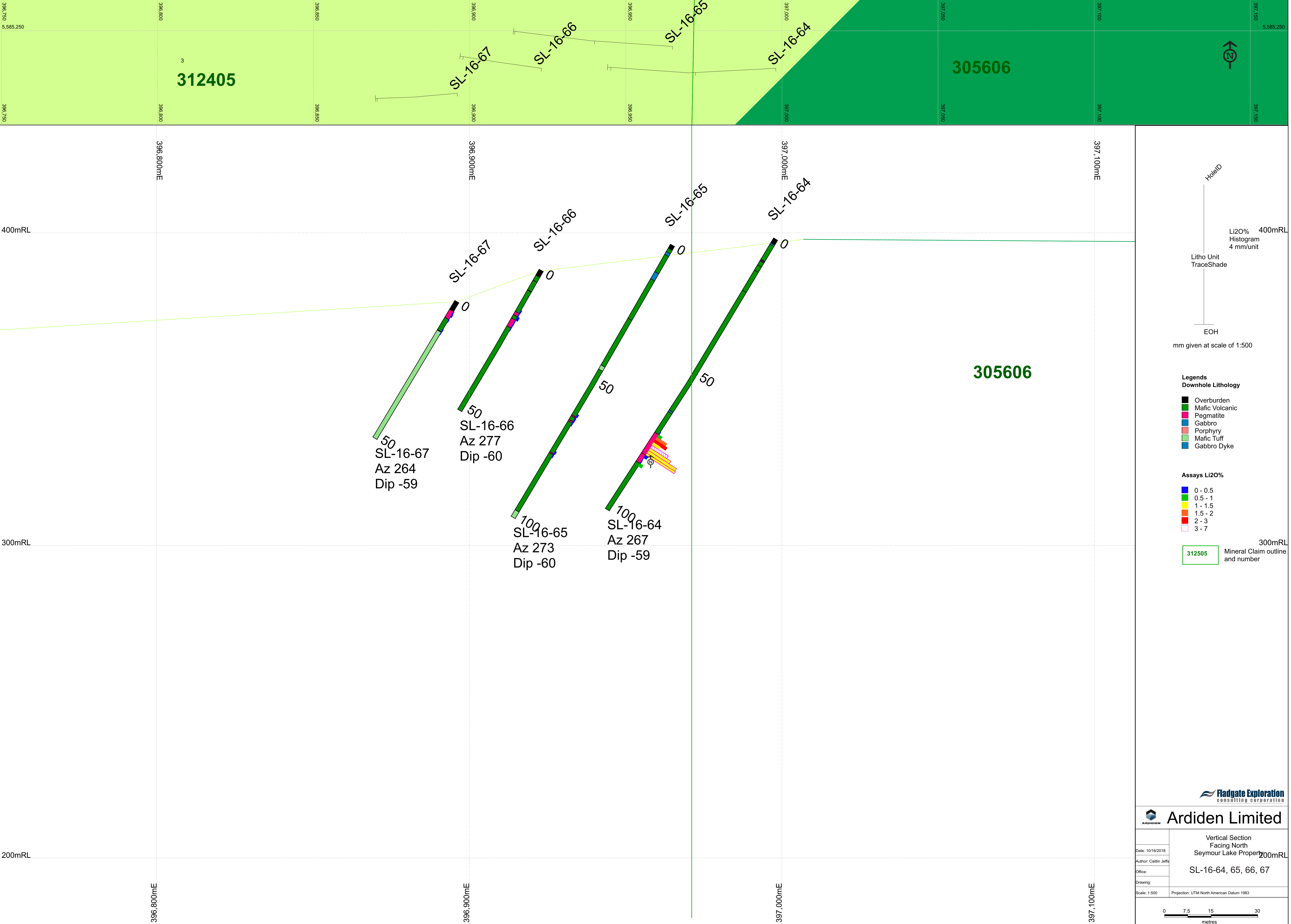
Appendix IV: Drill Vertical Sections



- Legend**
- Lithology**
 - Mafic Volcanic
 - Diabase
 - Intermediate to Mafic Volcanics
 - Mineral Claim and Number
 - Lake
 - Seymour Lake Property Boundary
 - River or Stream
 - 50' Elevation Contour
 - 2016 Drill Collar
 - Historic Drill Collar
 - Drill Hole Trace



Ardiden Limited	
Date: 10/17/2018	Seymour Lake Fall 2016 Diamond Drill Plan
Author: Caitie Jeffs	Office:
Drawing:	Scale: 1:250 Projection: UTM Zone 18 (NAD 83)



Legends
Downhole Lithology

- Overburden
- Mafic Volcanic
- Pegmatite
- Gabbro
- Porphyry
- Mafic Tuff
- Gabbro Dyke

Assays Li₂O%

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 7

312505 Mineral Claim outline and number

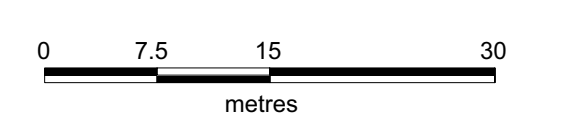


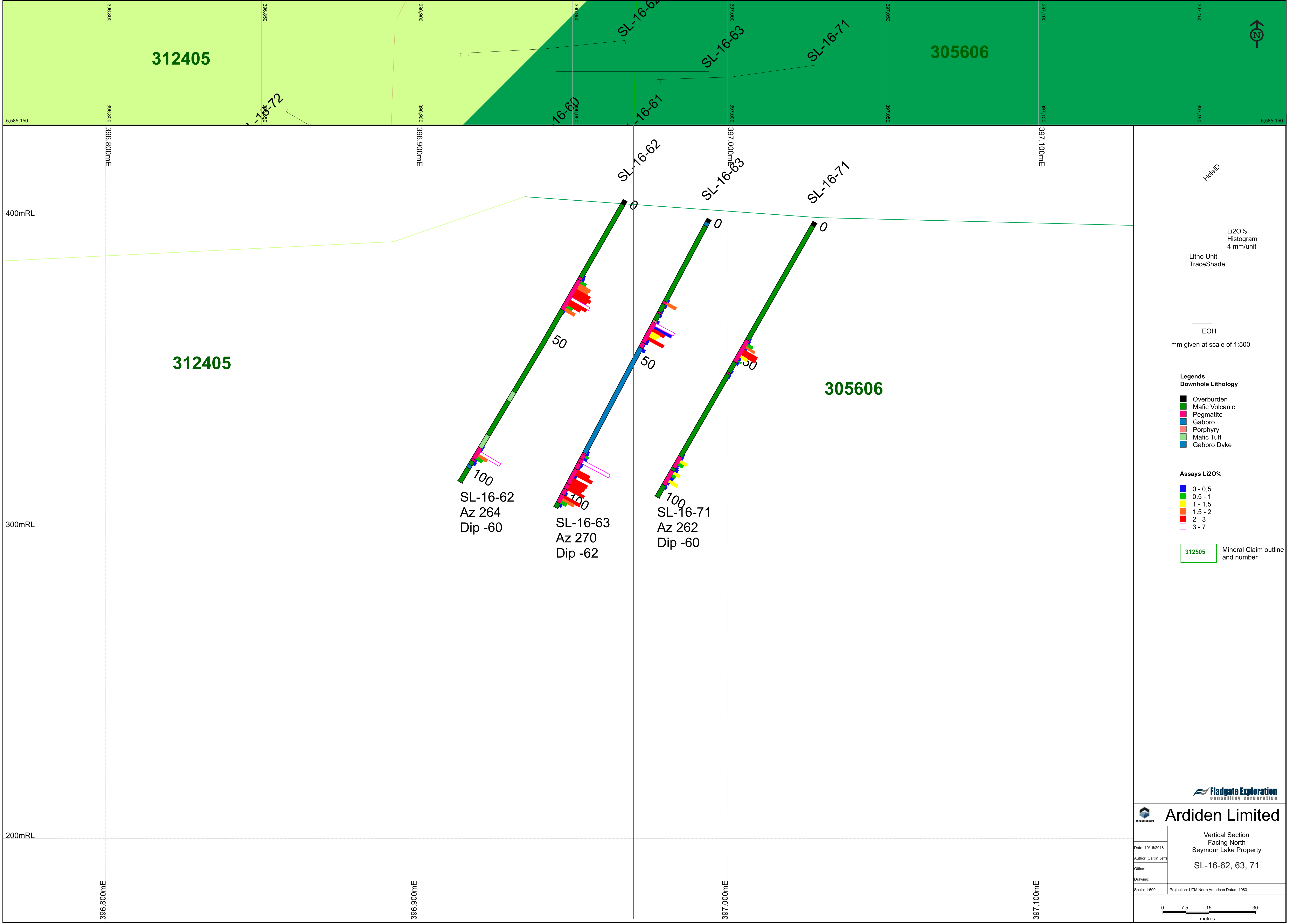
Ardiden Limited

Vertical Section
Facing North
Seymour Lake Property
SL-16-64, 65, 66, 67

Date: 10/16/2018
Author: Caitlin Jeffs
Office:
Drawing:

Scale: 1:500 Projection: UTM North American Datum 1983





HoleID
 Li2O% Histogram
 4 mm/unit
 Litho Unit TraceShade
 EOH
 mm given at scale of 1:500

- Legends**
- Downhole Lithology**
- Overburden
 - Mafic Volcanic
 - Pegmatite
 - Gabbro
 - Porphyry
 - Mafic Tuff
 - Gabbro Dyke
- Assays Li2O%**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - 1.5 - 2
 - 2 - 3
 - 3 - 7
- 312505 Mineral Claim outline and number

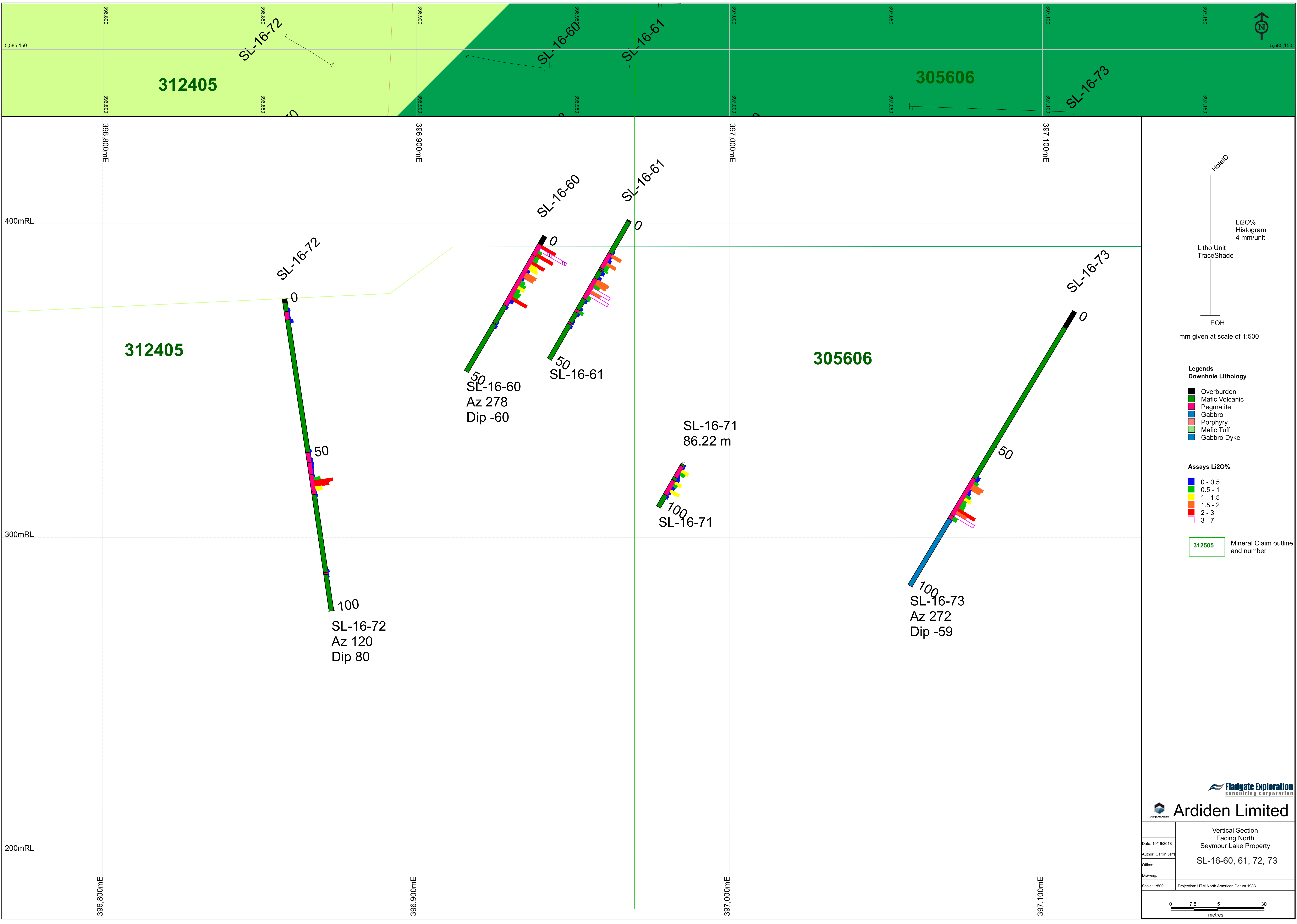


Ardiden Limited

Vertical Section
 Facing North
 Seymour Lake Property
 SL-16-62, 63, 71

Date: 10/16/2018
 Author: Caitlin Jeffs
 Office:
 Drawing:
 Scale: 1:500
 Projection: UTM North American Datum 1983





HoleID
 Li2O% Histogram
 4 mm/unit
 Litho Unit TraceShade
 EOH
 mm given at scale of 1:500

Legends

- Downhole Lithology**
- Overburden
 - Mafic Volcanic
 - Pegmatite
 - Gabbro
 - Porphyry
 - Mafic Tuff
 - Gabbro Dyke

Assays Li2O%

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 7

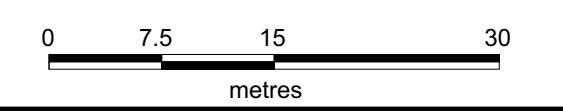
312505 Mineral Claim outline and number



Ardiden Limited

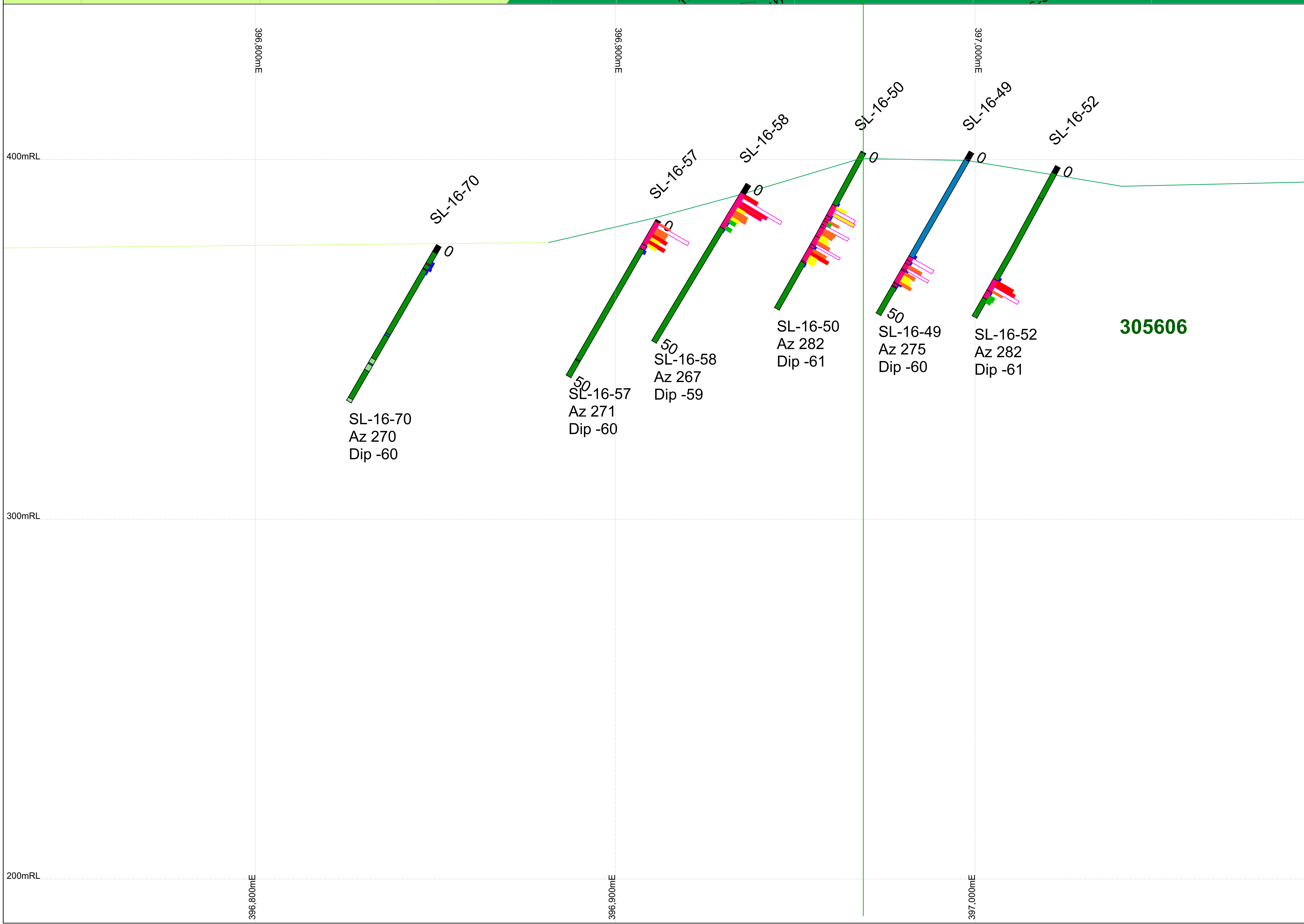
Vertical Section
 Facing North
 Seymour Lake Property
 SL-16-60, 61, 72, 73

Date: 10/16/2018
 Author: Caitlin Jeffs
 Office:
 Drawing:
 Scale: 1:500
 Projection: UTM North American Datum 1983



312405

305606



SL-16-70
Az 270
Dip -60

SL-16-57
Az 271
Dip -60

SL-16-58
Az 267
Dip -59

SL-16-50
Az 282
Dip -61

SL-16-49
Az 275
Dip -60

SL-16-52
Az 282
Dip -61

305606

HoleID
Litho Unit TraceShade
Li2O% Histogram 4 mm/unit
EOH
mm given at scale of 1:500

- Legends**
Downhole Lithology
- Overburden
 - Mafic Volcanic
 - Pegmatite
 - Gabbro
 - Porphyry
 - Mafic Tuff
 - Gabbro Dyke

- Assays Li2O%**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - 1.5 - 2
 - 2 - 3
 - 3 - 7

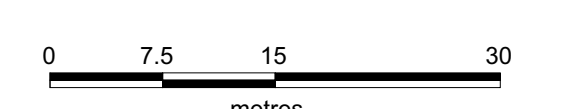
312505 Mineral Claim outline and number

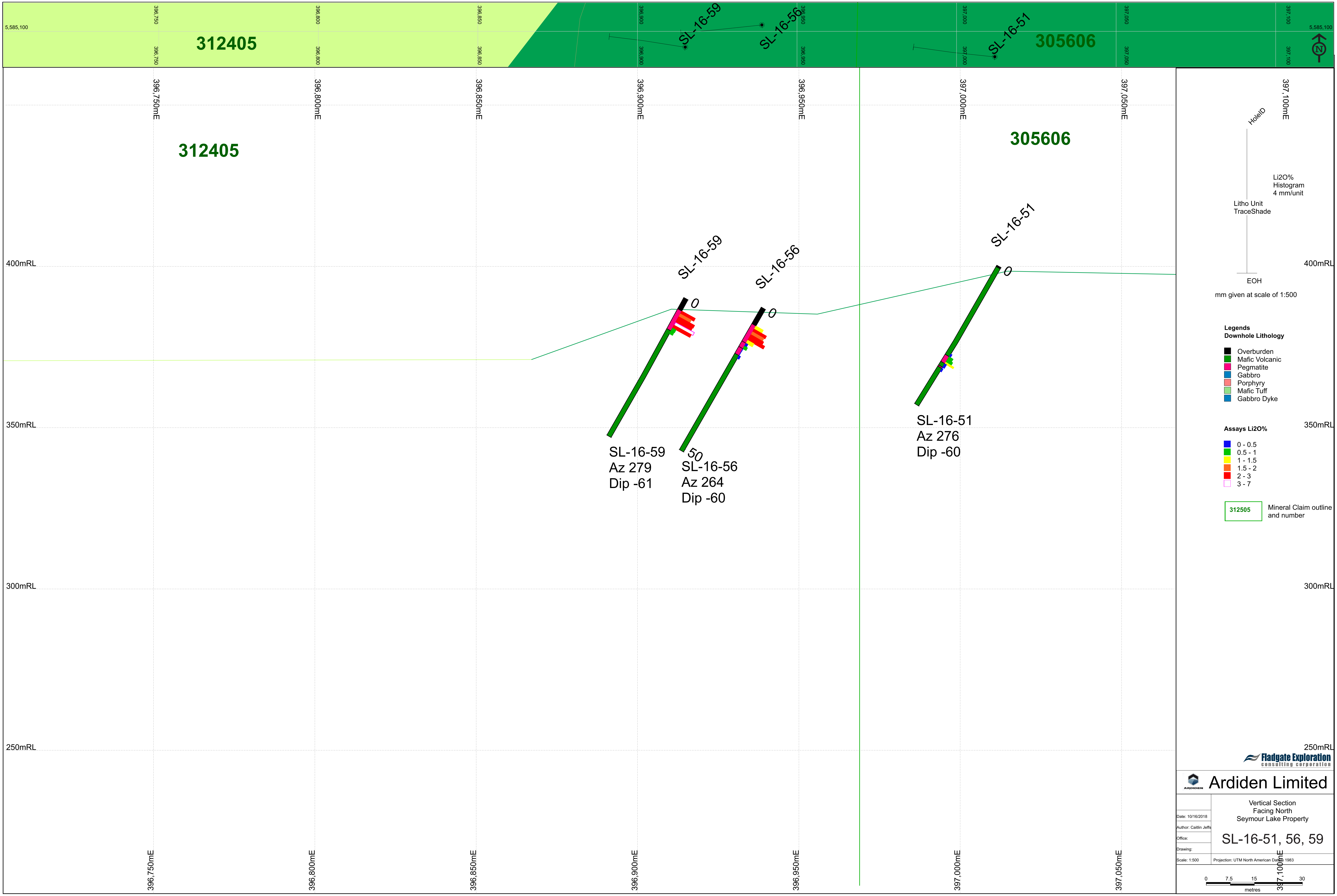


Ardiden Limited

Vertical Section
Facing North
Seymour Lake Property

Date: 10/16/2018
Author: Caitlin Jeffs
Office: SL-16-49, 50, 52, 57, 58, 70
Drawing:
Scale: 1:500 Projection: UTM North American Datum 1983





312405

305606

312405

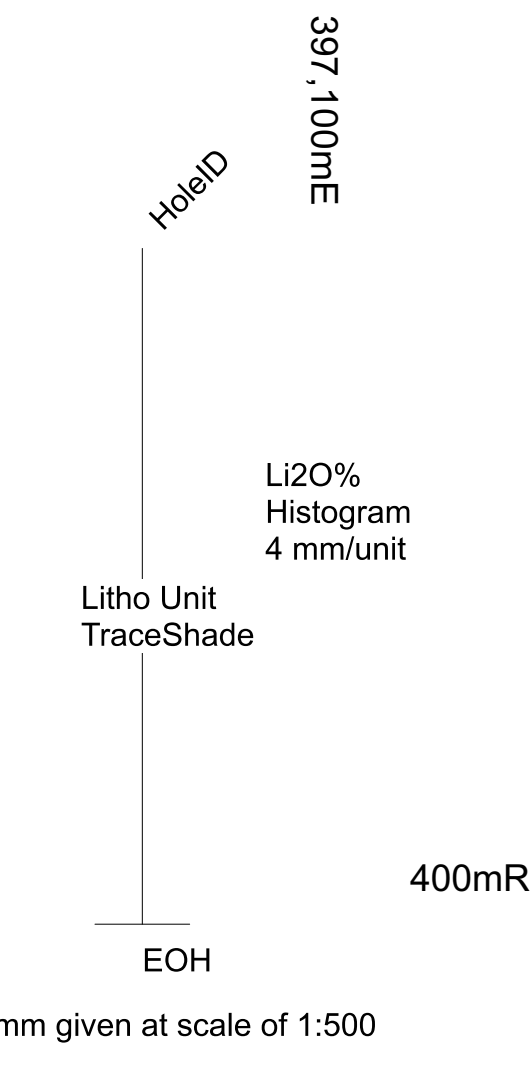
305606

SL-16-59
Az 279
Dip -61

SL-16-56
Az 264
Dip -60

SL-16-51
Az 276
Dip -60

- Legends**
- Downhole Lithology**
- Overburden
 - Mafic Volcanic
 - Pegmatite
 - Gabbro
 - Porphyry
 - Mafic Tuff
 - Gabbro Dyke
- Assays Li2O%**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - 1.5 - 2
 - 2 - 3
 - 3 - 7
- 312505 Mineral Claim outline and number



250mRL

Fladgate Exploration
consulting corporation

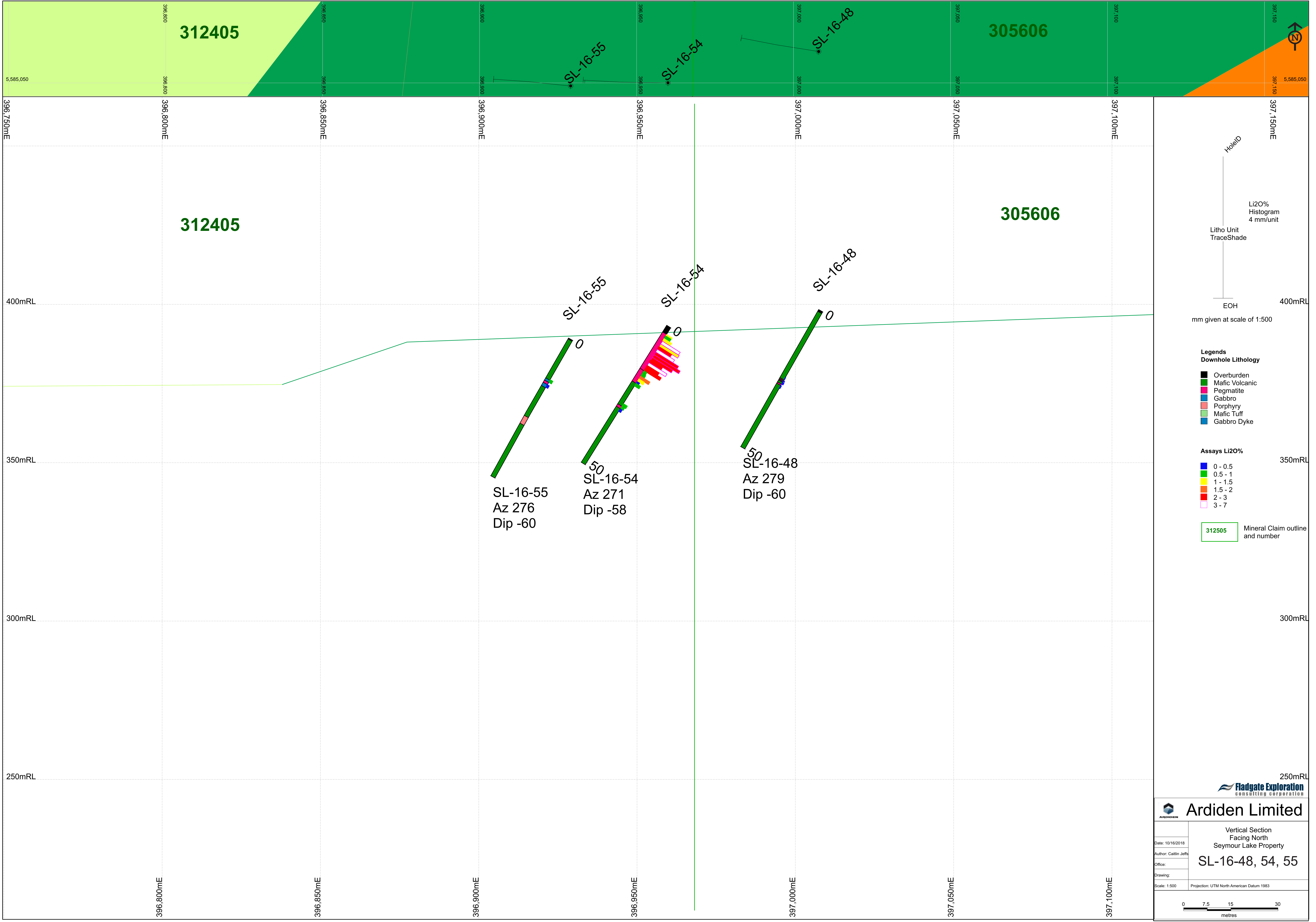
Ardiden Limited

Vertical Section
Facing North
Seymour Lake Property

SL-16-51, 56, 59

Date: 10/16/2018	
Author: Caitlin Jeffs	
Office:	
Drawing:	
Scale: 1:500	Projection: UTM North American Datum 1983

0 7.5 15 30
metres



312405

305606

312405

305606

SL-16-55

SL-16-54

SL-16-48

SL-16-55

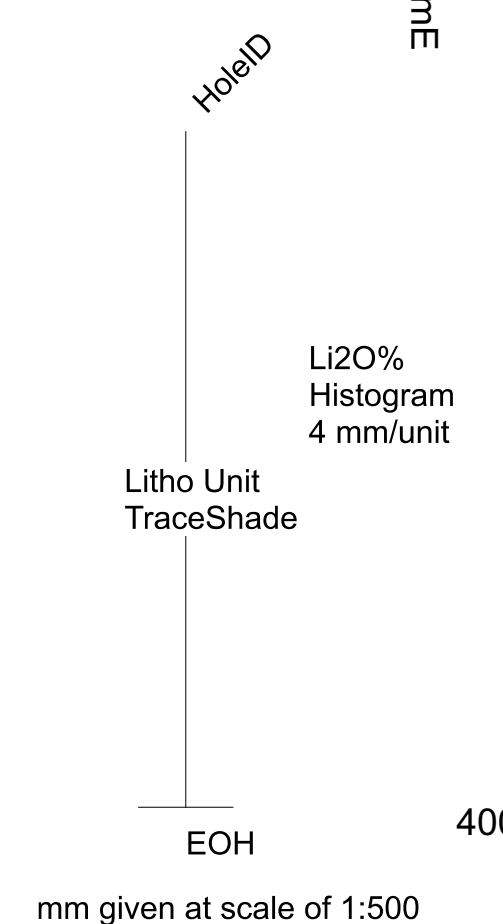
SL-16-54

SL-16-48

SL-16-55
Az 276
Dip -60

50
SL-16-54
Az 271
Dip -58

50
SL-16-48
Az 279
Dip -60



- Legends**
- Downhole Lithology**
- Overburden
 - Mafic Volcanic
 - Pegmatite
 - Gabbro
 - Porphyry
 - Mafic Tuff
 - Gabbro Dyke

- Assays Li2O%**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - 1.5 - 2
 - 2 - 3
 - 3 - 7

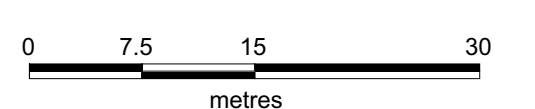
312505 Mineral Claim outline and number

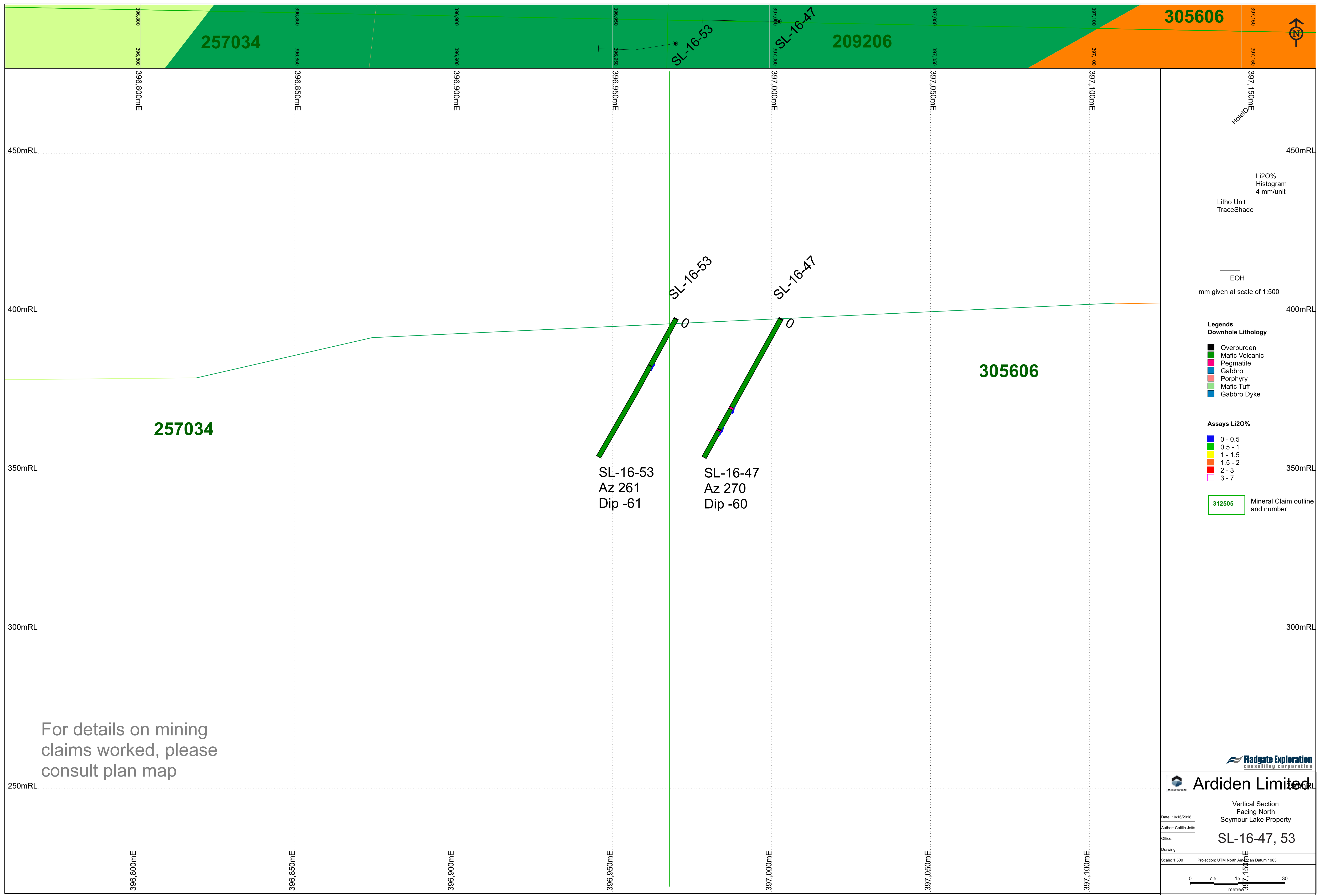


Ardiden Limited

Vertical Section
Facing North
Seymour Lake Property
SL-16-48, 54, 55

Date: 10/16/2018
Author: Caitlin Jeffs
Office:
Drawing:
Scale: 1:500 Projection: UTM North American Datum 1983





305606

257034

209206

257034

305606

SL-16-53
Az 261
Dip -61

SL-16-47
Az 270
Dip -60

For details on mining claims worked, please consult plan map



Hole 150mE

Litho Unit TraceShade
Li2O% Histogram 4 mm/unit

EOH
mm given at scale of 1:500

Legends

- Downhole Lithology**
- Overburden
 - Mafic Volcanic
 - Pegmatite
 - Gabbro
 - Porphyry
 - Mafic Tuff
 - Gabbro Dyke

- Assays Li2O%**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 1.5
 - 1.5 - 2
 - 2 - 3
 - 3 - 7

312505 Mineral Claim outline and number

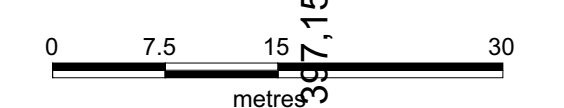


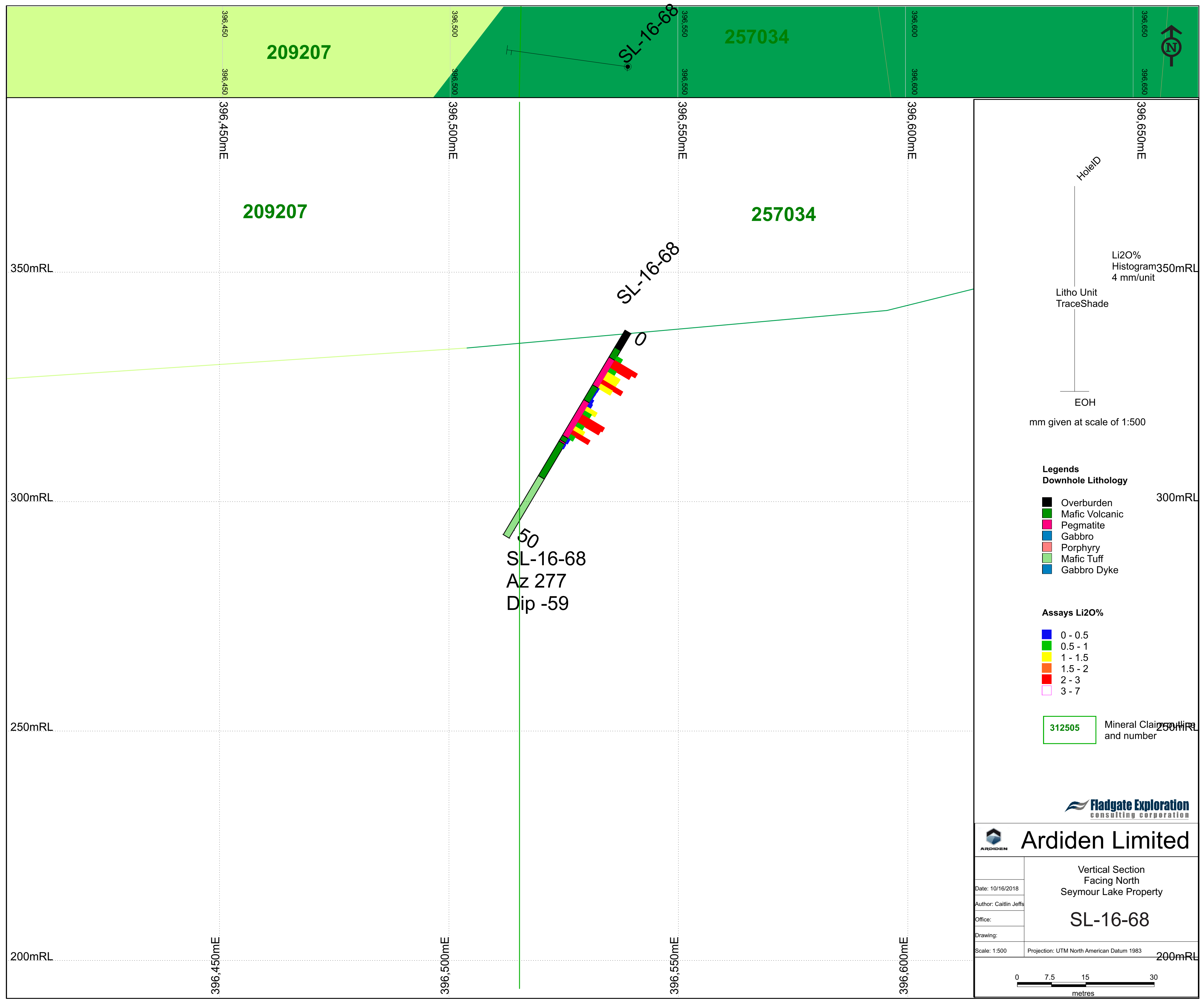
Ardiden Limited

Vertical Section
Facing North
Seymour Lake Property
SL-16-47, 53

Date: 10/16/2018
Author: Caitlin Jeffs
Office:
Drawing:

Scale: 1:500 Projection: UTM North American Datum 1983





209207

257034

209207

257034

SL-16-68

50
SL-16-68
Az 277
Dip -59



mm given at scale of 1:500

Legends
Downhole Lithology

- Overburden
- Mafic Volcanic
- Pegmatite
- Gabbro
- Porphyry
- Mafic Tuff
- Gabbro Dyke

Assays Li2O%

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 7

312505 Mineral Claim
and number

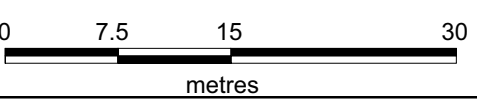


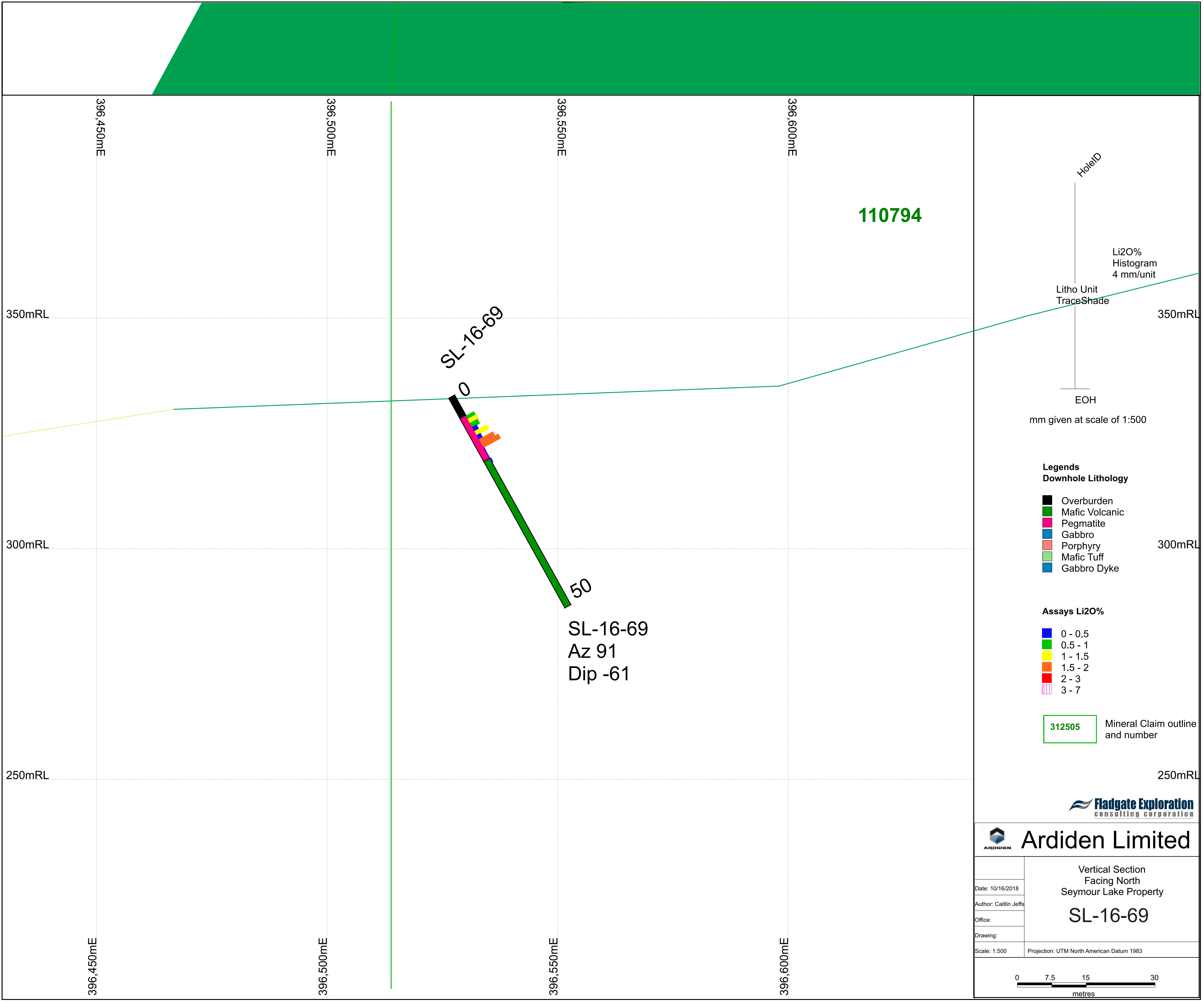
Ardiden Limited

Vertical Section
Facing North
Seymour Lake Property

SL-16-68

Date: 10/16/2018
Author: Caitlin Jeffs
Office:
Drawing:
Scale: 1:500
Projection: UTM North American Datum 1983





110794

SL-16-69

0

50

SL-16-69
Az 91
Dip -61

HoleID

Li2O%
Histogram
4 mm/unit

Litho Unit
TraceShade

EOH

mm given at scale of 1:500

Legends

Downhole Lithology

- Overburden
- Mafic Volcanic
- Pegmatite
- Gabbro
- Porphyry
- Mafic Tuff
- Gabbro Dyke

Assays Li2O%

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 3
- 3 - 7

312505

Mineral Claim outline
and number

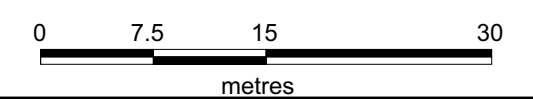


Ardiden Limited

Vertical Section
Facing North
Seymour Lake Property

SL-16-69

Date: 10/16/2018
Author: Caitlin Jeffs
Office:
Drawing:
Scale: 1:500
Projection: UTM North American Datum 1983



Appendix V: Work Summary and Expenditures

Program Expenditures

Company: _____ ARD Project: _____ Seymour Lake Fall 2016 Drilling

Expenditure Item	Date From	Date To	No of Units	Unit cost	Net Item Cost NO HST/GST
Labour					
Program Management SJB	1-Nov	15-Nov	1	90	90.00
Core logging D Drayson	1-Nov	15-Nov	130	50	6,500.00
Drill Supervision D Courtney	1-Nov	15-Nov	150	75	11,250.00
Drill Supervision D Courtney	1-Dec	15-Dec	75	75	5,625.00
Core logging D Drayson	16-Oct	31-Oct	110	50	5,500.00
Drill Supervision D Courtney	16-Oct	31-Oct	105	75	7,875.00
Core Logger B Clark	16-Nov	30-Nov	145.00	50	7,250.00
Program Supervision D Courtney	16-Nov	30-Nov	115.00	75	8,625.00
Program Management J Selway	16-Nov	30-Nov	1.50	72	108.00
Program Management SJB	16-Nov	30-Nov	1.00	90	90.00
Drilling	22-Oct	31-Oct	1.00	46510	46,510.00
Drilling	1-Nov	13-Nov	1.00	74785	74,785.00
Drilling	14-Nov	21-Nov	1.00	41315	41,315.00
Drilling	22-Nov	5-Dec	1.00	20575	20,575.00
None					0.00
Subtotal					236,098.00
Analytical (List lab and CoA number. Insert rows as required)					
ActLabs A16-11702	4-Nov	6-Dec	1	6700	6,700.00
ActLabs A16-12021	4-Nov	19-Dec	1	6560.5	6,560.50
ActLabs A16-12592	22-Nov	30-Dec	1	7496.5	7,496.50
ActLabs A16-13265	10-Dec	20-Jan	1	9842.00	9,842.00
					0.00
Subtotal					\$ 30,599.00
Personal Transportation (getting personnel to and from site)					
					0.00
Subtotal					\$ -
Contractor Mob deMob					
Driller Mob deMob	22-Oct	22-Oct	1	4000	4,000.00

					0.00
Subtotal					\$ 4,000.00
Supplies					
Field Supplies	15-Nov	23-Nov	1	\$114.98	114.98
Supplies surcharge CCIC	15-Nov	30-Nov	1	366.27	366.27
Field Supplies CCIC	1-Nov	15-Nov	1	291.5	291.50
Surcharge on supplies CCIC	1-Nov	15-Nov	1	1710.04	1,710.04
Standards	16-Oct	31-Oct	1	1613.55	1,613.55
Surcharge on supplies CCIC	16-Oct	31-Oct	1	509.53	509.53
Field Supplies	1-Dec	15-Dec	1	5.99	5.99
Surcharge CCIC	1-Dec	15-Dec	1	877.92	877.92
Subtotal					\$ 5,489.78
Rental (equipment/trucks)					
Truck mileage	27-Nov	27-Nov	644	0.64	412.16
ATV Rental	1-Nov	30-Nov	30	78	2,340.00
Fuel	23-Nov	27-Nov	1	52.8	52.80
Equipment rental costs CCIC	16-Dec	31-Dec	1	585.31	585.31
Surcharge	16-Dec	31-Dec	1	87.8	87.80
Truck Rental/Fuel	1-Nov	15-Nov	1	3575.93	3,575.93
Equipment rental costs CCIC	1-Nov	15-Nov	1	375.04	375.04
ATV Rental	16-Oct	31-Oct	1	780	780.00
Vehicle rental/fuel	1-Dec	15-Dec	1	2621.81	2,621.81
Dozer Rental	1-Nov	13-Nov	1	3300	3,300.00
Dozer Rental	14-Nov	21-Nov	1	3450	3,450.00
Dozer Rental	22-Nov	5-Dec	1	900	900.00
Core Shack Rental	22-Oct	31-Oct	1	2000	2,000.00
Dozer Rental	22-Oct	31-Oct	1	3600	3,600.00
					0.00
Subtotal					\$ 24,080.85
Shipping of Samples					
					0.00
Subtotal					\$ -

Food					
CCIC Expenses	15-Nov	25-Nov	1	\$131.08	131.08
CCIC Expenses	1-Dec	15-Dec	1	\$122.06	122.06
CCIC Expenses	1-Dec	15-Dec	1	\$221.60	221.60
					0.00
Subtotal					\$ 474.74
Accommodation					
Cabin rental CCIC	1-Nov	15-Nov	1	\$4675.00	4,675.00
Cabin rental CCIC	1-Dec	15-Dec	1	\$2121.74	2,121.74
Driller Accomodation	22-Oct	31-Oct	1	\$4950.00	4,950.00
Driller Accomodation	1-Nov	13-Nov	1	\$4950.00	4,950.00
Driller Accomodation	14-Nov	21-Nov	1	\$2700.00	2,700.00
Driller Accomodation	22-Nov	5-Dec	1	\$1800.00	1,800.00
					0.00
Subtotal					\$ 21,196.74
Shipping of Supplies					
Shipping DHL CCIC	1-Nov	15-Nov	1	\$56.22	\$ 56.22
Subtotal					\$ 56.22
Maps/Reports					
QAQC Database mngm J Selway	16-Dec	31-Dec	6	72	432.00
QAQC Database mngm J Selway	1-Nov	15-Nov	5	72	360.00
QAQC Database mngm J Selway	1-Dec	15-Dec	1	72	72.00
Caitlin Jeffs FECC Report	15-Oct	22-Oct	1	3750	3,750.00
					4,614.00
Access Trail Building					
					0.00
Subtotal					\$ -
Program Total					
Program Total					\$ 326,609.33