

TECHNICAL REPORT FOR MNDM ASSESSMENT

2018 DIAMOND DRILL PROGRAM

February 14, 2018 – December 25, 2018

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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EXECUTIVE SUMMARY

The Seymour Lake LCT Pegmatite project (the “Project” or “Property”) was the target of a diamond drill program of 36 drill holes totalling 6318 metres between February 14, 2018 and November 13, 2018.

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 Onamont-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 2017.

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 2018 spring and summer exploration drill program successfully continued to intersect spodumene bearing pegmatite and provide valuable information about the grade and orientation of the pegmatite in the Aubry North zone.

INTRODUCTION

Companies Caracle Creek International Consulting Inc. ("Caracle Creek") and Fladgate Exploration Consulting Company ("Fladgate") were contracted by Ardiden Limited ("Ardiden") of Subiaco, WA, Australia, to manage an exploration and 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.

Drilling was completed by Rugged Aviation Inc. of Murillo, Ontario and Fladgate Exploration Consulting Corporation was contracted to draft this report summarizing the results of the 2018 diamond drill program.

Exploration was managed by Fladgate. A total of 61 grab samples were collected and submitted for analysis with ActLabs in Thunder Bay, ON.

The diamond drill program commenced on February 14, 2018 and was completed on November 13, 2019. A total of 36 diamond drill holes and 2231 metres were drilled, logged and selectively sampled. Drilling was managed by Caracle Creek until April 2018 and was then managed by Fladgate from July until December 2018.

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 826 boundary and standard mining claim cells (Figure 2). The claims are registered 100% in the name of Ardiden Limited and require \$307,000 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.

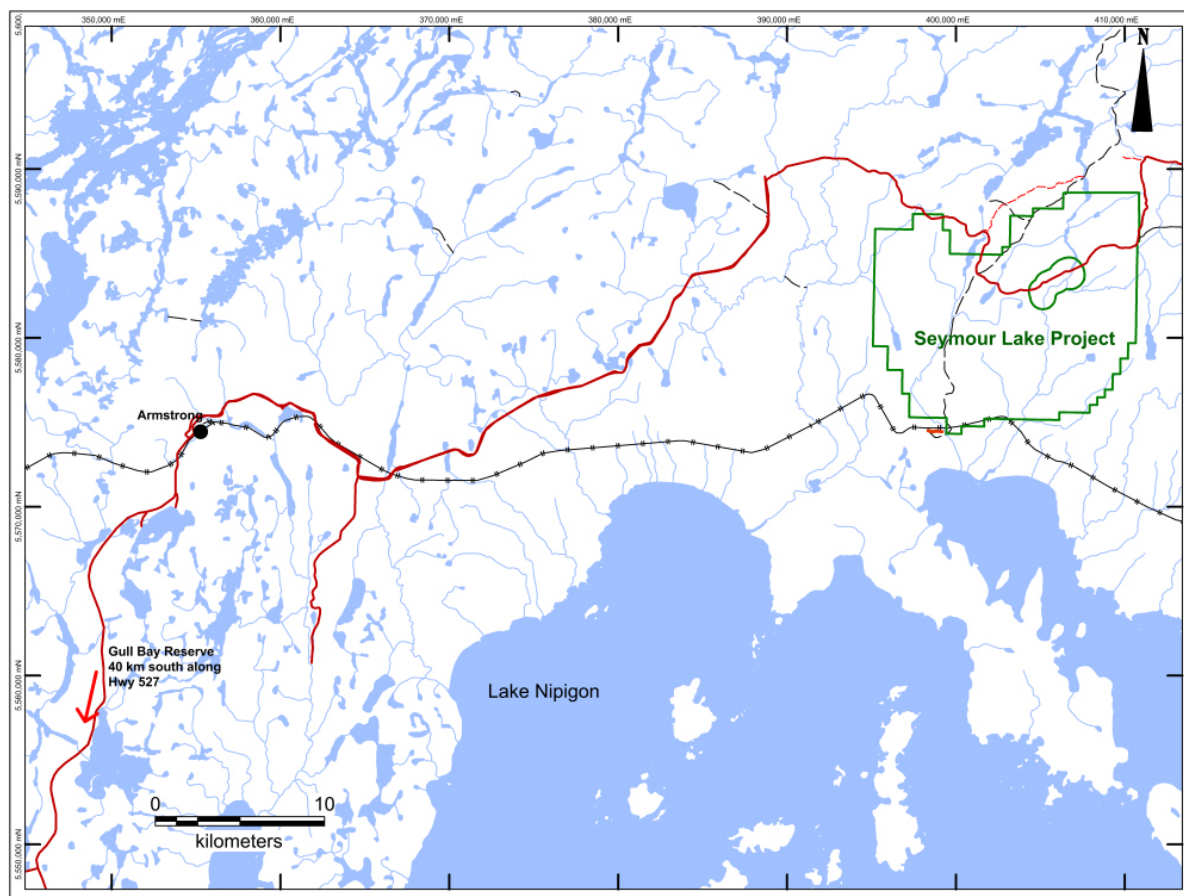


Figure 2 - Regional Location and Access

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 3). 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.

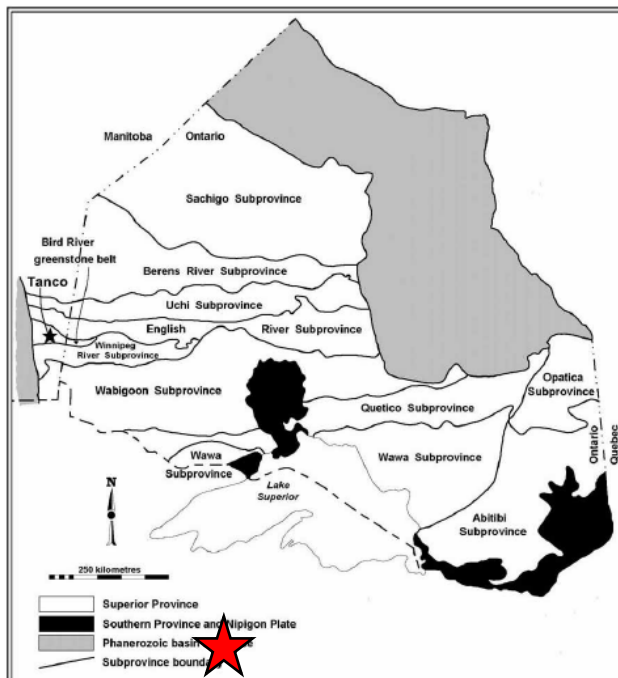


Figure 3 - Regional geology of the western Superior Province with distribution of the subprovinces (modified from Galeschuk and Vanstone, 2007). Approximate location of the Seymour Lake property is indicated by the red star

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 4). 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.

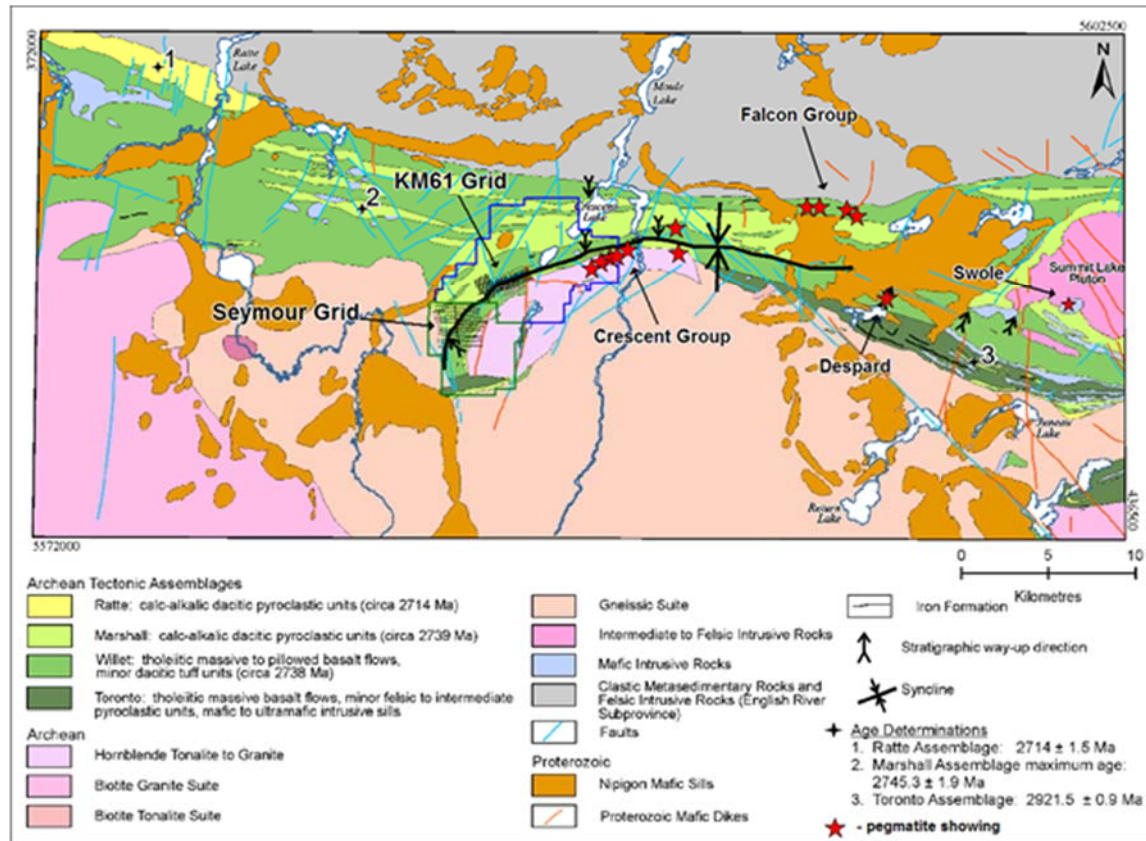


Figure 4 - Simplified Regional Geology, Seymour Lake Area (from Rees, 2011)

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 lesser bedded tuffs and minor massive mafic to felsic volcanic of the Marshall Assemblage. 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 antiform-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.

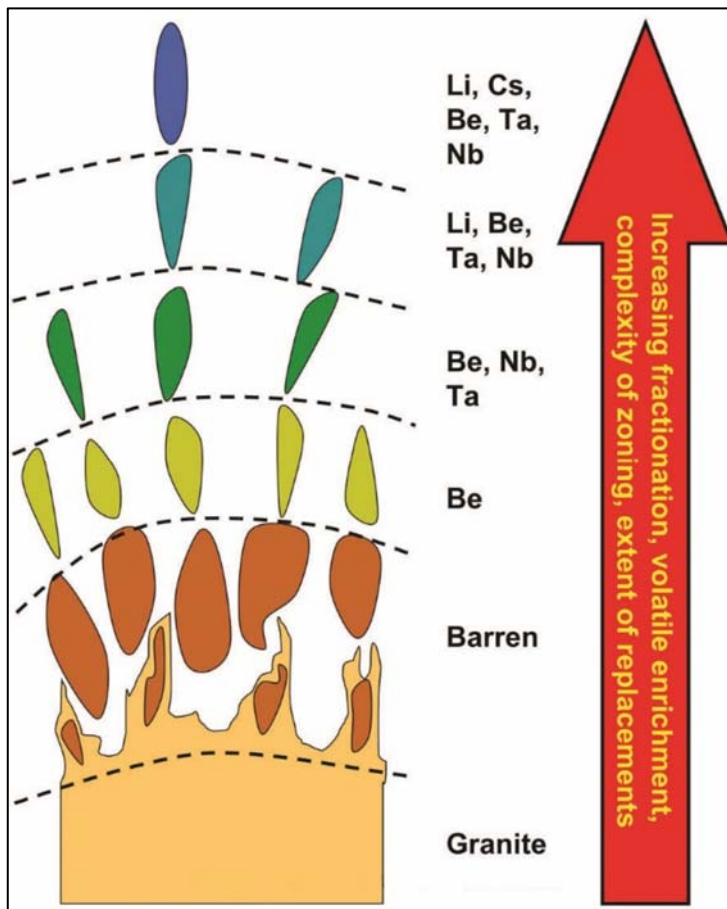


Figure 5 - Chemical evolution of lithium-rich pegmatites as a function of distance from the fertile granitic source (London, 2008)

Seymour Lake Pegmatites

The Seymour Lake area LCT Pegmatites (North and South Aubry 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 Aubry zone 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) have 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).

2016: Ardiden Limited: diamond drilling (1728m in 27 holes; October-December)

2017: Ardiden Limited: diamond drilling (5049 meters; April 5th-September 29th)

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 2, Table 3, Table 4.

Table 1- Rugged Aviation Time

RUGGED AVIATION			
Personnel Time	Title	Start Date	End Date
Rugged Aviation Inc.	Drillers	14-Feb-18	13-Nov-18

Table 2 - Drilling Fladgate Personnel Time

FLADGATE			
Personnel Time	Title	Start Date	End Date
Adam Richardson	P. Geo	5-Jun-18	25-Dec-18
Ryan Shannon	Geologist	5-Jun-18	16-Oct-18
Carlos Munoz	Geologist	20-Jun-18	29-Sep-18
Colin Ferh	Geologist	20-Jun-18	10-Jul-18
Brian Rae	Geologist	1-Jun-18	12-Jan-19
Jordan Kowalchuk	Geologist	1-Oct-18	25-Dec-18
Kyle Pederson	Geologist	14-Oct-18	12-Jan-19
Leah Clapp	Project Manager	25-Nov-19	20-Jan-20

Table 3 - Drilling Caracle Creek Personnel Time

CARACLE CREEK			
Personal Time	Title	Start Date	End Date
Scott Jobin-Bevans	Project Manager	11-Jan-18	15-Jun-18
Daniel Courtney	Drill Program Supervision	1-Mar-18	30-May-18
Toby Hughes	Drill Program Supervision	4-Mar-18	30-Mar-18
Jamie Dumas	Core Logging	1-Mar-18	30-May-18
Andrew Graba	Core Logging	1-Apr-18	30-May-18
Cecil Johnson	GPR Orientation Survey	1-Apr-18	30-May-18
Philippe Allain	GPR Orientation Survey	1-Apr-18	30-May-18
Walter McGregor	GPR Orientation Survey	1-Apr-18	30-May-18
Dan Grabiec	Drill Program Supervision	23-Jul-18	24-Jul-18
Wanita Campbell	Project Administration	16-Jan-18	16-Jan-18

Table 4 - Exploration Fladgate Personnel Time

Fladgate			
Personal Time	Title	Start Date	End Date
Steve Grenier	Geologist	14-May-18	30-Jun-18
Johnathan Savard	Geological Assistant	14-May-18	22-May-18
Ryan Shannon	Exploration Geologist	23-May-18	31-May-18
Adam Richardson	P. Geo	10-May-18	5-Jun-18

Exploration

Exploration activities for the 2018 Seymore Lake Project was managed by Fladgate and ran from May 2018-June 2018 with a total 61 samples collected. Sample ID, location and description can be found below in Table 5 and all results with assay certs can be found in **Appendix II: Assays & Certificates** Location Maps for all samples can be found in **Appendix VII – Grab Sample Locations**.

Note: All prospecting activity was conducted before photos became mandatory in July of 2018.

Table 5 - Grab Sample location and Description

SampleID	Easting	Northing	Sampler	Sample Description
781001	396949	5585067	Spitalny	<u>microcline</u> from microcline-spodumene-quartz zone
781002	396930	5585080	Spitalny	coarse <u>muscovite</u> from wall-zone
781003	396928	5585082	Spitalny	<u>perthitic microcline</u> from microcline-quartz-muscovite (-spodumene) zone
781004	396949	5585067	Spitalny	<u>greenish-grey spodumene</u> from microcline-spodumene-quartz zone
781005	396893	5585026	Spitalny	<u>white spodumene</u> from albite-spodumene-quartz (-microcline-lepidolite) core zone
781006	396896	5585025	Spitalny	probable <u>pollucite</u> from albite-spodumene-quartz (-microcline-lepidolite) core zone
781007	396516	5581233	Spitalny	<u>perthitic microcline</u> adjacent to small quartz core
781008	396562	5581239	Spitalny	<u>pink microcline</u> adjacent to small quartz core
781009	396699	5581187	Spitalny	coarse <u>muscovite</u>
781010	396702	5581183	Spitalny	<u>microcline</u> with up to 10% quartz inclusions
781011	398442	5585101	AJR	<u>muscovite</u>
781012	398441	5585102	AJR	<u>microcline</u>
781013	398450	5585045	AJR	<u>lepidolite</u>
781014	398443	5585068	AJR	<u>spodumene</u>
781015	397778	5579647	AJR	white <u>feldspar</u> (variety uncertain)
781016	398237	5579038	AJR	<u>microcline</u> with minor quartz
781017	399032	5580378	AJR	<u>microcline</u>

SampleID	Easting	Northing	Sampler	Sample Description
781018	400432	5579757	AJR	<u>microcline</u>
781019	398843	5571552	AJR	<u>microcline</u>
781020	398606	5581460	AJR	<u>microcline</u>
781021	N/A	N/A	AJR	CRM # 149
781101	402763	5584767	SJG	<u>pegmatitic pink microcline</u>
781102	402504.2	5585103	SJG	<u>very coarse grained to pegmatitic pink microcline</u>
781103	402819.4	5584770	SJG	<u>megacrystic pink microcline</u>
781104	402817	5584755	SJG	<u>megacrystic pink microcline</u>
781105	402961.7	5584800	SJG	<u>very coarse grained to pegmatitic pink microcline w/ quartz inclusions. Quartz:microcline = 15:85</u>
781106	402953.9	5584839	SJG	<u>pegmatitic pink microcline</u>
781107	411163.4	5587358	SJG	<u>pegmatitic pink microcline</u>
781108	411503.1	5587583	SJG	<u>coarse grained pink microcline w/ quartz inclusions. Quartz:microcline = 30:70.</u>
781109	404460.8	5583689	SJG	<u>pink microcline</u>
781110	404431.6	5583668	SJG	<u>pink microcline w/ quartz inclusions. Quartz:microcline = 30:70</u>
781111	403399.9	5583388	SJG	<u>pink microcline w/ weak quartz inclusions</u>
781051	402062	5583282	R.Shannon	Microcline
781052	401980	5582891	R.Shannon	Microcline
781053	405437	5583504	R.Shannon	Microcline
781054	404176	5581945	R.Shannon	Microcline
781055	404060	5581974	R.Shannon	Microcline
781056	404102	5582057	R.Shannon	Microcline
781057	404076	5582102	R.Shannon	Microcline
781058	404349	5582151	R.Shannon	Microcline
781059	404436	5582362	R.Shannon	Microcline
781060	404399	5582271	R.Shannon	Microcline
781061	408340	5581939	R.Shannon	Microcline
781062	408166	5580221	R.Shannon	Microcline
781063	408138	5579264	R.Shannon	Microcline
781064	404138	5582221	R.Shannon	Microcline
781065	404019	5582350	R.Shannon	Microcline
781066	404021	5582408	R.Shannon	Microcline
781067	406893	5579331	R.Shannon	Microcline
781068	407548	5579641	R.Shannon	Microcline
781069	402791	5583044	R.Shannon	Microcline
781070	404207	5582350	R.Shannon	Microcline
781071	404578	5588337	R.Shannon	Spodumene
781073	406959	5589444	R.Shannon	<u>spodumene</u>
781151	398287	5584646	Bryan	Narrow pegmatite intrusions. Felsic. Small microcline, Large outcrop

SampleID	Easting	Northing	Sampler	Sample Description
781152	398241	5584630	Bryan	20m outcrop, similar to pye.
781153	396557	5584468	Bryan	15m wide outcrop. Channel sampling here.
781154	396571	5584465	Bryan	Mica Sample
781155	396981	5584028	Bryan	Small outcrop of pegmatite. Microcline and Quartz dominante.
781156	399789	5585599	Bryan	1m dyke of pegmatite in newly uncovered area. 20 cm sized microcline
781157	399799	5585603	Bryan	5m+ of pegmatite outcrop uncovered under moss. One contact seen. Open on surface. 5cm mica seen.
781158	399867	5585722	Bryan	2m wide pegmatite dyke. 3cm Mica and coarse Microcline.
781159	399611	5577693	Bryan	Pegmatite outcrop. Microcline, mica, quartz. Many boulders in area.
781160	399879	5585716	Bryan	Low angle dyke. Microcline, quartz.
781161	396908	5583335	Bryan	4m pegmatite uncovered under moss. One contact viewed. Many boulders in area. Small microcline and quartz.
781162	397932	5583213	Bryan	Coarse 10cm microcline. Mica, Quartz. SE Hill, no contacts viewed. Many boulders in area.
781163	398203	5583135	Bryan	0.7m dyke. Coarse Microcline
781164	397782	5582731	Bryan	2m dyke. No mica, quartz
781165	403940	5576876	Bryan	5m wide dyke. Possibly sampled
781166	404172	5577237	Bryan	15 cm Microcline. Possibly previously sampled.
781167	409892	5590721	Bryan	Small 5cm spodumene in uncovered outcrop. Previously channel sampled. 50% spodumene, 30% Microcline, 15 quartz, 5% Mica

Diamond Drilling

Between February 14, 2018 and December 25, 2018, a diamond drilling program was completed targeting the North and South Aubry pegmatites. During this time 36 diamond drill holes and 6318 metres were drilled. Drilling was completed by Rugged Aviation Inc. out of Murillo, Ontario. The drill was mobilized to the property on February 14, 2018 and drilling commenced on the same day and was completed on November 13, 2019. A complete list of drill holes can be found in Table 6 – Diamond Drilling Collar Information. Core logging and cutting was completed by geological staff from Caracle Creek International Consulting out of Sudbury until May 2018 and the remainder was completed by Fladgate Exploration.

Table 6 – Diamond Drilling Collar Information

Hole ID	Easting	Northing	Elevation	Depth (m)
ASD001	397033.75	5585210.21	399.21	158
ASD002	397016.86	5585293.96	380.98	156
ASD003	397067.42	5585336.3	368.48	201
ASD004	397114.05	5585364.14	369.92	228
ASD005	397113.85	5585364.16	372.89	291
ASD006	397173.57	5585297.59	387.4	200
ASD007	397173.33	5585297.37	387.9	251
ASD008	397224.34	5585352.52	387.8	50
ASD009	397224.68	5585352.81	387.8	258
ASD010	397224.68	5585352.81	387.8	258
ASD011	397163.83	5585405.35	390.1	330
ASD012	397068.92	5585334.2	373.04	201
ASD013	397069.38	5585334.17	372.4	189
ASD014	397016.34	5585295.13	377.45	177
ASD015	397116.02	5585110.7	385.43	96
ASD016	397175.7	5585135.49	390.298	135
ASD017	397199.29	5585211.43	386.076	159
ASD018	397199.56	5585211.3	386.329	150
ASD019	397261.13	5585286.67	388.524	201
ASD020	396662.02	5584688.33	356.325	110
ASD021	396661.89	5584688	355.724	150
ASD022	396698.41	5584837.22	361.045	213.00
ASD023	396793.36	5584934.25	373.99	126
ASD024	396852.03	5585001.28	371.4	126
SA-18-01	396680.677	5584456.699	369.977	150
SA-18-02	396727.290	5584353.639	379.669	132
SA-18-05	396637.233	5584650.067	357.303	120
SA-18-07	396635.901	5584651.749	357.897	140
SA-18-08	396629.000	5584560.000	354.000	141
SA-18-10	396493.492	5584945.273	329.286	150
SA-18-11	396747.63	5584744.332	373.795	240
SA-18-12	396764.835	5584525.883	374.604	201
SA-18-13	396846.115	5585109.583	374.604	99
SA-18-14	396849.803	5585138.894	376.675	102
SA-18-15	396747.829	5584744.490	373.460	228
SA-18-16	397186.910	5584980.164	381.387	201

QUALITY ASSURANCE/ QUALITY CONTROL PROGRAM

A Quality Assurance/ Quality Control (QA/QC) program was designed, implemented, managed and reported on by Selway (2016). Further analysis was performed by Fladgate Exploration for this report.

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 53 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 52 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 Arbayan area in Mongolia.

All blank samples returned less than detection Li₂O. Duplicate analyses returned satisfactory results, as most of the assay pairs correlated well with each other. A line of best fit forced through the origin revealed a slope of 0.99 and an R² value of 95%.

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

A Quality Assurance/ Quality Control (QA/QC) program was designed, implemented, managed and reported on by Selway (2016). Further analysis was performed by Fladgate Exploration for this report.

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 53 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 52 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 Arbayan area in Mongolia.

Just over 20% of the standards fell outside the 3 standard deviation range of the certified reference material (12 out of 52). Four samples were above 3 standard deviations, while eight were much lower than 3 standard deviations. This latter grouping of 8 standards were all within one laboratory job (A17-04429), and these samples and standards should be re-tested in the future. The fact that the standard failed low, however, means that there is a low bias of Li₂O reported in the affected drill holes (17-11, -12, -13, -23, and -24). The low bias corresponds to between 5 and 22% of the CRM value. All samples bracketed by these standard analyses therefore could return higher values by up to 20% if retested.

All blank samples returned less than detection Li₂O. Duplicate analyses returned satisfactory results, as most of the assay pairs correlated well with each other. A line of best fit forced through the origin revealed a slope of 0.99 and an R² value of 95%.

Thin sections of a lithium bearing sample taken from Seymore Lake were examined by Townend Mineralogy Laboratory in Western Australia. The section was found to be comprised mainly of spodumene, quartz, albite and muscovite with minor apatite. Metallurgic test work was done by Independent Metallurgic Operations Pty (IMO). Results can be seen in the report completed by IMO in the appendix.

CONCLUSIONS AND RECOMMENDATIONS

The 2018 exploration drill program successfully continued to intersect spodumene bearing pegmatite and provide valuable information about the grade and orientation of the pegmatite in Aubry North zone. Significant intersections are included in Table 7 below and drill logs can be found in **Appendix III: Drill Logs** 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 7 – Significant Intersections for Drilling

BHID	Sample ID	From (m)	To (m)	Interval (m)	0.001
ASD001	389612	81.61	82.83	1.22	2.44
ASD001	389613	82.83	83.81	0.98	2.35
ASD001	389643	127.00	128.05	1.05	2.34
ASD003	E5563633	159.41	160.4	0.99	2.82
ASD003	E5563634	160.4	161.4	1	3.75
ASD003	E5563636	161.4	162.4	1	2.36
ASD004	E5563688	178	179	1	3.38
ASD004	E5563691	180	181	1	2.78
ASD004	E5563694	183	184	1	3.04
ASD004	E5563695	184	185	1	2.65
ASD004	E5563696	185	186	1	3.6
ASD004	E5563697	186	186.72	0.72	3.19
ASD005	E5563768	203.95	205	1.05	3.88
ASD005	E5563769	205	206	1	2.71
ASD005	E5563770	206	207	1	3.14
ASD005	E5563771	207	208	1	2.65
ASD005	E5563773	209	210	1	3.87
ASD005	E5563774	210	211	1	2.1
ASD005	E5563776	211	212	1	4.45
ASD006	E5563839	152.81	154	1.19	2.4
ASD006	E5563840	154	155	1	3.96
ASD006	E5563842	156	157	1	2.74
ASD006	E5563843	157	157.57	0.57	4.82
ASD007	E5563886	169	170	1	2.04
ASD007	E5563888	170	171.26	1.26	2.98
ASD008A	E5563959	196.9	197.9	1	2.45
ASD009	E5563990	211.5	212.3	0.8	5.03
ASD009	E5563993	213	214	1	2.13
ASD009	E5563997	215.7	216.3	0.6	3.26
ASD009	E5563999	217	218	1	4.1
ASD009	E5564000	217	218	1	3.4
ASD009	E5564001	218	219	1	2.65
ASD009	E5564003	220	221	1	2.31
ASD009	E5564004	221	222	1	2.7
ASD009	E5564005	222	223	1	2.64
ASD009	E5564006	223	224	1	4.01
ASD009	E5564007	224	225	1	2.88
ASD009	E5564008	225	226	1	2.32
ASD009	E5564012	229	230	1	3.25
ASD009	E5564013	230	231	1	3.93
ASD009	E5564014	231	232	1	3.98
ASD009	E5564028	228	229	1	3.2
ASD010	E5564064	214.75	215.3	0.55	5.67

BHID	Sample ID	From (m)	To (m)	Interval (m)	0.001
ASD010	E5564066	215.87	216.45	0.58	3.74
ASD010	E5564067	216.45	217	0.55	2.4
ASD010	E5564068	217	218	1	3.44
ASD010	E5564075	223	224	1	2.56
ASD010	E5564078	225	226	1	2.51
ASD010	E5564079	226	227	1	2.2
ASD010	E5564080	226	227	1	2.36
ASD010	E5564081	227	228	1	3.26
ASD010	E5564082	228	229	1	4.62
ASD010	E5564083	229	230	1	3.64
ASD010	E5564085	231	232	1	2.71
ASD010	E5564086	232	233	1	2.91
ASD011	E5564141	228.5	229	0.5	5.24
ASD011	E5564142	229	230	1	3.55
ASD011	E5564143	230	231	1	5.62
ASD011	E5564144	231	232	1	2.5
ASD011	E5564147	233.57	234.2	0.63	2.09
ASD011	E5564148	234.2	235	0.8	4.18
ASD011	E5564149	235	236	1	4.28
ASD011	E5564152	237	238	1	5.43
ASD011	E5564153	238	238.75	0.75	4.62
ASD011	E5564154	238.75	239.5	0.75	5.39
ASD011	E5564155	239.5	240.15	0.65	4.86
ASD011	E5564159	241.65	242.35	0.7	2.16
ASD011	E5564161	243	244	1	2.74
ASD011	E5564162	243	244	1	2.55
ASD011	E5564163	244	245	1	4.16
ASD011	E5564164	245	246	1	4.34
ASD011	E5564165	246	247	1	3.06
ASD011	E5564166	247	248	1	2.29
ASD011	E5564168	249	250	1	2.42
ASD011	E5564169	250	251	1	2.25
ASD011	E5564174	254	255	1	2.29
ASD011	E5564175	255	256	1	4.17
ASD011	E5564176	256	257	1	3.48
ASD012	E5564217	135	136	1	2.22
ASD012	E5564222	139	140	1	2.01
ASD013	E5564283	126.2	127	0.8	2.46
ASD013	E5564294	136.92	137.7	0.78	2.62
ASD013	E5564313	169	170	1	2.13
ASD017	E5564524	116.43	117.43	1	2.13
ASD017	E5564526	118.2	118.9	0.7	2.33
ASD017	E5564529	120.59	121.5	0.91	2.88
ASD017	E5564530	121.5	122.5	1	4.26

BHID	Sample ID	From (m)	To (m)	Interval (m)	0.001
ASD017	E5564533	123.5	124.5	1	2.34
ASD017	E5564534	124.5	125.5	1	2.35
ASD019	E5564443	171.25	172.08	0.83	2.24

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

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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	Status	Holder
110796	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
114199	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
114200	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
130705	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
130706	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158701	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158702	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
164044	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
166147	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
182257	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
186849	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
186850	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
189693	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
195436	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
199575	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
199576	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
202392	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
213972	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
216046	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
234658	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
239142	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
239197	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
246792	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
247930	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
247931	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
259408	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
259409	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
269391	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
282661	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
282662	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
290713	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
293546	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
305606	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
312405	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313967	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
332326	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
332327	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
341621	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
343884	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
109882	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
109883	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
109884	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
110795	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
111512	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
128849	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
134452	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.

139233	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
144333	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
145302	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
147129	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
147130	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
150834	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
154018	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
157231	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158455	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158456	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158595	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158739	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
159350	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
161227	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
161228	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
164672	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
174901	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
176401	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
183014	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
191608	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
192878	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
192879	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
202393	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
204013	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
206643	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
211639	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
213762	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
228166	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
238343	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
239069	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
247152	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
250469	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
257033	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
257911	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
261948	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
265918	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
277335	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
302513	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
306359	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
307057	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313660	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313661	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313805	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313806	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313807	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
322021	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
325851	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.

326498	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
327346	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
327347	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
329159	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
329160	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
338554	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
103639	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
107692	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
108167	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
108604	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
108937	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
108938	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
108996	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
108997	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
109057	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
109058	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
109059	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
110337	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
110535	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
112523	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
112551	SCENT LAKE AREA,FALCON LAKE A	Active	(100) Ardiden Ltd.
112595	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
112596	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
112597	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
118922	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
120203	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
120204	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
120259	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
120826	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
121653	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
122538	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
122831	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
123189	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
124124	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
125514	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
126089	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
126090	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
131036	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
131682	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
132743	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
133053	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
133964	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
136419	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
136560	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
137595	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
140447	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
140448	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.

141643	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
141644	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
142382	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
142383	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
142384	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
142472	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
142473	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
143955	SCENT LAKE AREA,FALCON LAKE A	Active	(100) Ardiden Ltd.
143956	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
143993	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
146398	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
147644	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
147645	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
148378	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
149178	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
149896	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
150235	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
152639	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
156594	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
156623	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
158014	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158015	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
158271	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
161036	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
161037	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
161676	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
162796	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
162797	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
162822	SCENT LAKE AREA,FALCON LAKE A	Active	(100) Ardiden Ltd.
164376	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
165944	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
167316	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
167714	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
171277	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
176855	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
176909	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
177474	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
177475	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
177476	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
177781	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
177782	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
180818	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
180819	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
182794	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
182795	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
182796	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
183611	FERLAND STATION AREA	Active	(100) Ardiden Ltd.

183612	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
184210	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
184741	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
184742	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
186558	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
186683	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
190097	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
190098	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
190099	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
193064	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
193065	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
196429	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
196430	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
196483	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
196484	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
197307	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
197308	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
200288	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
200289	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
200308	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
200309	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
200448	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
200449	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
201118	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
201239	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
202617	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
202618	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
202648	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
202649	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
205191	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
205516	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
207771	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
209269	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
210680	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
210717	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
210718	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
212521	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
213639	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
213710	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
213711	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
216480	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
217640	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
219379	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
219380	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
219487	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
223147	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
226787	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.

226788	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
232543	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
232544	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
233869	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
233870	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
233871	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
234515	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
234778	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
235385	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
235386	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
235387	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
236750	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
237700	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
237862	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
237863	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
238117	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
238118	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
240508	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
240509	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
240531	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
243517	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
243518	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
243519	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
243520	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
243586	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
243587	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
244708	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
244969	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
250994	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
251057	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
252479	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
252702	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
252703	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
252704	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
252705	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
255760	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
255899	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
255900	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
256271	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
256272	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
256854	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
257285	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
257286	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
257287	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
263029	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
264070	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
264527	FERLAND STATION AREA	Active	(100) Ardiden Ltd.

265023	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
265024	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
265025	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
267053	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
267830	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
267831	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
268004	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
270371	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
270372	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
271256	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
271759	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
273176	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
275233	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
275234	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
276614	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
276615	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
276616	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
276648	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
276649	SCENT LAKE AREA,FALCON LAKE A	Active	(100) Ardiden Ltd.
276682	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
279143	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
279144	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
279145	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
280073	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
280074	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
280139	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
280559	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
280560	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
280561	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
282193	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
282194	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
282491	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
283382	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
284136	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
285387	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
289913	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
289914	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
290555	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
291446	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
292244	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
292949	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
297769	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
297770	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
298149	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
298150	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
298151	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
298724	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.

298725	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
299556	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
299557	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
299558	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
299613	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
303562	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
304087	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
304354	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
306092	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
306434	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
306465	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
306466	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
306503	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
306504	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
311763	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
311764	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
312238	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
312836	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
313251	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313252	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
313281	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
316941	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
317425	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
317570	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
318609	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
320752	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
320753	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
326001	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
326002	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
326003	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
326004	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
326385	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
328430	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
331525	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
331526	SCENT LAKE AREA,FALCON LAKE A	Active	(100) Ardiden Ltd.
331527	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
333247	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
333248	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
336637	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
337814	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
337815	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
338426	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
338427	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
338473	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
338474	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
338790	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
339017	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.

339018	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
340393	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
341504	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
342142	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
342143	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
342329	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
343145	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
343146	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
343147	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
343748	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
343749	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
344314	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
344315	ENT LAKE AREA,FERLAND STATION	Active	(100) Ardiden Ltd.
102009	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
111208	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
111240	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
115999	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
116000	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
116001	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
149204	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
152695	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
164290	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
164291	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
167331	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
177615	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
186421	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
186458	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
186459	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
224207	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
224208	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
230975	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
230976	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
252530	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
264569	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
264570	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
271302	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
278196	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
278197	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
297013	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
312772	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
312773	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
318517	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
326802	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
331205	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
331233	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
110794	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.
137057	CRESCENT LAKE AREA	Active	(100) Ardiden Ltd.

520092	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520093	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520094	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520095	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520096	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520097	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520098	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520099	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520100	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520101	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520102	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520103	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520104	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520105	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520106	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520107	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520108	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520109	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520110	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520111	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520112	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520113	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520114	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520115	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520116	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520117	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520118	FERLAND STATION AREA	Active	(100) Ardiden Ltd.
520119	FERLAND STATION AREA	Active	(100) Ardiden Ltd.

APPENDIX II: ASSAYS & CERTIFICATES



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Peter Spitalny

PROJECT:

AGAT WORK ORDER: 18B365845

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Aug 10, 2018

PAGES (INCLUDING COVER): 36

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
389601 (9422124)		2.196
389602 (9422125)		2.926
389603 (9422126)		3.194
389604 (9422127)		3.168
389605 (9422128)		3.062
389606 (9422129)		2.678
389607 (9422130)		2.452
389608 (9422131)		1.380
389609 (9422132)		1.766
389610 (9422133)		1.686
389611 (9422134)		0.056
389612 (9422135)		2.234
389613 (9422136)		1.762
389614 (9422137)		1.368
389615 (9422138)		1.754
389616 (9422139)		1.776
389617 (9422140)		1.030
389618 (9422141)		1.216
389619 (9422142)		0.056
389620 (9422143)		1.778
389621 (9422144)		2.826
389622 (9422145)		2.880
389623 (9422146)		2.912
389624 (9422147)		2.958
389625 (9422148)		2.914
389626 (9422149)		2.866
389627 (9422150)		1.890
389628 (9422151)		1.902
389629 (9422152)		2.024
389630 (9422153)		1.440
389631 (9422154)		0.056

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
389632 (9422155)		1.810
389633 (9422156)		1.484
389634 (9422157)		3.080
389635 (9422158)		3.300
389636 (9422159)		3.000
389637 (9422160)		2.894
389638 (9422161)		1.552
389639 (9422162)		0.442
389640 (9422163)		0.318
389641 (9422164)		1.600
389642 (9422165)		1.715
389643 (9422166)		1.952
389644 (9422167)		2.826
389645 (9422168)		2.986
389646 (9422169)		1.414
389647 (9422170)		1.246
389648 (9422171)		2.580
389649 (9422172)		2.750
389650 (9422173)		1.622
E5563560 (9422174)		2.504
E5563561 (9422175)		2.738
E5563562 (9422176)		2.012
E5563563 (9422177)		0.458
E5563564 (9422178)		1.962
E5563565 (9422179)		2.554
E5563566 (9422180)		2.024
E5563567 (9422181)		1.586
E5563568 (9422182)		1.524
E5563569 (9422183)		1.696
E5563570 (9422184)		1.570
E5563571 (9422185)		0.056

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563572 (9422186)		2.508
E5563573 (9422187)		2.918
E5563574 (9422188)		1.728
E5563575 (9422189)		2.878
E5563576 (9422190)		2.792
E5563577 (9422191)		2.844
E5563578 (9422192)		3.018
E5563579 (9422193)		0.056
E5563580 (9422194)		2.734
E5563581 (9422195)		2.012
E5563582 (9422196)		1.758
E5563583 (9422197)		1.336
E5563584 (9422198)		2.322
E5563585 (9422199)		2.992
E5563586 (9422200)		2.876
E5563587 (9422201)		2.930
E5563588 (9422202)		2.824
E5563589 (9422203)		2.858
E5563590 (9422204)		2.894
E5563591 (9422205)		0.056
E5563592 (9422206)		2.744
E5563593 (9422207)		2.824
E5563594 (9422208)		3.038
E5563595 (9422209)		2.650
E5563596 (9422210)		0.056
E5563597 (9422211)		1.086
E5563598 (9422212)		1.644
E5563599 (9422213)		1.534
E5563600 (9422214)		1.086
E5563601 (9422215)		1.344
E5563602 (9422216)		2.714

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

	Analyte:	Sample Login Weight
	Unit:	kg
Sample ID (AGAT ID)	RDL:	0.01
E5563603 (9422217)		2.916

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
389601 (9422124)		3.19
389602 (9422125)		3.21
389603 (9422126)		3.42
389604 (9422127)		3.42
389605 (9422128)		3.29
389606 (9422129)		3.26
389607 (9422130)		3.27
389608 (9422131)		2.86
389609 (9422132)		2.74
389610 (9422133)		2.77
389611 (9422134)		2.69
389612 (9422135)		2.93
389613 (9422136)		3.01
389614 (9422137)		2.76
389615 (9422138)		2.90
389616 (9422139)		2.93
389617 (9422140)		2.80
389618 (9422141)		2.75
389619 (9422142)		2.92
389620 (9422143)		2.82
389621 (9422144)		3.19
389622 (9422145)		3.16
389623 (9422146)		3.17
389624 (9422147)		3.22
389625 (9422148)		3.23
389626 (9422149)		3.15
389627 (9422150)		3.13
389628 (9422151)		3.15
389629 (9422152)		3.20
389630 (9422153)		2.83
389631 (9422154)		2.70
389632 (9422155)		2.87

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
389633 (9422156)		2.80
389634 (9422157)		3.00
389635 (9422158)		3.13
389636 (9422159)		3.17
389637 (9422160)		3.17
389638 (9422161)		2.74
389639 (9422162)		2.87
389640 (9422163)		2.82
389641 (9422164)		2.78
389642 (9422165)		2.92
389643 (9422166)		3.01
389644 (9422167)		3.08
389645 (9422168)		3.07
389646 (9422169)		2.74
389647 (9422170)		2.72
389648 (9422171)		3.17
389649 (9422172)		3.12
389650 (9422173)		2.79
E5563560 (9422174)		3.30
E5563561 (9422175)		3.18
E5563562 (9422176)		3.13
E5563563 (9422177)		2.72
E5563564 (9422178)		3.15
E5563565 (9422179)		2.93
E5563566 (9422180)		2.93
E5563567 (9422181)		2.64
E5563568 (9422182)		2.62
E5563569 (9422183)		2.63
E5563570 (9422184)		2.73
E5563571 (9422185)		2.74
E5563572 (9422186)		3.20
E5563573 (9422187)		3.20

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563574 (9422188)		3.17
E5563575 (9422189)		3.03
E5563576 (9422190)		2.99
E5563577 (9422191)		2.97
E5563578 (9422192)		3.06
E5563579 (9422193)		2.97
E5563580 (9422194)		3.25
E5563581 (9422195)		3.22
E5563582 (9422196)		2.92
E5563583 (9422197)		2.70
E5563584 (9422198)		3.07
E5563585 (9422199)		3.01
E5563586 (9422200)		3.02
E5563587 (9422201)		3.15
E5563588 (9422202)		3.25
E5563589 (9422203)		3.15
E5563590 (9422204)		3.20
E5563591 (9422205)		2.68
E5563592 (9422206)		3.01
E5563593 (9422207)		3.01
E5563594 (9422208)		2.99
E5563595 (9422209)		2.99
E5563596 (9422210)		2.84
E5563597 (9422211)		2.79
E5563598 (9422212)		2.79
E5563599 (9422213)		2.82
E5563600 (9422214)		2.74
E5563601 (9422215)		2.64
E5563602 (9422216)		2.90
E5563603 (9422217)		2.95

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Li ppm 10	Li2O % 0.001	Ta ppm 0.5	Nb ppm 1	Sn ppm 1	Cs ppm 0.1	Rb ppm 0.2	K % 0.05	Mg % 0.01	Fe % 0.01	P % 0.01	Al % 0.01	Si % 0.01	Be ppm 5
389601 (9422124)		227	0.049	<0.5	2	5	68.4	85.0	0.24	3.11	8.50	0.03	7.86	22.1	<5
389602 (9422125)		187	0.040	<0.5	2	3	1.7	13.7	0.18	2.58	8.32	0.03	7.75	22.1	<5
389603 (9422126)		201	0.043	<0.5	1	4	6.0	25.6	0.27	3.24	12.6	0.03	6.71	19.6	<5
389604 (9422127)		204	0.044	<0.5	1	3	3.9	21.9	0.25	3.11	12.4	0.03	6.65	19.3	<5
389605 (9422128)		136	0.029	<0.5	2	3	1.6	11.8	0.20	2.53	8.09	0.03	7.87	22.5	<5
389606 (9422129)		214	0.046	<0.5	2	5	4.7	27.7	0.29	2.65	8.38	0.03	8.22	22.1	5
389607 (9422130)		1200	0.259	5.2	3	6	670	1100	0.87	2.41	7.40	0.03	7.62	23.1	14
389608 (9422131)		1220	0.262	60.8	24	20	818	2650	1.59	0.30	1.05	0.10	8.29	32.1	167
389609 (9422132)		1110	0.239	170	153	39	598	2530	1.67	0.08	0.60	0.21	8.91	30.7	383
389610 (9422133)		3510	0.756	87.8	88	36	537	2900	2.29	0.10	0.65	0.07	7.94	32.5	234
389611 (9422134)		14	0.003	<0.5	<1	3	0.2	2.6	<0.05	<0.01	0.33	<0.01	0.11	44.2	<5
389612 (9422135)		11300	2.44	84.4	67	47	645	2270	1.59	0.10	0.88	0.04	8.24	33.9	768
389613 (9422136)		10900	2.35	55.2	60	38	472	1950	1.37	0.17	0.85	0.06	7.95	34.3	127
389614 (9422137)		937	0.202	33.8	38	16	459	2610	2.50	0.13	0.53	0.12	8.43	32.3	124
389615 (9422138)		6920	1.49	24.3	23	21	680	3380	3.25	0.07	0.53	0.09	9.38	31.7	371
389616 (9422139)		6410	1.38	108	79	37	923	3600	2.81	0.27	1.10	0.21	8.39	31.8	148
389617 (9422140)		2270	0.489	54.5	40	24	677	4960	4.95	0.06	0.45	0.09	7.78	32.5	426
389618 (9422141)		5600	1.21	73.9	40	12	665	5580	5.49	0.02	0.51	0.06	8.80	31.4	30
389619 (9422142)		9450	2.03	27.1	5760	3310	362	828	1.37	0.56	4.25	0.12	7.77	29.9	29
389620 (9422143)		4660	1.00	64.7	85	66	576	3880	3.26	0.13	0.85	0.07	7.52	33.2	527
389621 (9422144)		866	0.186	5.1	9	13	85.4	175	0.42	2.37	9.42	0.03	8.39	22.9	16
389622 (9422145)		500	0.108	2.8	6	7	472	748	0.77	3.11	8.77	0.03	7.92	23.0	9
389623 (9422146)		199	0.043	<0.5	3	5	3.3	20.7	0.22	3.78	8.66	0.02	7.81	22.1	<5
389624 (9422147)		290	0.062	<0.5	2	4	66.9	71.3	0.27	2.83	8.77	0.03	7.78	22.9	<5
389625 (9422148)		242	0.052	<0.5	2	4	9.2	26.7	0.20	2.61	8.53	0.02	8.25	22.3	<5
389626 (9422149)		251	0.054	<0.5	2	3	33.8	44.2	0.21	3.65	9.42	0.02	7.73	21.8	<5
389627 (9422150)		238	0.051	<0.5	2	3	4.0	19.1	0.15	3.41	8.16	0.03	7.53	22.1	<5
389628 (9422151)		646	0.139	<0.5	2	4	7.2	27.7	0.18	3.99	8.31	0.03	7.61	22.3	<5
389629 (9422152)		1090	0.235	<0.5	1	3	214	311	0.38	4.71	8.42	0.02	7.78	22.1	<5
389630 (9422153)		1260	0.271	67.7	55	28	234	2090	1.87	0.09	0.61	0.06	8.46	32.6	150
389631 (9422154)		12	0.003	<0.5	<1	3	0.1	2.1	<0.05	<0.01	0.34	<0.01	0.12	45.1	<5
389632 (9422155)		4860	1.05	71.4	46	25	285	2810	2.95	0.07	0.53	0.07	8.34	32.3	45

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Li ppm 10	Li2O % 0.001	Ta ppm 0.5	Nb ppm 1	Sn ppm 1	Cs ppm 0.1	Rb ppm 0.2	K % 0.05	Mg % 0.01	Fe % 0.01	P % 0.01	Al % 0.01	Si % 0.01	Be ppm 5
389633 (9422156)		654	0.141	34.5	28	16	318	5560	5.87	0.08	0.40	0.08	8.55	30.7	90
389634 (9422157)		215	0.046	<0.5	2	3	6.0	54.2	0.26	3.74	8.10	0.03	7.60	22.1	<5
389635 (9422158)		233	0.050	<0.5	2	3	8.7	33.2	0.21	2.74	7.61	0.03	8.13	22.7	<5
389636 (9422159)		222	0.048	<0.5	2	4	2.1	34.8	0.27	3.41	8.31	0.03	7.62	21.4	6
389637 (9422160)		401	0.086	4.5	3	6	60.9	207	0.62	4.25	8.21	0.04	7.60	21.3	9
389638 (9422161)		873	0.188	108	98	30	314	2920	2.34	0.21	0.55	0.21	8.98	31.1	85
389639 (9422162)		4150	0.893	97.2	76	28	492	2930	2.46	0.07	0.52	0.16	8.51	31.8	614
389640 (9422163)		3330	0.717	89.6	84	22	297	2180	1.95	0.05	0.44	0.09	7.49	35.1	120
389641 (9422164)		1190	0.255	39.1	24	13	452	4880	4.78	0.02	0.19	0.07	7.65	32.8	24
389642 (9422165)		7340	1.58	115	105	42	387	2610	2.19	0.10	0.61	0.06	6.66	35.1	303
389643 (9422166)		10900	2.34	139	84	26	351	1710	1.26	0.08	0.58	0.10	9.43	31.7	175
389644 (9422167)		252	0.054	<0.5	3	3	4.7	24.4	0.29	2.34	8.31	0.03	8.45	22.5	<5
389645 (9422168)		392	0.084	2.0	2	4	229	278	0.92	2.80	8.12	0.03	7.99	22.5	<5
389646 (9422169)		2340	0.503	112	91	10	119	865	0.87	0.08	0.56	0.06	8.04	34.3	130
389647 (9422170)		82	0.018	242	78	7	113	996	1.07	0.08	0.30	0.14	8.05	32.8	207
389648 (9422171)		309	0.067	<0.5	2	3	15.6	71.7	0.46	2.69	7.91	0.03	8.27	22.7	<5
389649 (9422172)		202	0.044	<0.5	2	4	13.4	25.2	0.25	2.87	7.16	0.03	8.22	22.8	<5
389650 (9422173)		162	0.035	153	103	9	80.1	598	0.50	0.02	0.29	0.11	8.00	33.9	79
E5563560 (9422174)		514	0.111	14.2	8	3	79.6	298	0.78	2.89	7.61	0.07	7.96	22.3	7
E5563561 (9422175)		198	0.043	<0.5	2	2	2.6	17.7	0.31	2.47	7.35	0.04	8.62	23.2	<5
E5563562 (9422176)		205	0.044	<0.5	2	3	6.3	76.8	0.39	3.68	7.97	0.05	8.28	21.4	<5
E5563563 (9422177)		58	0.012	84.7	20	7	123	2230	3.15	0.43	0.78	0.13	8.50	29.7	53
E5563564 (9422178)		226	0.049	<0.5	2	3	18.2	113	0.60	4.27	8.84	0.03	8.14	20.4	<5
E5563565 (9422179)		612	0.132	<0.5	2	3	35.1	63.9	0.29	5.27	7.41	0.02	7.09	20.0	7
E5563566 (9422180)		1110	0.238	<0.5	2	5	589	401	0.56	4.24	8.30	0.03	7.81	21.2	11
E5563567 (9422181)		84	0.018	228	120	12	154	685	0.50	0.12	0.43	0.14	10.3	28.8	10
E5563568 (9422182)		87	0.019	571	75	15	113	663	0.39	0.02	0.20	0.10	10.3	29.5	<5
E5563569 (9422183)		<10	0.001	320	102	5	13.9	78.4	0.14	<0.01	0.13	0.10	10.1	29.7	14
E5563570 (9422184)		61	0.013	212	67	10	135	730	0.45	0.02	0.21	0.21	10.2	29.0	5
E5563571 (9422185)		16	0.003	<0.5	<1	2	0.1	1.4	<0.05	<0.01	0.34	<0.01	0.12	44.5	<5
E5563572 (9422186)		2320	0.499	1.4	2	5	1350	904	0.70	3.11	7.65	0.07	8.41	21.7	<5
E5563573 (9422187)		266	0.057	<0.5	2	2	22.0	51.8	0.34	3.33	8.25	0.04	8.83	21.1	<5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018	DATE RECEIVED: Jul 24, 2018						DATE REPORTED: Aug 10, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563574 (9422188)	252	0.054	<0.5	2	2	24.6	99.4	0.73	3.37	8.20	0.03	8.53	22.1	<5	
E5563575 (9422189)	194	0.042	<0.5	1	3	9.6	32.7	0.35	2.98	8.92	0.02	7.57	20.3	<5	
E5563576 (9422190)	133	0.029	<0.5	1	5	4.2	26.7	0.28	2.56	7.24	0.02	8.32	23.8	<5	
E5563577 (9422191)	188	0.040	7.9	3	2	102	82.4	0.34	2.96	8.12	0.04	8.40	22.3	<5	
E5563578 (9422192)	207	0.045	6.9	2	2	27.3	25.5	0.15	2.58	7.77	0.03	8.43	22.3	<5	
E5563579 (9422193)	9940	2.14	27.8	5820	3360	374	868	1.46	0.54	4.19	0.11	7.97	30.7	30	
E5563580 (9422194)	198	0.043	<0.5	2	3	7.1	16.6	0.15	2.56	7.54	0.03	8.39	23.0	<5	
E5563581 (9422195)	370	0.080	<0.5	2	4	52.8	178	0.41	2.85	7.36	0.05	8.65	22.6	<5	
E5563582 (9422196)	6710	1.44	64.0	77	56	603	2610	2.14	0.19	1.06	0.13	9.04	32.0	372	
E5563583 (9422197)	2590	0.557	70.5	56	27	339	2120	2.16	0.11	0.60	0.08	7.67	35.2	28	
E5563584 (9422198)	252	0.054	<0.5	2	4	17.7	88.9	0.32	3.31	8.04	0.04	7.91	21.8	<5	
E5563585 (9422199)	188	0.041	<0.5	1	3	4.5	18.7	0.18	2.81	7.82	0.02	7.38	21.4	<5	
E5563586 (9422200)	139	0.030	<0.5	1	2	2.9	11.4	0.15	3.63	8.19	0.02	7.81	22.0	<5	
E5563587 (9422201)	178	0.038	<0.5	2	2	2.9	16.3	0.17	2.95	7.80	0.02	8.20	21.6	<5	
E5563588 (9422202)	203	0.044	<0.5	2	2	3.9	19.8	0.18	2.87	7.90	0.03	8.43	22.2	<5	
E5563589 (9422203)	179	0.038	<0.5	1	3	3.2	14.1	0.15	2.92	8.25	0.02	7.26	21.2	<5	
E5563590 (9422204)	225	0.048	3.1	2	3	6.7	27.2	0.22	3.40	8.77	0.02	7.47	19.4	<5	
E5563591 (9422205)	17	0.004	<0.5	<1	2	<0.1	1.67	<0.05	<0.01	0.35	<0.01	0.12	45.1	<5	
E5563592 (9422206)	208	0.045	<0.5	2	2	6.5	18.7	0.19	2.84	7.81	0.03	7.88	21.0	<5	
E5563593 (9422207)	156	0.033	<0.5	1	2	3.0	10.2	0.13	2.63	7.45	0.02	8.00	22.5	<5	
E5563594 (9422208)	161	0.035	<0.5	1	2	1.7	13.6	0.15	2.61	7.60	0.02	8.03	21.9	<5	
E5563595 (9422209)	275	0.059	<0.5	2	3	9.2	69.3	0.34	3.53	8.30	0.02	8.29	22.3	<5	
E5563596 (9422210)	2130	0.459	16.7	1070	774	259	1200	1.64	0.56	3.15	0.16	4.97	33.9	37	
E5563597 (9422211)	82	0.018	125	64	11	162	1750	2.12	0.10	0.42	0.08	8.62	31.5	87	
E5563598 (9422212)	4240	0.913	74.4	74	21	237	1900	2.04	0.08	0.54	0.05	8.36	34.4	264	
E5563599 (9422213)	2060	0.444	67.5	70	16	187	1260	1.35	0.22	0.58	0.03	8.01	34.0	144	
E5563600 (9422214)	70	0.015	68.3	40	7	352	3050	3.45	0.04	0.47	0.09	8.26	31.4	25	
E5563601 (9422215)	180	0.039	91.6	62	17	223	1950	1.97	0.06	0.48	0.05	7.06	37.0	164	
E5563602 (9422216)	1050	0.226	<0.5	3	4	150	393	0.68	3.93	7.54	0.03	7.62	22.9	12	
E5563603 (9422217)	320	0.069	<0.5	3	3	21.8	67.7	0.47	4.09	8.28	0.04	8.55	21.9	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	B ppm 20	Mn ppm 10	Mo ppm 2	Bi ppm 0.1	As ppm 5	Ag ppm 1	Ba ppm 0.5	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cu ppm 5	Dy ppm 0.05
389601 (9422124)		<20	2040	4	0.5	<5	<1	62.5	9.59	<0.2	7.4	57.6	0.029	112	3.21
389602 (9422125)		<20	2030	4	0.9	<5	<1	30.9	11.0	<0.2	6.9	54.3	0.027	73	3.19
389603 (9422126)		27	3570	4	2.0	<5	<1	54.6	11.4	<0.2	6.7	47.2	0.022	474	2.94
389604 (9422127)		26	3480	3	1.8	<5	<1	66.5	10.7	<0.2	7.1	52.9	0.022	696	2.64
389605 (9422128)		<20	1840	5	0.6	<5	<1	31.4	9.63	<0.2	7.4	55.8	0.029	129	3.33
389606 (9422129)		<20	2050	3	0.5	<5	<1	32.1	9.76	0.3	7.6	56.0	0.029	161	3.43
389607 (9422130)		<20	2000	4	6.5	5	<1	108	8.56	0.3	9.4	45.0	0.022	173	2.71
389608 (9422131)		<20	585	8	2.1	<5	<1	313	0.96	<0.2	8.8	4.0	<0.005	13	0.39
389609 (9422132)		<20	1070	5	2.9	<5	2	17.1	0.55	<0.2	4.0	1.4	<0.005	7	0.13
389610 (9422133)		26	694	6	0.5	<5	1	17.7	0.24	<0.2	1.0	1.4	<0.005	<5	0.06
389611 (9422134)		<20	26	<2	0.2	<5	<1	4.0	<0.05	<0.2	2.2	<0.5	<0.005	<5	0.20
389612 (9422135)		<20	899	10	0.7	<5	1	9.4	0.15	<0.2	0.3	1.3	0.007	<5	<0.05
389613 (9422136)		<20	800	8	0.4	<5	<1	15.4	0.26	<0.2	0.4	1.1	0.005	<5	<0.05
389614 (9422137)		<20	388	7	0.2	<5	<1	72.8	0.39	<0.2	0.7	0.8	<0.005	6	<0.05
389615 (9422138)		<20	521	6	0.9	<5	<1	74.8	0.26	<0.2	0.6	0.6	<0.005	<5	<0.05
389616 (9422139)		<20	916	9	1.0	<5	1	90.8	0.64	<0.2	4.7	2.8	<0.005	6	0.25
389617 (9422140)		<20	457	7	21.4	<5	<1	68.5	0.24	<0.2	0.4	0.8	<0.005	<5	<0.05
389618 (9422141)		<20	278	11	0.8	<5	<1	62.8	0.18	<0.2	0.7	0.6	0.005	<5	<0.05
389619 (9422142)		28	437	11	43.7	142	116	2760	1.08	<0.2	442	8.2	0.010	335	4.65
389620 (9422143)		20	736	10	3.6	<5	1	48.4	0.29	<0.2	1.2	1.5	0.006	<5	<0.05
389621 (9422144)		<20	2480	4	1.5	<5	<1	99.2	9.30	<0.2	7.3	54.2	0.032	39	3.04
389622 (9422145)		<20	1950	3	0.8	<5	<1	83.2	6.71	<0.2	6.8	55.7	0.032	79	3.12
389623 (9422146)		<20	1680	2	0.5	<5	<1	21.3	9.10	<0.2	6.8	53.2	0.030	110	3.12
389624 (9422147)		<20	2260	4	0.5	<5	<1	48.0	8.25	<0.2	6.7	52.4	0.032	167	3.08
389625 (9422148)		<20	2130	3	0.7	<5	<1	32.8	9.27	<0.2	7.6	54.1	0.032	109	3.30
389626 (9422149)		<20	1960	3	0.3	<5	<1	31.9	9.21	<0.2	6.7	54.2	0.031	128	3.08
389627 (9422150)		<20	1470	4	0.5	<5	<1	23.3	10.8	<0.2	6.4	49.2	0.030	162	2.82
389628 (9422151)		<20	1570	3	0.2	<5	<1	26.6	9.16	<0.2	7.0	54.0	0.031	130	3.11
389629 (9422152)		<20	1520	<2	0.3	<5	<1	33.3	8.36	<0.2	6.5	53.0	0.031	141	3.02
389630 (9422153)		<20	487	6	1.3	<5	1	21.6	0.45	<0.2	0.4	1.2	<0.005	<5	0.06
389631 (9422154)		<20	28	<2	0.1	<5	<1	3.8	<0.05	<0.2	2.3	0.5	<0.005	<5	0.22
389632 (9422155)		<20	519	6	1.5	<5	<1	36.1	0.29	<0.2	0.9	0.8	<0.005	<5	0.05

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05
389633 (9422156)	<20	295	5	1.2	<5	<1	79.2	0.28	<0.2	0.5	0.8	<0.005	<5	<0.05
389634 (9422157)	<20	1670	3	0.4	<5	<1	70.6	9.30	0.3	6.6	51.4	0.030	147	2.99
389635 (9422158)	<20	1790	3	0.3	<5	<1	58.1	9.93	<0.2	6.9	51.5	0.031	127	3.05
389636 (9422159)	22	1860	3	0.7	<5	<1	34.2	10.1	<0.2	6.5	48.0	0.028	53	2.88
389637 (9422160)	27	1750	3	0.6	<5	<1	138	8.36	<0.2	8.1	51.6	0.031	72	3.06
389638 (9422161)	22	1080	4	0.7	<5	2	24.2	0.61	<0.2	1.9	1.5	<0.005	17	0.30
389639 (9422162)	<20	786	6	1.4	<5	1	28.2	0.37	<0.2	1.3	0.7	<0.005	<5	0.10
389640 (9422163)	<20	546	7	0.9	<5	2	26.3	0.23	<0.2	0.8	0.6	<0.005	<5	0.07
389641 (9422164)	<20	174	4	0.7	<5	<1	53.5	0.18	<0.2	0.3	<0.5	<0.005	<5	<0.05
389642 (9422165)	<20	590	7	1.5	<5	2	24.0	0.18	0.2	0.6	0.9	0.006	<5	<0.05
389643 (9422166)	<20	924	7	1.0	<5	2	16.0	0.27	<0.2	0.8	0.5	<0.005	<5	0.05
389644 (9422167)	<20	2120	3	0.3	<5	<1	28.2	7.61	0.2	7.6	54.9	0.034	71	3.29
389645 (9422168)	31	2000	3	0.5	<5	<1	142	6.80	<0.2	7.5	56.8	0.032	135	3.23
389646 (9422169)	<20	1190	8	6.2	<5	2	12.6	0.30	<0.2	2.3	1.0	<0.005	<5	0.08
389647 (9422170)	<20	414	4	1.6	<5	2	7.1	0.41	<0.2	1.1	0.8	<0.005	7	0.13
389648 (9422171)	<20	2000	3	0.6	<5	<1	84.1	8.99	<0.2	7.4	59.5	0.033	135	3.47
389649 (9422172)	<20	1740	<2	0.4	<5	11	53.0	8.29	<0.2	7.6	59.2	0.033	113	3.52
389650 (9422173)	<20	466	6	1.4	<5	2	8.7	0.43	<0.2	1.4	<0.5	<0.005	7	0.15
E5563560 (9422174)	21	1720	5	1.0	<5	<1	263	8.36	<0.2	28.8	53.6	0.034	164	3.39
E5563561 (9422175)	<20	1780	4	0.4	<5	<1	42.6	8.62	<0.2	9.3	58.8	0.034	61	3.36
E5563562 (9422176)	<20	1460	<2	0.4	<5	<1	57.0	8.02	<0.2	14.7	45.5	0.034	99	3.45
E5563563 (9422177)	<20	191	3	1.1	<5	<1	72.6	1.97	<0.2	2.9	2.7	<0.005	15	0.31
E5563564 (9422178)	<20	1530	<2	0.4	<5	<1	79.8	8.45	<0.2	16.4	51.3	0.033	141	3.55
E5563565 (9422179)	27	910	2	1.7	6	<1	40.1	7.12	<0.2	8.7	62.2	0.024	342	2.86
E5563566 (9422180)	93	1510	2	1.1	14	<1	45.8	5.84	<0.2	7.8	47.0	0.031	125	2.52
E5563567 (9422181)	<20	196	4	0.3	<5	2	10.4	1.13	<0.2	2.5	1.7	<0.005	42	0.53
E5563568 (9422182)	<20	165	3	0.5	<5	1	7.4	0.59	<0.2	2.2	<0.5	<0.005	6	0.22
E5563569 (9422183)	<20	102	3	0.7	<5	2	4.3	0.55	<0.2	1.8	<0.5	<0.005	6	0.29
E5563570 (9422184)	<20	230	4	0.6	<5	1	7.0	0.95	<0.2	1.8	0.6	<0.005	17	0.34
E5563571 (9422185)	<20	27	<2	<0.1	<5	<1	4.3	<0.05	<0.2	2.5	<0.5	<0.005	<5	0.18
E5563572 (9422186)	<20	1820	3	0.5	<5	<1	47.5	7.29	<0.2	7.6	55.8	0.033	122	3.02
E5563573 (9422187)	<20	1990	2	0.3	<5	<1	72.2	9.38	<0.2	8.7	60.9	0.035	76	3.49

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05
E5563574 (9422188)	28	1940	2	0.3	<5	<1	157	7.58	<0.2	7.9	54.4	0.033	59	3.38
E5563575 (9422189)	<20	2120	<2	0.3	<5	<1	73.8	9.03	<0.2	7.1	57.5	0.029	433	3.32
E5563576 (9422190)	<20	1640	4	0.1	<5	<1	62.3	7.92	<0.2	7.4	58.1	0.032	95	3.07
E5563577 (9422191)	<20	1740	3	0.2	<5	<1	67.1	8.34	<0.2	7.0	54.7	0.034	99	3.09
E5563578 (9422192)	<20	1780	2	0.2	<5	<1	30.6	9.50	<0.2	7.2	56.8	0.032	156	3.39
E5563579 (9422193)	31	427	11	44.8	144	137	2830	1.08	<0.2	443	8.4	0.010	328	4.74
E5563580 (9422194)	<20	1790	3	0.1	<5	<1	29.5	9.33	<0.2	7.5	53.5	0.033	92	3.40
E5563581 (9422195)	<20	1810	3	0.6	<5	<1	99.3	8.76	0.4	7.7	60.7	0.033	148	3.38
E5563582 (9422196)	21	999	7	2.1	<5	1	36.2	0.74	<0.2	1.4	2.9	<0.005	14	0.16
E5563583 (9422197)	<20	502	7	1.6	<5	1	55.0	0.37	<0.2	0.7	1.1	<0.005	8	0.07
E5563584 (9422198)	<20	1860	3	0.4	<5	<1	77.0	9.47	<0.2	6.8	53.8	0.031	59	2.95
E5563585 (9422199)	<20	1880	3	0.3	<5	<1	42.3	11.6	<0.2	6.5	52.4	0.028	139	2.95
E5563586 (9422200)	<20	1590	3	0.2	<5	<1	45.7	9.35	<0.2	7.0	52.8	0.030	142	3.06
E5563587 (9422201)	<20	1780	3	0.1	<5	<1	51.8	10.2	<0.2	7.3	54.3	0.031	115	3.21
E5563588 (9422202)	<20	1870	3	0.1	<5	<1	51.6	9.53	<0.2	7.2	54.3	0.033	84	3.10
E5563589 (9422203)	<20	1900	3	0.2	<5	<1	41.3	10.8	0.5	6.4	58.8	0.028	390	2.90
E5563590 (9422204)	<20	1920	<2	0.2	<5	<1	58.2	10.4	<0.2	6.2	55.0	0.028	256	2.80
E5563591 (9422205)	<20	28	<2	<0.1	<5	<1	4.3	<0.05	<0.2	2.3	0.6	<0.005	<5	0.18
E5563592 (9422206)	<20	1800	2	0.1	<5	<1	51.1	11.1	<0.2	7.3	53.9	0.030	162	3.17
E5563593 (9422207)	<20	1740	3	0.1	<5	<1	51.2	10.4	<0.2	7.0	52.9	0.030	111	3.24
E5563594 (9422208)	<20	1860	3	0.2	<5	<1	66.8	10.3	<0.2	6.7	51.4	0.030	114	3.09
E5563595 (9422209)	<20	1860	3	0.3	<5	<1	76.3	8.42	<0.2	7.1	55.2	0.033	79	3.40
E5563596 (9422210)	24	370	8	11.4	37	26	1900	1.13	<0.2	1160	7.6	0.007	285	9.06
E5563597 (9422211)	<20	548	7	0.5	<5	1	27.6	0.48	<0.2	0.8	1.1	<0.005	10	0.22
E5563598 (9422212)	<20	604	7	1.0	<5	1	34.2	0.22	<0.2	0.7	0.9	<0.005	<5	0.06
E5563599 (9422213)	21	673	6	2.1	<5	1	93.4	0.44	<0.2	1.1	1.2	<0.005	<5	0.13
E5563600 (9422214)	<20	191	11	0.8	<5	<1	49.9	0.40	<0.2	1.0	0.5	<0.005	<5	0.09
E5563601 (9422215)	<20	482	8	1.8	<5	1	19.7	0.28	<0.2	1.1	0.8	<0.005	<5	0.18
E5563602 (9422216)	27	1250	4	0.4	<5	<1	55.6	6.59	<0.2	8.7	45.2	0.018	93	3.33
E5563603 (9422217)	<20	1470	3	0.2	<5	<1	84.1	8.02	0.2	11.5	50.2	0.018	92	4.24

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
389601 (9422124)	2.00	0.67	15.5	2.66	2	1	0.66	<0.2	2.8	0.33	5.7	150	<5	1.13
389602 (9422125)	2.11	0.59	16.6	2.55	3	1	0.67	<0.2	2.6	0.31	5.3	142	<5	1.06
389603 (9422126)	1.87	0.52	14.8	2.20	3	1	0.62	<0.2	2.6	0.30	4.9	120	<5	1.00
389604 (9422127)	1.70	0.58	15.1	2.19	2	1	0.57	<0.2	3.0	0.27	5.1	132	<5	1.03
389605 (9422128)	2.14	0.69	17.0	2.68	2	1	0.72	<0.2	2.7	0.31	5.7	157	<5	1.10
389606 (9422129)	2.20	0.66	16.7	2.76	2	1	0.72	<0.2	3.0	0.33	5.8	155	<5	1.13
389607 (9422130)	1.61	0.58	18.3	2.13	2	2	0.54	<0.2	4.5	0.24	5.4	125	7	1.20
389608 (9422131)	0.17	0.23	30.1	0.65	4	2	0.07	<0.2	4.4	<0.05	3.9	44	<5	1.04
389609 (9422132)	0.05	<0.05	60.0	0.31	6	6	<0.05	<0.2	1.7	<0.05	2.3	26	<5	0.52
389610 (9422133)	<0.05	<0.05	52.7	0.06	6	3	<0.05	<0.2	0.5	<0.05	0.4	37	<5	0.11
389611 (9422134)	0.11	<0.05	0.24	0.17	<1	<1	<0.05	<0.2	1.0	<0.05	0.8	8	<5	0.23
389612 (9422135)	<0.05	<0.05	68.3	<0.05	6	2	<0.05	<0.2	0.2	<0.05	0.1	55	<5	<0.05
389613 (9422136)	<0.05	<0.05	62.4	<0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.1	37	<5	<0.05
389614 (9422137)	<0.05	<0.05	40.9	0.07	6	<1	<0.05	<0.2	0.4	<0.05	0.3	36	6	0.08
389615 (9422138)	<0.05	<0.05	49.3	0.07	6	<1	<0.05	<0.2	0.4	<0.05	0.4	29	8	0.09
389616 (9422139)	0.11	0.12	55.6	0.43	6	<1	<0.05	<0.2	2.3	<0.05	2.4	47	<5	0.60
389617 (9422140)	<0.05	<0.05	39.1	<0.05	6	<1	<0.05	<0.2	0.3	<0.05	0.1	33	8	<0.05
389618 (9422141)	<0.05	<0.05	38.0	<0.05	8	<1	<0.05	<0.2	0.2	<0.05	0.1	52	9	<0.05
389619 (9422142)	1.69	4.30	48.2	11.4	7	5	0.72	11.9	258	0.23	145	40	35	47.2
389620 (9422143)	<0.05	<0.05	56.9	0.05	6	<1	<0.05	<0.2	0.7	<0.05	0.4	51	<5	0.12
389621 (9422144)	1.97	0.64	19.1	2.56	3	1	0.65	<0.2	2.7	0.32	5.4	164	<5	1.04
389622 (9422145)	1.88	0.62	17.8	2.55	2	1	0.62	<0.2	2.6	0.28	5.5	171	<5	1.06
389623 (9422146)	1.99	0.60	16.3	2.52	2	1	0.68	<0.2	2.5	0.29	5.6	147	<5	1.06
389624 (9422147)	2.06	0.63	15.4	2.58	2	1	0.68	<0.2	2.5	0.32	5.5	161	6	1.00
389625 (9422148)	2.14	0.69	17.2	2.83	2	1	0.69	<0.2	2.9	0.33	5.9	161	<5	1.16
389626 (9422149)	1.97	0.66	15.6	2.57	2	1	0.64	<0.2	2.5	0.30	5.3	159	<5	1.02
389627 (9422150)	1.88	0.63	15.8	2.36	2	1	0.61	<0.2	2.4	0.29	4.9	163	<5	0.99
389628 (9422151)	2.05	0.65	16.0	2.46	2	1	0.68	<0.2	2.5	0.33	5.5	157	<5	1.02
389629 (9422152)	1.85	0.62	15.7	2.46	2	1	0.66	<0.2	2.3	0.30	5.1	152	<5	1.01
389630 (9422153)	<0.05	<0.05	59.2	<0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.2	34	<5	0.05
389631 (9422154)	0.14	<0.05	0.26	0.19	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	10	<5	0.26
389632 (9422155)	<0.05	<0.05	55.3	0.07	6	1	<0.05	<0.2	0.4	<0.05	0.4	7	<5	0.10

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
389633 (9422156)	<0.05	<0.05	38.2	<0.05	6	1	<0.05	<0.2	0.2	<0.05	0.2	8	11	<0.05
389634 (9422157)	1.80	0.63	15.9	2.40	2	1	0.64	<0.2	2.5	0.30	5.6	138	<5	1.00
389635 (9422158)	2.04	0.71	16.4	2.48	2	1	0.65	<0.2	2.6	0.31	5.6	140	<5	1.07
389636 (9422159)	1.91	0.63	16.4	2.41	2	1	0.63	<0.2	2.5	0.30	5.1	122	<5	0.99
389637 (9422160)	2.08	0.67	18.0	2.60	3	2	0.67	<0.2	3.2	0.31	5.9	128	<5	1.17
389638 (9422161)	0.19	0.06	56.5	0.32	6	4	0.07	<0.2	1.0	<0.05	0.9	7	<5	0.23
389639 (9422162)	<0.05	<0.05	51.7	0.14	6	1	<0.05	<0.2	0.6	<0.05	0.6	7	<5	0.13
389640 (9422163)	<0.05	<0.05	43.2	0.09	6	1	<0.05	<0.2	0.4	<0.05	0.4	8	<5	0.10
389641 (9422164)	<0.05	<0.05	29.4	<0.05	7	<1	<0.05	<0.2	0.1	<0.05	0.2	<5	8	<0.05
389642 (9422165)	<0.05	<0.05	51.9	<0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.2	9	<5	0.07
389643 (9422166)	<0.05	<0.05	63.5	<0.05	7	3	<0.05	<0.2	0.4	<0.05	0.2	6	<5	0.09
389644 (9422167)	2.06	0.73	18.5	2.72	2	2	0.66	<0.2	2.8	0.32	6.0	143	34	1.11
389645 (9422168)	2.10	0.72	18.1	2.59	2	1	0.74	<0.2	2.9	0.34	5.7	137	<5	1.07
389646 (9422169)	0.06	<0.05	42.0	0.12	6	7	<0.05	<0.2	0.7	<0.05	0.8	47	<5	0.23
389647 (9422170)	0.06	<0.05	37.5	0.11	7	3	<0.05	<0.2	0.4	<0.05	0.6	10	<5	0.14
389648 (9422171)	2.19	0.75	17.2	2.79	2	2	0.74	<0.2	2.7	0.35	5.7	141	<5	1.12
389649 (9422172)	2.31	0.77	18.1	2.88	2	1	0.75	<0.2	2.9	0.36	6.0	126	12	1.19
389650 (9422173)	0.09	0.11	39.7	0.27	6	2	<0.05	<0.2	0.6	<0.05	1.1	30	<5	0.23
E5563560 (9422174)	2.05	1.04	18.9	3.77	2	2	0.68	<0.2	12.2	0.32	15.6	152	<5	3.70
E5563561 (9422175)	2.07	0.74	17.3	2.89	2	2	0.69	<0.2	3.6	0.32	6.6	170	<5	1.36
E5563562 (9422176)	2.31	0.88	19.8	3.19	2	1	0.75	<0.2	6.7	0.34	9.0	127	<5	1.97
E5563563 (9422177)	0.19	0.08	33.7	0.49	5	1	0.06	<0.2	1.5	<0.05	1.7	13	7	0.34
E5563564 (9422178)	2.18	0.80	16.7	3.06	2	2	0.73	<0.2	8.0	0.37	9.2	123	<5	2.06
E5563565 (9422179)	1.99	0.60	18.8	2.38	2	1	0.64	<0.2	3.7	0.35	5.7	122	<5	1.20
E5563566 (9422180)	1.60	0.51	20.5	1.95	3	1	0.53	<0.2	3.6	0.28	4.7	131	<5	1.02
E5563567 (9422181)	0.25	0.16	34.7	0.60	13	2	0.11	<0.2	1.0	<0.05	1.8	11	<5	0.39
E5563568 (9422182)	0.12	0.09	38.0	0.28	13	2	<0.05	<0.2	0.9	<0.05	1.3	10	<5	0.29
E5563569 (9422183)	0.20	0.06	41.9	0.36	9	3	0.07	<0.2	0.6	<0.05	1.2	8	<5	0.26
E5563570 (9422184)	0.18	0.06	46.2	0.43	8	4	0.06	<0.2	0.7	<0.05	1.2	5	<5	0.24
E5563571 (9422185)	0.12	<0.05	0.26	0.21	<1	<1	<0.05	<0.2	1.2	<0.05	1.0	8	<5	0.29
E5563572 (9422186)	1.98	0.63	20.6	2.48	3	1	0.65	<0.2	3.1	0.30	5.6	140	<5	1.10
E5563573 (9422187)	2.25	0.73	18.3	2.91	2	2	0.74	<0.2	3.4	0.35	6.7	159	<5	1.28

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563574 (9422188)	2.11	0.72	17.1	2.78	2	2	0.69	<0.2	2.9	0.32	6.0	145	<5	1.19
E5563575 (9422189)	2.27	0.63	15.9	2.54	2	1	0.71	<0.2	2.7	0.35	5.5	132	<5	1.04
E5563576 (9422190)	1.96	0.70	16.9	2.42	2	1	0.67	<0.2	2.9	0.29	6.0	167	<5	1.12
E5563577 (9422191)	1.98	0.65	17.6	2.48	2	1	0.66	<0.2	2.5	0.31	5.5	181	<5	1.06
E5563578 (9422192)	2.13	0.66	17.3	2.62	2	1	0.71	<0.2	2.7	0.33	5.9	151	<5	1.11
E5563579 (9422193)	1.82	4.43	49.0	11.9	7	5	0.74	12.0	261	0.21	149	36	34	47.7
E5563580 (9422194)	2.12	0.76	17.5	2.86	2	1	0.73	<0.2	2.9	0.31	5.9	153	<5	1.14
E5563581 (9422195)	2.26	0.71	18.6	2.67	2	1	0.73	<0.2	3.0	0.34	6.2	155	24	1.13
E5563582 (9422196)	0.10	<0.05	78.1	0.16	5	<1	<0.05	<0.2	0.7	<0.05	0.5	39	<5	0.15
E5563583 (9422197)	<0.05	<0.05	48.3	0.09	5	<1	<0.05	<0.2	0.3	<0.05	0.4	36	<5	0.09
E5563584 (9422198)	1.89	0.67	16.0	2.52	2	1	0.67	<0.2	2.6	0.31	5.3	147	<5	1.05
E5563585 (9422199)	1.94	0.65	15.2	2.39	2	1	0.65	<0.2	2.6	0.30	5.4	137	<5	1.02
E5563586 (9422200)	1.96	0.68	16.2	2.46	2	1	0.64	<0.2	2.6	0.29	5.3	147	<5	1.05
E5563587 (9422201)	2.01	0.71	16.6	2.66	2	1	0.69	<0.2	2.8	0.33	5.8	143	<5	1.09
E5563588 (9422202)	2.09	0.68	16.8	2.69	2	1	0.70	<0.2	2.7	0.32	5.7	152	<5	1.09
E5563589 (9422203)	1.73	0.58	15.2	2.33	2	1	0.57	<0.2	2.4	0.28	4.9	141	<5	0.96
E5563590 (9422204)	1.78	0.57	16.9	2.39	2	1	0.63	<0.2	2.2	0.28	5.0	139	<5	0.96
E5563591 (9422205)	0.13	<0.05	0.28	0.18	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	9	<5	0.26
E5563592 (9422206)	2.08	0.66	16.3	2.58	2	1	0.67	<0.2	2.7	0.33	5.7	143	<5	1.10
E5563593 (9422207)	1.93	0.64	16.4	2.57	2	1	0.65	<0.2	2.6	0.33	5.5	146	<5	1.05
E5563594 (9422208)	1.96	0.65	15.8	2.53	2	1	0.66	<0.2	2.6	0.32	5.5	142	<5	1.02
E5563595 (9422209)	2.13	0.66	17.1	2.68	2	1	0.71	<0.2	2.6	0.34	5.7	150	<5	1.06
E5563596 (9422210)	2.75	10.6	23.6	28.2	4	6	1.28	2.8	689	0.25	385	23	26	122
E5563597 (9422211)	0.11	<0.05	36.4	0.21	6	2	<0.05	<0.2	0.3	<0.05	0.5	42	5	0.12
E5563598 (9422212)	<0.05	<0.05	52.4	0.09	5	2	<0.05	<0.2	0.4	<0.05	0.4	36	<5	0.09
E5563599 (9422213)	0.05	<0.05	46.7	0.27	5	3	<0.05	<0.2	0.5	<0.05	0.9	32	<5	0.19
E5563600 (9422214)	<0.05	<0.05	31.7	0.14	6	<1	<0.05	<0.2	0.5	<0.05	0.7	34	5	0.14
E5563601 (9422215)	0.08	<0.05	36.6	0.20	6	2	<0.05	<0.2	0.5	<0.05	0.7	38	17	0.16
E5563602 (9422216)	2.20	0.68	17.8	2.74	2	2	0.76	<0.2	3.3	0.34	6.7	114	12	1.30
E5563603 (9422217)	2.74	0.87	19.2	3.70	2	2	0.95	<0.2	4.6	0.40	8.5	120	13	1.67

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	S % 0.01	Sb ppm 0.1	Sc ppm 5	Sm ppm 0.1	Sr ppm 0.1	Tb ppm 0.05	Th ppm 0.1	Ti % 0.01	Tl ppm 0.5	Tm ppm 0.05	U ppm 0.05	V ppm 5	W ppm 1	Y ppm 0.5
389601 (9422124)		0.12	0.6	44	1.9	107	0.46	0.5	0.49	1.0	0.28	0.09	261	<1	19.7
389602 (9422125)		0.09	0.4	43	1.9	115	0.46	0.3	0.47	<0.5	0.30	0.07	274	38	19.3
389603 (9422126)		1.21	1.1	36	1.6	65.9	0.42	0.3	0.40	0.5	0.30	0.13	234	1	17.4
389604 (9422127)		1.68	1.2	36	1.6	70.5	0.41	0.4	0.39	<0.5	0.28	0.12	226	<1	17.7
389605 (9422128)		0.11	0.5	44	1.9	124	0.49	0.3	0.47	<0.5	0.31	0.07	270	<1	20.6
389606 (9422129)		0.16	0.5	45	1.9	104	0.49	0.3	0.49	0.5	0.32	0.09	279	2	20.3
389607 (9422130)		0.15	2.1	35	1.6	143	0.38	1.5	0.38	11.2	0.25	2.47	216	1	15.2
389608 (9422131)		<0.01	0.5	<5	0.8	289	0.09	4.9	0.09	20.7	<0.05	3.99	21	3	1.9
389609 (9422132)		<0.01	0.3	<5	0.4	49.9	<0.05	8.8	0.02	17.1	<0.05	7.29	<5	4	0.9
389610 (9422133)		<0.01	0.4	<5	<0.1	44.2	<0.05	4.7	0.02	22.9	<0.05	3.83	5	3	<0.5
389611 (9422134)		<0.01	0.1	<5	0.2	3.1	<0.05	0.9	0.03	<0.5	<0.05	0.18	<5	2	1.2
389612 (9422135)		<0.01	0.4	<5	<0.1	30.3	<0.05	2.5	0.01	16.1	<0.05	3.19	<5	3	<0.5
389613 (9422136)		<0.01	0.3	<5	<0.1	27.8	<0.05	3.0	0.01	13.0	<0.05	4.49	<5	3	<0.5
389614 (9422137)		<0.01	0.3	<5	<0.1	56.7	<0.05	4.2	<0.01	24.7	<0.05	2.37	<5	1	<0.5
389615 (9422138)		<0.01	0.3	<5	<0.1	70.9	<0.05	1.8	<0.01	32.7	<0.05	2.47	<5	2	<0.5
389616 (9422139)		<0.01	0.4	<5	0.5	78.5	0.05	3.3	0.05	28.9	<0.05	2.22	12	4	1.2
389617 (9422140)		<0.01	0.3	<5	<0.1	74.3	<0.05	1.3	<0.01	46.9	<0.05	1.85	<5	2	<0.5
389618 (9422141)		<0.01	0.3	<5	<0.1	81.3	<0.05	0.7	<0.01	55.5	<0.05	1.47	<5	<1	<0.5
389619 (9422142)		0.02	28.4	8	19.0	202	1.37	116	0.36	7.3	0.22	24.4	74	13	19.3
389620 (9422143)		<0.01	0.5	<5	<0.1	53.2	<0.05	2.9	0.01	30.8	<0.05	3.84	6	4	<0.5
389621 (9422144)		0.02	1.1	43	1.8	48.0	0.46	0.8	0.49	2.1	0.31	0.27	266	<1	19.5
389622 (9422145)		0.03	0.3	40	1.8	83.2	0.45	0.5	0.46	7.5	0.29	0.14	272	<1	18.2
389623 (9422146)		<0.01	0.3	42	1.7	122	0.45	0.4	0.46	<0.5	0.32	0.08	261	<1	19.1
389624 (9422147)		0.32	0.8	44	1.9	80.2	0.46	0.3	0.47	0.9	0.29	0.07	265	<1	19.7
389625 (9422148)		0.16	1.9	44	1.8	94.4	0.51	0.4	0.48	1.1	0.33	0.33	270	<1	20.9
389626 (9422149)		0.17	0.6	43	1.9	101	0.43	0.3	0.47	0.6	0.29	0.07	269	<1	18.7
389627 (9422150)		<0.01	0.4	40	1.7	134	0.45	0.3	0.44	<0.5	0.28	0.07	250	<1	17.7
389628 (9422151)		0.03	0.6	42	1.8	121	0.48	0.6	0.45	0.5	0.29	0.09	261	<1	18.8
389629 (9422152)		0.02	0.8	42	1.7	156	0.47	0.4	0.46	3.4	0.28	0.08	262	<1	18.3
389630 (9422153)		<0.01	0.4	<5	<0.1	44.8	<0.05	1.5	0.01	16.5	<0.05	3.21	<5	2	<0.5
389631 (9422154)		<0.01	0.2	<5	0.2	2.9	<0.05	0.7	0.03	<0.5	<0.05	0.21	<5	<1	1.4
389632 (9422155)		<0.01	0.4	<5	<0.1	47.8	<0.05	1.6	<0.01	25.0	<0.05	2.91	<5	2	<0.5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	S % 0.01	Sb ppm 0.1	Sc ppm 5	Sm ppm 0.1	Sr ppm 0.1	Tb ppm 0.05	Th ppm 0.1	Ti % 0.01	Tl ppm 0.5	Tm ppm 0.05	U ppm 0.05	V ppm 5	W ppm 1	Y ppm 0.5
389633 (9422156)		<0.01	0.2	<5	<0.1	82.9	<0.05	1.5	<0.01	49.5	<0.05	2.34	<5	1	<0.5
389634 (9422157)		0.01	0.8	41	1.9	142	0.45	0.6	0.44	0.7	0.29	0.14	266	<1	17.9
389635 (9422158)		0.12	0.7	44	1.8	130	0.47	0.4	0.47	<0.5	0.30	0.11	272	<1	19.7
389636 (9422159)		<0.01	1.0	40	1.7	89.9	0.44	0.3	0.44	<0.5	0.28	0.09	251	<1	18.4
389637 (9422160)		0.03	1.3	42	1.9	93.0	0.47	0.3	0.45	1.7	0.31	0.61	265	<1	19.0
389638 (9422161)		<0.01	0.8	<5	0.2	48.3	0.06	4.8	0.01	24.3	<0.05	2.34	<5	3	2.0
389639 (9422162)		<0.01	0.6	<5	0.1	44.2	<0.05	3.8	<0.01	25.2	<0.05	2.40	<5	2	0.7
389640 (9422163)		<0.01	0.7	<5	<0.1	35.5	<0.05	2.6	<0.01	19.4	<0.05	1.86	<5	2	<0.5
389641 (9422164)		<0.01	0.6	<5	<0.1	69.7	<0.05	0.9	<0.01	49.9	<0.05	1.48	<5	<1	<0.5
389642 (9422165)		<0.01	1.0	<5	<0.1	36.6	<0.05	3.2	<0.01	21.1	<0.05	2.58	<5	3	<0.5
389643 (9422166)		<0.01	0.9	<5	<0.1	28.0	<0.05	3.3	<0.01	13.2	<0.05	2.25	<5	2	<0.5
389644 (9422167)		0.25	0.3	46	2.0	92.9	0.51	0.7	0.51	<0.5	0.29	0.11	291	<1	19.7
389645 (9422168)		0.46	0.3	45	1.8	88.1	0.47	0.5	0.49	2.5	0.33	0.72	280	3	20.8
389646 (9422169)		<0.01	0.5	<5	0.1	22.0	<0.05	10.4	<0.01	6.6	<0.05	7.12	<5	1	0.6
389647 (9422170)		<0.01	0.3	<5	0.1	24.7	<0.05	4.4	<0.01	8.1	<0.05	6.82	<5	1	0.7
389648 (9422171)		0.08	0.1	46	2.0	90.5	0.51	0.9	0.50	0.6	0.33	0.15	277	2	21.4
389649 (9422172)		0.12	<0.1	45	2.1	93.2	0.54	0.5	0.50	<0.5	0.36	0.08	281	5	22.4
389650 (9422173)		<0.01	0.6	<5	0.3	24.4	<0.05	5.5	<0.01	4.3	<0.05	6.44	<5	1	0.8
E5563560 (9422174)		0.33	0.5	40	3.7	268	0.58	2.9	0.48	2.7	0.31	0.90	254	<1	20.5
E5563561 (9422175)		0.06	0.2	47	2.0	133	0.49	0.8	0.53	<0.5	0.30	0.12	287	<1	20.6
E5563562 (9422176)		0.01	0.2	47	2.6	216	0.55	0.4	0.53	<0.5	0.34	0.25	295	<1	21.3
E5563563 (9422177)		<0.01	0.3	<5	0.4	58.0	0.06	2.0	<0.01	16.1	<0.05	1.59	8	1	2.1
E5563564 (9422178)		<0.01	0.3	45	2.5	163	0.54	0.5	0.53	0.7	0.31	0.45	265	<1	20.8
E5563565 (9422179)		0.46	1.3	35	1.6	64.5	0.41	0.4	0.38	1.7	0.30	3.83	243	1	18.5
E5563566 (9422180)		0.08	1.1	43	1.5	68.9	0.37	0.4	0.49	2.5	0.25	2.09	269	1	15.0
E5563567 (9422181)		<0.01	0.4	<5	0.5	38.5	0.09	11.4	0.01	4.8	<0.05	5.88	10	2	2.8
E5563568 (9422182)		<0.01	0.6	<5	0.3	31.1	<0.05	2.7	<0.01	4.6	<0.05	10.5	<5	2	1.4
E5563569 (9422183)		<0.01	0.3	<5	0.3	24.8	0.06	7.1	<0.01	0.6	<0.05	6.12	<5	1	2.0
E5563570 (9422184)		<0.01	0.2	<5	0.4	31.8	0.06	4.7	<0.01	5.0	<0.05	4.15	<5	1	2.1
E5563571 (9422185)		<0.01	0.2	<5	0.2	3.6	<0.05	1.1	0.03	<0.5	<0.05	0.17	<5	<1	1.3
E5563572 (9422186)		0.05	1.2	45	1.8	98.9	0.44	1.0	0.52	8.3	0.29	1.26	285	<1	18.9
E5563573 (9422187)		<0.01	0.8	48	2.0	122	0.53	0.6	0.57	<0.5	0.33	0.11	311	<1	21.0

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	S % 0.01	Sb ppm 0.1	Sc ppm 5	Sm ppm 0.1	Sr ppm 0.1	Tb ppm 0.05	Th ppm 0.1	Ti % 0.01	Tl ppm 0.5	Tm ppm 0.05	U ppm 0.05	V ppm 5	W ppm 1	Y ppm 0.5
E5563574 (9422188)		<0.01	<0.1	45	2.0	103	0.48	0.4	0.52	<0.5	0.31	0.27	280	<1	20.6
E5563575 (9422189)		0.41	0.1	42	2.0	91.4	0.49	0.3	0.46	<0.5	0.35	0.07	257	<1	21.2
E5563576 (9422190)		<0.01	<0.1	42	1.9	135	0.46	0.3	0.51	<0.5	0.29	0.08	265	<1	19.0
E5563577 (9422191)		0.03	<0.1	43	1.9	126	0.47	0.4	0.51	0.8	0.28	0.13	273	<1	19.5
E5563578 (9422192)		0.07	0.3	44	1.9	132	0.48	0.3	0.51	<0.5	0.32	0.13	275	<1	20.9
E5563579 (9422193)		0.02	28.8	8	19.1	198	1.35	117	0.38	7.3	0.22	24.9	74	13	19.8
E5563580 (9422194)		0.03	0.4	45	2.1	145	0.52	0.6	0.52	<0.5	0.31	0.08	282	<1	21.3
E5563581 (9422195)		0.05	0.8	46	2.0	143	0.51	0.4	0.52	1.4	0.33	0.17	282	<1	21.8
E5563582 (9422196)		<0.01	0.5	<5	0.1	44.5	<0.05	3.8	0.03	18.0	<0.05	13.2	12	3	1.3
E5563583 (9422197)		<0.01	0.3	<5	0.1	39.9	<0.05	2.2	<0.01	16.7	<0.05	3.01	<5	2	0.5
E5563584 (9422198)		0.02	0.8	42	1.9	136	0.45	0.6	0.47	0.7	0.29	0.19	260	<1	19.4
E5563585 (9422199)		0.09	0.3	39	1.7	153	0.45	0.4	0.45	<0.5	0.29	0.08	246	<1	18.4
E5563586 (9422200)		<0.01	0.1	41	1.7	222	0.45	0.3	0.47	<0.5	0.29	0.07	253	<1	18.5
E5563587 (9422201)		0.07	<0.1	43	2.0	157	0.47	0.4	0.50	<0.5	0.29	0.08	264	<1	20.3
E5563588 (9422202)		0.07	0.1	45	1.9	146	0.49	0.3	0.51	<0.5	0.29	0.07	280	<1	20.3
E5563589 (9422203)		0.40	0.3	39	1.8	103	0.43	0.3	0.45	<0.5	0.27	0.09	244	<1	18.3
E5563590 (9422204)		0.41	0.1	39	1.6	88.3	0.40	0.4	0.45	<0.5	0.26	0.15	245	<1	17.8
E5563591 (9422205)		<0.01	0.2	<5	0.2	3.4	<0.05	0.6	0.03	<0.5	<0.05	0.17	<5	<1	1.1
E5563592 (9422206)		0.14	0.2	42	1.9	118	0.48	0.4	0.48	<0.5	0.31	0.09	261	<1	20.2
E5563593 (9422207)		0.06	0.2	42	1.8	139	0.44	0.3	0.48	<0.5	0.30	0.07	258	<1	19.5
E5563594 (9422208)		0.10	0.3	42	1.9	156	0.46	0.3	0.48	<0.5	0.30	0.08	266	<1	18.9
E5563595 (9422209)		0.03	0.4	46	1.9	150	0.49	0.3	0.53	0.5	0.32	0.53	284	<1	20.9
E5563596 (9422210)		0.02	11.1	10	48.4	291	3.17	96.6	0.48	11.6	0.30	16.2	60	5	30.9
E5563597 (9422211)		<0.01	<0.1	<5	0.2	37.7	<0.05	2.4	<0.01	15.5	<0.05	3.22	<5	<1	1.1
E5563598 (9422212)		<0.01	0.2	<5	0.1	33.9	<0.05	3.9	<0.01	15.2	<0.05	8.16	<5	2	<0.5
E5563599 (9422213)		<0.01	0.2	<5	0.2	31.1	<0.05	5.5	<0.01	7.3	<0.05	27.7	<5	1	0.9
E5563600 (9422214)		<0.01	0.1	<5	0.1	51.8	<0.05	2.9	<0.01	28.2	<0.05	6.42	<5	<1	<0.5
E5563601 (9422215)		<0.01	0.2	<5	0.2	37.4	<0.05	4.7	<0.01	15.9	<0.05	2.41	<5	1	0.9
E5563602 (9422216)		0.10	0.4	35	2.2	94.1	0.52	1.3	0.58	3.2	0.33	0.51	257	<1	20.9
E5563603 (9422217)		0.05	0.1	40	2.7	113	0.68	0.7	0.66	<0.5	0.39	0.12	297	<1	26.8

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
389601 (9422124)		2.1	85	48.2
389602 (9422125)		2.0	85	44.4
389603 (9422126)		1.8	78	41.1
389604 (9422127)		1.7	80	41.8
389605 (9422128)		2.1	80	46.3
389606 (9422129)		2.1	121	46.7
389607 (9422130)		1.6	134	49.3
389608 (9422131)		0.2	81	63.7
389609 (9422132)		<0.1	139	43.0
389610 (9422133)		<0.1	101	20.1
389611 (9422134)		0.1	<5	23.0
389612 (9422135)		<0.1	116	11.7
389613 (9422136)		<0.1	100	3.0
389614 (9422137)		<0.1	43	4.7
389615 (9422138)		<0.1	52	1.3
389616 (9422139)		<0.1	99	10.0
389617 (9422140)		<0.1	64	1.6
389618 (9422141)		<0.1	18	2.1
389619 (9422142)		1.4	356	166
389620 (9422143)		<0.1	116	3.9
389621 (9422144)		1.9	92	45.4
389622 (9422145)		1.8	92	43.7
389623 (9422146)		2.0	85	44.3
389624 (9422147)		2.0	81	42.9
389625 (9422148)		2.1	82	45.9
389626 (9422149)		2.0	91	43.8
389627 (9422150)		1.8	75	40.6
389628 (9422151)		1.9	95	43.7
389629 (9422152)		1.9	87	41.6
389630 (9422153)		<0.1	107	4.2
389631 (9422154)		0.2	5	22.6
389632 (9422155)		<0.1	53	5.4

Certified By:



Certificate of Analysis

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
389633 (9422156)		<0.1	38	8.3
389634 (9422157)		1.9	101	40.9
389635 (9422158)		2.1	75	43.8
389636 (9422159)		1.9	81	41.9
389637 (9422160)		2.0	79	44.6
389638 (9422161)		0.2	81	28.4
389639 (9422162)		<0.1	99	7.4
389640 (9422163)		<0.1	70	9.6
389641 (9422164)		<0.1	16	1.7
389642 (9422165)		<0.1	81	4.0
389643 (9422166)		<0.1	59	17.5
389644 (9422167)		2.0	114	49.1
389645 (9422168)		2.1	82	49.0
389646 (9422169)		<0.1	32	53.0
389647 (9422170)		<0.1	28	15.1
389648 (9422171)		2.2	76	47.8
389649 (9422172)		2.3	91	50.6
389650 (9422173)		<0.1	23	13.6
E5563560 (9422174)		2.0	80	65.0
E5563561 (9422175)		2.0	92	49.6
E5563562 (9422176)		2.2	38	49.3
E5563563 (9422177)		0.1	5	8.7
E5563564 (9422178)		2.2	66	48.5
E5563565 (9422179)		2.0	28	41.7
E5563566 (9422180)		1.7	41	44.6
E5563567 (9422181)		0.3	12	13.9
E5563568 (9422182)		0.1	15	8.5
E5563569 (9422183)		0.2	<5	19.1
E5563570 (9422184)		0.2	9	21.9
E5563571 (9422185)		0.1	<5	22.2
E5563572 (9422186)		2.0	82	49.1
E5563573 (9422187)		2.3	91	50.6

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Analyte:	Yb	Zn	Zr
Unit:	ppm	ppm	ppm
RDL:	0.1	5	0.5
Sample ID (AGAT ID)			
E5563574 (9422188)	2.2	76	47.1
E5563575 (9422189)	2.2	94	43.1
E5563576 (9422190)	1.9	85	45.2
E5563577 (9422191)	1.9	102	46.1
E5563578 (9422192)	2.1	85	45.8
E5563579 (9422193)	1.5	357	170
E5563580 (9422194)	2.2	88	48.1
E5563581 (9422195)	2.1	172	48.3
E5563582 (9422196)	<0.1	150	4.9
E5563583 (9422197)	<0.1	58	3.9
E5563584 (9422198)	1.9	81	43.8
E5563585 (9422199)	1.9	86	41.3
E5563586 (9422200)	1.9	83	42.3
E5563587 (9422201)	2.1	99	46.2
E5563588 (9422202)	2.0	87	46.9
E5563589 (9422203)	1.8	150	41.5
E5563590 (9422204)	1.9	92	42.2
E5563591 (9422205)	0.1	<5	27.3
E5563592 (9422206)	2.1	84	44.5
E5563593 (9422207)	2.0	79	44.7
E5563594 (9422208)	1.9	79	43.9
E5563595 (9422209)	2.1	89	47.7
E5563596 (9422210)	1.9	139	233
E5563597 (9422211)	<0.1	13	9.7
E5563598 (9422212)	<0.1	52	11.3
E5563599 (9422213)	<0.1	39	18.5
E5563600 (9422214)	<0.1	12	2.6
E5563601 (9422215)	<0.1	41	13.7
E5563602 (9422216)	2.1	116	59.5
E5563603 (9422217)	2.7	126	62.9

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Sieving - % Passing (Crushing)

DATE SAMPLED: Jul 23, 2018 DATE RECEIVED: Jul 24, 2018 DATE REPORTED: Aug 10, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
389601 (9422124)		80
389621 (9422144)		79
389647 (9422170)		92
E5563576 (9422190)		75
E5563597 (9422211)		89

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B365845

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX (905)501-0589
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Jul 23, 2018

DATE RECEIVED: Jul 24, 2018

DATE REPORTED: Aug 10, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pass % % 0.01
389601 (9422124)		92.4
389632 (9422155)		85.7
E5563576 (9422190)		92.5

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9422130	3.27	3.26	0.3%	9422152	3.20	3.17	0.9%	9422171	3.17	3.23	1.9%	9422190	2.99	2.97	0.7%
	REPLICATE #5															
Parameter	Sample ID	Original	Replicate	RPD												
Specific Gravity	9422209	2.99	3.02	1.0%												

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9422124	227	220	3.1%	9422135	11300	11200	0.9%	9422148	242	245	1.2%	9422159	222	225	1.3%
Li2O	9422124	0.0489	0.0474	3.1%	9422135	2.44	2.40	1.7%	9422148	0.0521	0.0528	1.3%	9422159	0.048	0.048	0.0%
Ta	9422124	< 0.5	< 0.5	0.0%	9422135	84.4	64.3	27.0%	9422148	< 0.5	< 0.5	0.0%	9422159	< 0.5	< 0.5	0.0%
Nb	9422124	2	2	0.0%	9422135	67	62	7.8%	9422148	2	2	0.0%	9422159	2	2	0.0%
Sn	9422124	5	3		9422135	47	46	2.2%	9422148	4	4	0.0%	9422159	4	4	0.0%
Cs	9422124	68.4	68.5	0.1%	9422135	645	635	1.6%	9422148	9.23	10.5	12.9%	9422159	2.1	2.1	0.0%
Rb	9422124	85.0	81.8	3.8%	9422135	2270	2400	5.6%	9422148	26.7	27.2	1.9%	9422159	34.8	33.8	2.9%
K	9422124	0.238	0.246	3.3%	9422135	1.59	1.56	1.9%	9422148	0.20	0.20	0.0%	9422159	0.27	0.27	0.0%
Mg	9422124	3.11	3.17	1.9%	9422135	0.10	0.10	0.0%	9422148	2.61	2.60	0.4%	9422159	3.41	3.44	0.9%
Fe	9422124	8.50	8.46	0.5%	9422135	0.883	0.844	4.5%	9422148	8.53	8.62	1.0%	9422159	8.31	8.48	2.0%
P	9422124	0.03	0.03	0.0%	9422135	0.04	0.04	0.0%	9422148	0.02	0.02	0.0%	9422159	0.03	0.03	0.0%
Al	9422124	7.86	7.90	0.5%	9422135	8.24	8.19	0.6%	9422148	8.25	8.28	0.4%	9422159	7.62	7.74	1.6%
Si	9422124	22.1	21.9	0.9%	9422135	33.9	33.5	1.2%	9422148	22.3	22.3	0.0%	9422159	21.4	21.8	1.9%
Be	9422124	< 5	< 5	0.0%	9422135	768	735	4.4%	9422148	< 5	< 5	0.0%	9422159	6	5	18.2%
B	9422124	< 20	< 20	0.0%	9422135	< 20	< 20	0.0%	9422148	< 20	< 20	0.0%	9422159	22	20	9.5%
Mn	9422124	2040	2090	2.4%	9422135	899	897	0.2%	9422148	2130	2160	1.4%	9422159	1860	1870	0.5%
Mo	9422124	4	4	0.0%	9422135	10	9	10.5%	9422148	3	3	0.0%	9422159	3	3	0.0%
Bi	9422124	0.5	0.5	0.0%	9422135	0.74	0.76	2.7%	9422148	0.7	0.7	0.0%	9422159	0.7	0.7	0.0%
As	9422124	< 5	< 5	0.0%	9422135	< 5	< 5	0.0%	9422148	< 5	< 5	0.0%	9422159	< 5	< 5	0.0%
Ag	9422124	< 1	< 1	0.0%	9422135	1	< 1		9422148	< 1	< 1	0.0%	9422159	< 1	< 1	0.0%
Ba	9422124	62.5	63.8	2.1%	9422135	9.43	9.35	0.9%	9422148	32.8	33.2	1.2%	9422159	34.2	35.0	2.3%
Ca	9422124	9.59	9.54	0.5%	9422135	0.15	0.15	0.0%	9422148	9.27	9.31	0.4%	9422159	10.1	10.4	2.9%
Cd	9422124	< 0.2	< 0.2	0.0%	9422135	< 0.2	< 0.2	0.0%	9422148	< 0.2	< 0.2	0.0%	9422159	< 0.2	< 0.2	0.0%
Ce	9422124	7.4	7.3	1.4%	9422135	0.3	0.3	0.0%	9422148	7.6	7.6	0.0%	9422159	6.53	6.33	3.1%



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Co	9422124	57.6	55.4	3.9%	9422135	1.28	1.23	4.0%	9422148	54.1	53.5	1.1%	9422159	48.0	47.8	0.4%
Cr	9422124	0.029	0.029	0.0%	9422135	0.007	0.007	0.0%	9422148	0.032	0.032	0.0%	9422159	0.0282	0.0286	1.4%
Cu	9422124	112	104	7.4%	9422135	< 5	< 5	0.0%	9422148	109	107	1.9%	9422159	53	51	3.8%
Dy	9422124	3.21	3.12	2.8%	9422135	< 0.05	< 0.05	0.0%	9422148	3.30	3.35	1.5%	9422159	2.88	2.85	1.0%
Er	9422124	2.00	2.04	2.0%	9422135	< 0.05	< 0.05	0.0%	9422148	2.14	2.09	2.4%	9422159	1.91	1.93	1.0%
Eu	9422124	0.670	0.756	12.1%	9422135	< 0.05	< 0.05	0.0%	9422148	0.692	0.701	1.3%	9422159	0.63	0.61	3.2%
Ga	9422124	15.5	15.3	1.3%	9422135	68.3	67.4	1.3%	9422148	17.2	17.3	0.6%	9422159	16.4	16.3	0.6%
Gd	9422124	2.66	2.53	5.0%	9422135	< 0.05	< 0.05	0.0%	9422148	2.83	2.71	4.3%	9422159	2.41	2.41	0.0%
Ge	9422124	2	2	0.0%	9422135	6	6	0.0%	9422148	2	2	0.0%	9422159	2	2	0.0%
Hf	9422124	1	1	0.0%	9422135	2	2	0.0%	9422148	1	1	0.0%	9422159	1	1	0.0%
Ho	9422124	0.66	0.66	0.0%	9422135	< 0.05	< 0.05	0.0%	9422148	0.692	0.697	0.7%	9422159	0.63	0.61	3.2%
In	9422124	< 0.2	< 0.2	0.0%	9422135	< 0.2	< 0.2	0.0%	9422148	< 0.2	< 0.2	0.0%	9422159	< 0.2	< 0.2	0.0%
La	9422124	2.8	2.7	3.6%	9422135	0.2	0.2	0.0%	9422148	2.9	2.9	0.0%	9422159	2.5	2.4	4.1%
Lu	9422124	0.327	0.313	4.4%	9422135	< 0.05	< 0.05	0.0%	9422148	0.33	0.32	3.1%	9422159	0.297	0.280	5.9%
Nd	9422124	5.7	5.7	0.0%	9422135	0.1	< 0.1		9422148	5.9	5.9	0.0%	9422159	5.08	4.99	1.8%
Ni	9422124	150	152	1.3%	9422135	55	44	22.2%	9422148	161	159	1.3%	9422159	122	121	0.8%
Pb	9422124	< 5	< 5	0.0%	9422135	< 5	< 5	0.0%	9422148	< 5	< 5	0.0%	9422159	< 5	< 5	0.0%
Pr	9422124	1.13	1.10	2.7%	9422135	< 0.05	< 0.05	0.0%	9422148	1.16	1.15	0.9%	9422159	0.99	1.01	2.0%
S	9422124	0.12	0.12	0.0%	9422135	< 0.01	< 0.01	0.0%	9422148	0.160	0.135	16.9%	9422159	< 0.01	< 0.01	0.0%
Sb	9422124	0.6	0.6	0.0%	9422135	0.41	0.35	15.8%	9422148	1.9	1.8	5.4%	9422159	1.0	1.0	0.0%
Sc	9422124	44	46	4.4%	9422135	< 5	< 5	0.0%	9422148	44	44	0.0%	9422159	40	40	0.0%
Sm	9422124	1.86	1.77	5.0%	9422135	< 0.1	< 0.1	0.0%	9422148	1.82	1.98	8.4%	9422159	1.69	1.77	4.6%
Sr	9422124	107	110	2.8%	9422135	30.3	31.0	2.3%	9422148	94.4	95.9	1.6%	9422159	89.9	92.0	2.3%
Tb	9422124	0.460	0.451	2.0%	9422135	< 0.05	< 0.05	0.0%	9422148	0.51	0.49	4.0%	9422159	0.44	0.44	0.0%
Th	9422124	0.5	0.4	22.2%	9422135	2.54	2.70	6.1%	9422148	0.35	0.31	12.1%	9422159	0.3	0.3	0.0%
Ti	9422124	0.49	0.49	0.0%	9422135	0.01	0.01	0.0%	9422148	0.48	0.48	0.0%	9422159	0.44	0.44	0.0%
Tl	9422124	0.96	0.92	4.3%	9422135	16.1	16.1	0.0%	9422148	1.06	0.98	7.8%	9422159	< 0.5	< 0.5	0.0%
Tm	9422124	0.28	0.31	10.2%	9422135	< 0.05	< 0.05	0.0%	9422148	0.326	0.311	4.7%	9422159	0.28	0.27	3.6%
U	9422124	0.09	0.09	0.0%	9422135	3.19	2.93	8.5%	9422148	0.328	0.299	9.3%	9422159	0.09	0.08	11.8%
V	9422124	261	269	3.0%	9422135	< 5	< 5	0.0%	9422148	270	273	1.1%	9422159	251	256	2.0%
W	9422124	< 1	< 1	0.0%	9422135	3	3	0.0%	9422148	< 1	< 1	0.0%	9422159	< 1	< 1	0.0%
Y	9422124	19.7	18.9	4.1%	9422135	< 0.5	< 0.5	0.0%	9422148	20.9	21.0	0.5%	9422159	18.4	18.0	2.2%
Yb	9422124	2.05	1.93	6.0%	9422135	< 0.1	< 0.1	0.0%	9422148	2.08	2.05	1.5%	9422159	1.9	1.9	0.0%
Zn	9422124	85	85	0.0%	9422135	116	114	1.7%	9422148	82	81	1.2%	9422159	81	85	4.8%



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Zr	9422124	48.2	46.7	3.2%	9422135	11.7	10.3	12.7%	9422148	45.9	46.5	1.3%	9422159	41.9	40.6	3.2%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9422175	198	199	0.5%	9422188	252	245	2.8%	9422196	6710	6220	7.6%	9422207	156	156	0.0%
Li2O	9422175	0.043	0.043	0.0%	9422188	0.054	0.053	1.9%	9422196	1.44	1.34	7.2%	9422207	0.0335	0.0335	0.0%
Ta	9422175	< 0.5	< 0.5	0.0%	9422188	< 0.5	< 0.5	0.0%	9422196	64.0	71.6	11.2%	9422207	< 0.5	< 0.5	0.0%
Nb	9422175	2	2	0.0%	9422188	2	1		9422196	77	76	1.3%	9422207	1	1	0.0%
Sn	9422175	2	5		9422188	2	2	0.0%	9422196	56	52	7.4%	9422207	2	3	
Cs	9422175	2.60	2.68	3.0%	9422188	24.6	23.4	5.0%	9422196	603	606	0.5%	9422207	3.0	3.0	0.0%
Rb	9422175	17.7	21.0	17.1%	9422188	99.4	98.6	0.8%	9422196	2610	2460	5.9%	9422207	10.2	10.1	1.0%
K	9422175	0.31	0.32	3.2%	9422188	0.726	0.702	3.4%	9422196	2.14	2.00	6.8%	9422207	0.13	0.13	0.0%
Mg	9422175	2.47	2.46	0.4%	9422188	3.37	3.36	0.3%	9422196	0.188	0.164	13.6%	9422207	2.63	2.65	0.8%
Fe	9422175	7.35	7.37	0.3%	9422188	8.20	8.00	2.5%	9422196	1.06	0.96	9.9%	9422207	7.45	7.32	1.8%
P	9422175	0.04	0.03	28.6%	9422188	0.028	0.021	28.6%	9422196	0.130	0.158	19.4%	9422207	0.023	0.030	26.4%
Al	9422175	8.62	8.59	0.3%	9422188	8.53	8.41	1.4%	9422196	9.04	8.61	4.9%	9422207	8.00	7.88	1.5%
Si	9422175	23.2	23.3	0.4%	9422188	22.1	21.9	0.9%	9422196	32.0	32.5	1.6%	9422207	22.5	22.1	1.8%
Be	9422175	< 5	< 5	0.0%	9422188	< 5	< 5	0.0%	9422196	372	408	9.2%	9422207	< 5	< 5	0.0%
B	9422175	< 20	< 20	0.0%	9422188	28	31	10.2%	9422196	21	22	4.7%	9422207	< 20	< 20	0.0%
Mn	9422175	1780	1750	1.7%	9422188	1940	1940	0.0%	9422196	999	925	7.7%	9422207	1740	1740	0.0%
Mo	9422175	4	3	28.6%	9422188	2	< 2		9422196	7	7	0.0%	9422207	3	3	0.0%
Bi	9422175	0.37	0.30	20.9%	9422188	0.3	0.3	0.0%	9422196	2.08	2.67	24.8%	9422207	0.1	0.1	0.0%
As	9422175	< 5	< 5	0.0%	9422188	< 5	< 5	0.0%	9422196	< 5	< 5	0.0%	9422207	< 5	< 5	0.0%
Ag	9422175	< 1	< 1	0.0%	9422188	< 1	< 1	0.0%	9422196	1	1	0.0%	9422207	< 1	< 1	0.0%
Ba	9422175	42.6	41.8	1.9%	9422188	157	158	0.6%	9422196	36.2	35.0	3.4%	9422207	51.2	51.9	1.4%
Ca	9422175	8.62	8.78	1.8%	9422188	7.58	7.41	2.3%	9422196	0.739	0.766	3.6%	9422207	10.4	9.92	4.7%
Cd	9422175	< 0.2	< 0.2	0.0%	9422188	< 0.2	< 0.2	0.0%	9422196	0.2	0.2	0.0%	9422207	< 0.2	< 0.2	0.0%
Ce	9422175	9.3	9.6	3.2%	9422188	7.86	7.68	2.3%	9422196	1.36	1.35	0.7%	9422207	7.0	7.0	0.0%
Co	9422175	58.8	57.5	2.2%	9422188	54.4	53.4	1.9%	9422196	2.9	2.3	23.1%	9422207	52.9	53.1	0.4%
Cr	9422175	0.034	0.034	0.0%	9422188	0.033	0.033	0.0%	9422196	< 0.005	< 0.005	0.0%	9422207	0.0304	0.0308	1.3%
Cu	9422175	61	59	3.3%	9422188	59	59	0.0%	9422196	14	13	7.4%	9422207	111	112	0.9%
Dy	9422175	3.36	3.43	2.1%	9422188	3.38	3.42	1.2%	9422196	0.165	0.180	8.7%	9422207	3.24	3.10	4.4%
Er	9422175	2.07	2.17	4.7%	9422188	2.11	2.10	0.5%	9422196	0.10	0.09	10.5%	9422207	1.93	2.03	5.1%
Eu	9422175	0.74	0.75	1.3%	9422188	0.72	0.70	2.8%	9422196	< 0.05	< 0.05	0.0%	9422207	0.64	0.66	3.1%
Ga	9422175	17.3	17.1	1.2%	9422188	17.1	17.4	1.7%	9422196	78.1	72.7	7.2%	9422207	16.4	15.7	4.4%



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Gd	9422175	2.89	3.00	3.7%	9422188	2.78	2.76	0.7%	9422196	0.16	0.16	0.0%	9422207	2.57	2.50	2.8%
Ge	9422175	2	2	0.0%	9422188	2	2	0.0%	9422196	5	5	0.0%	9422207	2	2	0.0%
Hf	9422175	2	2	0.0%	9422188	2	1		9422196	< 1	< 1	0.0%	9422207	1	1	0.0%
Ho	9422175	0.695	0.729	4.8%	9422188	0.69	0.70	1.4%	9422196	< 0.05	< 0.05	0.0%	9422207	0.653	0.668	2.3%
In	9422175	< 0.2	< 0.2	0.0%	9422188	< 0.2	< 0.2	0.0%	9422196	< 0.2	< 0.2	0.0%	9422207	< 0.2	< 0.2	0.0%
La	9422175	3.63	3.79	4.3%	9422188	2.9	2.9	0.0%	9422196	0.7	0.7	0.0%	9422207	2.6	2.6	0.0%
Lu	9422175	0.32	0.31	3.2%	9422188	0.32	0.33	3.1%	9422196	< 0.05	< 0.05	0.0%	9422207	0.33	0.32	3.1%
Nd	9422175	6.6	7.2	8.7%	9422188	6.0	6.2	3.3%	9422196	0.5	0.6	18.2%	9422207	5.5	5.7	3.6%
Ni	9422175	170	161	5.4%	9422188	145	140	3.5%	9422196	39	37	5.3%	9422207	146	148	1.4%
Pb	9422175	< 5	< 5	0.0%	9422188	< 5	< 5	0.0%	9422196	< 5	< 5	0.0%	9422207	< 5	< 5	0.0%
Pr	9422175	1.36	1.40	2.9%	9422188	1.19	1.19	0.0%	9422196	0.148	0.144	2.7%	9422207	1.05	1.04	1.0%
S	9422175	0.056	0.042	28.6%	9422188	< 0.01	< 0.01	0.0%	9422196	< 0.01	< 0.01	0.0%	9422207	0.06	0.07	15.4%
Sb	9422175	0.2	0.2	0.0%	9422188	< 0.1	< 0.1	0.0%	9422196	0.53	0.56	5.5%	9422207	0.2	0.2	0.0%
Sc	9422175	47	46	2.2%	9422188	45	46	2.2%	9422196	< 5	< 5	0.0%	9422207	42	42	0.0%
Sm	9422175	2.03	2.16	6.2%	9422188	2.0	2.0	0.0%	9422196	0.1	0.1	0.0%	9422207	1.8	1.9	5.4%
Sr	9422175	133	132	0.8%	9422188	103	101	2.0%	9422196	44.5	42.7	4.1%	9422207	139	141	1.4%
Tb	9422175	0.487	0.536	9.6%	9422188	0.483	0.489	1.2%	9422196	< 0.05	< 0.05	0.0%	9422207	0.44	0.47	6.6%
Th	9422175	0.8	0.7	13.3%	9422188	0.4	0.4	0.0%	9422196	3.83	5.03	27.1%	9422207	0.3	0.3	0.0%
Ti	9422175	0.53	0.53	0.0%	9422188	0.52	0.52	0.0%	9422196	0.025	0.021	17.4%	9422207	0.48	0.48	0.0%
Tl	9422175	< 0.5	< 0.5	0.0%	9422188	< 0.5	< 0.5	0.0%	9422196	18.0	16.7	7.5%	9422207	< 0.5	< 0.5	0.0%
Tm	9422175	0.303	0.322	6.1%	9422188	0.31	0.31	0.0%	9422196	< 0.05	< 0.05	0.0%	9422207	0.30	0.30	0.0%
U	9422175	0.12	0.12	0.0%	9422188	0.27	0.29	7.1%	9422196	13.2	14.1	6.6%	9422207	0.072	0.076	5.4%
V	9422175	287	284	1.1%	9422188	280	282	0.7%	9422196	12	10	18.2%	9422207	258	259	0.4%
W	9422175	< 1	< 1	0.0%	9422188	< 1	< 1	0.0%	9422196	3	3	0.0%	9422207	< 1	< 1	0.0%
Y	9422175	20.6	20.7	0.5%	9422188	20.6	20.1	2.5%	9422196	1.26	1.23	2.4%	9422207	19.5	19.5	0.0%
Yb	9422175	2.03	2.09	2.9%	9422188	2.18	2.10	3.7%	9422196	< 0.1	0.1		9422207	1.99	1.93	3.1%
Zn	9422175	92	92	0.0%	9422188	76	78	2.6%	9422196	150	134	11.3%	9422207	79	79	0.0%
Zr	9422175	49.6	49.0	1.2%	9422188	47.1	46.8	0.6%	9422196	4.94	6.39	25.6%	9422207	44.7	43.5	2.7%



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(201-049) Specific Gravity by Pycnometer

Parameter	CRM #1				CRM #2				CRM #3				CRM #4			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%
CRM #5																
Parameter	Expect	Actual	Recovery	Limits												
Specific Gravity	2.65	2.66	100%	95% - 110%												

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.SY-4)				CRM #4 (ref.Till-2)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	39	104%	90% - 110%									47	48	102%	90% - 110%
Nb					20	18	90%	90% - 110%	13	14	106%	90% - 110%				
Sn									7.1	6.9	97%	90% - 110%				
Cs									1.5	1.7	113%	90% - 110%				
Rb					144	136	94%	90% - 110%	55	58	105%	90% - 110%				
K	1.37	1.45	106%	90% - 110%									2.55	2.48	97%	90% - 110%
Mg	0.325	0.316	97%	90% - 110%									1.1	1.1	101%	90% - 110%
Fe	4.34	4.25	98%	90% - 110%									3.77	3.67	97%	90% - 110%
Al	10.95	11.08	101%	90% - 110%									8.47	8.28	98%	90% - 110%
Si	23.3	22.3	96%	90% - 110%									28.4	26.7	94%	90% - 110%
Be					4.0	3.5	86%	90% - 110%	2.6	3.1	121%	90% - 110%				
Mn	836	793	95%	90% - 110%									780	736	94%	90% - 110%
Mo					14	13	94%	90% - 110%								
As					26	24	91%	90% - 110%								
Ba	340	337	99%	90% - 110%									540	527	98%	90% - 110%
Ca	5.72	5.66	99%	90% - 110%									0.907	0.897	99%	90% - 110%
Ce					98	95	97%	90% - 110%	122	127	104%	90% - 110%				
Co					15	14	91%	90% - 110%	2.8	2.6	92%	90% - 110%				
Cu													150	150	100%	90% - 110%
Dy									18.2	19	104%	90% - 110%				
Er					3.7	3.4	91%	90% - 110%	14.2	14.6	103%	90% - 110%				
Eu					1.0	1.2	118%	90% - 110%	2.0	1.9	93%	90% - 110%				
Ga									35	36	103%	90% - 110%				
Gd									14	15	106%	90% - 110%				



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Hf					11	10	88%	90% - 110%	10.6	11.1	105%	90% - 110%				
Ho									4.3	4.4	103%	90% - 110%				
La					44	42	95%	90% - 110%	58	58	100%	90% - 110%				
Lu					0.6	0.5	88%	90% - 110%	2.1	2.2	106%	90% - 110%				
Nd									57	58	102%	90% - 110%				
Ni	9	8	89%	90% - 110%									32	37	116%	90% - 110%
Pb					31	28	90%	90% - 110%	10	9	93%	90% - 110%				
Pr									15.0	15.1	101%	90% - 110%				
Sb					0.8	0.720	90%	90% - 110%								
Sc													12	12	98%	90% - 110%
Sm					7.4	7	94%	90% - 110%	12.7	12.8	101%	90% - 110%				
Sr	1191	1219	102%	90% - 110%									144	152	106%	90% - 110%
Tb					1.2	1.1	90%	90% - 110%	2.6	2.7	105%	90% - 110%				
Th					18.4	16.6	90%	90% - 110%	1.4	1.3	95%	90% - 110%				
Ti	0.172	0.175	102%	90% - 110%									0.527	0.512	97%	90% - 110%
Tm									2.3	2.3	101%	90% - 110%				
U					5.7	4.9	86%	90% - 110%	0.8	0.7	91%	90% - 110%				
V	8	6	75%	90% - 110%									77	77	100%	90% - 110%
W					5	4.60	92%	90% - 110%								
Y					40	36	90%	90% - 110%	119	129	108%	90% - 110%				
Yb									14.8	15.3	103%	90% - 110%				
Zn	93	95	102%	90% - 110%									130	124	95%	90% - 110%
Zr					390	346	89%	90% - 110%	517	562	109%	90% - 110%				
	CRM #5 (ref.GBM998-10)				CRM #6 (ref.SY-4)				CRM #7 (ref.SY-4)				CRM #8 (ref.Till-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li					37	38	102%	90% - 110%					47	43	91%	90% - 110%
Nb									13	14	108%	90% - 110%				
Sn									7.1	7	98%	90% - 110%				
Cs									1.5	1.5	101%	90% - 110%				
Rb									55	59	108%	90% - 110%				
K					1.37	1.42	103%	90% - 110%					2.55	2.4	94%	90% - 110%
Mg					0.325	0.326	100%	90% - 110%					1.1	1	95%	90% - 110%
Fe					4.34	4.23	97%	90% - 110%					3.77	3.61	96%	90% - 110%
Al					10.95	11.13	102%	90% - 110%					8.47	7.92	93%	90% - 110%



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Si					23.3	22.4	96%	90% - 110%					28.4	25.7	90%	90% - 110%
Be									2.6	3.3	127%	90% - 110%				
Mn					836	808	97%	90% - 110%					780	710	91%	90% - 110%
As	25	25	100%	90% - 110%												
Ba					340	342	101%	90% - 110%					540	497	92%	90% - 110%
Ca					5.72	5.44	95%	90% - 110%					0.907	0.856	94%	90% - 110%
Ce									122	128	105%	90% - 110%				
Co	1202	1305	109%	90% - 110%					2.8	2.6	91%	90% - 110%				
Cu													150	143	95%	90% - 110%
Dy									18.2	19.5	107%	90% - 110%				
Er									14.2	15.4	109%	90% - 110%				
Eu									2.0	2	98%	90% - 110%				
Ga									35	38	110%	90% - 110%				
Gd									14	16	112%	90% - 110%				
Hf									10.6	11.6	109%	90% - 110%				
Ho									4.3	4.6	106%	90% - 110%				
La									58	59	102%	90% - 110%				
Lu									2.1	2.3	109%	90% - 110%				
Nd									57	62	108%	90% - 110%				
Ni					9	9	101%	90% - 110%					32	34	108%	90% - 110%
Pb	41	39	96%	90% - 110%												
Pr									15.0	15.5	103%	90% - 110%				
Sc													12	11	95%	90% - 110%
Sm									12.7	13.7	108%	90% - 110%				
Sr					1191	1245	105%	90% - 110%					144	144	100%	90% - 110%
Tb									2.6	2.9	112%	90% - 110%				
Th									1.4	1.4	98%	90% - 110%				
Ti					0.172	0.172	100%	90% - 110%					0.527	0.489	93%	90% - 110%
Tm									2.3	2.4	105%	90% - 110%				
U									0.8	0.8	100%	90% - 110%				
V					8	6	76%	90% - 110%					77	73	94%	90% - 110%
Y									119	136	114%	90% - 110%				
Yb									14.8	15.6	105%	90% - 110%				
Zn					93	95	102%	90% - 110%					130	118	91%	90% - 110%



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Zr									517	583	113%	90% - 110%				
	CRM #9 (ref.SY-4)				CRM #10 (ref.Tiil-2)				CRM #11 (ref.GBM998-10)				CRM #12 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	35	95%	90% - 110%												
Ta					1.9	1.4	76%	90% - 110%								
Nb					20	20	102%	90% - 110%					13	14	109%	90% - 110%
Sn													7.1	7.7	108%	90% - 110%
Cs													1.5	1.6	108%	90% - 110%
Rb					144	151	105%	90% - 110%					55	59	107%	90% - 110%
K	1.37	1.33	97%	90% - 110%												
Mg	0.325	0.31	95%	90% - 110%												
Fe	4.34	4.2	97%	90% - 110%												
Al	10.95	10.58	97%	90% - 110%												
Si	23.3	22.3	96%	90% - 110%												
Be					4.0	3.8	96%	90% - 110%					2.6	3.2	124%	90% - 110%
Mn	836	788	94%	90% - 110%												
Mo					14	13	96%	90% - 110%								
As					26	25	98%	90% - 110%								
Ba	340	326	96%	90% - 110%												
Ca	5.72	5.57	97%	90% - 110%												
Ce					98	101	103%	90% - 110%					122	128	105%	90% - 110%
Co					15	15	98%	90% - 110%					2.8	2.6	92%	90% - 110%
Cu									15414	14411	93%	90% - 110%				
Dy													18.2	19.7	108%	90% - 110%
Er					3.7	3.9	107%	90% - 110%					14.2	14.9	105%	90% - 110%
Eu													2.0	2	99%	90% - 110%
Ga													35	38	109%	90% - 110%
Gd													14	16	111%	90% - 110%
Hf					11	11	99%	90% - 110%					10.6	11.6	110%	90% - 110%
Ho													4.3	4.5	106%	90% - 110%
La					44	44	100%	90% - 110%					58	59	101%	90% - 110%
Lu					0.6	0.6	99%	90% - 110%					2.1	2.3	108%	90% - 110%
Nd													57	61	107%	90% - 110%
Ni	9	9	103%	90% - 110%					23610	22562	96%	90% - 110%				



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Pb					31	32	103%	90% - 110%					10	10	99%	90% - 110%
Pr													15.0	15.4	103%	90% - 110%
Sb					0.8	0.795	99%	90% - 110%								
Sm					7.4	7.8	106%	90% - 110%					12.7	13.9	109%	90% - 110%
Sr	1191	1217	102%	90% - 110%												
Tb					1.2	1.2	102%	90% - 110%					2.6	2.9	112%	90% - 110%
Th					18.4	17.7	96%	90% - 110%					1.4	1.5	107%	90% - 110%
Ti	0.172	0.163	95%	90% - 110%												
Tm													2.3	2.4	106%	90% - 110%
U					5.7	5.4	94%	90% - 110%								
V	8	6	73%	90% - 110%												
W					5	4.86	97%	90% - 110%								
Y					40	40	100%	90% - 110%					119	136	114%	90% - 110%
Yb													14.8	15.8	107%	90% - 110%
Zn	93	90	97%	90% - 110%					90	87	96%	90% - 110%				
Zr					390	404	104%	90% - 110%					517	593	115%	90% - 110%



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B365845

PROJECT:

ATTENTION TO: Peter Spitalny

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B365845

PROJECT:

ATTENTION TO: Peter Spitalny

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Brad Boyle

PROJECT: 18B368007

AGAT WORK ORDER: 18B368007

SOLID ANALYSIS REVIEWED BY: Adel Mina, Mining Chief Chemist

DATE REPORTED: Aug 20, 2018

PAGES (INCLUDING COVER): 23

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563604 (9436752)		2.252
E5563605 (9436753)		2.814
E5563606 (9436754)		0.894
E5563607 (9436755)		1.462
E5563608 (9436756)		1.242
E5563609 (9436757)		2.898
E5563610 (9436758)		2.820
E5563611 (9436759)		3.142
E5563612 (9436760)		0.596
E5563613 (9436761)		2.658
E5563614 (9436762)		2.068
E5563615 (9436763)		2.750
E5563616 (9436764)		2.824
E5563617 (9436765)		1.074
E5563618 (9436766)		0.028
E5563619 (9436767)		2.550
E5563620 (9436768)		2.646
E5563621 (9436769)		2.920
E5563622 (9436770)		2.754
E5563623 (9436771)		2.912
E5563624 (9436772)		2.728
E5563625 (9436773)		2.730
E5563626 (9436774)		2.824
E5563627 (9436775)		2.898
E5563628 (9436776)		2.564
E5563629 (9436777)		1.068
E5563630 (9436778)		0.058
E5563631 (9436779)		0.932
E5563632 (9436780)		0.964
E5563633 (9436781)		1.486
E5563634 (9436782)		1.862

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5563635 (9436783)		0.056
E5563636 (9436784)		1.684
E5563637 (9436785)		0.718
E5563638 (9436786)		0.716
E5563639 (9436787)		0.920
E5563640 (9436788)		2.660
E5563641 (9436789)		2.824
E5563642 (9436790)		2.590
E5563643 (9436791)		2.570
E5563644 (9436792)		2.679
E5563645 (9436793)		2.434
E5563646 (9436794)		1.824

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563604 (9436752)		3.10
E5563605 (9436753)		3.20
E5563606 (9436754)		2.80
E5563607 (9436755)		2.80
E5563608 (9436756)		2.80
E5563609 (9436757)		3.30
E5563610 (9436758)		3.30
E5563611 (9436759)		3.30
E5563612 (9436760)		2.80
E5563613 (9436761)		3.20
E5563614 (9436762)		3.30
E5563615 (9436763)		3.10
E5563616 (9436764)		3.20
E5563617 (9436765)		2.80
E5563618 (9436766)		3.00
E5563619 (9436767)		3.20
E5563620 (9436768)		3.10
E5563621 (9436769)		3.20
E5563622 (9436770)		3.10
E5563623 (9436771)		3.00
E5563624 (9436772)		3.00
E5563625 (9436773)		3.00
E5563626 (9436774)		3.20
E5563627 (9436775)		3.20
E5563628 (9436776)		3.10
E5563629 (9436777)		2.80
E5563630 (9436778)		2.70
E5563631 (9436779)		2.70
E5563632 (9436780)		2.70
E5563633 (9436781)		2.80
E5563634 (9436782)		2.90
E5563635 (9436783)		2.90

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

5623 McADAM ROAD
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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Specific Gravity
	Unit:	g/cm3
	RDL:	0.01
E5563636 (9436784)		2.90
E5563637 (9436785)		2.90
E5563638 (9436786)		2.80
E5563639 (9436787)		2.70
E5563640 (9436788)		3.00
E5563641 (9436789)		3.00
E5563642 (9436790)		2.90
E5563643 (9436791)		2.90
E5563644 (9436792)		2.80
E5563645 (9436793)		2.90
E5563646 (9436794)		2.90

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007
PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5
E5563604 (9436752)	289	0.062	<0.5	1	2	9.9	76.5	0.38	3.10	8.64	0.03	7.83	22.9	<5
E5563605 (9436753)	428	0.092	<0.5	2	2	24.9	144	0.45	3.30	9.17	0.03	8.41	22.9	<5
E5563606 (9436754)	837	0.180	64.8	72	48	200	2610	1.94	0.14	0.71	0.05	6.13	36.0	33
E5563607 (9436755)	9210	1.98	72.7	57	35	319	2190	1.69	0.11	0.70	0.06	7.15	36.1	139
E5563608 (9436756)	1130	0.243	81.3	78	53	340	4690	3.42	0.14	0.64	0.06	7.50	31.9	190
E5563609 (9436757)	364	0.078	<0.5	3	3	30.7	144	0.49	2.91	9.26	0.03	8.98	22.5	6
E5563610 (9436758)	233	0.050	<0.5	2	5	26.5	74.4	0.35	3.43	9.11	0.03	7.89	21.2	8
E5563611 (9436759)	249	0.054	<0.5	2	5	23.9	94.7	0.44	3.56	9.29	0.02	7.82	22.4	10
E5563612 (9436760)	306	0.066	160	131	49	127	2600	2.07	0.09	0.69	0.09	11.9	30.0	53
E5563613 (9436761)	273	0.059	<0.5	2	4	71.8	158	0.41	3.15	8.55	0.03	8.88	22.9	6
E5563614 (9436762)	183	0.039	<0.5	2	4	4.5	27.6	0.26	3.41	9.19	0.03	8.33	23.7	7
E5563615 (9436763)	305	0.066	<0.5	2	2	70.3	99.9	0.36	3.57	8.84	0.03	8.54	22.7	<5
E5563616 (9436764)	306	0.066	<0.5	2	3	69.9	124	0.46	3.50	8.57	0.03	8.36	23.1	<5
E5563617 (9436765)	103	0.022	137	58	23	64.0	1130	0.95	0.10	0.55	0.06	7.46	37.1	326
E5563618 (9436766)	10600	2.28	27.3	6026	3290	354	846	1.51	0.55	4.24	0.11	7.94	31.0	31
E5563619 (9436767)	207	0.044	<0.5	16	21	27.0	108	0.41	3.55	9.86	0.03	8.51	22.7	<5
E5563620 (9436768)	248	0.053	0.8	7	9	133	293	0.47	3.32	8.91	0.06	9.27	23.3	7
E5563621 (9436769)	234	0.050	<0.5	3	7	29.1	44.6	0.24	3.04	9.84	0.06	7.92	22.4	11
E5563622 (9436770)	264	0.057	<0.5	2	3	32.3	83.9	0.44	2.75	7.95	0.08	8.49	23.6	6
E5563623 (9436771)	267	0.057	<0.5	2	3	68.4	47.6	0.29	2.91	8.72	0.03	8.76	23.5	<5
E5563624 (9436772)	283	0.061	<0.5	2	3	4.6	18.4	0.18	3.04	8.00	0.03	8.58	24.1	<5
E5563625 (9436773)	285	0.061	<0.5	2	2	7.0	22.2	0.23	3.28	7.97	0.03	8.12	24.7	<5
E5563626 (9436774)	349	0.075	<0.5	2	2	30.7	35.0	0.32	2.93	8.49	0.03	8.40	23.6	<5
E5563627 (9436775)	266	0.057	<0.5	2	2	17.7	36.3	0.49	2.89	8.60	0.07	8.39	23.4	<5
E5563628 (9436776)	969	0.208	<0.5	5	3	231	286	1.18	3.24	7.30	0.21	8.83	24.0	<5
E5563629 (9436777)	924	0.199	90.2	83	47	331	3150	3.10	0.14	0.57	0.15	8.05	33.8	143
E5563630 (9436778)	13	0.003	<0.5	1	2	0.4	2.8	<0.05	<0.01	0.33	<0.01	0.12	45.5	<5
E5563631 (9436779)	252	0.054	94.5	51	13	97.5	649	0.59	0.06	0.28	0.22	8.67	32.4	156
E5563632 (9436780)	799	0.172	59.9	58	22	159	1010	1.41	0.37	0.56	0.04	7.54	34.0	181
E5563633 (9436781)	13100	2.82	53.8	37	26	293	1390	1.42	0.19	0.60	0.03	9.36	33.3	35
E5563634 (9436782)	17400	3.75	43.4	31	20	274	854	0.83	0.16	0.52	0.03	9.51	32.3	86
E5563635 (9436783)	2270	0.488	14.7	1160	721	223	1140	1.58	0.56	3.11	0.16	4.86	33.9	33

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

5623 McADAM ROAD
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Li ppm 10	Li2O % 0.001	Ta ppm 0.5	Nb ppm 1	Sn ppm 1	Cs ppm 0.1	Rb ppm 0.2	K % 0.05	Mg % 0.01	Fe % 0.01	P % 0.01	Al % 0.01	Si % 0.01	Be ppm 5
E5563636 (9436784)		11000	2.36	182	93	21	322	942	0.97	0.15	0.50	0.04	8.23	37.8	358
E5563637 (9436785)		9180	1.98	93.1	70	17	308	1190	1.20	0.12	0.59	0.06	8.89	36.6	184
E5563638 (9436786)		8910	1.92	96.7	97	21	354	1410	1.33	0.12	0.60	0.02	8.60	37.7	452
E5563639 (9436787)		513	0.110	144	108	17	182	1360	1.49	0.09	0.51	0.06	9.46	36.7	216
E5563640 (9436788)		845	0.182	<0.5	4	3	160	482	1.63	2.35	9.45	0.05	9.82	25.1	<5
E5563641 (9436789)		695	0.150	<0.5	3	2	76.4	129	1.80	2.38	9.25	0.04	9.72	24.3	<5
E5563642 (9436790)		631	0.136	<0.5	3	7	131	191	1.65	1.76	7.80	0.04	7.74	26.8	<5
E5563643 (9436791)		433	0.093	<0.5	7	3	93.1	167	1.92	0.81	4.81	0.05	5.92	34.7	<5
E5563644 (9436792)		334	0.072	<0.5	4	3	42.6	301	2.67	0.78	4.04	0.04	6.13	33.6	<5
E5563645 (9436793)		592	0.128	<0.5	2	2	96.1	153	1.16	1.24	6.19	0.03	6.22	33.4	<5
E5563646 (9436794)		574	0.123	<0.5	2	2	105	148	1.55	1.34	6.41	0.04	6.51	32.8	<5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05
E5563604 (9436752)	25	1950	3	0.2	6	<1	79.8	7.77	0.2	6.5	47.2	0.034	156	3.02
E5563605 (9436753)	30	2040	2	0.4	<5	<1	94.8	8.91	0.4	7.4	57.8	0.037	219	3.41
E5563606 (9436754)	24	621	7	4.8	<5	1	13.6	0.42	<0.2	0.3	1.8	0.007	7	0.06
E5563607 (9436755)	21	737	10	12.7	<5	1	23.8	0.21	<0.2	0.8	1.2	0.009	<5	<0.05
E5563608 (9436756)	34	647	7	8.7	<5	2	30.8	0.29	<0.2	0.8	1.6	0.007	10	<0.05
E5563609 (9436757)	31	2290	2	1.1	<5	<1	93.4	8.59	<0.2	9.8	60.3	0.038	131	3.74
E5563610 (9436758)	24	2260	3	0.8	<5	<1	89.8	10.0	<0.2	6.9	53.2	0.033	217	3.18
E5563611 (9436759)	27	2250	<2	0.6	<5	<1	116	9.42	<0.2	6.9	54.1	0.034	115	3.27
E5563612 (9436760)	<20	787	5	1.9	<5	3	11.4	0.55	<0.2	1.7	1.3	<0.005	<5	0.08
E5563613 (9436761)	30	2030	<2	0.8	<5	<1	78.1	8.44	<0.2	7.3	57.8	0.036	162	3.42
E5563614 (9436762)	29	2200	4	0.5	<5	<1	44.1	9.29	<0.2	6.8	53.0	0.034	173	3.13
E5563615 (9436763)	27	1930	<2	0.4	<5	<1	106	7.14	<0.2	7.0	57.9	0.035	158	3.26
E5563616 (9436764)	24	1990	2	0.3	<5	<1	152	7.99	<0.2	6.7	55.9	0.034	145	3.18
E5563617 (9436765)	<20	404	5	15.0	<5	1	18.4	0.51	<0.2	0.7	1.6	0.006	<5	0.08
E5563618 (9436766)	40	474	11	46.0	147	148	2980	1.05	<0.2	450	8.5	0.011	307	4.91
E5563619 (9436767)	29	2750	3	2.3	<5	<1	80.8	8.10	<0.2	7.5	51.9	0.036	117	3.51
E5563620 (9436768)	26	2170	2	0.9	<5	<1	95.6	8.28	<0.2	7.5	54.8	0.037	164	3.14
E5563621 (9436769)	27	2370	3	0.6	<5	<1	58.0	8.64	0.5	7.3	51.9	0.033	264	3.61
E5563622 (9436770)	28	1860	<2	0.2	<5	<1	107	7.69	<0.2	7.3	54.3	0.034	189	3.11
E5563623 (9436771)	30	2210	<2	0.2	<5	<1	59.1	8.12	<0.2	7.2	55.0	0.036	197	3.26
E5563624 (9436772)	22	1780	<2	0.1	<5	<1	74.0	7.79	<0.2	6.6	51.4	0.037	156	3.02
E5563625 (9436773)	25	1720	<2	<0.1	<5	<1	50.8	7.23	<0.2	7.5	53.2	0.035	128	3.20
E5563626 (9436774)	27	1880	<2	<0.1	<5	<1	68.9	7.36	<0.2	7.3	55.2	0.036	147	3.30
E5563627 (9436775)	28	1790	2	0.1	<5	<1	225	8.04	0.2	48.0	46.6	0.024	148	3.42
E5563628 (9436776)	23	1250	2	0.4	<5	<1	907	5.65	0.5	172	37.2	<0.005	95	4.55
E5563629 (9436777)	21	636	3	0.9	<5	2	38.5	0.51	<0.2	1.7	1.6	<0.005	23	0.08
E5563630 (9436778)	<20	29	<2	<0.1	<5	<1	5.0	<0.05	<0.2	2.6	<0.5	<0.005	<5	0.16
E5563631 (9436779)	<20	935	3	0.5	<5	1	18.0	0.61	<0.2	1.2	0.5	<0.005	<5	0.08
E5563632 (9436780)	29	549	4	0.3	<5	1	84.8	0.23	<0.2	1.1	1.2	<0.005	<5	0.15
E5563633 (9436781)	29	968	4	1.6	<5	<1	44.3	0.19	<0.2	1.3	0.8	<0.005	<5	<0.05
E5563634 (9436782)	25	1610	4	1.6	<5	<1	50.2	0.23	<0.2	0.2	0.6	<0.005	<5	<0.05
E5563635 (9436783)	33	401	7	10.6	34	25	1910	1.05	<0.2	1070	6.9	0.007	282	8.33

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

5623 McADAM ROAD
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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05
E5563636 (9436784)	27	1890	7	6.1	<5	2	86.4	0.19	<0.2	0.7	0.6	0.006	<5	<0.05
E5563637 (9436785)	28	1030	10	3.3	<5	2	49.4	0.24	<0.2	0.8	0.7	0.006	<5	<0.05
E5563638 (9436786)	28	985	9	3.4	<5	2	47.8	0.17	<0.2	0.6	0.7	0.005	<5	<0.05
E5563639 (9436787)	20	1020	6	2.3	5	2	23.1	0.34	<0.2	1.6	1.2	<0.005	<5	0.11
E5563640 (9436788)	34	2230	3	0.6	<5	<1	227	6.54	0.2	10.9	57.2	0.026	150	4.12
E5563641 (9436789)	38	1810	<2	0.3	<5	<1	228	6.60	<0.2	10.8	55.2	0.026	130	4.02
E5563642 (9436790)	29	1360	3	0.1	<5	<1	230	4.98	<0.2	16.5	35.8	0.018	83	2.86
E5563643 (9436791)	26	764	4	0.1	<5	<1	479	2.74	<0.2	33.0	5.9	0.006	46	1.64
E5563644 (9436792)	21	1060	6	0.2	<5	<1	557	3.06	0.3	23.2	6.0	0.006	36	0.96
E5563645 (9436793)	30	1450	4	0.1	<5	<1	168	3.46	<0.2	14.6	4.3	<0.005	13	0.94
E5563646 (9436794)	33	1410	4	<0.1	<5	<1	250	3.51	<0.2	15.6	5.5	<0.005	18	0.93

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563604 (9436752)	1.93	0.67	15.0	2.35	2	1	0.62	<0.2	2.4	0.29	5.1	135	7	0.99
E5563605 (9436753)	2.31	0.74	17.2	2.96	2	1	0.73	<0.2	2.7	0.31	5.8	152	<5	1.12
E5563606 (9436754)	<0.05	<0.05	55.6	0.07	5	<1	<0.05	<0.2	0.1	<0.05	0.2	13	<5	<0.05
E5563607 (9436755)	<0.05	<0.05	53.1	0.10	6	2	<0.05	<0.2	0.3	<0.05	0.4	14	<5	0.10
E5563608 (9436756)	<0.05	<0.05	64.0	0.05	6	1	<0.05	<0.2	0.3	<0.05	0.2	10	5	0.07
E5563609 (9436757)	2.35	0.77	18.4	3.11	2	1	0.78	<0.2	3.9	0.34	7.0	154	<5	1.42
E5563610 (9436758)	2.17	0.66	16.9	2.66	3	1	0.70	<0.2	2.6	0.32	5.5	133	5	1.10
E5563611 (9436759)	2.16	0.69	17.2	2.55	3	1	0.71	<0.2	2.6	0.32	5.2	135	<5	1.06
E5563612 (9436760)	<0.05	<0.05	91.1	0.14	6	4	<0.05	<0.2	0.6	<0.05	0.9	9	<5	0.23
E5563613 (9436761)	2.16	0.60	18.0	2.80	2	1	0.72	<0.2	2.6	0.32	5.7	138	<5	1.07
E5563614 (9436762)	2.19	0.64	16.7	2.66	3	1	0.67	<0.2	2.5	0.30	5.3	136	<5	1.04
E5563615 (9436763)	2.26	0.69	18.0	2.64	2	1	0.70	<0.2	2.6	0.32	5.7	143	<5	1.10
E5563616 (9436764)	2.05	0.68	17.6	2.67	2	1	0.69	<0.2	2.4	0.31	5.6	146	<5	1.06
E5563617 (9436765)	0.05	<0.05	46.5	0.11	5	2	<0.05	<0.2	0.4	<0.05	0.4	14	<5	0.08
E5563618 (9436766)	1.84	4.34	49.9	12.7	7	5	0.78	11.4	268	0.22	151	41	38	49.3
E5563619 (9436767)	2.37	0.73	16.9	2.91	2	1	0.74	<0.2	2.9	0.33	6.0	142	<5	1.15
E5563620 (9436768)	2.05	0.68	19.4	2.75	2	1	0.68	<0.2	2.8	0.29	5.9	159	<5	1.17
E5563621 (9436769)	2.44	0.70	17.3	2.80	2	1	0.76	<0.2	2.8	0.36	5.8	133	75	1.12
E5563622 (9436770)	2.01	0.70	17.8	2.68	2	1	0.67	<0.2	2.8	0.29	5.7	139	<5	1.12
E5563623 (9436771)	2.17	0.72	17.1	2.68	2	1	0.69	<0.2	2.7	0.31	5.8	185	11	1.11
E5563624 (9436772)	1.98	0.65	16.5	2.47	1	1	0.63	<0.2	2.5	0.28	5.3	144	<5	1.03
E5563625 (9436773)	2.05	0.75	16.3	2.74	1	1	0.68	<0.2	2.8	0.30	5.6	132	<5	1.10
E5563626 (9436774)	2.17	0.66	17.3	2.77	2	1	0.72	<0.2	2.8	0.32	6.0	144	<5	1.18
E5563627 (9436775)	1.91	1.25	17.4	4.32	2	2	0.70	<0.2	22.5	0.28	23.1	114	6	5.85
E5563628 (9436776)	2.10	3.18	22.8	9.52	2	4	0.78	<0.2	82.3	0.26	77.4	74	14	20.3
E5563629 (9436777)	<0.05	0.07	56.7	0.18	6	<1	<0.05	<0.2	0.7	<0.05	1.1	10	5	0.24
E5563630 (9436778)	0.10	<0.05	0.32	0.17	<1	<1	<0.05	<0.2	1.2	<0.05	1.1	13	<5	0.30
E5563631 (9436779)	<0.05	<0.05	43.7	0.17	6	2	<0.05	<0.2	0.5	<0.05	0.8	7	<5	0.17
E5563632 (9436780)	0.07	0.06	47.0	0.22	5	1	<0.05	<0.2	0.4	<0.05	0.9	9	<5	0.17
E5563633 (9436781)	<0.05	<0.05	65.6	0.12	5	2	<0.05	<0.2	0.4	<0.05	0.7	12	<5	0.14
E5563634 (9436782)	<0.05	<0.05	66.0	<0.05	6	4	<0.05	<0.2	0.1	<0.05	<0.1	23	6	<0.05
E5563635 (9436783)	2.54	9.24	24.3	27.1	4	5	1.17	2.5	645	0.24	356	26	27	112

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
Sample ID (AGAT ID)														
E5563636 (9436784)	<0.05	<0.05	49.9	<0.05	6	5	<0.05	<0.2	0.4	<0.05	0.2	51	<5	0.07
E5563637 (9436785)	<0.05	<0.05	51.3	<0.05	6	2	<0.05	<0.2	0.4	<0.05	0.3	71	<5	0.07
E5563638 (9436786)	<0.05	<0.05	53.5	<0.05	6	1	<0.05	<0.2	0.4	<0.05	0.1	64	<5	<0.05
E5563639 (9436787)	0.08	0.06	44.5	0.26	6	2	<0.05	<0.2	0.5	<0.05	1.4	47	<5	0.26
E5563640 (9436788)	2.61	0.92	20.9	3.43	1	2	0.86	<0.2	4.2	0.39	8.2	155	<5	1.62
E5563641 (9436789)	2.72	0.98	20.4	3.66	1	2	0.83	<0.2	4.2	0.39	8.2	153	8	1.61
E5563642 (9436790)	1.77	0.76	16.0	2.74	1	2	0.62	<0.2	7.5	0.27	8.8	111	18	2.10
E5563643 (9436791)	0.83	0.62	14.5	2.37	1	4	0.30	<0.2	16.1	0.12	13.3	39	8	3.69
E5563644 (9436792)	0.50	0.47	14.7	1.47	1	3	0.20	<0.2	11.9	0.07	8.9	42	9	2.55
E5563645 (9436793)	0.57	0.39	14.6	1.18	1	2	0.20	<0.2	7.8	0.08	6.0	35	7	1.62
E5563646 (9436794)	0.58	0.40	15.4	1.17	1	2	0.19	<0.2	8.4	0.09	6.1	38	<5	1.71

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	S % 0.01	Sb ppm 0.1	Sc ppm 5	Sm ppm 0.1	Sr ppm 0.1	Tb ppm 0.05	Th ppm 0.1	Ti % 0.01	Tl ppm 0.5	Tm ppm 0.05	U ppm 0.05	V ppm 5	W ppm 1	Y ppm 0.5
E5563604 (9436752)		0.06	0.3	45	1.6	106	0.45	0.3	0.49	0.5	0.28	0.09	278	2	16.4
E5563605 (9436753)		0.13	1.4	49	2.1	124	0.50	0.3	0.55	1.0	0.34	0.08	302	<1	18.7
E5563606 (9436754)		<0.01	0.3	<5	<0.1	40.5	<0.05	1.0	0.02	17.9	<0.05	2.29	<5	4	<0.5
E5563607 (9436755)		<0.01	0.5	<5	0.1	28.7	<0.05	4.9	0.01	18.6	<0.05	9.39	<5	3	<0.5
E5563608 (9436756)		<0.01	0.3	<5	<0.1	58.0	<0.05	4.9	0.01	39.5	<0.05	8.58	<5	4	<0.5
E5563609 (9436757)		<0.01	1.0	50	2.2	120	0.55	0.8	0.57	1.4	0.35	0.15	324	2	20.0
E5563610 (9436758)		0.20	<0.1	46	1.8	94.5	0.48	0.4	0.49	0.6	0.30	0.08	290	30	18.3
E5563611 (9436759)		<0.01	<0.1	45	1.9	94.8	0.46	0.3	0.50	0.8	0.30	0.08	294	21	18.2
E5563612 (9436760)		<0.01	<0.1	<5	0.1	43.0	<0.05	9.5	0.01	16.8	<0.05	5.04	<5	4	0.6
E5563613 (9436761)		0.02	0.3	49	2.0	125	0.49	0.8	0.55	1.7	0.32	0.35	308	<1	18.7
E5563614 (9436762)		<0.01	0.4	46	1.8	106	0.48	0.4	0.50	<0.5	0.30	0.07	292	<1	18.1
E5563615 (9436763)		0.01	0.1	48	1.8	96.7	0.47	0.4	0.52	1.0	0.33	0.07	301	1	18.0
E5563616 (9436764)		0.02	<0.1	46	1.8	104	0.47	0.3	0.51	1.0	0.32	0.08	296	<1	17.9
E5563617 (9436765)		<0.01	<0.1	<5	<0.1	21.3	<0.05	5.1	0.02	6.6	<0.05	3.06	10	1	0.5
E5563618 (9436766)		0.02	28.6	8	19.1	206	1.39	115	0.38	7.5	0.25	25.3	78	13	17.7
E5563619 (9436767)		0.01	<0.1	49	1.9	93.9	0.52	1.3	0.53	0.9	0.34	0.10	307	5	19.1
E5563620 (9436768)		0.04	0.1	46	2.0	114	0.50	0.6	0.55	2.4	0.29	0.10	298	5	17.5
E5563621 (9436769)		0.15	0.4	47	2.0	95.6	0.54	0.4	0.48	0.5	0.36	0.13	282	<1	20.3
E5563622 (9436770)		0.01	<0.1	43	1.9	128	0.46	0.3	0.52	0.6	0.29	0.07	288	<1	17.3
E5563623 (9436771)		0.07	<0.1	49	1.9	115	0.50	0.3	0.54	<0.5	0.32	0.08	310	<1	17.9
E5563624 (9436772)		0.04	<0.1	48	1.6	114	0.43	0.3	0.53	<0.5	0.29	0.07	303	<1	16.5
E5563625 (9436773)		0.02	<0.1	45	1.9	112	0.50	0.3	0.52	<0.5	0.30	0.08	286	<1	17.4
E5563626 (9436774)		<0.01	<0.1	47	1.8	142	0.50	0.3	0.53	<0.5	0.32	0.08	295	<1	18.0
E5563627 (9436775)		0.13	<0.1	38	4.5	397	0.63	3.7	0.60	<0.5	0.28	0.83	260	<1	18.3
E5563628 (9436776)		0.23	0.4	15	12.4	931	1.10	14.5	0.82	2.8	0.28	3.84	172	<1	20.6
E5563629 (9436777)		<0.01	0.1	<5	0.3	62.4	<0.05	4.5	0.02	24.7	<0.05	3.81	<5	3	<0.5
E5563630 (9436778)		<0.01	0.1	<5	0.2	<0.1	<0.05	0.8	0.03	<0.5	<0.05	0.15	<5	<1	1.0
E5563631 (9436779)		<0.01	0.1	<5	0.1	23.6	<0.05	3.3	<0.01	4.0	<0.05	2.33	<5	<1	0.5
E5563632 (9436780)		<0.01	<0.1	<5	0.2	21.6	<0.05	5.0	<0.01	6.1	<0.05	2.35	8	1	0.8
E5563633 (9436781)		<0.01	0.3	<5	0.1	25.0	<0.05	7.5	<0.01	10.0	<0.05	8.14	<5	1	<0.5
E5563634 (9436782)		<0.01	0.3	<5	<0.1	21.8	<0.05	3.2	<0.01	5.8	<0.05	14.2	<5	<1	<0.5
E5563635 (9436783)		0.02	9.8	10	43.3	277	2.87	85.3	0.46	10.8	0.28	15.0	62	4	25.5

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Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

5623 McADAM ROAD
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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y
	Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5
E5563636 (9436784)		<0.01	0.3	<5	<0.1	22.5	<0.05	11.0	<0.01	6.9	<0.05	22.8	6	1	<0.5
E5563637 (9436785)		<0.01	0.2	<5	<0.1	23.3	<0.05	5.6	<0.01	9.5	<0.05	6.01	9	1	<0.5
E5563638 (9436786)		<0.01	0.2	<5	<0.1	26.0	<0.05	4.1	<0.01	10.2	<0.05	5.13	7	2	<0.5
E5563639 (9436787)		<0.01	0.2	<5	0.3	27.0	<0.05	3.7	0.02	11.2	<0.05	7.45	11	2	0.9
E5563640 (9436788)		0.06	0.7	50	2.5	103	0.61	1.2	0.79	4.0	0.40	0.34	384	<1	21.2
E5563641 (9436789)		<0.01	<0.1	50	2.6	87.1	0.65	0.7	0.80	0.8	0.38	0.12	388	<1	21.8
E5563642 (9436790)		0.02	0.3	33	2.1	80.2	0.44	1.4	0.56	1.8	0.25	0.36	251	<1	15.1
E5563643 (9436791)		0.03	0.2	6	2.4	58.5	0.31	3.5	0.24	1.5	0.12	0.96	47	<1	8.0
E5563644 (9436792)		0.11	0.9	<5	1.5	58.3	0.20	2.5	0.19	2.6	0.08	0.82	35	<1	5.1
E5563645 (9436793)		<0.01	0.3	<5	1.2	49.3	0.18	1.5	0.17	1.2	0.08	0.47	31	<1	6.0
E5563646 (9436794)		<0.01	0.4	<5	1.2	48.7	0.17	1.3	0.19	1.1	0.08	0.43	36	<1	6.1

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AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563604 (9436752)		1.9	111	38.9
E5563605 (9436753)		2.2	119	47.3
E5563606 (9436754)		<0.1	144	4.3
E5563607 (9436755)		<0.1	82	14.4
E5563608 (9436756)		<0.1	139	8.2
E5563609 (9436757)		2.3	95	49.1
E5563610 (9436758)		2.1	86	43.1
E5563611 (9436759)		2.1	87	44.3
E5563612 (9436760)		<0.1	90	26.0
E5563613 (9436761)		2.2	92	46.7
E5563614 (9436762)		2.1	88	41.5
E5563615 (9436763)		2.1	87	46.7
E5563616 (9436764)		2.0	83	45.8
E5563617 (9436765)		<0.1	26	8.9
E5563618 (9436766)		1.5	353	164
E5563619 (9436767)		2.2	89	43.8
E5563620 (9436768)		2.0	99	45.1
E5563621 (9436769)		2.4	226	43.3
E5563622 (9436770)		2.0	78	44.2
E5563623 (9436771)		2.2	95	45.2
E5563624 (9436772)		1.9	86	42.3
E5563625 (9436773)		2.0	86	43.3
E5563626 (9436774)		2.1	84	46.0
E5563627 (9436775)		1.9	107	70.4
E5563628 (9436776)		1.8	203	159
E5563629 (9436777)		<0.1	149	6.0
E5563630 (9436778)		0.1	<5	24.9
E5563631 (9436779)		<0.1	31	12.5
E5563632 (9436780)		<0.1	55	7.9
E5563633 (9436781)		<0.1	56	16.1
E5563634 (9436782)		<0.1	37	21.1
E5563635 (9436783)		1.8	136	201

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563636 (9436784)		<0.1	44	35.6
E5563637 (9436785)		<0.1	35	10.8
E5563638 (9436786)		<0.1	54	9.6
E5563639 (9436787)		<0.1	37	18.3
E5563640 (9436788)		2.5	102	67.0
E5563641 (9436789)		2.6	106	65.7
E5563642 (9436790)		1.8	89	79.7
E5563643 (9436791)		0.8	72	144
E5563644 (9436792)		0.5	78	118
E5563645 (9436793)		0.5	63	85.6
E5563646 (9436794)		0.5	77	89.1

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

Sieving - % Passing (Crushing)

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563604 (9436752)		92
E5563614 (9436762)		92
E5563624 (9436772)		93
E5563634 (9436782)		89
E5563644 (9436792)		90

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

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CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Jul 30, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563604 (9436752)		94
E5563634 (9436782)		88

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9436752	3.10	3.20	3.2%	9436763	3.10	3.10	0.0%	9436776	3.10	3.00	3.3%	9436787	2.70	2.70	0.0%

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9436752	289	297	2.7%	9436763	305	310	1.6%	9436776	969	947	2.3%	9436787	513	488	5.0%
Li2O	9436752	0.0622	0.0640	2.9%	9436763	0.066	0.067	1.5%	9436776	0.208	0.204	1.9%	9436787	0.110	0.105	4.7%
Ta	9436752	< 0.5	< 0.5	0.0%	9436763	< 0.5	< 0.5	0.0%	9436776	< 0.5	< 0.5	0.0%	9436787	144	110	26.8%
Nb	9436752	1	2		9436763	2	2	0.0%	9436776	5	5	0.0%	9436787	108	84	25.0%
Sn	9436752	2	2	0.0%	9436763	2	2	0.0%	9436776	3	4	28.6%	9436787	17	16	6.1%
Cs	9436752	9.9	11.2	12.3%	9436763	70.3	70.6	0.4%	9436776	231	227	1.7%	9436787	182	163	11.0%
Rb	9436752	76.5	86.8	12.6%	9436763	99.9	99.9	0.0%	9436776	286	282	1.4%	9436787	1360	1220	10.9%
K	9436752	0.38	0.38	0.0%	9436763	0.364	0.370	1.6%	9436776	1.18	1.16	1.7%	9436787	1.49	1.45	2.7%
Mg	9436752	3.10	3.17	2.2%	9436763	3.57	3.66	2.5%	9436776	3.24	3.09	4.7%	9436787	0.09	0.09	0.0%
Fe	9436752	8.64	8.99	4.0%	9436763	8.84	8.99	1.7%	9436776	7.30	7.36	0.8%	9436787	0.51	0.82	
P	9436752	0.03	0.03	0.0%	9436763	0.027	0.025	7.7%	9436776	0.208	0.203	2.4%	9436787	0.06	0.06	0.0%
Al	9436752	7.83	8.18	4.4%	9436763	8.54	8.53	0.1%	9436776	8.83	8.69	1.6%	9436787	9.46	9.03	4.7%
Si	9436752	22.9	23.8	3.9%	9436763	22.7	22.9	0.9%	9436776	24.0	24.1	0.4%	9436787	36.7	35.4	3.6%
Be	9436752	< 5	< 5	0.0%	9436763	< 5	< 5	0.0%	9436776	< 5	< 5	0.0%	9436787	216	197	9.2%
B	9436752	25	30	18.2%	9436763	27	25	7.7%	9436776	23	24	4.3%	9436787	20	19	5.1%
Mn	9436752	1950	2030	4.0%	9436763	1930	1970	2.1%	9436776	1250	1260	0.8%	9436787	1020	1040	1.9%
Mo	9436752	3	3	0.0%	9436763	< 2	3		9436776	2	2	0.0%	9436787	6	10	50.0%
Bi	9436752	0.22	0.29	27.5%	9436763	0.4	0.4	0.0%	9436776	0.4	0.4	0.0%	9436787	2.3	1.9	19.0%
As	9436752	6	< 5		9436763	< 5	< 5	0.0%	9436776	< 5	< 5	0.0%	9436787	5	< 5	
Ag	9436752	< 1	< 1	0.0%	9436763	< 1	< 1	0.0%	9436776	< 1	< 1	0.0%	9436787	2	2	0.0%
Ba	9436752	79.8	78.0	2.3%	9436763	106	104	1.9%	9436776	907	892	1.7%	9436787	23.1	23.7	2.6%
Ca	9436752	7.77	8.04	3.4%	9436763	7.14	7.15	0.1%	9436776	5.65	5.92	4.7%	9436787	0.339	0.334	1.5%
Cd	9436752	0.24	0.25	4.1%	9436763	< 0.2	< 0.2	0.0%	9436776	0.5	0.5	0.0%	9436787	< 0.2	< 0.2	0.0%
Ce	9436752	6.5	7.2	10.2%	9436763	7.0	6.9	1.4%	9436776	172	171	0.6%	9436787	1.58	1.54	2.6%
Co	9436752	47.2	52.8	11.2%	9436763	57.9	57.7	0.3%	9436776	37.2	38.1	2.4%	9436787	1.23	1.26	2.4%
Cr	9436752	0.034	0.034	0.0%	9436763	0.0352	0.0355	0.8%	9436776	< 0.005	< 0.005	0.0%	9436787	< 0.005	0.008	
Cu	9436752	156	168	7.4%	9436763	158	161	1.9%	9436776	95	105	10.0%	9436787	< 5	7	



CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

Dy	9436752	3.02	3.34	10.1%	9436763	3.26	3.32	1.8%	9436776	4.55	4.55	0.0%	9436787	0.11	0.15	
Er	9436752	1.93	2.21	13.5%	9436763	2.26	2.16	4.5%	9436776	2.10	2.08	1.0%	9436787	0.08	0.11	
Eu	9436752	0.67	0.67	0.0%	9436763	0.695	0.729	4.8%	9436776	3.18	2.92	8.5%	9436787	0.06	0.09	
Ga	9436752	15.0	16.7	10.7%	9436763	18.0	17.7	1.7%	9436776	22.8	22.8	0.0%	9436787	44.5	40.0	10.7%
Gd	9436752	2.35	2.85	19.2%	9436763	2.64	2.68	1.5%	9436776	9.52	9.30	2.3%	9436787	0.26	0.32	20.7%
Ge	9436752	2	2	0.0%	9436763	2	2	0.0%	9436776	2	2	0.0%	9436787	6	5	18.2%
Hf	9436752	1	1	0.0%	9436763	1	1	0.0%	9436776	4	4	0.0%	9436787	2	3	
Ho	9436752	0.621	0.735	16.8%	9436763	0.697	0.716	2.7%	9436776	0.781	0.801	2.5%	9436787	< 0.05	0.07	
In	9436752	< 0.2	< 0.2	0.0%	9436763	< 0.2	< 0.2	0.0%	9436776	< 0.2	< 0.2	0.0%	9436787	< 0.2	< 0.2	0.0%
La	9436752	2.4	2.7	11.8%	9436763	2.56	2.50	2.4%	9436776	82.3	82.6	0.4%	9436787	0.5	0.5	0.0%
Lu	9436752	0.294	0.327	10.6%	9436763	0.32	0.32	0.0%	9436776	0.258	0.254	1.6%	9436787	< 0.05	0.06	
Nd	9436752	5.12	5.72	11.1%	9436763	5.70	5.41	5.2%	9436776	77.4	78.0	0.8%	9436787	1.38	1.20	14.0%
Ni	9436752	135	136	0.7%	9436763	143	140	2.1%	9436776	74	74	0.0%	9436787	47	50	6.2%
Pb	9436752	7	7	0.0%	9436763	< 5	< 5	0.0%	9436776	14	14	0.0%	9436787	< 5	< 5	0.0%
Pr	9436752	0.994	1.11	11.0%	9436763	1.10	1.08	1.8%	9436776	20.3	20.4	0.5%	9436787	0.259	0.267	3.0%
S	9436752	0.06	0.06	0.0%	9436763	0.01	0.01	0.0%	9436776	0.226	0.217	4.1%	9436787	< 0.01	< 0.01	0.0%
Sb	9436752	0.3	0.3	0.0%	9436763	0.1	0.1	0.0%	9436776	0.4	0.4	0.0%	9436787	0.15	0.14	6.9%
Sc	9436752	45	46	2.2%	9436763	48	47	2.1%	9436776	15	15	0.0%	9436787	< 5	< 5	0.0%
Sm	9436752	1.64	1.88	13.6%	9436763	1.8	1.9	5.4%	9436776	12.4	11.8	5.0%	9436787	0.3	0.3	0.0%
Sr	9436752	106	108	1.9%	9436763	96.7	97.1	0.4%	9436776	931	912	2.1%	9436787	27.0	27.6	2.2%
Tb	9436752	0.454	0.481	5.8%	9436763	0.47	0.48	2.1%	9436776	1.10	1.09	0.9%	9436787	< 0.05	0.07	
Th	9436752	0.3	0.3	0.0%	9436763	0.35	0.30	15.4%	9436776	14.5	14.6	0.7%	9436787	3.7	3.8	2.7%
Ti	9436752	0.49	0.50	2.0%	9436763	0.52	0.53	1.9%	9436776	0.82	0.82	0.0%	9436787	0.02	0.02	0.0%
Tl	9436752	0.50	0.58	14.8%	9436763	1.0	1.0	0.0%	9436776	2.82	2.92	3.5%	9436787	11.2	10.2	9.3%
Tm	9436752	0.277	0.336	19.2%	9436763	0.33	0.30	9.5%	9436776	0.28	0.28	0.0%	9436787	< 0.05	0.06	
U	9436752	0.088	0.105	17.6%	9436763	0.073	0.081	10.4%	9436776	3.84	3.80	1.0%	9436787	7.45	6.78	9.4%
V	9436752	278	285	2.5%	9436763	301	303	0.7%	9436776	172	168	2.4%	9436787	11	10	9.5%
W	9436752	2	1		9436763	1	< 1		9436776	< 1	< 1	0.0%	9436787	2	1	
Y	9436752	16.4	18.4	11.5%	9436763	18.0	17.9	0.6%	9436776	20.6	21.0	1.9%	9436787	0.91	0.81	11.6%
Yb	9436752	1.9	2.2	14.6%	9436763	2.1	2.1	0.0%	9436776	1.84	1.74	5.6%	9436787	< 0.1	0.1	
Zn	9436752	111	119	7.0%	9436763	87	85	2.3%	9436776	203	204	0.5%	9436787	37	37	0.0%
Zr	9436752	38.9	44.4	13.2%	9436763	46.7	45.6	2.4%	9436776	159	158	0.6%	9436787	18.3	18.7	2.2%



CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

Parameter	CRM #1				CRM #2				CRM #3				CRM #4			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.Till-2)				CRM #2 (ref.GBM998-10)				CRM #3 (ref.SY-4)				CRM #4			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	47	51	108%	90% - 110%					37	39	105%	90% - 110%				
Ta	1.9	2	106%	90% - 110%												
Nb	20	18	91%	90% - 110%					13	14	109%	90% - 110%				
Sn									7.1	7.8	109%	90% - 110%				
Cs									1.5	1.4	96%	90% - 110%				
Rb	144	146	101%	90% - 110%					55	55	100%	90% - 110%				
K	2.55	2.79	109%	90% - 110%					1.37	1.49	109%	90% - 110%				
Mg	1.1	1.2	109%	90% - 110%					0.325	0.335	103%	90% - 110%				
Fe	3.77	4.14	110%	90% - 110%					4.34	4.52	104%	90% - 110%				
Al	8.47	9.03	107%	90% - 110%					10.95	11.52	105%	90% - 110%				
Si	28.4	30.4	107%	90% - 110%					23.3	24.3	104%	90% - 110%				
Be	4.0	3.6	90%	90% - 110%					2.6	2.6	101%	90% - 110%				
Mn	780	851	109%	90% - 110%					836	885	106%	90% - 110%				
Mo	14	13	94%	90% - 110%												
As	26	24	93%	90% - 110%	25	27	106%	90% - 110%								
Ba	540	584	108%	90% - 110%					340	369	109%	90% - 110%				
Ca	0.907	0.99	109%	90% - 110%					5.72	5.72	100%	90% - 110%				
Ce	98	102	104%	90% - 110%					122	126	103%	90% - 110%				
Co	15	15	98%	90% - 110%	1202	1310	109%	90% - 110%	2.8	2.5	91%	90% - 110%				
Cu	150	163	109%	90% - 110%	15414	15444	100%	90% - 110%	7	7	106%	90% - 110%				
Dy									18.2	19.8	109%	90% - 110%				
Er	3.7	4	109%	90% - 110%					14.2	15.3	108%	90% - 110%				
Eu	1.0	1.3	128%	90% - 110%					2.0	1.9	94%	90% - 110%				
Ga									35	38	109%	90% - 110%				
Gd									14	15	110%	90% - 110%				
Hf	11	10	90%	90% - 110%					10.6	11	103%	90% - 110%				
Ho									4.3	4.5	106%	90% - 110%				



CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

ATTENTION TO: Brad Boyle

La	44	46	104%	90% - 110%					58	59	102%	90% - 110%				
Lu	0.6	0.6	96%	90% - 110%					2.1	2.2	104%	90% - 110%				
Nd									57	60	105%	90% - 110%				
Ni					23610	24000	101%	90% - 110%								
Pb	31	31	101%	90% - 110%	41	41	100%	90% - 110%	10	11	105%	90% - 110%				
Pr									15.0	15.5	103%	90% - 110%				
Sb	0.8	0.7	93%	90% - 110%												
Sc	12	13	110%	90% - 110%												
Sm	7.4	7.8	105%	90% - 110%					12.7	13.2	104%	90% - 110%				
Sr	144	157	109%	90% - 110%					1191	1272	107%	90% - 110%				
Tb	1.2	1.2	101%	90% - 110%					2.6	2.8	109%	90% - 110%				
Th	18.4	17.2	93%	90% - 110%					1.4	1.5	106%	90% - 110%				
Ti	0.527	0.56	106%	90% - 110%					0.172	0.181	105%	90% - 110%				
Tm									2.3	2.4	103%	90% - 110%				
U	5.7	5.6	98%	90% - 110%					0.8	0.8	101%	90% - 110%				
V	77	87	113%	90% - 110%												
W	5	5	96%	90% - 110%												
Y	40	37	92%	90% - 110%					119	120	101%	90% - 110%				
Yb									14.8	15.6	105%	90% - 110%				
Zn	130	132	102%	90% - 110%	90	83	92%	90% - 110%	93	102	110%	90% - 110%				
Zr	390	374	96%	90% - 110%					517	567	110%	90% - 110%				



Method Summary

CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO
 PROJECT: 18B368007
 SAMPLING SITE:

AGAT WORK ORDER: 18B368007
 ATTENTION TO: Brad Boyle
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: FLADGATE EXPLORATION CONSULTING GEO

AGAT WORK ORDER: 18B368007

PROJECT: 18B368007

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Peter Spitalny

PROJECT: 18B368036

AGAT WORK ORDER: 18B368036

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Aug 30, 2018

PAGES (INCLUDING COVER): 7

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B368036

PROJECT: 18B368036

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Jul 29, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 30, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5561560 (9435561)		1.916
E5561561 (9435562)		1.848
E5561562 (9435563)		2.174
E5561563 (9435564)		1.862
E5561564 (9435565)		1.812

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368036

PROJECT: 18B368036

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Jul 29, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 30, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
E5561560 (9435561)			0.017
E5561561 (9435562)			0.003
E5561562 (9435563)			0.005
E5561563 (9435564)			0.018
E5561564 (9435565)			0.004

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B368036

PROJECT: 18B368036

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Sieving - % Passing (Crushing)

DATE SAMPLED: Jul 29, 2018

DATE RECEIVED: Jul 30, 2018

DATE REPORTED: Aug 30, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
E5561560 (9435561)	91

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	Sample ID	REPLICATE #1			RPD										
		Original	Replicate	RPD											
Au	9435561	0.017	0.007	83.3%											



AGAT Laboratories

Quality Assurance - Certified Reference materials
 AGAT WORK ORDER: 18B368036
 PROJECT: 18B368036

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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1													
	Expect	Actual	Recovery	Limits										
Au	5.27	5.66	107%	90% - 110%										



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B368036

PROJECT: 18B368036

ATTENTION TO: Peter Spitalny

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Peter Spitalny

PROJECT: 18B369852

AGAT WORK ORDER: 18B369852

SOLID ANALYSIS REVIEWED BY: Adel Mina, Mining Chief Chemist

DATE REPORTED: Aug 27, 2018

PAGES (INCLUDING COVER): 33

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

5623 McADAM ROAD
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 CANADA L4Z 1N9
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563647 (9445273)		2.51
E5563648 (9445274)		3.03
E5563649 (9445275)		0.05
E5563650 (9445276)		1.03
E5563651 (9445277)		2.55
E5563652 (9445278)		2.58
E5563653 (9445279)		2.11
E5563654 (9445280)		1.62
E5563655 (9445281)		1.63
E5563656 (9445282)		1.28
E5563657 (9445283)		0.05
E5563658 (9445284)		1.55
E5563659 (9445285)		1.65
E5563660 (9445286)		1.44
E5563661 (9445287)		1.92
E5563662 (9445288)		1.65
E5563663 (9445289)		2.09
E5563664 (9445290)		2.30
E5563665 (9445291)		1.95
E5563666 (9445292)		0.67
E5563667 (9445293)		2.87
E5563668 (9445294)		0.05
E5563669 (9445295)		2.68
E5563670 (9445296)		2.98
E5563671 (9445297)		2.39
E5563672 (9445298)		2.80
E5563673 (9445299)		0.05
E5563674 (9445300)		2.43
E5563675 (9445301)		1.33
E5563676 (9445302)		1.34
E5563677 (9445303)		2.94

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563678 (9445304)		2.83
E5563679 (9445305)		2.45
E5563680 (9445306)		2.80
E5563681 (9445307)		2.95
E5563682 (9445308)		3.08
E5563683 (9445309)		1.13
E5563684 (9445310)		1.50
E5563685 (9445311)		1.19
E5563686 (9445312)		0.70
E5563687 (9445313)		1.02
E5563688 (9445314)		1.78
E5563689 (9445315)		0.05
E5563690 (9445316)		1.63
E5563691 (9445317)		1.69
E5563692 (9445318)		1.64
E5563693 (9445319)		1.74
E5563694 (9445320)		1.67
E5563695 (9445321)		1.79
E5563696 (9445322)		1.70
E5563697 (9445323)		1.41
E5563698 (9445324)		0.05
E5563699 (9445325)		0.76
E5563700 (9445326)		1.06
E5563701 (9445327)		1.05
E5563702 (9445328)		1.42
E5563703 (9445329)		1.65
E5563704 (9445330)		1.08
E5563705 (9445331)		1.62
E5563706 (9445332)		1.71
E5563707 (9445333)		1.68
E5563708 (9445334)		1.45

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5563709 (9445335)		1.25
E5563710 (9445336)		0.93
E5563711 (9445337)		0.05
E5563712 (9445338)		2.92
E5563713 (9445339)		2.65
E5563714 (9445340)		3.01
E5563715 (9445341)		0.05
E5563716 (9445342)		2.81
E5563717 (9445343)		1.36
E5563718 (9445344)		1.43
E5563719 (9445345)		2.72
E5563720 (9445346)		2.36

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563647 (9445273)		3.10
E5563648 (9445274)		3.10
E5563649 (9445275)		2.70
E5563650 (9445276)		2.80
E5563651 (9445277)		3.10
E5563652 (9445278)		3.20
E5563653 (9445279)		2.90
E5563654 (9445280)		2.70
E5563655 (9445281)		2.80
E5563656 (9445282)		2.70
E5563657 (9445283)		2.90
E5563658 (9445284)		2.70
E5563659 (9445285)		2.70
E5563660 (9445286)		2.70
E5563661 (9445287)		2.70
E5563662 (9445288)		2.80
E5563663 (9445289)		2.80
E5563664 (9445290)		3.00
E5563665 (9445291)		3.00
E5563666 (9445292)		2.70
E5563667 (9445293)		3.10
E5563668 (9445294)		2.70
E5563669 (9445295)		3.10
E5563670 (9445296)		3.10
E5563671 (9445297)		3.20
E5563672 (9445298)		3.20
E5563673 (9445299)		2.80
E5563674 (9445300)		3.00
E5563675 (9445301)		3.00
E5563676 (9445302)		3.00
E5563677 (9445303)		3.10
E5563678 (9445304)		3.10

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 02, 2018 DATE RECEIVED: Aug 01, 2018 DATE REPORTED: Aug 27, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563679 (9445305)		3.10
E5563680 (9445306)		3.20
E5563681 (9445307)		3.30
E5563682 (9445308)		3.00
E5563683 (9445309)		2.70
E5563684 (9445310)		2.70
E5563685 (9445311)		2.70
E5563686 (9445312)		2.90
E5563687 (9445313)		2.80
E5563688 (9445314)		3.00
E5563689 (9445315)		2.70
E5563690 (9445316)		2.90
E5563691 (9445317)		2.90
E5563692 (9445318)		2.70
E5563693 (9445319)		2.70
E5563694 (9445320)		2.90
E5563695 (9445321)		2.80
E5563696 (9445322)		3.00
E5563697 (9445323)		3.10
E5563698 (9445324)		3.00
E5563699 (9445325)		2.70
E5563700 (9445326)		2.70
E5563701 (9445327)		2.70
E5563702 (9445328)		2.70
E5563703 (9445329)		2.70
E5563704 (9445330)		2.70
E5563705 (9445331)		2.80
E5563706 (9445332)		2.80
E5563707 (9445333)		2.70
E5563708 (9445334)		2.80
E5563709 (9445335)		2.80
E5563710 (9445336)		2.70

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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 MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Specific Gravity
	Unit:	g/cm3
	RDL:	0.01
E5563711 (9445337)		2.60
E5563712 (9445338)		3.20
E5563713 (9445339)		3.10
E5563714 (9445340)		3.30
E5563715 (9445341)		2.90
E5563716 (9445342)		3.10
E5563717 (9445343)		3.20
E5563718 (9445344)		3.00
E5563719 (9445345)		3.00
E5563720 (9445346)		3.10

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5
E5563647 (9445273)	295	0.064	<0.5	2	1	21.6	98.6	0.56	2.65	8.89	0.03	9.03	22.9	<5
E5563648 (9445274)	523	0.113	1.1	3	9	241	945	1.08	2.74	8.42	0.05	9.02	22.5	8
E5563649 (9445275)	11	0.002	<0.5	<1	1	0.3	0.8	<0.05	<0.01	0.33	<0.01	0.13	46.2	<5
E5563650 (9445276)	196	0.042	125	73	32	215	2000	1.56	0.10	0.78	0.16	9.02	31.5	174
E5563651 (9445277)	416	0.090	0.7	2	5	189	600	0.90	2.21	8.45	0.03	8.74	22.7	10
E5563652 (9445278)	458	0.099	<0.5	2	1	289	809	1.09	2.24	8.01	0.03	8.60	23.0	<5
E5563653 (9445279)	754	0.162	90.6	15	7	502	1710	1.68	1.98	5.59	0.08	8.19	24.5	46
E5563654 (9445280)	37	0.008	82.0	34	6	44.3	488	0.56	0.04	0.26	0.09	8.83	32.5	160
E5563655 (9445281)	30	0.006	55.7	24	6	32.1	416	0.49	0.02	0.25	0.05	8.56	33.4	173
E5563656 (9445282)	31	0.007	85.3	40	6	36.0	492	0.53	0.02	0.26	0.06	9.25	33.9	127
E5563657 (9445283)	10200	2.20	27.0	5580	2970	346	784	1.41	0.52	4.03	0.11	7.81	29.8	25
E5563658 (9445284)	57	0.012	75.9	53	14	47.9	754	0.83	0.02	0.26	0.05	9.09	35.4	157
E5563659 (9445285)	38	0.008	73.2	32	11	46.2	826	0.93	0.01	0.26	0.06	8.83	35.2	186
E5563660 (9445286)	41	0.009	86.4	34	14	68.2	1150	1.27	0.01	0.24	0.06	8.82	36.0	171
E5563661 (9445287)	33	0.007	63.9	32	13	56.1	1030	1.11	0.02	0.26	0.06	8.83	33.2	131
E5563662 (9445288)	32	0.007	190	75	13	66.2	1070	1.15	0.02	0.40	0.07	10.6	31.7	189
E5563663 (9445289)	617	0.133	12.8	9	5	90.0	925	1.41	2.48	7.47	0.05	8.84	23.7	9
E5563664 (9445290)	334	0.072	552	116	13	130	1690	1.81	0.79	2.67	0.09	9.48	28.7	83
E5563665 (9445291)	325	0.070	0.8	2	2	40.4	200	0.49	2.48	8.21	0.02	8.26	22.5	<5
E5563666 (9445292)	47	0.010	126	39	12	37.1	715	0.51	0.08	0.48	0.08	7.65	33.2	58
E5563667 (9445293)	398	0.086	0.5	2	1	15.0	105	0.44	2.44	9.72	0.03	8.38	22.4	<5
E5563668 (9445294)	11	0.002	<0.5	<1	<1	0.3	1.1	<0.05	<0.01	0.31	<0.01	0.11	42.6	<5
E5563669 (9445295)	290	0.062	<0.5	2	2	13.1	38.2	0.30	2.21	8.96	0.02	8.01	22.8	<5
E5563670 (9445296)	325	0.070	<0.5	2	1	14.7	43.8	0.29	2.33	8.57	0.03	8.25	23.2	<5
E5563671 (9445297)	287	0.062	<0.5	1	1	8.6	18.9	0.22	2.51	9.60	0.02	7.76	20.6	<5
E5563672 (9445298)	210	0.045	<0.5	1	1	5.7	25.6	0.23	2.33	8.86	0.02	7.94	20.7	<5
E5563673 (9445299)	2300	0.495	16.8	990	713	232	1110	1.63	0.53	3.07	0.17	4.97	33.1	30
E5563674 (9445300)	226	0.049	<0.5	3	2	5.3	23.2	0.24	2.35	8.21	0.03	8.77	23.6	<5
E5563675 (9445301)	101	0.022	0.6	2	1	1.7	6.1	0.10	3.35	8.19	0.03	7.64	22.3	<5
E5563676 (9445302)	97	0.021	<0.5	1	1	1.3	3.6	0.11	3.39	8.10	0.03	7.45	22.2	<5
E5563677 (9445303)	113	0.024	<0.5	1	1	1.2	4.4	0.11	3.20	8.05	0.03	7.62	22.2	<5
E5563678 (9445304)	180	0.039	5.2	3	2	16.9	29.2	0.13	3.64	7.96	0.03	7.55	22.6	<5

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018	DATE RECEIVED: Aug 01, 2018						DATE REPORTED: Aug 27, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563679 (9445305)	171	0.037	<0.5	2	<1	2.3	17.4	0.23	3.60	8.20	0.03	7.26	22.0	<5	
E5563680 (9445306)	196	0.042	<0.5	2	<1	6.1	11.3	0.16	3.77	8.52	0.05	7.50	21.8	<5	
E5563681 (9445307)	203	0.044	<0.5	1	<1	3.4	12.2	0.14	3.74	8.31	0.03	7.52	22.1	<5	
E5563682 (9445308)	460	0.099	<0.5	2	2	31.0	77.7	0.34	3.69	7.84	0.04	7.56	22.2	<5	
E5563683 (9445309)	327	0.070	111	68	20	90.8	974	0.73	0.10	0.34	0.09	8.55	31.5	59	
E5563684 (9445310)	692	0.149	455	137	20	324	1790	1.50	0.06	0.36	0.13	8.02	33.7	260	
E5563685 (9445311)	1760	0.379	94.7	130	78	332	3780	3.07	0.20	0.93	0.13	7.92	33.2	18	
E5563686 (9445312)	3570	0.769	33.0	45	66	482	3280	4.41	1.18	1.56	0.03	9.95	28.6	38	
E5563687 (9445313)	3720	0.801	18.0	18	41	621	6690	5.32	0.11	0.52	0.04	8.40	32.6	5	
E5563688 (9445314)	15700	3.38	34.7	8	47	470	2530	1.90	0.08	0.46	0.08	8.49	32.9	<5	
E5563689 (9445315)	16	0.003	<0.5	<1	1	0.8	2.6	<0.05	<0.01	0.31	<0.01	0.11	43.1	<5	
E5563690 (9445316)	7310	1.57	40.0	24	27	380	1630	1.07	0.12	0.43	0.03	5.47	35.8	106	
E5563691 (9445317)	12900	2.78	114	50	36	419	2540	1.86	0.22	0.45	0.05	8.07	34.1	35	
E5563692 (9445318)	5500	1.18	144	64	20	578	5360	4.30	0.09	0.31	0.07	7.41	33.4	208	
E5563693 (9445319)	5750	1.24	273	64	17	662	5520	4.05	0.03	0.27	0.05	6.89	35.0	825	
E5563694 (9445320)	14100	3.04	251	35	47	583	2990	1.60	0.06	0.55	0.17	8.59	32.3	28	
E5563695 (9445321)	12300	2.65	72.3	46	52	371	2100	1.22	0.06	0.63	0.04	7.19	34.3	66	
E5563696 (9445322)	16700	3.60	98.3	58	57	604	2140	1.23	0.10	0.82	0.16	9.42	31.2	5	
E5563697 (9445323)	14800	3.19	59.1	71	71	1600	2540	1.70	0.17	0.98	0.11	9.84	32.2	547	
E5563698 (9445324)	9660	2.08	29.5	5620	2900	349	803	1.40	0.53	4.08	0.11	7.90	30.2	25	
E5563699 (9445325)	2590	0.558	81.3	118	86	586	3540	2.56	0.19	1.05	0.07	6.47	36.0	264	
E5563700 (9445326)	530	0.114	154	70	10	93.7	532	0.40	0.02	0.25	0.07	8.63	33.9	66	
E5563701 (9445327)	6240	1.34	95.4	53	23	298	2040	1.40	0.03	0.41	0.07	8.24	34.7	103	
E5563702 (9445328)	612	0.132	179	80	11	295	1310	0.81	0.01	0.21	0.06	8.18	34.7	284	
E5563703 (9445329)	505	0.109	107	82	10	124	684	0.51	0.05	0.30	0.04	8.54	33.2	191	
E5563704 (9445330)	710	0.153	111	45	15	100	886	0.67	0.03	0.36	0.12	8.90	32.7	65	
E5563705 (9445331)	143	0.031	240	116	6	65.1	280	0.27	0.01	0.19	0.09	9.02	32.9	171	
E5563706 (9445332)	335	0.072	219	97	11	131	673	0.51	0.01	0.25	0.10	8.77	34.3	185	
E5563707 (9445333)	435	0.094	106	72	11	212	714	0.57	0.02	0.27	0.11	8.77	34.2	338	
E5563708 (9445334)	2340	0.504	205	171	15	178	886	0.67	0.03	0.40	0.05	8.79	33.4	373	
E5563709 (9445335)	1680	0.362	123	109	18	196	1050	0.88	0.04	0.42	0.04	8.19	32.8	381	
E5563710 (9445336)	297	0.064	171	71	16	252	1130	0.95	0.13	0.71	0.11	8.77	33.1	155	

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018	DATE RECEIVED: Aug 01, 2018					DATE REPORTED: Aug 27, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563711 (9445337)	13	0.003	<0.5	<1	<1	0.8	1.5	<0.05	<0.01	0.34	<0.01	0.12	47.0	<5	
E5563712 (9445338)	283	0.061	5.4	3	8	88.3	87.8	0.24	3.25	8.76	0.05	8.09	22.9	5	
E5563713 (9445339)	214	0.046	<0.5	1	<1	57.3	39.7	0.21	3.39	8.52	0.03	7.95	22.4	<5	
E5563714 (9445340)	318	0.068	<0.5	1	1	50.7	41.3	0.50	2.39	10.2	0.03	8.43	22.9	<5	
E5563715 (9445341)	2320	0.499	17.9	1090	797	244	1180	1.68	0.56	3.20	0.17	5.03	35.5	30	
E5563716 (9445342)	309	0.067	<0.5	2	1	36.2	31.2	0.39	2.29	11.1	0.03	8.30	23.6	<5	
E5563717 (9445343)	320	0.069	<0.5	2	1	81.7	31.3	0.30	3.59	9.75	0.03	8.43	23.2	<5	
E5563718 (9445344)	353	0.076	<0.5	2	<1	160	50.4	0.38	3.86	10.2	0.03	8.41	22.5	<5	
E5563719 (9445345)	163	0.035	<0.5	2	1	7.4	17.4	0.17	3.86	8.18	0.03	7.82	22.9	<5	
E5563720 (9445346)	208	0.045	<0.5	2	1	8.7	26.0	0.24	3.43	8.24	0.03	8.12	23.3	<5	

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018	DATE RECEIVED: Aug 01, 2018						DATE REPORTED: Aug 27, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563647 (9445273)	24	2160	3	0.2	6	<1	81.7	6.89	<0.2	7.1	59.3	0.033	156	3.05	
E5563648 (9445274)	24	2130	2	0.7	<5	<1	113	6.84	<0.2	7.0	56.9	0.033	74	2.80	
E5563649 (9445275)	<20	32	<2	<0.1	<5	<1	3.2	<0.05	<0.2	2.0	0.5	<0.005	<5	0.14	
E5563650 (9445276)	<20	1130	6	2.6	<5	2	11.7	0.64	<0.2	1.4	2.0	<0.005	13	0.19	
E5563651 (9445277)	27	2260	5	1.1	<5	<1	96.7	7.10	<0.2	7.2	58.7	0.032	166	3.05	
E5563652 (9445278)	21	2010	3	0.3	<5	<1	92.2	6.70	<0.2	7.1	59.4	0.033	119	2.79	
E5563653 (9445279)	<20	2030	3	1.7	<5	<1	61.2	3.86	<0.2	7.5	39.2	0.023	69	1.90	
E5563654 (9445280)	<20	412	4	2.3	<5	1	8.1	0.66	<0.2	1.3	0.5	<0.005	6	0.19	
E5563655 (9445281)	<20	751	3	1.0	<5	<1	9.0	0.28	<0.2	0.5	<0.5	<0.005	<5	0.12	
E5563656 (9445282)	<20	512	4	0.3	<5	1	10.4	0.29	<0.2	0.6	<0.5	<0.005	<5	0.18	
E5563657 (9445283)	32	442	10	45.6	134	2	2600	1.00	2.2	414	7.8	0.010	327	4.22	
E5563658 (9445284)	<20	330	4	1.6	<5	2	17.0	0.29	<0.2	1.1	<0.5	<0.005	<5	0.16	
E5563659 (9445285)	<20	341	4	0.7	<5	1	4.3	0.36	<0.2	0.7	<0.5	<0.005	<5	0.19	
E5563660 (9445286)	<20	845	4	0.5	<5	1	2.7	0.14	<0.2	0.5	<0.5	<0.005	<5	0.17	
E5563661 (9445287)	<20	428	5	1.3	<5	1	3.2	0.30	<0.2	0.6	<0.5	<0.005	<5	0.14	
E5563662 (9445288)	<20	534	3	2.2	<5	2	3.3	0.21	<0.2	1.1	<0.5	<0.005	<5	0.13	
E5563663 (9445289)	<20	2420	3	1.1	6	<1	138	4.55	<0.2	7.4	55.7	0.032	65	3.09	
E5563664 (9445290)	<20	1380	3	3.2	<5	4	70.3	1.40	<0.2	2.9	16.6	0.011	31	0.88	
E5563665 (9445291)	<20	2190	2	0.4	<5	<1	90.5	7.35	0.2	6.9	59.6	0.030	181	3.01	
E5563666 (9445292)	<20	581	6	37.0	<5	1	12.8	0.45	<0.2	0.9	1.2	<0.005	<5	0.16	
E5563667 (9445293)	<20	2430	3	1.1	<5	<1	108	7.56	<0.2	7.1	57.4	0.031	196	3.22	
E5563668 (9445294)	<20	28	<2	<0.1	<5	<1	2.8	<0.05	<0.2	2.2	0.6	<0.005	<5	0.16	
E5563669 (9445295)	<20	2140	3	0.3	<5	<1	65.2	6.81	0.3	7.1	59.4	0.030	135	3.01	
E5563670 (9445296)	<20	2000	3	0.1	<5	<1	65.9	6.22	<0.2	7.7	62.2	0.031	118	3.30	
E5563671 (9445297)	<20	2270	2	0.2	<5	<1	48.1	7.96	<0.2	7.1	56.9	0.029	173	3.33	
E5563672 (9445298)	<20	2170	2	0.1	<5	<1	60.5	8.54	<0.2	7.4	58.4	0.030	225	3.12	
E5563673 (9445299)	21	395	7	11.5	31	2.0	1760	1.07	<0.2	1100	6.8	0.006	278	7.94	
E5563674 (9445300)	<20	1940	<2	0.2	<5	<1	66.4	6.74	<0.2	8.9	63.5	0.033	150	3.11	
E5563675 (9445301)	<20	1600	3	<0.1	<5	<1	28.3	8.36	<0.2	6.9	55.1	0.026	149	2.85	
E5563676 (9445302)	<20	1540	2	<0.1	<5	<1	28.9	8.22	<0.2	6.9	54.9	0.025	160	2.76	
E5563677 (9445303)	<20	1610	2	<0.1	<5	<1	28.0	9.04	<0.2	6.9	55.1	0.025	173	2.93	
E5563678 (9445304)	<20	1540	<2	<0.1	<5	<1	30.0	7.74	<0.2	7.4	57.6	0.024	154	3.18	

Certified By:



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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018	DATE RECEIVED: Aug 01, 2018						DATE REPORTED: Aug 27, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563679 (9445305)	<20	1490	3	<0.1	<5	<1	37.6	9.13	<0.2	7.4	53.6	0.024	133	2.73	
E5563680 (9445306)	<20	1460	3	<0.1	<5	<1	33.3	9.07	<0.2	16.1	57.6	0.025	158	3.23	
E5563681 (9445307)	<20	1560	3	<0.1	<5	<1	29.2	9.40	<0.2	6.8	55.0	0.025	258	2.84	
E5563682 (9445308)	21	1720	2	0.3	<5	<1	69.1	8.87	<0.2	8.8	54.5	0.025	134	2.79	
E5563683 (9445309)	<20	368	3	1.8	<5	2	4.9	0.53	<0.2	1.1	1.3	<0.005	<5	0.18	
E5563684 (9445310)	<20	645	4	1.5	<5	4	7.0	0.37	<0.2	0.9	0.9	<0.005	<5	0.08	
E5563685 (9445311)	<20	845	6	1.2	<5	4	18.6	0.32	<0.2	1.7	2.5	0.006	<5	0.32	
E5563686 (9445312)	57	777	4	1.3	<5	1	385	0.21	<0.2	0.5	3.0	<0.005	<5	0.08	
E5563687 (9445313)	<20	479	6	1.1	6	<1	18.4	0.12	<0.2	0.5	0.9	<0.005	<5	0.05	
E5563688 (9445314)	<20	656	6	89.4	<5	<1	40.7	0.16	<0.2	0.3	<0.5	<0.005	<5	<0.05	
E5563689 (9445315)	<20	28	<2	0.9	<5	<1	3.1	<0.05	<0.2	2.1	0.5	<0.005	<5	0.19	
E5563690 (9445316)	<20	577	6	23.3	<5	<1	68.2	0.09	<0.2	0.4	0.7	<0.005	<5	<0.05	
E5563691 (9445317)	<20	753	6	47.2	<5	1	177	0.11	<0.2	0.6	0.5	<0.005	<5	<0.05	
E5563692 (9445318)	<20	531	5	37.6	<5	2	82.9	0.18	<0.2	0.4	<0.5	<0.005	<5	<0.05	
E5563693 (9445319)	<20	467	5	42.7	<5	2	8.1	0.10	<0.2	0.2	<0.5	<0.005	<5	<0.05	
E5563694 (9445320)	<20	1260	7	59.8	<5	1	6.7	0.34	0.4	1.0	0.7	0.006	<5	0.09	
E5563695 (9445321)	<20	977	8	9.5	<5	1	12.7	0.13	<0.2	0.2	1.2	0.008	<5	<0.05	
E5563696 (9445322)	<20	1270	7	14.6	<5	2	4.5	0.34	1.6	1.3	1.5	0.008	<5	0.17	
E5563697 (9445323)	<20	1390	7	1.3	<5	2	38.0	0.25	<0.2	0.9	1.8	0.007	<5	0.10	
E5563698 (9445324)	31	448	10	46.7	131	2	2620	1.01	2.0	445	7.5	0.009	320	4.33	
E5563699 (9445325)	<20	1150	10	0.7	<5	4	10.5	0.19	<0.2	0.9	2.5	0.008	<5	0.06	
E5563700 (9445326)	<20	409	5	2.1	<5	2	1.1	0.18	<0.2	0.4	<0.5	<0.005	<5	<0.05	
E5563701 (9445327)	<20	654	6	6.4	<5	2	2.5	0.15	<0.2	0.3	0.5	<0.005	<5	<0.05	
E5563702 (9445328)	<20	608	3	3.0	<5	2	3.5	0.17	<0.2	0.3	<0.5	<0.005	<5	<0.05	
E5563703 (9445329)	<20	1280	4	2.3	<5	3	3.0	0.22	<0.2	0.1	0.7	<0.005	<5	<0.05	
E5563704 (9445330)	<20	539	6	2.2	<5	1	5.8	0.32	<0.2	0.2	0.6	<0.005	<5	<0.05	
E5563705 (9445331)	<20	607	4	65.1	<5	4	1.1	0.26	<0.2	0.4	<0.5	<0.005	<5	<0.05	
E5563706 (9445332)	<20	771	4	9.6	<5	3	1.7	0.29	<0.2	0.3	0.8	<0.005	<5	<0.05	
E5563707 (9445333)	<20	736	4	3.7	<5	3	2.6	0.30	<0.2	0.3	<0.5	<0.005	<5	<0.05	
E5563708 (9445334)	<20	1620	6	1.9	<5	5	3.1	0.19	<0.2	0.1	0.6	<0.005	<5	<0.05	
E5563709 (9445335)	<20	902	6	2.7	<5	3	9.1	0.17	<0.2	0.1	0.6	<0.005	<5	<0.05	
E5563710 (9445336)	<20	452	8	4.7	<5	2	15.8	0.59	<0.2	1.3	2.1	<0.005	<5	0.09	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	B ppm 20	Mn ppm 10	Mo ppm 2	Bi ppm 0.1	As ppm 5	Ag ppm 1	Ba ppm 0.5	Ca % 0.05	Cd ppm 0.2	Ce ppm 0.1	Co ppm 0.5	Cr % 0.005	Cu ppm 5	Dy ppm 0.05
E5563711 (9445337)		<20	31	<2	<0.1	<5	<1	3.5	<0.05	<0.2	2.3	0.5	<0.005	<5	0.17
E5563712 (9445338)		<20	1870	4	0.3	<5	<1	45.6	10.1	<0.2	7.5	53.6	0.032	155	3.00
E5563713 (9445339)		<20	1780	3	0.1	<5	<1	37.1	9.69	<0.2	6.9	51.2	0.032	70	2.88
E5563714 (9445340)		<20	2460	3	0.2	<5	<1	195	7.89	<0.2	7.6	54.0	0.033	193	3.37
E5563715 (9445341)		25	395	8	12.2	31	2	1830	1.12	<0.2	1140	6.9	0.007	292	8.49
E5563716 (9445342)		<20	2390	4	0.3	<5	<1	166	7.61	<0.2	8.1	54.9	0.031	189	3.47
E5563717 (9445343)		<20	1820	3	0.1	<5	<1	57.2	7.55	<0.2	7.1	52.1	0.032	181	3.09
E5563718 (9445344)		<20	1900	3	0.2	<5	<1	55.4	7.32	<0.2	7.6	59.1	0.032	194	3.60
E5563719 (9445345)		<20	1620	3	<0.1	<5	<1	43.0	9.24	<0.2	7.5	54.6	0.031	105	3.20
E5563720 (9445346)		20	1800	<2	0.1	<5	<1	57.2	9.42	<0.2	7.6	54.7	0.031	180	3.22

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563647 (9445273)	1.90	0.65	17.5	2.41	1	1	0.65	<0.2	2.7	0.30	5.3	144	<5	1.04
E5563648 (9445274)	1.82	0.62	19.2	2.44	2	1	0.60	<0.2	2.7	0.29	5.4	138	<5	1.04
E5563649 (9445275)	0.20	<0.05	0.27	0.18	<1	<1	<0.05	<0.2	1.0	0.13	0.8	6	<5	0.23
E5563650 (9445276)	0.10	0.08	63.6	0.27	6	4	<0.05	<0.2	0.5	<0.05	1.1	8	<5	0.21
E5563651 (9445277)	1.96	0.75	18.6	2.70	2	1	0.70	<0.2	2.8	0.33	5.5	136	<5	1.09
E5563652 (9445278)	1.87	0.70	18.0	2.55	2	1	0.62	<0.2	2.8	0.32	5.2	144	<5	1.09
E5563653 (9445279)	1.18	0.56	22.7	1.77	3	2	0.40	<0.2	3.5	0.20	4.5	100	<5	0.95
E5563654 (9445280)	0.12	0.07	37.5	0.27	6	2	<0.05	<0.2	0.7	<0.05	0.8	7	<5	0.15
E5563655 (9445281)	0.11	<0.05	34.9	0.21	5	1	<0.05	<0.2	0.2	<0.05	0.4	<5	<5	0.08
E5563656 (9445282)	0.08	<0.05	40.6	0.20	6	1	<0.05	<0.2	0.2	<0.05	0.5	<5	<5	0.09
E5563657 (9445283)	1.61	3.92	44.7	11.1	6	5	0.68	7.1	240	0.20	132	32	34	43.9
E5563658 (9445284)	0.08	0.05	41.7	0.25	5	1	<0.05	<0.2	0.5	<0.05	0.7	<5	<5	0.15
E5563659 (9445285)	0.12	<0.05	40.7	0.22	6	1	<0.05	<0.2	0.3	<0.05	0.5	5	<5	0.11
E5563660 (9445286)	0.10	<0.05	42.0	0.26	6	2	<0.05	<0.2	0.2	<0.05	0.5	<5	<5	0.08
E5563661 (9445287)	0.09	<0.05	45.4	0.19	6	1	<0.05	<0.2	0.3	<0.05	0.5	5	<5	0.09
E5563662 (9445288)	0.06	<0.05	49.4	0.21	6	3	<0.05	<0.2	0.4	<0.05	0.8	8	<5	0.16
E5563663 (9445289)	1.88	0.68	24.2	2.49	2	2	0.62	<0.2	2.8	0.30	5.6	144	<5	1.09
E5563664 (9445290)	0.54	0.22	45.2	0.82	6	5	0.19	<0.2	1.2	0.10	2.0	50	6	0.40
E5563665 (9445291)	1.84	0.66	18.0	2.47	2	1	0.62	<0.2	2.6	0.32	5.1	133	<5	1.02
E5563666 (9445292)	0.08	0.08	42.2	0.24	5	1	<0.05	<0.2	0.3	<0.05	0.8	8	<5	0.15
E5563667 (9445293)	2.03	0.70	17.3	2.56	2	1	0.70	<0.2	2.7	0.35	5.4	139	<5	1.07
E5563668 (9445294)	0.10	<0.05	0.43	0.16	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	<5	<5	0.24
E5563669 (9445295)	2.04	0.70	17.2	2.73	1	1	0.67	<0.2	2.7	0.35	5.4	134	<5	1.08
E5563670 (9445296)	2.10	0.76	17.9	2.81	1	2	0.72	<0.2	2.9	0.34	5.7	139	<5	1.20
E5563671 (9445297)	2.15	0.67	16.4	2.68	1	1	0.75	<0.2	2.7	0.39	5.3	122	<5	1.08
E5563672 (9445298)	2.07	0.70	17.5	2.42	1	1	0.68	<0.2	2.9	0.35	5.4	130	<5	1.10
E5563673 (9445299)	2.43	9.48	22.8	27.6	3	5	1.12	1.6	653	0.24	345	21	26	114
E5563674 (9445300)	1.95	0.73	18.7	2.71	1	2	0.68	<0.2	3.6	0.33	6.1	149	<5	1.26
E5563675 (9445301)	1.97	0.63	16.2	2.58	2	1	0.65	<0.2	2.5	0.33	5.3	134	<5	1.04
E5563676 (9445302)	1.88	0.68	15.3	2.30	2	1	0.65	<0.2	2.5	0.31	5.2	128	<5	1.07
E5563677 (9445303)	1.91	0.69	15.5	2.39	2	1	0.61	<0.2	2.6	0.33	5.2	125	<5	1.00
E5563678 (9445304)	1.87	0.62	17.0	2.59	2	1	0.65	<0.2	2.8	0.33	5.7	126	<5	1.11

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018	DATE RECEIVED: Aug 01, 2018					DATE REPORTED: Aug 27, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5563679 (9445305)	1.81	0.64	15.4	2.34	2	1	0.63	<0.2	2.9	0.31	5.5	112	<5	1.06	
E5563680 (9445306)	1.99	0.89	16.9	3.23	2	1	0.72	<0.2	6.4	0.35	9.7	120	<5	2.20	
E5563681 (9445307)	1.79	0.67	15.4	2.36	2	1	0.64	<0.2	2.5	0.31	5.2	129	<5	1.01	
E5563682 (9445308)	1.73	0.67	16.1	2.49	2	1	0.61	<0.2	3.6	0.32	5.9	123	<5	1.24	
E5563683 (9445309)	0.10	<0.05	48.0	0.21	5	2	<0.05	<0.2	0.5	<0.05	0.7	5	<5	0.15	
E5563684 (9445310)	<0.05	<0.05	41.0	0.16	6	2	<0.05	<0.2	0.4	<0.05	0.6	11	<5	0.12	
E5563685 (9445311)	0.14	0.08	67.9	0.34	5	1	0.05	<0.2	0.8	<0.05	0.8	8	<5	0.20	
E5563686 (9445312)	0.05	0.09	75.5	0.09	4	<1	<0.05	<0.2	0.3	<0.05	0.3	5	<5	0.07	
E5563687 (9445313)	<0.05	<0.05	49.1	0.05	7	<1	<0.05	<0.2	0.3	<0.05	0.2	<5	7	0.09	
E5563688 (9445314)	<0.05	<0.05	52.7	<0.05	8	<1	<0.05	<0.2	0.2	<0.05	0.1	<5	<5	<0.05	
E5563689 (9445315)	0.15	<0.05	0.34	0.18	<1	<1	<0.05	<0.2	1.0	<0.05	0.8	7	<5	0.24	
E5563690 (9445316)	<0.05	<0.05	38.9	0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.3	<5	<5	0.05	
E5563691 (9445317)	<0.05	<0.05	58.2	<0.05	8	<1	<0.05	<0.2	0.3	<0.05	0.3	<5	<5	0.08	
E5563692 (9445318)	<0.05	<0.05	37.7	<0.05	7	<1	<0.05	<0.2	0.2	<0.05	<0.1	7	7	<0.05	
E5563693 (9445319)	<0.05	<0.05	31.9	<0.05	7	<1	<0.05	<0.2	0.1	<0.05	<0.1	9	8	<0.05	
E5563694 (9445320)	<0.05	<0.05	65.7	0.08	8	<1	<0.05	<0.2	0.6	<0.05	0.2	6	<5	0.09	
E5563695 (9445321)	<0.05	<0.05	63.8	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	0.1	8	<5	<0.05	
E5563696 (9445322)	0.08	<0.05	75.9	0.19	7	<1	<0.05	5.0	0.7	<0.05	0.5	13	8	0.16	
E5563697 (9445323)	0.06	<0.05	80.0	0.11	6	1	<0.05	<0.2	0.5	<0.05	0.3	13	<5	0.10	
E5563698 (9445324)	1.58	4.34	45.3	12.2	6	5	0.71	7.4	259	0.20	141	29	37	48.2	
E5563699 (9445325)	<0.05	<0.05	64.5	0.08	4	1	<0.05	<0.2	0.5	<0.05	0.3	13	<5	0.10	
E5563700 (9445326)	<0.05	<0.05	39.8	<0.05	6	2	<0.05	<0.2	0.2	<0.05	0.1	8	<5	<0.05	
E5563701 (9445327)	<0.05	<0.05	43.8	<0.05	6	1	<0.05	<0.2	0.1	<0.05	<0.1	5	<5	<0.05	
E5563702 (9445328)	<0.05	<0.05	38.5	<0.05	7	2	<0.05	<0.2	0.2	<0.05	0.1	8	<5	<0.05	
E5563703 (9445329)	<0.05	<0.05	40.9	<0.05	6	2	<0.05	<0.2	0.1	<0.05	<0.1	24	<5	<0.05	
E5563704 (9445330)	<0.05	<0.05	46.0	<0.05	6	2	<0.05	<0.2	0.2	<0.05	<0.1	31	<5	<0.05	
E5563705 (9445331)	<0.05	<0.05	40.0	<0.05	6	3	<0.05	<0.2	0.2	<0.05	0.2	22	<5	0.05	
E5563706 (9445332)	<0.05	<0.05	41.2	<0.05	6	2	<0.05	<0.2	0.3	<0.05	<0.1	23	<5	<0.05	
E5563707 (9445333)	<0.05	<0.05	41.6	<0.05	6	2	<0.05	<0.2	0.2	<0.05	<0.1	111	<5	<0.05	
E5563708 (9445334)	<0.05	<0.05	45.2	<0.05	6	8	<0.05	<0.2	<0.1	<0.05	<0.1	30	<5	<0.05	
E5563709 (9445335)	<0.05	<0.05	44.6	<0.05	5	4	<0.05	<0.2	0.1	<0.05	<0.1	29	<5	<0.05	
E5563710 (9445336)	0.07	<0.05	45.9	0.09	6	2	<0.05	<0.2	0.7	<0.05	0.6	45	<5	0.16	

Certified By:



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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
Sample ID (AGAT ID)														
E5563711 (9445337)	0.11	<0.05	0.30	0.21	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	10	<5	0.26
E5563712 (9445338)	1.97	0.70	17.5	2.64	3	1	0.68	<0.2	2.9	0.32	5.7	140	<5	1.16
E5563713 (9445339)	1.79	0.64	14.6	2.49	2	1	0.63	<0.2	2.6	0.33	5.3	134	<5	1.05
E5563714 (9445340)	2.09	0.66	16.5	2.82	1	1	0.70	<0.2	2.9	0.34	5.7	142	<5	1.17
E5563715 (9445341)	2.53	10.1	22.9	29.5	3	6	1.27	1.5	704	0.27	374	22	28	122
E5563716 (9445342)	2.23	0.72	17.1	2.75	1	1	0.78	<0.2	3.0	0.40	5.7	148	<5	1.19
E5563717 (9445343)	1.97	0.67	15.3	2.56	1	1	0.67	<0.2	2.7	0.33	5.5	143	<5	1.12
E5563718 (9445344)	2.34	0.76	17.3	2.81	2	2	0.78	<0.2	2.8	0.39	5.8	143	<5	1.16
E5563719 (9445345)	2.04	0.67	16.6	2.56	2	1	0.72	<0.2	2.8	0.38	5.8	132	<5	1.14
E5563720 (9445346)	2.08	0.72	16.1	2.53	2	1	0.68	<0.2	3.0	0.34	5.7	131	<5	1.12

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018	DATE RECEIVED: Aug 01, 2018					DATE REPORTED: Aug 27, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563647 (9445273)	0.15	0.4	44	1.8	104	0.44	0.9	0.53	0.6	0.29	0.14	277	1	18.2	
E5563648 (9445274)	0.09	0.4	45	1.9	114	0.43	0.6	0.53	7.5	0.29	1.05	284	1	17.7	
E5563649 (9445275)	<0.01	0.3	<5	0.2	2.4	<0.05	0.5	0.03	<0.5	0.10	0.22	<5	<1	1.0	
E5563650 (9445276)	<0.01	0.3	<5	0.2	37.8	<0.05	5.5	0.02	14.1	<0.05	3.84	7	3	1.3	
E5563651 (9445277)	0.20	0.8	45	1.8	100	0.48	1.2	0.50	5.1	0.31	0.15	274	26	19.1	
E5563652 (9445278)	0.09	0.7	43	1.8	104	0.44	0.6	0.52	6.7	0.28	0.10	272	<1	17.7	
E5563653 (9445279)	0.04	0.6	29	1.4	48.9	0.29	1.5	0.35	11.4	0.17	2.14	186	2	11.3	
E5563654 (9445280)	<0.01	0.3	<5	0.2	16.6	<0.05	2.9	<0.01	2.5	<0.05	1.64	<5	<1	1.3	
E5563655 (9445281)	<0.01	0.3	<5	0.2	12.4	<0.05	3.1	<0.01	2.1	<0.05	0.85	<5	<1	0.9	
E5563656 (9445282)	<0.01	0.3	<5	0.2	14.4	<0.05	2.9	<0.01	2.4	<0.05	1.40	<5	1	0.9	
E5563657 (9445283)	0.03	23.7	7	16.9	217	1.32	105	0.36	6.9	0.22	22.8	70	13	16.7	
E5563658 (9445284)	<0.01	0.3	<5	0.2	17.7	<0.05	3.2	<0.01	4.0	<0.05	1.34	<5	<1	0.8	
E5563659 (9445285)	<0.01	0.3	<5	0.2	14.8	<0.05	4.0	<0.01	4.4	<0.05	1.50	<5	1	1.2	
E5563660 (9445286)	<0.01	0.3	<5	0.2	18.3	<0.05	4.0	<0.01	6.4	<0.05	1.37	<5	<1	1.2	
E5563661 (9445287)	<0.01	0.3	<5	0.2	17.8	<0.05	3.4	<0.01	5.7	<0.05	0.97	<5	1	1.1	
E5563662 (9445288)	<0.01	0.3	<5	0.2	18.0	<0.05	7.0	<0.01	6.2	<0.05	4.07	<5	2	0.8	
E5563663 (9445289)	0.08	0.8	42	2.0	94.7	0.51	1.3	0.51	5.6	0.27	0.99	264	1	16.8	
E5563664 (9445290)	0.04	0.4	12	0.6	48.8	0.14	3.9	0.15	10.3	0.08	9.23	77	2	5.5	
E5563665 (9445291)	0.20	0.4	41	1.7	94.1	0.46	0.8	0.49	1.5	0.32	0.44	259	<1	18.1	
E5563666 (9445292)	<0.01	0.4	<5	0.3	22.4	<0.05	2.7	<0.01	4.3	<0.05	5.09	<5	1	1.2	
E5563667 (9445293)	0.24	0.3	45	1.8	91.6	0.46	1.0	0.48	0.8	0.33	0.15	272	<1	19.5	
E5563668 (9445294)	<0.01	0.3	<5	0.2	1.4	<0.05	0.6	0.03	<0.5	<0.05	0.22	<5	<1	1.0	
E5563669 (9445295)	0.17	0.3	41	1.9	95.1	0.45	0.7	0.48	<0.5	0.32	0.08	259	<1	18.5	
E5563670 (9445296)	0.12	0.3	46	1.9	92.3	0.50	0.5	0.50	<0.5	0.33	0.13	270	1	19.5	
E5563671 (9445297)	0.30	0.2	46	1.9	75.5	0.53	0.4	0.46	<0.5	0.34	0.08	263	<1	19.7	
E5563672 (9445298)	0.31	0.2	46	1.9	91.8	0.49	0.3	0.48	<0.5	0.31	0.06	274	<1	20.0	
E5563673 (9445299)	0.02	8.6	9	43.8	281	3.11	84.8	0.46	10.9	0.27	15.0	58	5	25.5	
E5563674 (9445300)	0.14	0.3	42	2.1	93.1	0.48	2.2	0.52	<0.5	0.30	0.16	279	<1	17.6	
E5563675 (9445301)	0.15	0.2	40	1.7	101	0.48	0.8	0.47	<0.5	0.30	0.20	252	<1	17.5	
E5563676 (9445302)	0.15	0.3	40	1.8	101	0.45	0.5	0.47	<0.5	0.28	0.09	252	<1	17.0	
E5563677 (9445303)	0.17	0.3	40	1.8	107	0.42	0.5	0.47	<0.5	0.29	0.07	249	<1	17.2	
E5563678 (9445304)	0.16	0.3	40	1.9	100	0.48	0.5	0.45	<0.5	0.31	0.24	245	<1	18.0	

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PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018	DATE RECEIVED: Aug 01, 2018					DATE REPORTED: Aug 27, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563679 (9445305)	0.11	0.3	39	1.8	96.5	0.41	0.5	0.45	<0.5	0.28	0.10	236	<1	17.2	
E5563680 (9445306)	0.14	0.4	40	2.8	134	0.53	0.5	0.46	<0.5	0.31	0.11	251	2	19.0	
E5563681 (9445307)	0.20	0.5	40	1.7	118	0.45	0.3	0.46	<0.5	0.29	0.08	252	<1	17.2	
E5563682 (9445308)	0.14	0.7	39	1.8	102	0.41	0.4	0.46	0.8	0.27	0.28	245	<1	17.0	
E5563683 (9445309)	<0.01	0.3	<5	0.3	26.8	<0.05	3.3	<0.01	6.9	<0.05	1.42	<5	2	1.0	
E5563684 (9445310)	<0.01	0.5	<5	0.2	32.7	<0.05	2.1	<0.01	16.5	<0.05	2.06	<5	3	0.5	
E5563685 (9445311)	<0.01	0.4	<5	0.3	51.4	0.06	5.8	0.02	28.4	<0.05	1.38	6	6	1.9	
E5563686 (9445312)	<0.01	0.5	<5	0.1	57.3	<0.05	1.7	0.02	18.8	<0.05	0.69	<5	4	0.6	
E5563687 (9445313)	<0.01	0.6	<5	<0.1	80.8	<0.05	0.3	0.01	69.5	<0.05	0.48	<5	2	<0.5	
E5563688 (9445314)	<0.01	0.6	<5	<0.1	36.2	<0.05	1.3	<0.01	27.9	<0.05	1.21	<5	1	<0.5	
E5563689 (9445315)	<0.01	0.4	<5	0.2	2.0	<0.05	0.7	0.03	<0.5	<0.05	0.20	<5	<1	1.1	
E5563690 (9445316)	<0.01	0.4	<5	<0.1	24.1	<0.05	1.2	<0.01	13.3	<0.05	1.20	<5	2	<0.5	
E5563691 (9445317)	<0.01	0.9	<5	<0.1	39.1	<0.05	2.5	<0.01	23.9	<0.05	2.53	<5	2	<0.5	
E5563692 (9445318)	<0.01	1.1	<5	<0.1	71.3	<0.05	1.2	<0.01	60.8	<0.05	2.74	<5	2	<0.5	
E5563693 (9445319)	<0.01	0.8	<5	<0.1	67.8	<0.05	0.6	<0.01	61.0	<0.05	6.46	<5	2	<0.5	
E5563694 (9445320)	<0.01	1.2	<5	<0.1	37.4	<0.05	1.4	0.01	27.2	<0.05	1.61	<5	3	0.6	
E5563695 (9445321)	<0.01	0.7	<5	<0.1	26.2	<0.05	1.6	0.01	15.9	<0.05	1.99	<5	3	<0.5	
E5563696 (9445322)	<0.01	0.4	<5	0.1	27.4	<0.05	2.8	0.01	17.3	<0.05	5.47	6	3	0.9	
E5563697 (9445323)	<0.01	0.4	<5	0.1	34.2	<0.05	1.7	0.02	19.9	<0.05	2.62	8	4	0.6	
E5563698 (9445324)	0.03	25.8	7	18.0	205	1.43	112	0.36	7.6	0.21	24.4	71	14	17.1	
E5563699 (9445325)	<0.01	0.3	<5	<0.1	44.2	<0.05	2.7	0.03	26.7	<0.05	3.42	6	7	0.5	
E5563700 (9445326)	<0.01	0.4	<5	<0.1	16.2	<0.05	2.1	<0.01	4.3	<0.05	6.60	<5	2	<0.5	
E5563701 (9445327)	<0.01	0.6	<5	<0.1	31.0	<0.05	2.6	<0.01	23.9	<0.05	4.48	<5	2	<0.5	
E5563702 (9445328)	<0.01	0.7	<5	<0.1	24.2	<0.05	5.1	<0.01	12.7	<0.05	10.1	<5	2	<0.5	
E5563703 (9445329)	<0.01	0.4	<5	<0.1	17.4	<0.05	4.6	<0.01	4.9	<0.05	10.3	<5	2	<0.5	
E5563704 (9445330)	<0.01	0.5	<5	<0.1	19.4	<0.05	4.3	<0.01	6.2	<0.05	6.18	<5	2	<0.5	
E5563705 (9445331)	<0.01	1.5	<5	<0.1	13.6	<0.05	4.5	<0.01	2.2	<0.05	7.53	<5	1	<0.5	
E5563706 (9445332)	<0.01	0.7	<5	<0.1	18.1	<0.05	3.6	<0.01	4.9	<0.05	9.01	<5	12	<0.5	
E5563707 (9445333)	<0.01	0.6	<5	<0.1	18.7	<0.05	5.1	<0.01	5.7	<0.05	10.2	<5	2	<0.5	
E5563708 (9445334)	<0.01	0.6	<5	<0.1	19.3	<0.05	18.4	<0.01	6.6	<0.05	26.7	<5	3	<0.5	
E5563709 (9445335)	<0.01	0.4	<5	<0.1	21.1	<0.05	7.2	<0.01	7.8	<0.05	21.4	<5	2	<0.5	
E5563710 (9445336)	0.02	0.3	<5	0.1	36.6	<0.05	3.3	0.02	9.0	<0.05	7.62	9	1	0.6	

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AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y
	Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5
E5563711 (9445337)		<0.01	0.2	<5	0.2	2.0	<0.05	0.9	0.03	<0.5	<0.05	0.17	<5	<1	1.0
E5563712 (9445338)		0.22	0.4	42	1.9	156	0.49	1.5	0.49	1.2	0.28	0.23	267	<1	18.0
E5563713 (9445339)		0.11	0.1	44	1.8	102	0.46	0.7	0.49	0.6	0.28	0.08	265	<1	17.0
E5563714 (9445340)		0.29	0.2	44	2.1	52.1	0.50	0.5	0.51	<0.5	0.32	0.07	280	<1	19.9
E5563715 (9445341)		0.03	9.9	10	48.5	288	3.31	84.8	0.48	12.0	0.31	15.1	62	5	27.1
E5563716 (9445342)		0.32	0.1	44	2.0	36.7	0.51	1.8	0.49	<0.5	0.33	0.08	279	<1	20.9
E5563717 (9445343)		0.22	0.1	45	1.8	68.9	0.45	0.8	0.52	0.6	0.29	0.08	276	<1	17.8
E5563718 (9445344)		0.26	0.1	44	2.2	63.6	0.53	0.6	0.51	0.8	0.33	0.07	274	<1	19.9
E5563719 (9445345)		0.08	0.1	42	1.9	98.3	0.50	0.5	0.49	<0.5	0.31	0.08	263	2	19.4
E5563720 (9445346)		0.22	0.1	42	2.0	109	0.49	0.4	0.50	<0.5	0.31	0.09	268	<1	18.9

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Analyte:	Yb	Zn	Zr
Unit:	ppm	ppm	ppm
RDL:	0.1	5	0.5
Sample ID (AGAT ID)			
E5563647 (9445273)	1.8	80	48.1
E5563648 (9445274)	1.8	95	46.6
E5563649 (9445275)	0.2	7	20.3
E5563650 (9445276)	0.1	69	30.3
E5563651 (9445277)	2.1	79	45.5
E5563652 (9445278)	1.7	76	46.3
E5563653 (9445279)	1.2	59	34.3
E5563654 (9445280)	<0.1	8	12.5
E5563655 (9445281)	<0.1	8	7.7
E5563656 (9445282)	<0.1	11	7.9
E5563657 (9445283)	1.4	326	155
E5563658 (9445284)	<0.1	13	5.9
E5563659 (9445285)	<0.1	16	9.5
E5563660 (9445286)	<0.1	19	10.7
E5563661 (9445287)	<0.1	17	8.1
E5563662 (9445288)	<0.1	21	15.6
E5563663 (9445289)	1.8	99	46.7
E5563664 (9445290)	0.6	70	31.7
E5563665 (9445291)	1.9	99	44.9
E5563666 (9445292)	<0.1	26	7.7
E5563667 (9445293)	2.2	102	44.0
E5563668 (9445294)	0.1	<5	21.3
E5563669 (9445295)	2.0	117	45.8
E5563670 (9445296)	2.2	115	48.8
E5563671 (9445297)	2.1	96	44.2
E5563672 (9445298)	2.1	98	46.0
E5563673 (9445299)	1.7	136	201
E5563674 (9445300)	2.0	87	51.4
E5563675 (9445301)	2.0	81	43.1
E5563676 (9445302)	1.9	81	42.7
E5563677 (9445303)	1.9	79	41.7
E5563678 (9445304)	1.9	79	45.3

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563679 (9445305)		1.8	82	42.5
E5563680 (9445306)		2.0	83	46.1
E5563681 (9445307)		1.9	87	42.6
E5563682 (9445308)		1.9	83	43.8
E5563683 (9445309)		<0.1	47	11.2
E5563684 (9445310)		<0.1	57	10.9
E5563685 (9445311)		0.1	186	9.4
E5563686 (9445312)		<0.1	132	1.8
E5563687 (9445313)		<0.1	93	1.5
E5563688 (9445314)		<0.1	29	1.5
E5563689 (9445315)		0.2	<5	24.8
E5563690 (9445316)		<0.1	67	3.1
E5563691 (9445317)		<0.1	54	2.8
E5563692 (9445318)		<0.1	57	3.0
E5563693 (9445319)		<0.1	56	2.4
E5563694 (9445320)		<0.1	103	2.3
E5563695 (9445321)		<0.1	124	2.7
E5563696 (9445322)		<0.1	120	4.1
E5563697 (9445323)		<0.1	167	6.9
E5563698 (9445324)		1.4	340	161
E5563699 (9445325)		<0.1	238	10.1
E5563700 (9445326)		<0.1	34	12.0
E5563701 (9445327)		<0.1	59	8.1
E5563702 (9445328)		<0.1	37	9.3
E5563703 (9445329)		<0.1	44	14.0
E5563704 (9445330)		<0.1	50	12.1
E5563705 (9445331)		<0.1	21	19.3
E5563706 (9445332)		<0.1	40	13.2
E5563707 (9445333)		<0.1	43	10.5
E5563708 (9445334)		<0.1	60	56.2
E5563709 (9445335)		<0.1	60	29.0
E5563710 (9445336)		<0.1	52	13.1

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563711 (9445337)		0.1	6	23.0
E5563712 (9445338)		2.0	86	43.3
E5563713 (9445339)		1.8	86	41.4
E5563714 (9445340)		2.0	95	44.7
E5563715 (9445341)		1.8	139	212
E5563716 (9445342)		2.1	88	45.9
E5563717 (9445343)		2.1	93	43.3
E5563718 (9445344)		2.2	93	49.3
E5563719 (9445345)		2.0	88	45.1
E5563720 (9445346)		2.0	102	44.3

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Sieving - % Passing (Crushing)

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563650 (9445276)		86
E5563659 (9445285)		90
E5563669 (9445295)		84
E5563678 (9445304)		83

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Aug 02, 2018

DATE RECEIVED: Aug 01, 2018

DATE REPORTED: Aug 27, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563647 (9445273)		89.7
E5563679 (9445305)		90.7
E5563711 (9445337)		92.9

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

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(201-049) Specific Gravity by Pycnometer

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9445273	3.10	3.10	0.0%	9445284	2.70	2.70	0.0%	9445297	3.20	3.20	0.0%	9445308	3.00	3.00	0.0%
Parameter	REPLICATE #5				REPLICATE #6				REPLICATE #7							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Specific Gravity	9445325	2.70	2.70	0.0%	9445338	3.20	3.15	1.6%	9445345	3.00	3.00	0.0%				

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9445273	295	280	5.2%	9445284	57	41		9445297	287	286	0.3%	9445308	460	446	3.1%
Ta	9445273	< 0.5	< 0.5	0.0%	9445284	75.9	66.2	13.7%	9445297	< 0.5	< 0.5	0.0%	9445308	< 0.5	< 0.5	0.0%
Nb	9445273	2	1		9445284	53	43	20.8%	9445297	1	1	0.0%	9445308	2	1	
Sn	9445273	1	1	0.0%	9445284	14	13	7.4%	9445297	1	1	0.0%	9445308	2	1	
Cs	9445273	21.6	20.1	7.2%	9445284	47.9	47.9	0.0%	9445297	8.6	8.9	3.4%	9445308	31.0	30.0	3.3%
Rb	9445273	98.6	100	1.4%	9445284	754	727	3.6%	9445297	18.9	18.1	4.3%	9445308	77.7	74.0	4.9%
K	9445273	0.56	0.59	5.2%	9445284	0.833	0.887	6.3%	9445297	0.220	0.214	2.8%	9445308	0.338	0.320	5.5%
Mg	9445273	2.65	2.52	5.0%	9445284	0.02	0.02	0.0%	9445297	2.51	2.38	5.3%	9445308	3.69	3.74	1.3%
Fe	9445273	8.89	9.02	1.5%	9445284	0.26	0.26	0.0%	9445297	9.60	9.48	1.3%	9445308	7.84	7.72	1.5%
P	9445273	0.03	0.03	0.0%	9445284	0.05	0.05	0.0%	9445297	0.02	0.02	0.0%	9445308	0.04	0.04	0.0%
Al	9445273	9.03	8.82	2.4%	9445284	9.09	9.12	0.3%	9445297	7.76	7.84	1.0%	9445308	7.56	7.38	2.4%
Si	9445273	22.9	22.6	1.3%	9445284	35.4	36.3	2.5%	9445297	20.6	20.0	3.0%	9445308	22.2	22.0	0.9%
Be	9445273	< 5	< 5	0.0%	9445284	157	152	3.2%	9445297	< 5	< 5	0.0%	9445308	< 5	< 5	0.0%
B	9445273	24	27	11.8%	9445284	< 20	< 20	0.0%	9445297	< 20	< 20	0.0%	9445308	21	20	4.9%
Mn	9445273	2160	2110	2.3%	9445284	330	359	8.4%	9445297	2270	2280	0.4%	9445308	1720	1680	2.4%
Mo	9445273	3	3	0.0%	9445284	4	4	0.0%	9445297	2	3		9445308	2	2	0.0%
Bi	9445273	0.17	0.14	19.4%	9445284	1.6	1.2	28.6%	9445297	0.2	0.2	0.0%	9445308	0.3	0.3	0.0%
As	9445273	6	< 5		9445284	< 5	< 5	0.0%	9445297	< 5	< 5	0.0%	9445308	< 5	< 5	0.0%
Ag	9445273	< 1	< 1	0.0%	9445284	2	2	0.0%	9445297	< 1	< 1	0.0%	9445308	< 1	< 1	0.0%
Ba	9445273	81.7	88.4	7.9%	9445284	17.0	14.1		9445297	48.1	46.5	3.4%	9445308	69.1	67.2	2.8%
Ca	9445273	6.89	6.71	2.6%	9445284	0.294	0.310	5.3%	9445297	7.96	7.83	1.6%	9445308	8.87	8.75	1.4%
Cd	9445273	< 0.2	< 0.2	0.0%	9445284	< 0.2	< 0.2	0.0%	9445297	< 0.2	< 0.2	0.0%	9445308	< 0.2	< 0.2	0.0%
Ce	9445273	7.07	6.98	1.3%	9445284	1.1	0.9	20.0%	9445297	7.07	7.01	0.9%	9445308	8.76	8.59	2.0%
Co	9445273	59.3	58.3	1.7%	9445284	< 0.5	< 0.5	0.0%	9445297	56.9	56.4	0.9%	9445308	54.5	50.3	8.0%



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Cr	9445273	0.033	0.032	3.1%	9445284	< 0.005	< 0.005	0.0%	9445297	0.029	0.029	0.0%	9445308	0.025	0.025	0.0%
Cu	9445273	156	155	0.6%	9445284	< 5	< 5	0.0%	9445297	173	176	1.7%	9445308	134	128	4.6%
Dy	9445273	3.05	2.75	10.3%	9445284	0.16	0.16	0.0%	9445297	3.33	3.30	0.9%	9445308	2.79	2.58	7.8%
Er	9445273	1.90	1.80	5.4%	9445284	0.08	0.10	22.2%	9445297	2.15	2.28	5.9%	9445308	1.73	1.59	8.4%
Eu	9445273	0.65	0.64	1.6%	9445284	0.05	0.06	18.2%	9445297	0.67	0.67	0.0%	9445308	0.67	0.59	12.7%
Ga	9445273	17.5	17.3	1.1%	9445284	41.7	40.4	3.2%	9445297	16.4	16.3	0.6%	9445308	16.1	15.2	5.8%
Gd	9445273	2.41	2.37	1.7%	9445284	0.25	0.22	12.8%	9445297	2.68	2.76	2.9%	9445308	2.49	2.26	9.7%
Ge	9445273	1	2		9445284	5	5	0.0%	9445297	1	1	0.0%	9445308	2	2	0.0%
Hf	9445273	1	1	0.0%	9445284	1	1	0.0%	9445297	1	1	0.0%	9445308	1	1	0.0%
Ho	9445273	0.647	0.609	6.1%	9445284	< 0.05	< 0.05	0.0%	9445297	0.748	0.765	2.2%	9445308	0.61	0.56	8.5%
In	9445273	< 0.2	< 0.2	0.0%	9445284	< 0.2	< 0.2	0.0%	9445297	< 0.2	< 0.2	0.0%	9445308	< 0.2	< 0.2	0.0%
La	9445273	2.7	2.7	0.0%	9445284	0.5	0.3		9445297	2.66	2.61	1.9%	9445308	3.6	3.5	2.8%
Lu	9445273	0.305	0.319	4.5%	9445284	< 0.05	< 0.05	0.0%	9445297	0.39	0.39	0.0%	9445308	0.32	0.28	13.3%
Nd	9445273	5.27	5.04	4.5%	9445284	0.7	0.6	15.4%	9445297	5.3	5.3	0.0%	9445308	5.9	5.5	7.0%
Ni	9445273	144	137	5.0%	9445284	< 5	< 5	0.0%	9445297	122	121	0.8%	9445308	123	123	0.0%
Pb	9445273	< 5	< 5	0.0%	9445284	< 5	< 5	0.0%	9445297	< 5	< 5	0.0%	9445308	< 5	< 5	0.0%
Pr	9445273	1.04	1.03	1.0%	9445284	0.15	0.12	22.2%	9445297	1.08	1.07	0.9%	9445308	1.24	1.20	3.3%
S	9445273	0.15	0.15	0.0%	9445284	< 0.01	< 0.01	0.0%	9445297	0.298	0.274	8.4%	9445308	0.14	0.13	7.4%
Sb	9445273	0.4	0.5	22.2%	9445284	0.3	0.3	0.0%	9445297	0.2	0.2	0.0%	9445308	0.7	0.7	0.0%
Sc	9445273	44	45	2.2%	9445284	< 5	< 5	0.0%	9445297	46	46	0.0%	9445308	39	39	0.0%
Sm	9445273	1.8	1.8	0.0%	9445284	0.2	0.2	0.0%	9445297	1.9	1.9	0.0%	9445308	1.79	1.71	4.6%
Sr	9445273	104	103	1.0%	9445284	17.7	18.3	3.3%	9445297	75.5	75.8	0.4%	9445308	102	99.1	2.9%
Tb	9445273	0.440	0.449	2.0%	9445284	< 0.05	< 0.05	0.0%	9445297	0.526	0.495	6.1%	9445308	0.41	0.39	5.0%
Th	9445273	0.9	0.7	25.0%	9445284	3.2	2.8	13.3%	9445297	0.4	0.4	0.0%	9445308	0.4	0.4	0.0%
Ti	9445273	0.528	0.513	2.9%	9445284	< 0.01	< 0.01	0.0%	9445297	0.46	0.46	0.0%	9445308	0.464	0.454	2.2%
Tl	9445273	0.56	0.54	3.6%	9445284	3.99	4.06	1.7%	9445297	< 0.5	< 0.5	0.0%	9445308	0.8	0.8	0.0%
Tm	9445273	0.29	0.29	0.0%	9445284	< 0.05	< 0.05	0.0%	9445297	0.34	0.34	0.0%	9445308	0.267	0.243	9.4%
U	9445273	0.14	0.16	13.3%	9445284	1.34	1.28	4.6%	9445297	0.08	0.08	0.0%	9445308	0.28	0.28	0.0%
V	9445273	277	276	0.4%	9445284	< 5	< 5	0.0%	9445297	263	263	0.0%	9445308	245	244	0.4%
W	9445273	1	2		9445284	< 1	< 1	0.0%	9445297	< 1	< 1	0.0%	9445308	< 1	< 1	0.0%
Y	9445273	18.2	17.5	3.9%	9445284	0.85	0.88	3.5%	9445297	19.7	19.3	2.1%	9445308	17.0	16.0	6.1%
Yb	9445273	1.8	1.8	0.0%	9445284	< 0.1	< 0.1	0.0%	9445297	2.13	2.18	2.3%	9445308	1.9	1.7	11.1%
Zn	9445273	80	78	2.5%	9445284	13	11	16.7%	9445297	96	95	1.0%	9445308	83	79	4.9%
Zr	9445273	48.1	45.9	4.7%	9445284	5.9	6.2	5.0%	9445297	44.2	43.5	1.6%	9445308	43.8	40.8	7.1%



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Parameter	REPLICATE #5				REPLICATE #6				REPLICATE #7							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Li	9445325	2590	2590	0.0%	9445338	283	278	1.8%	9445345	163	168	3.0%				
Ta	9445325	81.3	87.3	7.1%	9445338	5.42	4.75	13.2%	9445345	< 0.5	< 0.5	0.0%				
Nb	9445325	118	114	3.4%	9445338	3	2		9445345	2	2	0.0%				
Sn	9445325	86	83	3.6%	9445338	8	8	0.0%	9445345	1	< 1					
Cs	9445325	586	557	5.1%	9445338	88.3	86.5	2.1%	9445345	7.35	7.08	3.7%				
Rb	9445325	3540	3460	2.3%	9445338	87.8	83.8	4.7%	9445345	17.4	16.6	4.7%				
K	9445325	2.56	2.58	0.8%	9445338	0.240	0.246	2.5%	9445345	0.17	0.17	0.0%				
Mg	9445325	0.19	0.19	0.0%	9445338	3.25	3.24	0.3%	9445345	3.86	3.86	0.0%				
Fe	9445325	1.05	1.04	1.0%	9445338	8.76	8.74	0.2%	9445345	8.18	8.30	1.5%				
P	9445325	0.07	0.07	0.0%	9445338	0.05	0.05	0.0%	9445345	0.03	0.03	0.0%				
Al	9445325	6.47	6.42	0.8%	9445338	8.09	8.04	0.6%	9445345	7.82	8.03	2.6%				
Si	9445325	36.0	36.6	1.7%	9445338	22.9	22.7	0.9%	9445345	22.9	23.3	1.7%				
Be	9445325	264	256	3.1%	9445338	5	5	0.0%	9445345	< 5	< 5	0.0%				
B	9445325	< 20	< 20	0.0%	9445338	< 20	< 20	0.0%	9445345	17	21	21.1%				
Mn	9445325	1150	1170	1.7%	9445338	1870	1860	0.5%	9445345	1620	1640	1.2%				
Mo	9445325	10	9	10.5%	9445338	4	4	0.0%	9445345	3	3	0.0%				
Bi	9445325	0.7	0.4		9445338	0.3	0.3	0.0%	9445345	< 0.1	< 0.1	0.0%				
As	9445325	< 5	< 5	0.0%	9445338	< 5	< 5	0.0%	9445345	< 5	< 5	0.0%				
Ag	9445325	4	4	0.0%	9445338	< 1	< 1	0.0%	9445345	< 1	< 1	0.0%				
Ba	9445325	10.5	10.9	3.7%	9445338	45.6	44.2	3.1%	9445345	43.0	40.6	5.7%				
Ca	9445325	0.188	0.182	3.2%	9445338	10.1	10.2	1.0%	9445345	9.24	9.43	2.0%				
Cd	9445325	< 0.2	< 0.2	0.0%	9445338	< 0.2	< 0.2	0.0%	9445345	< 0.2	< 0.2	0.0%				
Ce	9445325	0.9	0.9	0.0%	9445338	7.5	7.3	2.7%	9445345	7.5	7.6	1.3%				
Co	9445325	2.5	2.5	0.0%	9445338	53.6	54.5	1.7%	9445345	54.6	54.3	0.6%				
Cr	9445325	0.008	0.008	0.0%	9445338	0.0319	0.0310	2.9%	9445345	0.0306	0.0301	1.6%				
Cu	9445325	< 5	< 5	0.0%	9445338	155	158	1.9%	9445345	105	106	0.9%				
Dy	9445325	0.06	0.06	0.0%	9445338	3.00	2.98	0.7%	9445345	3.20	3.10	3.2%				
Er	9445325	< 0.05	0.05		9445338	1.97	1.92	2.6%	9445345	2.04	2.04	0.0%				
Eu	9445325	< 0.05	< 0.05	0.0%	9445338	0.70	0.67	4.4%	9445345	0.67	0.66	1.5%				
Ga	9445325	64.5	63.1	2.2%	9445338	17.5	18.1	3.4%	9445345	16.6	15.9	4.3%				
Gd	9445325	0.08	0.07	13.3%	9445338	2.64	2.63	0.4%	9445345	2.56	2.57	0.4%				
Ge	9445325	4	4	0.0%	9445338	3	3	0.0%	9445345	2	2	0.0%				



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Hf	9445325	1	1	0.0%	9445338	1	1	0.0%	9445345	1	1	0.0%				
Ho	9445325	< 0.05	< 0.05	0.0%	9445338	0.68	0.65	4.5%	9445345	0.72	0.72	0.0%				
In	9445325	< 0.2	< 0.2	0.0%	9445338	< 0.2	< 0.2	0.0%	9445345	< 0.2	< 0.2	0.0%				
La	9445325	0.5	0.5	0.0%	9445338	2.9	2.9	0.0%	9445345	2.8	2.9	3.5%				
Lu	9445325	< 0.05	< 0.05	0.0%	9445338	0.32	0.32	0.0%	9445345	0.38	0.33	14.1%				
Nd	9445325	0.3	0.3	0.0%	9445338	5.7	5.3	7.3%	9445345	5.76	5.41	6.3%				
Ni	9445325	13	12	8.0%	9445338	140	140	0.0%	9445345	132	129	2.3%				
Pb	9445325	< 5	< 5	0.0%	9445338	< 5	< 5	0.0%	9445345	< 5	< 5	0.0%				
Pr	9445325	0.102	0.094	8.2%	9445338	1.16	1.13	2.6%	9445345	1.14	1.15	0.9%				
S	9445325	< 0.01	< 0.01	0.0%	9445338	0.220	0.212	3.7%	9445345	0.083	0.073	12.8%				
Sb	9445325	0.3	0.3	0.0%	9445338	0.4	0.4	0.0%	9445345	0.1	0.1	0.0%				
Sc	9445325	< 5	< 5	0.0%	9445338	42	42	0.0%	9445345	42	42	0.0%				
Sm	9445325	< 0.1	< 0.1	0.0%	9445338	1.90	1.82	4.3%	9445345	1.88	1.81	3.8%				
Sr	9445325	44.2	44.7	1.1%	9445338	156	156	0.0%	9445345	98.3	100	1.7%				
Tb	9445325	< 0.05	< 0.05	0.0%	9445338	0.49	0.47	4.2%	9445345	0.50	0.50	0.0%				
Th	9445325	2.7	3.1	13.8%	9445338	1.5	0.9		9445345	0.50	0.42	17.4%				
Ti	9445325	0.03	0.03	0.0%	9445338	0.49	0.49	0.0%	9445345	0.49	0.50	2.0%				
Tl	9445325	26.7	26.4	1.1%	9445338	1.15	1.08	6.3%	9445345	< 0.5	< 0.5	0.0%				
Tm	9445325	< 0.05	< 0.05	0.0%	9445338	0.278	0.296	6.3%	9445345	0.31	0.31	0.0%				
U	9445325	3.42	3.29	3.9%	9445338	0.232	0.235	1.3%	9445345	0.08	0.08	0.0%				
V	9445325	6	7	15.4%	9445338	267	269	0.7%	9445345	263	266	1.1%				
W	9445325	7	7	0.0%	9445338	< 1	< 1	0.0%	9445345	2	1					
Y	9445325	0.5	0.5	0.0%	9445338	18.0	18.0	0.0%	9445345	19.4	19.5	0.5%				
Yb	9445325	< 0.1	< 0.1	0.0%	9445338	2.0	2.0	0.0%	9445345	2.0	2.0	0.0%				
Zn	9445325	238	236	0.8%	9445338	86	82	4.8%	9445345	88	83	5.8%				
Zr	9445325	10.1	8.8	13.8%	9445338	43.3	44.1	1.8%	9445345	45.1	45.8	1.5%				



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

	CRM #1				CRM #2				CRM #3				CRM #4			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%
	CRM #5				CRM #6				CRM #7							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%				

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	CRM #1 (ref.Till-2)				CRM #2 (ref.GTS-2a)				CRM #3 (ref.SY-4)				CRM #4 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	47	46	97%	90% - 110%									37	38	103%	90% - 110%
Ta	1.9	1.8	94%	90% - 110%					0.9	0.8	87%	90% - 110%				
Nb	20	19	95%	90% - 110%					13	13	103%	90% - 110%				
Sn									7.1	7.5	105%	90% - 110%				
Cs									1.5	1.7	113%	90% - 110%				
Rb	144	151	105%	90% - 110%					55	55	100%	90% - 110%				
K	2.55	2.57	101%	90% - 110%	2.02	2	99%	90% - 110%					1.37	1.38	101%	90% - 110%
Mg	1.1	1.1	99%	90% - 110%	2.41	2.37	98%	90% - 110%					0.325	0.297	91%	90% - 110%
Fe	3.77	3.77	100%	90% - 110%	7.56	7.46	99%	90% - 110%					4.34	4.15	96%	90% - 110%
Al	8.47	8.31	98%	90% - 110%	6.94	6.95	100%	90% - 110%					10.95	10.68	98%	90% - 110%
Si	28.4	28.5	100%	90% - 110%	23.65	23.09	98%	90% - 110%					23.3	22.7	97%	90% - 110%
Be	4.0	3.6	91%	90% - 110%					2.6	2.8	109%	90% - 110%				
Mn	780	778	100%	90% - 110%									836	811	97%	90% - 110%
Mo	14	13	96%	90% - 110%												
As	26	24	91%	90% - 110%												
Ba	540	492	91%	90% - 110%									340	315	93%	90% - 110%
Ca	0.907	0.91	100%	90% - 110%	4.01	3.94	98%	90% - 110%					5.72	5.52	97%	90% - 110%
Ce	98	97	99%	90% - 110%					122	128	105%	90% - 110%				
Co	15	16	104%	90% - 110%					2.8	2.6	93%	90% - 110%				
Cu	150	150	100%	90% - 110%												
Dy									18.2	18.9	104%	90% - 110%				
Er	3.7	3.6	96%	90% - 110%					14.2	14.9	105%	90% - 110%				
Eu	1.0	1.1	109%	90% - 110%					2.0	2	98%	90% - 110%				
Ga									35	36	103%	90% - 110%				



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Gd									14	15	109%	90% - 110%				
Hf	11	10	87%	90% - 110%					10.6	11.5	108%	90% - 110%				
Ho									4.3	4.5	104%	90% - 110%				
La	44	43	97%	90% - 110%					58	61	105%	90% - 110%				
Lu	0.6	0.5	91%	90% - 110%					2.1	2.3	109%	90% - 110%				
Nd									57	59	104%	90% - 110%				
Ni	32	30	95%	90% - 110%									9	7	77%	90% - 110%
Pb	31	31	101%	90% - 110%					10	9	94%	90% - 110%				
Pr									15.0	15.4	103%	90% - 110%				
Sb	0.8	0.8	103%	90% - 110%												
Sc	12	11	95%	90% - 110%												
Sm	7.4	7.3	99%	90% - 110%					12.7	13.2	104%	90% - 110%				
Sr	144	151	105%	90% - 110%									1191	1127	95%	90% - 110%
Tb	1.2	1.2	96%	90% - 110%					2.6	2.9	110%	90% - 110%				
Th	18.4	16.7	91%	90% - 110%					1.4	1.3	93%	90% - 110%				
Ti	0.527	0.52	99%	90% - 110%									0.172	0.167	97%	90% - 110%
Tm									2.3	2.3	99%	90% - 110%				
U	5.7	5.2	91%	90% - 110%					0.8	0.9	110%	90% - 110%				
V	77	76	98%	90% - 110%												
W	5	5	100%	90% - 110%												
Y	40	38	96%	90% - 110%					119	123	103%	90% - 110%				
Yb									14.8	14.9	101%	90% - 110%				
Zn	130	124	95%	90% - 110%									93	92	99%	90% - 110%
Zr	390	375	96%	90% - 110%					517	561	109%	90% - 110%				
	CRM #5 (ref.Till-2)				CRM #6 (ref.Till-2)				CRM #7 (ref.GTS-2a)							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Li					47	46	97%	90% - 110%								
Ta	1.9	1.9	101%	90% - 110%												
Nb	20	18	92%	90% - 110%												
Rb	144	149	103%	90% - 110%												
K					2.55	2.44	96%	90% - 110%	2.02	2	99%	90% - 110%				
Mg					1.1	1.1	96%	90% - 110%	2.41	2.43	101%	90% - 110%				
Fe					3.77	3.64	97%	90% - 110%	7.56	7.57	100%	90% - 110%				
Al					8.47	8.06	95%	90% - 110%	6.94	6.99	101%	90% - 110%				



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Si					28.4	27.4	96%	90% - 110%	23.65	23.74	100%	90% - 110%				
Be	4.0	3.2	79%	90% - 110%												
Mn					780	749	96%	90% - 110%								
Mo	14	14	98%	90% - 110%												
As	26	24	94%	90% - 110%												
Ba					540	482	89%	90% - 110%								
Ca					0.907	0.857	95%	90% - 110%	4.01	3.97	99%	90% - 110%				
Ce	98	107	109%	90% - 110%												
Co	15	15	98%	90% - 110%												
Cu					150	145	97%	90% - 110%								
Er	3.7	4	109%	90% - 110%												
Eu	1.0	1.1	106%	90% - 110%												
Hf	11	11	98%	90% - 110%												
La	44	48	108%	90% - 110%												
Lu	0.6	0.7	113%	90% - 110%												
Ni					32	32	99%	90% - 110%								
Pb	31	32	102%	90% - 110%												
Sb	0.8	0.8	99%	90% - 110%												
Sc					12	11	92%	90% - 110%								
Sm	7.4	8.1	109%	90% - 110%												
Sr					144	142	98%	90% - 110%								
Tb	1.2	1.3	108%	90% - 110%												
Th	18.4	17.9	98%	90% - 110%												
Ti					0.527	0.496	94%	90% - 110%								
U	5.7	5.6	98%	90% - 110%												
V					77	73	95%	90% - 110%								
W	5	5	107%	90% - 110%												
Y	40	40	99%	90% - 110%												
Zn					130	122	94%	90% - 110%								
Zr	390	366	94%	90% - 110%												



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B369852

PROJECT: 18B369852

ATTENTION TO: Peter Spitalny

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

PROJECT: 18B369852

SAMPLING SITE:

AGAT WORK ORDER: 18B369852

ATTENTION TO: Peter Spitalny

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Peter Spitalny

PROJECT: 18B371121

AGAT WORK ORDER: 18B371121

SOLID ANALYSIS REVIEWED BY: Adel Mina, Mining Chief Chemist

DATE REPORTED: Sep 13, 2018

PAGES (INCLUDING COVER): 33

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563721 (9453930)		2.49
E5563722 (9453931)		1.94
E5563723 (9453932)		0.55
E5563724 (9453933)		2.42
E5563725 (9453934)		2.29
E5563726 (9453935)		2.01
E5563727 (9453936)		1.39
E5563728 (9453937)		0.27
E5563729 (9453938)		0.06
E5563730 (9453939)		2.08
E5563731 (9453940)		2.00
E5563732 (9453941)		1.60
E5563733 (9453942)		0.20
E5563734 (9453943)		2.05
E5563735 (9453944)		2.68
E5563736 (9453945)		0.79
E5563737 (9453946)		0.05
E5563738 (9453947)		2.25
E5563739 (9453948)		2.16
E5563740 (9453949)		2.14
E5563741 (9453950)		2.97
E5563742 (9453951)		2.82
E5563743 (9453952)		2.88
E5563744 (9453953)		1.61
E5563745 (9453954)		2.93
E5563746 (9453955)		1.70
E5563747 (9453956)		1.27
E5563748 (9453957)		0.05
E5563749 (9453958)		1.70
E5563750 (9453959)		1.15
E5563751 (9453960)		1.77

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Aug 07, 2018 DATE RECEIVED: Aug 07, 2018 DATE REPORTED: Sep 13, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563752 (9453961)		2.24
E5563753 (9453962)		0.05
E5563754 (9453963)		1.43
E5563755 (9453964)		0.80
E5563756 (9453965)		0.82
E5563757 (9453966)		1.72
E5563758 (9453967)		1.78
E5563759 (9453968)		1.73
E5563760 (9453969)		1.18
E5563761 (9453970)		2.45
E5563762 (9453971)		1.87
E5563763 (9453972)		2.31
E5563764 (9453973)		0.87
E5563765 (9453974)		1.50
E5563766 (9453975)		2.28
E5563767 (9453976)		0.05
E5563768 (9453977)		1.87
E5563769 (9453978)		1.75
E5563770 (9453979)		1.78
E5563771 (9453980)		1.62
E5563772 (9453981)		1.56
E5563773 (9453982)		1.87
E5563774 (9453983)		1.75
E5563775 (9453984)		0.05
E5563776 (9453985)		1.72
E5563777 (9453986)		1.81
E5563778 (9453987)		2.11
E5563779 (9453988)		1.02
E5563780 (9453989)		1.95
E5563781 (9453990)		2.74
E5563782 (9453991)		3.04

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(200-) Sample Login Weight

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563783 (9453992)		3.01
E5563784 (9453993)		2.84
E5563785 (9453994)		2.84
E5563786 (9453995)		2.74
E5563787 (9453996)		0.05
E5563788 (9453997)		2.79
E5563789 (9453998)		2.93
E5563790 (9453999)		2.79
E5563791 (9454000)		2.70
E5563792 (9454001)		0.05
E5563793 (9454002)		2.68
E5563794 (9454003)		2.88
E5563795 (9454004)		1.31
E5563796 (9454005)		1.31
E5563797 (9454006)		1.59
E5563798 (9454007)		1.74
E5563799 (9454008)		1.90
E5563800 (9454009)		2.68
E5563801 (9454010)		2.86
E5563802 (9454011)		2.81
E5563803 (9454012)		2.83
E5563804 (9454013)		3.03
E5563805 (9454014)		2.92
E5563806 (9454015)		2.91
E5563807 (9454016)		0.05
E5563808 (9454017)		1.90
E5563809 (9454018)		0.66
E5563810 (9454019)		1.92

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563721 (9453930)		3.22
E5563722 (9453931)		3.14
E5563723 (9453932)		2.70
E5563724 (9453933)		3.10
E5563725 (9453934)		3.27
E5563726 (9453935)		3.15
E5563727 (9453936)		3.17
E5563728 (9453937)		2.91
E5563729 (9453938)		2.65
E5563730 (9453939)		3.07
E5563731 (9453940)		3.11
E5563732 (9453941)		3.12
E5563733 (9453942)		2.71
E5563734 (9453943)		3.21
E5563735 (9453944)		3.24
E5563736 (9453945)		2.74
E5563737 (9453946)		2.81
E5563738 (9453947)		3.22
E5563739 (9453948)		3.30
E5563740 (9453949)		3.05
E5563741 (9453950)		3.04
E5563742 (9453951)		2.97
E5563743 (9453952)		2.86
E5563744 (9453953)		2.88
E5563745 (9453954)		2.92
E5563746 (9453955)		2.91
E5563747 (9453956)		2.72
E5563748 (9453957)		2.64
E5563749 (9453958)		2.68
E5563750 (9453959)		2.75
E5563751 (9453960)		2.75
E5563752 (9453961)		2.70

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563753 (9453962)		2.76
E5563754 (9453963)		2.80
E5563755 (9453964)		2.91
E5563756 (9453965)		2.81
E5563757 (9453966)		2.67
E5563758 (9453967)		2.73
E5563759 (9453968)		2.88
E5563760 (9453969)		2.78
E5563761 (9453970)		3.15
E5563762 (9453971)		3.22
E5563763 (9453972)		3.00
E5563764 (9453973)		3.15
E5563765 (9453974)		2.88
E5563766 (9453975)		2.76
E5563767 (9453976)		2.72
E5563768 (9453977)		3.08
E5563769 (9453978)		2.97
E5563770 (9453979)		3.02
E5563771 (9453980)		2.99
E5563772 (9453981)		2.90
E5563773 (9453982)		3.09
E5563774 (9453983)		2.94
E5563775 (9453984)		2.75
E5563776 (9453985)		3.15
E5563777 (9453986)		2.92
E5563778 (9453987)		2.78
E5563779 (9453988)		2.72
E5563780 (9453989)		3.06
E5563781 (9453990)		3.17
E5563782 (9453991)		3.05
E5563783 (9453992)		3.08
E5563784 (9453993)		3.15

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563785 (9453994)		3.09
E5563786 (9453995)		2.93
E5563787 (9453996)		2.68
E5563788 (9453997)		3.08
E5563789 (9453998)		3.12
E5563790 (9453999)		3.10
E5563791 (9454000)		3.11
E5563792 (9454001)		2.73
E5563793 (9454002)		3.09
E5563794 (9454003)		3.12
E5563795 (9454004)		3.07
E5563796 (9454005)		3.06
E5563797 (9454006)		2.75
E5563798 (9454007)		2.76
E5563799 (9454008)		2.74
E5563800 (9454009)		3.16
E5563801 (9454010)		3.18
E5563802 (9454011)		3.14
E5563803 (9454012)		3.19
E5563804 (9454013)		3.12
E5563805 (9454014)		3.20
E5563806 (9454015)		3.19
E5563807 (9454016)		2.76
E5563808 (9454017)		3.10
E5563809 (9454018)		2.71
E5563810 (9454019)		3.08

Comments: RDL - Reported Detection Limit

Certified By:



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AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018					DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563721 (9453930)	351	0.075	<0.5	2	3	19.2	15.6	0.31	3.34	18.1	0.03	7.19	18.5	<5	
E5563722 (9453931)	542	0.117	<0.5	2	2	58.5	393	0.91	3.29	16.0	0.03	7.12	18.8	<5	
E5563723 (9453932)	219	0.047	95.2	63	16	75.4	736	0.97	1.08	2.33	0.13	6.81	30.8	105	
E5563724 (9453933)	618	0.133	0.6	3	2	234	208	0.68	3.74	14.1	0.02	7.54	19.7	<5	
E5563725 (9453934)	357	0.077	<0.5	2	2	40.5	284	0.86	3.56	11.6	0.02	7.65	21.5	<5	
E5563726 (9453935)	306	0.066	<0.5	2	1	78.6	272	0.91	1.92	9.37	0.03	8.51	22.8	<5	
E5563727 (9453936)	403	0.087	1.0	2	2	169	241	0.75	1.96	10.5	0.03	8.87	21.9	<5	
E5563728 (9453937)	158	0.034	131	24	2	16.2	119	0.42	0.91	4.99	0.06	9.57	26.4	52	
E5563729 (9453938)	15	0.003	<0.5	<1	1	0.4	0.7	<0.05	<0.01	0.35	<0.01	0.12	42.0	<5	
E5563730 (9453939)	326	0.070	0.7	2	2	26.1	187	0.76	2.14	11.2	0.02	8.63	22.2	<5	
E5563731 (9453940)	314	0.068	<0.5	2	2	17.8	290	0.84	1.95	10.8	0.03	7.77	22.0	<5	
E5563732 (9453941)	416	0.090	0.7	3	3	115	468	1.16	1.93	10.7	0.03	9.08	20.9	<5	
E5563733 (9453942)	89	0.019	282	95	24	43.1	845	0.89	0.14	0.93	0.31	9.39	29.2	55	
E5563734 (9453943)	608	0.131	1.3	5	6	58.8	501	1.48	4.39	25.6	0.06	16.8	38.4	6	
E5563735 (9453944)	279	0.060	0.8	2	4	22.1	240	0.70	2.29	12.8	0.02	7.95	19.2	<5	
E5563736 (9453945)	108	0.023	154	81	31	95.3	1890	1.53	0.10	0.77	0.12	10.9	27.6	87	
E5563737 (9453946)	10100	2.17	26.6	6010	3090	326	812	1.48	0.53	4.41	0.10	8.00	29.0	29	
E5563738 (9453947)	202	0.044	12.8	8	11	11.9	57.1	0.22	4.12	16.9	0.08	4.98	13.1	<5	
E5563739 (9453948)	12	0.003	<0.5	<1	2	2.2	1.8	<0.05	5.59	20.8	0.01	2.05	9.51	<5	
E5563740 (9453949)	281	0.060	<0.5	2	4	35.8	31.1	0.34	3.29	9.88	0.02	8.91	21.0	<5	
E5563741 (9453950)	229	0.049	<0.5	3	2	30.6	35.2	0.36	2.23	8.09	0.02	8.78	22.4	<5	
E5563742 (9453951)	214	0.046	<0.5	2	2	13.8	28.1	0.37	2.62	8.38	0.02	8.61	21.9	<5	
E5563743 (9453952)	150	0.032	<0.5	2	2	2.1	10.5	0.30	2.40	6.99	0.03	9.54	22.8	<5	
E5563744 (9453953)	342	0.074	<0.5	2	3	34.4	32.4	0.59	2.07	5.58	0.03	9.24	23.8	<5	
E5563745 (9453954)	497	0.107	<0.5	4	1	45.0	84.0	0.86	2.90	6.98	0.17	8.64	22.4	<5	
E5563746 (9453955)	657	0.141	<0.5	5	2	59.0	69.3	0.72	3.48	7.23	0.20	8.85	22.4	<5	
E5563747 (9453956)	1120	0.241	<0.5	5	3	40.5	50.7	0.43	4.53	6.67	0.21	8.69	22.7	10	
E5563748 (9453957)	12	0.003	<0.5	<1	1	0.7	1.1	<0.05	<0.01	0.35	<0.01	0.13	41.7	<5	
E5563749 (9453958)	486	0.105	60.7	28	9	127	1610	1.95	0.78	1.38	0.13	8.96	29.8	83	
E5563750 (9453959)	5360	1.15	71.5	74	44	317	3020	2.34	0.16	0.74	0.04	7.44	32.9	55	
E5563751 (9453960)	4610	0.993	56.5	106	79	380	4680	3.62	0.20	0.96	0.03	8.44	31.5	83	
E5563752 (9453961)	2140	0.461	56.3	92	65	283	3420	2.79	0.27	0.94	0.09	7.34	33.1	186	

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Certificate of Analysis

AGAT WORK ORDER: 18B371121
PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018					DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563753 (9453962)	2280	0.490	16.4	1160	797	253	1220	1.70	0.56	3.28	0.17	5.01	32.6	36	
E5563754 (9453963)	10300	2.21	117	98	41	372	2030	1.26	0.12	0.81	0.12	8.47	32.1	72	
E5563755 (9453964)	9190	1.98	98.3	104	24	196	958	0.73	0.09	0.67	0.05	7.89	33.0	132	
E5563756 (9453965)	11600	2.50	79.0	59	44	533	2390	1.40	0.11	0.81	0.28	9.09	30.2	28	
E5563757 (9453966)	3250	0.700	103	66	4	69.5	180	0.21	0.02	0.28	0.11	8.50	32.0	140	
E5563758 (9453967)	6870	1.48	139	133	7	187	384	0.30	0.02	0.50	0.04	8.52	32.4	215	
E5563759 (9453968)	4530	0.976	59.9	49	11	152	572	0.43	0.03	0.35	0.06	7.52	33.0	153	
E5563760 (9453969)	175	0.038	271	176	4	26.3	105	0.17	0.01	0.42	0.09	8.71	31.8	95	
E5563761 (9453970)	1370	0.295	6.9	6	9	277	282	0.40	2.64	7.23	0.05	9.30	22.1	17	
E5563762 (9453971)	1040	0.224	2.1	3	2	245	395	0.51	2.51	8.15	0.02	8.68	23.1	8	
E5563763 (9453972)	2940	0.633	60.0	102	94	412	4170	2.82	0.22	1.37	0.37	7.06	32.8	19	
E5563764 (9453973)	1590	0.342	11.0	15	14	449	951	0.85	2.15	7.67	0.03	8.40	24.2	19	
E5563765 (9453974)	6790	1.46	92.0	52	14	119	500	0.36	0.06	0.51	0.13	8.00	33.0	134	
E5563766 (9453975)	406	0.087	191	108	2	39.5	73.1	0.14	0.01	0.16	0.13	8.59	31.8	185	
E5563767 (9453976)	19	0.004	<0.5	1	1	0.6	1.1	<0.05	<0.01	0.35	<0.01	0.13	43.6	<5	
E5563768 (9453977)	18000	3.88	222	244	26	208	428	0.31	0.03	0.68	0.30	11.1	29.5	71	
E5563769 (9453978)	12600	2.71	189	187	23	164	734	0.44	0.02	0.78	0.13	9.77	31.5	17	
E5563770 (9453979)	14600	3.14	355	363	33	436	1860	0.87	0.03	0.68	0.56	10.2	29.9	55	
E5563771 (9453980)	12300	2.65	382	350	32	324	1870	0.99	0.05	0.63	0.28	10.4	30.4	75	
E5563772 (9453981)	6470	1.39	224	143	17	286	1148	0.76	0.03	0.40	0.17	8.79	31.9	76	
E5563773 (9453982)	18000	3.87	194	114	29	755	1310	0.68	0.04	0.79	0.09	10.2	31.0	297	
E5563774 (9453983)	9780	2.10	82.1	85	29	470	2030	1.17	0.06	0.57	0.05	9.03	32.0	212	
E5563775 (9453984)	2310	0.497	16.4	1130	736	243	1180	1.70	0.57	3.31	0.17	5.09	33.0	35	
E5563776 (9453985)	20700	4.45	126	48	27	1270	2340	1.03	0.06	0.80	0.05	11.5	29.7	11	
E5563777 (9453986)	7000	1.51	83.8	45	9	290	305	0.42	2.81	6.82	0.10	7.87	22.4	<5	
E5563778 (9453987)	2230	0.479	141	141	6	184	627	0.38	0.05	0.28	0.05	8.00	33.0	202	
E5563779 (9453988)	276	0.059	215	73	7	82.5	489	0.38	0.03	0.22	0.18	8.78	30.8	153	
E5563780 (9453989)	637	0.137	5.9	4	10	1780	1230	0.60	2.52	6.58	0.33	8.92	23.2	26	
E5563781 (9453990)	377	0.081	3.4	3	7	289	222	0.30	2.78	7.95	0.11	8.50	22.8	15	
E5563782 (9453991)	259	0.056	<0.5	2	3	15.0	38.6	0.20	2.39	8.58	0.03	8.35	22.4	<5	
E5563783 (9453992)	245	0.053	<0.5	2	1	14.1	22.3	0.20	2.75	8.44	0.03	8.67	22.4	<5	
E5563784 (9453993)	184	0.040	<0.5	2	2	11.8	22.8	0.16	2.47	8.01	0.03	8.20	21.3	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Li ppm	Li2O %	Ta ppm	Nb ppm	Sn ppm	Cs ppm	Rb ppm	K %	Mg %	Fe %	P %	Al %	Si %	Be ppm
		10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5
E5563785 (9453994)		243	0.052	<0.5	2	2	208	137	0.22	2.68	8.41	0.04	8.91	22.7	<5
E5563786 (9453995)		194	0.042	<0.5	2	2	7.7	24.9	0.14	2.13	6.85	0.03	8.62	23.9	<5
E5563787 (9453996)		16	0.003	<0.5	<1	1	0.6	0.9	<0.05	<0.01	0.35	<0.01	0.13	43.0	<5
E5563788 (9453997)		111	0.024	<0.5	2	1	3.1	5.5	0.12	3.03	8.71	0.03	8.20	21.9	<5
E5563789 (9453998)		125	0.027	<0.5	2	1	3.2	8.8	0.14	3.02	8.96	0.03	8.49	22.2	<5
E5563790 (9453999)		198	0.043	<0.5	2	1	10.9	15.4	0.17	2.67	8.25	0.03	8.51	22.2	<5
E5563791 (9454000)		267	0.057	<0.5	2	<1	5.5	21.2	0.20	2.58	8.25	0.02	8.86	22.7	<5
E5563792 (9454001)		10200	2.19	26.3	5900	3120	359	827	1.45	0.55	4.37	0.12	8.09	28.8	29
E5563793 (9454002)		763	0.164	<0.5	10	5	29.7	39.5	0.25	2.29	7.81	0.02	8.30	23.2	<5
E5563794 (9454003)		292	0.063	<0.5	2	6	8.5	42.7	0.24	3.25	10.0	0.03	7.21	18.7	<5
E5563795 (9454004)		429	0.092	<0.5	2	2	35.3	141	0.36	2.92	8.75	0.03	8.13	21.6	<5
E5563796 (9454005)		487	0.105	<0.5	2	1	23.2	98.4	0.35	2.79	8.34	0.03	8.65	22.7	<5
E5563797 (9454006)		2480	0.534	46.7	35	13	189	3270	3.15	0.08	0.38	0.08	8.53	31.8	97
E5563798 (9454007)		5480	1.18	97.0	64	16	222	1520	1.55	0.03	0.47	0.09	8.69	33.1	157
E5563799 (9454008)		2520	0.541	216	109	10	229	2210	2.39	0.05	0.45	0.07	8.11	33.0	65
E5563800 (9454009)		517	0.111	1.3	3	2	111	237	0.62	3.10	10.0	0.03	9.01	21.7	6
E5563801 (9454010)		243	0.052	<0.5	2	<1	6.3	19.3	0.26	2.79	9.67	0.03	7.44	20.4	<5
E5563802 (9454011)		297	0.064	<0.5	2	1	7.8	42.6	0.45	2.65	8.79	0.03	9.26	22.4	<5
E5563803 (9454012)		522	0.112	<0.5	2	1	77.6	55.4	0.64	2.99	12.8	0.03	8.18	20.9	<5
E5563804 (9454013)		398	0.086	<0.5	2	1	35.6	59.8	0.59	2.69	11.1	0.03	8.34	22.1	<5
E5563805 (9454014)		398	0.086	<0.5	2	1	14.0	71.8	0.51	2.87	12.8	0.03	7.91	21.2	<5
E5563806 (9454015)		335	0.072	<0.5	2	<1	17.4	69.5	0.57	2.58	11.0	0.03	8.35	21.7	<5
E5563807 (9454016)		13	0.003	<0.5	<1	1	0.3	0.8	<0.05	<0.01	0.35	<0.01	0.13	42.1	<5
E5563808 (9454017)		603	0.130	2.4	4	3	231	335	1.17	2.14	9.38	0.12	9.24	22.6	<5
E5563809 (9454018)		81	0.017	79.3	37	4	91.0	437	0.49	0.06	0.43	0.14	7.13	34.0	31
E5563810 (9454019)		456	0.098	1.0	3	2	90.7	170	0.84	2.52	9.36	0.05	8.92	22.8	<5

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018						DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563721 (9453930)	27	5160	3	0.8	<5	<1	19.3	6.20	<0.2	6.8	50.7	0.027	227	4.17	
E5563722 (9453931)	25	5320	3	1.1	<5	<1	87.0	4.94	<0.2	6.4	51.2	0.028	412	3.61	
E5563723 (9453932)	<20	409	5	4.2	<5	<1	33.5	2.22	<0.2	4.3	6.2	<0.005	14	1.11	
E5563724 (9453933)	23	3590	6	2.6	<5	<1	78.7	4.49	<0.2	8.4	55.7	0.030	42	3.06	
E5563725 (9453934)	27	3030	5	1.0	<5	<1	160	6.92	<0.2	8.0	51.3	0.031	54	3.50	
E5563726 (9453935)	28	2240	5	0.4	<5	<1	156	6.57	<0.2	7.1	56.3	0.035	41	2.97	
E5563727 (9453936)	22	2320	4	0.5	<5	<1	122	6.26	<0.2	6.8	62.7	0.036	124	2.92	
E5563728 (9453937)	<20	1260	5	265	<5	<1	61.5	3.56	<0.2	3.0	23.9	0.015	39	1.36	
E5563729 (9453938)	<20	30	<2	<0.1	<5	<1	3.7	0.05	<0.2	2.0	<0.5	<0.005	<5	0.14	
E5563730 (9453939)	25	2640	3	1.2	<5	<1	116	6.71	<0.2	6.8	55.2	0.033	96	3.24	
E5563731 (9453940)	<20	2810	3	1.6	<5	<1	126	7.63	<0.2	8.2	52.1	0.030	132	3.70	
E5563732 (9453941)	<20	2850	3	1.3	<5	<1	213	6.45	<0.2	7.7	58.3	0.037	86	3.94	
E5563733 (9453942)	<20	359	6	6.8	<5	<1	38.8	1.78	<0.2	0.4	2.3	<0.005	<5	0.16	
E5563734 (9453943)	39	7030	5	2.7	<5	<1	277	16.2	0.3	13.4	112	0.061	385	7.13	
E5563735 (9453944)	<20	3510	2	1.6	<5	<1	118	8.78	<0.2	6.2	55.5	0.029	243	3.41	
E5563736 (9453945)	<20	257	3	17.5	<5	<1	17.5	0.73	<0.2	0.7	1.1	<0.005	7	0.11	
E5563737 (9453946)	37	446	11	50.6	146	1	2780	1.09	1.7	417	8.1	0.010	327	4.63	
E5563738 (9453947)	<20	4180	3	6.4	<5	<1	20.1	11.8	<0.2	4.6	28.1	0.017	224	2.58	
E5563739 (9453948)	<20	3130	<2	0.4	<5	<1	1.4	15.0	<0.2	2.9	14.7	0.008	130	2.32	
E5563740 (9453949)	20	1880	2	0.7	<5	<1	115	6.37	0.2	6.2	61.2	0.038	204	3.12	
E5563741 (9453950)	<20	1580	4	0.8	<5	<1	89.2	8.09	0.2	6.0	50.6	0.031	209	2.64	
E5563742 (9453951)	<20	1680	3	0.2	<5	<1	103	7.10	<0.2	6.0	53.6	0.034	133	2.76	
E5563743 (9453952)	<20	1670	3	0.1	<5	<1	59.7	7.36	<0.2	7.7	58.0	0.037	169	3.13	
E5563744 (9453953)	<20	1220	2	0.1	<5	<1	175	6.36	0.3	8.3	62.0	0.036	168	2.76	
E5563745 (9453954)	<20	1150	3	0.1	<5	<1	464	5.98	1.5	131	38.2	0.008	111	4.12	
E5563746 (9453955)	<20	1080	3	3.8	<5	<1	418	5.23	0.4	153	37.6	<0.005	135	4.38	
E5563747 (9453956)	<20	1350	2	1.8	<5	1	149	2.09	0.3	50.0	32.7	<0.005	36	3.00	
E5563748 (9453957)	<20	30	<2	<0.1	<5	<1	4.1	0.06	<0.2	2.2	<0.5	<0.005	<5	0.18	
E5563749 (9453958)	24	465	4	1.0	<5	<1	160	0.51	<0.2	1.6	5.2	<0.005	8	0.26	
E5563750 (9453959)	22	694	6	7.7	<5	<1	35.6	0.19	<0.2	0.5	1.2	<0.005	<5	0.07	
E5563751 (9453960)	<20	905	6	8.7	<5	<1	38.4	0.20	<0.2	0.5	2.1	<0.005	<5	<0.05	
E5563752 (9453961)	20	707	7	3.0	<5	<1	33.3	0.46	<0.2	1.1	2.0	<0.005	<5	0.12	

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Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018						DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563753 (9453962)	26	364	9	13.3	37	1	1890	1.18	0.8	1160	6.9	0.007	282	8.70	
E5563754 (9453963)	<20	1030	7	2.6	<5	<1	20.3	0.48	0.2	2.2	1.2	<0.005	<5	0.15	
E5563755 (9453964)	<20	947	9	2.0	<5	<1	16.2	0.22	<0.2	0.5	0.6	0.006	<5	<0.05	
E5563756 (9453965)	<20	1370	7	2.5	<5	<1	25.2	0.71	0.5	1.8	1.2	<0.005	<5	0.23	
E5563757 (9453966)	<20	946	5	4.2	<5	<1	3.2	0.36	<0.2	0.5	<0.5	<0.005	<5	<0.05	
E5563758 (9453967)	51	1310	9	8.5	<5	<1	4.8	0.26	1.1	0.2	<0.5	<0.005	<5	0.26	
E5563759 (9453968)	<20	1030	5	6.3	<5	<1	6.4	0.27	<0.2	0.2	<0.5	<0.005	<5	<0.05	
E5563760 (9453969)	<20	1770	8	0.9	<5	<1	11.9	0.42	0.2	0.4	<0.5	<0.005	<5	<0.05	
E5563761 (9453970)	<20	2890	3	1.1	<5	<1	85.8	6.63	1.1	15.0	51.4	0.035	83	3.04	
E5563762 (9453971)	23	2030	3	1.0	<5	<1	61.6	7.07	0.3	7.0	58.8	0.034	173	3.14	
E5563763 (9453972)	23	1630	13	1.4	<5	<1	14.5	0.98	0.5	4.0	3.5	0.008	5	0.66	
E5563764 (9453973)	<20	2030	3	1.3	<5	<1	74.0	5.92	0.3	6.2	50.6	0.031	152	2.78	
E5563765 (9453974)	<20	902	7	3.9	<5	<1	18.9	0.53	<0.2	0.8	1.0	<0.005	<5	0.08	
E5563766 (9453975)	<20	299	4	0.6	<5	<1	3.0	0.36	0.2	0.2	<0.5	<0.005	<5	<0.05	
E5563767 (9453976)	<20	29	<2	<0.1	<5	<1	3.8	<0.05	<0.2	2.3	<0.5	<0.005	<5	0.20	
E5563768 (9453977)	<20	1370	6	1.0	<5	<1	7.8	0.68	0.5	0.6	<0.5	<0.005	<5	0.10	
E5563769 (9453978)	<20	945	14	0.9	<5	<1	4.3	0.31	0.3	0.4	<0.5	0.008	<5	<0.05	
E5563770 (9453979)	<20	1940	9	2.5	<5	<1	4.4	1.18	1.1	1.2	0.6	0.005	<5	0.22	
E5563771 (9453980)	<20	1500	4	1.2	<5	<1	5.2	0.70	0.5	0.5	0.7	<0.005	<5	0.07	
E5563772 (9453981)	<20	932	3	0.7	<5	<1	4.0	0.42	<0.2	1.0	<0.5	<0.005	<5	0.07	
E5563773 (9453982)	<20	1060	4	0.7	<5	<1	4.6	0.30	<0.2	0.6	0.5	<0.005	<5	<0.05	
E5563774 (9453983)	<20	965	6	2.1	<5	<1	4.8	0.24	<0.2	0.3	0.7	<0.005	<5	<0.05	
E5563775 (9453984)	31	380	8	13.3	36	1	1940	1.18	0.8	1090	7.0	0.008	290	8.77	
E5563776 (9453985)	28	1230	9	0.9	<5	<1	24.3	0.26	<0.2	0.5	<0.5	<0.005	<5	<0.05	
E5563777 (9453986)	59	2450	4	2.6	30	<1	64.6	5.10	0.3	7.5	44.3	0.025	73	2.32	
E5563778 (9453987)	<20	560	3	5.2	<5	<1	7.3	0.29	<0.2	0.4	<0.5	<0.005	<5	<0.05	
E5563779 (9453988)	<20	438	4	3.2	<5	<1	6.0	0.54	1.1	0.9	<0.5	<0.005	<5	0.30	
E5563780 (9453989)	23	1480	11	13.0	<5	<1	116	7.92	0.3	5.8	43.5	0.025	110	2.34	
E5563781 (9453990)	<20	1670	6	1.4	<5	<1	56.7	8.57	<0.2	7.1	50.6	0.031	95	2.81	
E5563782 (9453991)	<20	1820	5	0.5	<5	<1	47.5	8.71	0.2	7.2	55.8	0.033	234	2.98	
E5563783 (9453992)	<20	1720	<2	0.4	<5	<1	45.5	8.75	0.2	6.7	54.9	0.033	90	2.95	
E5563784 (9453993)	<20	1990	3	0.4	<5	<1	41.7	11.1	<0.2	7.1	53.3	0.032	153	3.28	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018						DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563785 (9453994)	<20	1740	<2	0.3	<5	<1	99.4	7.60	0.3	8.5	59.9	0.034	156	3.21	
E5563786 (9453995)	<20	1660	<2	0.3	<5	<1	49.5	7.87	0.2	7.0	60.0	0.033	122	2.94	
E5563787 (9453996)	<20	30	<2	<0.1	<5	<1	4.1	<0.05	<0.2	2.2	<0.5	<0.005	<5	0.18	
E5563788 (9453997)	<20	1780	2	0.2	<5	<1	41.0	8.83	<0.2	6.7	55.1	0.032	119	2.91	
E5563789 (9453998)	<20	1620	<2	0.2	<5	<1	41.4	9.22	0.4	7.1	56.0	0.032	145	3.07	
E5563790 (9453999)	<20	1680	<2	0.1	<5	<1	51.9	8.92	<0.2	7.0	55.9	0.032	121	2.86	
E5563791 (9454000)	<20	1830	2	0.1	<5	<1	142	7.54	0.3	7.3	59.3	0.035	141	3.19	
E5563792 (9454001)	38	439	11	51.1	146	1	2840	1.09	1.9	413	8.1	0.010	316	4.38	
E5563793 (9454002)	<20	1990	<2	0.3	<5	<1	375	7.12	<0.2	6.4	50.1	0.032	97	2.69	
E5563794 (9454003)	<20	2360	2	0.3	<5	<1	75.6	11.7	0.2	7.6	58.7	0.030	423	3.77	
E5563795 (9454004)	<20	2010	<2	0.3	<5	<1	73.9	9.67	0.2	6.9	54.2	0.031	189	3.14	
E5563796 (9454005)	<20	1930	2	0.3	<5	<1	69.5	8.83	<0.2	7.1	54.2	0.034	83	3.11	
E5563797 (9454006)	<20	1190	4	10.1	<5	<1	26.5	0.31	<0.2	0.1	0.6	<0.005	<5	0.06	
E5563798 (9454007)	<20	1410	10	7.6	<5	<1	21.5	0.20	<0.2	0.2	<0.5	<0.005	<5	<0.05	
E5563799 (9454008)	<20	440	6	68.7	<5	<1	49.9	0.37	<0.2	0.5	0.8	<0.005	17	0.06	
E5563800 (9454009)	23	2360	3	1.4	<5	<1	178	7.73	0.3	7.5	57.4	0.036	114	3.63	
E5563801 (9454010)	<20	2280	2	0.6	<5	<1	88.1	10.4	<0.2	7.5	54.0	0.028	374	3.77	
E5563802 (9454011)	<20	2170	2	0.3	<5	14	132	8.36	<0.2	7.3	63.7	0.035	62	3.06	
E5563803 (9454012)	20	2990	2	0.6	<5	2	62.6	7.38	<0.2	7.1	53.5	0.031	172	3.34	
E5563804 (9454013)	20	2760	<2	0.4	<5	<1	86.1	6.88	<0.2	8.4	49.3	0.033	224	3.14	
E5563805 (9454014)	23	2920	5	0.5	<5	<1	80.5	7.89	<0.2	7.1	46.2	0.030	151	3.04	
E5563806 (9454015)	<20	2760	<2	0.4	<5	<1	115	7.99	0.2	7.5	48.4	0.032	130	3.03	
E5563807 (9454016)	<20	30	<2	<0.1	<5	<1	4.2	<0.05	<0.2	2.4	<0.5	<0.005	<5	0.20	
E5563808 (9454017)	21	1710	<2	0.3	<5	<1	89.4	7.00	0.2	11.1	55.2	0.022	116	4.27	
E5563809 (9454018)	<20	318	4	24.5	<5	<1	9.5	0.84	<0.2	0.7	1.0	<0.005	<5	0.12	
E5563810 (9454019)	<20	1730	2	0.6	<5	<1	54.0	6.69	0.3	11.0	55.1	0.022	105	4.11	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018						DATE REPORTED: Sep 13, 2018						SAMPLE TYPE: Drill Core		
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5563721 (9453930)	2.85	0.69	15.3	3.30	1	1	0.92	<0.2	2.5	0.42	5.9	146	6	1.14	
E5563722 (9453931)	2.56	0.58	17.2	2.80	1	1	0.84	<0.2	2.7	0.39	5.4	132	5	0.96	
E5563723 (9453932)	0.54	0.25	29.6	1.09	4	2	0.20	<0.2	2.0	0.07	3.1	16	<5	0.60	
E5563724 (9453933)	2.02	0.60	18.5	2.61	2	1	0.69	<0.2	4.1	0.34	5.7	138	6	1.12	
E5563725 (9453934)	2.46	0.73	15.8	2.82	2	1	0.79	<0.2	4.1	0.36	6.3	136	<5	1.16	
E5563726 (9453935)	1.92	0.76	16.8	2.68	1	1	0.70	<0.2	2.8	0.31	5.8	142	<5	1.10	
E5563727 (9453936)	1.97	0.68	18.2	2.69	1	2	0.65	<0.2	2.7	0.30	6.1	159	<5	1.09	
E5563728 (9453937)	0.83	0.33	29.6	1.21	3	2	0.27	<0.2	1.2	0.13	2.5	62	11	0.50	
E5563729 (9453938)	0.10	<0.05	0.28	0.17	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	9	<5	0.25	
E5563730 (9453939)	2.05	0.70	17.3	2.84	1	2	0.75	<0.2	2.6	0.32	6.0	146	<5	1.12	
E5563731 (9453940)	2.40	0.83	17.5	3.21	2	1	0.78	<0.2	3.3	0.38	7.0	154	<5	1.30	
E5563732 (9453941)	2.31	0.83	19.4	3.21	2	2	0.83	<0.2	3.0	0.35	6.9	189	<5	1.31	
E5563733 (9453942)	0.09	0.07	47.2	0.16	4	2	<0.05	<0.2	0.3	<0.05	0.4	18	<5	0.07	
E5563734 (9453943)	4.44	1.49	37.2	5.73	4	3	1.56	<0.2	5.2	0.71	12.0	305	<5	2.17	
E5563735 (9453944)	2.18	0.67	18.1	2.79	2	1	0.74	<0.2	2.3	0.34	5.7	157	<5	1.02	
E5563736 (9453945)	<0.05	<0.05	65.8	0.15	5	1	<0.05	<0.2	0.4	<0.05	0.6	10	<5	0.12	
E5563737 (9453946)	1.76	4.18	48.5	12.0	7	5	0.71	9.0	259	0.20	147	31	37	46.8	
E5563738 (9453947)	1.79	0.37	16.4	1.94	2	<1	0.64	<0.2	2.1	0.30	3.8	83	<5	0.73	
E5563739 (9453948)	1.56	0.17	4.02	1.73	<1	<1	0.52	<0.2	1.2	0.25	2.8	47	<5	0.47	
E5563740 (9453949)	1.89	0.60	16.8	2.46	1	2	0.68	<0.2	2.3	0.29	5.4	158	<5	1.06	
E5563741 (9453950)	1.80	0.63	20.4	2.26	2	1	0.61	<0.2	2.3	0.29	5.1	129	<5	0.97	
E5563742 (9453951)	1.78	0.62	17.3	2.27	<1	1	0.57	<0.2	2.2	0.25	5.1	140	<5	0.96	
E5563743 (9453952)	1.93	0.76	19.2	2.82	1	2	0.69	<0.2	3.0	0.31	6.4	158	<5	1.23	
E5563744 (9453953)	1.70	0.76	17.7	2.58	<1	1	0.59	<0.2	3.7	0.27	6.4	158	27	1.25	
E5563745 (9453954)	1.80	2.55	19.6	8.14	1	4	0.72	<0.2	63.5	0.23	62.3	77	43	16.0	
E5563746 (9453955)	2.02	2.88	21.3	9.21	1	4	0.79	<0.2	70.6	0.23	73.0	75	17	18.8	
E5563747 (9453956)	1.67	1.39	20.4	4.49	2	4	0.59	<0.2	22.2	0.24	27.7	72	<5	6.58	
E5563748 (9453957)	0.09	<0.05	0.26	0.23	<1	<1	<0.05	<0.2	1.4	<0.05	1.3	8	<5	0.25	
E5563749 (9453958)	0.15	0.09	34.2	0.35	6	1	0.06	<0.2	0.8	<0.05	1.1	14	5	0.25	
E5563750 (9453959)	<0.05	<0.05	55.5	0.14	5	<1	<0.05	<0.2	0.2	<0.05	0.5	8	<5	0.11	
E5563751 (9453960)	<0.05	<0.05	77.1	0.05	5	<1	<0.05	<0.2	0.2	<0.05	0.4	12	5	0.09	
E5563752 (9453961)	0.06	<0.05	64.5	0.12	5	1	<0.05	<0.2	0.6	<0.05	0.5	11	<5	0.14	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563753 (9453962)	2.55	10.1	24.2	30.2	4	6	1.28	2.1	680	0.24	387	25	30	122
E5563754 (9453963)	0.08	<0.05	61.7	0.16	6	2	<0.05	<0.2	1.3	<0.05	0.9	9	<5	0.25
E5563755 (9453964)	<0.05	<0.05	52.2	<0.05	5	2	<0.05	<0.2	0.4	<0.05	0.2	7	<5	0.06
E5563756 (9453965)	0.08	<0.05	70.1	0.19	6	2	<0.05	<0.2	1.1	<0.05	0.7	11	<5	0.22
E5563757 (9453966)	<0.05	<0.05	41.5	<0.05	7	3	<0.05	<0.2	0.4	<0.05	0.2	6	<5	0.06
E5563758 (9453967)	0.30	0.07	43.5	0.24	7	3	0.07	<0.2	0.2	0.08	0.3	8	<5	0.08
E5563759 (9453968)	<0.05	<0.05	39.4	<0.05	5	2	<0.05	<0.2	0.2	<0.05	0.1	5	<5	<0.05
E5563760 (9453969)	<0.05	<0.05	40.6	<0.05	7	8	<0.05	<0.2	0.3	<0.05	0.2	6	<5	0.06
E5563761 (9453970)	1.84	0.72	23.0	2.90	2	2	0.66	0.2	6.3	0.31	9.2	155	20	2.08
E5563762 (9453971)	2.05	0.67	18.3	2.67	2	1	0.69	<0.2	2.6	0.31	5.7	151	7	1.08
E5563763 (9453972)	0.35	0.14	80.8	0.57	4	<1	0.17	<0.2	2.1	0.10	1.9	15	<5	0.54
E5563764 (9453973)	1.70	0.63	25.7	2.39	3	1	0.64	<0.2	2.3	0.28	5.3	132	7	1.07
E5563765 (9453974)	0.05	<0.05	47.9	0.10	6	2	<0.05	<0.2	0.5	<0.05	0.5	7	5	0.11
E5563766 (9453975)	<0.05	<0.05	39.4	<0.05	7	1	<0.05	<0.2	0.2	<0.05	0.1	9	<5	<0.05
E5563767 (9453976)	0.13	<0.05	0.31	0.19	<1	<1	<0.05	<0.2	1.2	<0.05	1.0	7	<5	0.26
E5563768 (9453977)	0.08	<0.05	73.2	0.08	6	2	<0.05	<0.2	0.4	<0.05	0.3	8	<5	0.08
E5563769 (9453978)	<0.05	<0.05	64.4	<0.05	6	2	<0.05	<0.2	0.3	<0.05	0.2	10	<5	0.06
E5563770 (9453979)	0.13	<0.05	75.9	0.17	7	3	0.05	<0.2	0.7	<0.05	0.6	9	<5	0.17
E5563771 (9453980)	<0.05	<0.05	69.2	0.05	6	3	<0.05	<0.2	0.3	<0.05	0.2	12	<5	<0.05
E5563772 (9453981)	<0.05	<0.05	53.0	0.06	7	2	<0.05	<0.2	0.5	<0.05	0.4	9	<5	0.08
E5563773 (9453982)	<0.05	<0.05	70.5	<0.05	6	2	<0.05	<0.2	0.3	<0.05	0.2	11	<5	<0.05
E5563774 (9453983)	<0.05	<0.05	59.4	<0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.2	8	<5	<0.05
E5563775 (9453984)	2.56	9.73	23.5	29.4	4	6	1.25	2.0	663	0.24	375	27	29	121
E5563776 (9453985)	<0.05	<0.05	77.2	<0.05	8	4	<0.05	<0.2	0.3	<0.05	0.2	8	<5	0.06
E5563777 (9453986)	1.40	0.53	32.9	1.90	4	4	0.48	<0.2	3.0	0.22	5.1	144	6	1.10
E5563778 (9453987)	<0.05	0.38	36.5	<0.05	6	3	<0.05	<0.2	0.3	<0.05	0.2	8	<5	0.06
E5563779 (9453988)	0.33	0.18	42.6	0.42	7	5	0.07	<0.2	0.4	0.08	1.0	9	6	0.19
E5563780 (9453989)	1.48	0.67	22.1	2.04	3	1	0.51	<0.2	2.2	0.23	4.5	115	<5	0.90
E5563781 (9453990)	1.83	0.61	18.1	2.48	3	1	0.59	<0.2	2.8	0.27	5.4	130	<5	1.10
E5563782 (9453991)	2.00	0.64	17.4	2.55	3	1	0.68	<0.2	2.7	0.31	5.9	149	<5	1.12
E5563783 (9453992)	1.96	0.61	16.8	2.46	2	1	0.67	<0.2	2.6	0.33	5.3	153	<5	1.04
E5563784 (9453993)	2.22	0.83	17.2	2.68	2	1	0.73	<0.2	2.8	0.36	5.6	136	<5	1.16

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Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563785 (9453994)	2.04	0.73	18.6	2.69	2	1	0.70	<0.2	3.4	0.31	6.4	153	<5	1.36
E5563786 (9453995)	1.79	0.68	18.0	2.48	2	1	0.62	<0.2	2.6	0.26	5.5	169	<5	1.09
E5563787 (9453996)	0.10	<0.05	0.35	0.19	<1	<1	<0.05	<0.2	1.1	<0.05	1.0	6	<5	0.26
E5563788 (9453997)	2.00	0.65	17.5	2.49	2	1	0.65	<0.2	2.6	0.29	5.4	138	<5	1.06
E5563789 (9453998)	1.92	0.73	17.0	2.57	2	1	0.68	<0.2	2.6	0.31	5.7	140	<5	1.10
E5563790 (9453999)	1.95	0.65	17.5	2.48	1	1	0.66	<0.2	2.7	0.28	5.6	139	<5	1.09
E5563791 (9454000)	1.88	1.33	18.4	2.70	1	1	0.66	<0.2	2.7	0.29	5.7	159	<5	1.17
E5563792 (9454001)	1.70	4.35	49.9	12.3	7	5	0.74	10.8	259	0.22	145	32	39	48.4
E5563793 (9454002)	1.78	0.71	17.1	2.21	1	1	0.57	<0.2	2.4	0.25	5.2	125	<5	1.03
E5563794 (9454003)	2.61	0.72	17.2	3.05	1	1	0.85	<0.2	3.3	0.44	6.1	143	<5	1.19
E5563795 (9454004)	2.01	0.61	16.6	2.74	1	1	0.73	<0.2	2.7	0.31	5.6	136	<5	1.11
E5563796 (9454005)	2.00	0.66	17.3	2.53	1	1	0.69	<0.2	2.6	0.31	5.6	148	<5	1.15
E5563797 (9454006)	<0.05	<0.05	42.6	<0.05	7	<1	<0.05	<0.2	0.2	<0.05	0.1	23	9	<0.05
E5563798 (9454007)	<0.05	<0.05	44.0	<0.05	7	<1	<0.05	<0.2	0.2	<0.05	<0.1	47	5	<0.05
E5563799 (9454008)	<0.05	<0.05	39.3	0.10	6	1	<0.05	<0.2	0.3	<0.05	0.3	36	9	0.06
E5563800 (9454009)	2.20	0.83	19.0	2.96	2	1	0.81	<0.2	2.9	0.34	6.4	157	<5	1.25
E5563801 (9454010)	2.51	0.66	15.5	2.74	1	1	0.85	<0.2	3.2	0.38	6.1	131	<5	1.22
E5563802 (9454011)	1.99	0.82	18.1	2.73	1	1	0.70	<0.2	2.8	0.30	6.1	177	<5	1.14
E5563803 (9454012)	2.26	0.67	17.0	2.79	2	1	0.72	<0.2	2.7	0.32	5.9	149	<5	1.16
E5563804 (9454013)	1.91	0.68	17.1	2.64	1	1	0.69	<0.2	3.6	0.29	6.1	131	<5	1.26
E5563805 (9454014)	2.14	0.60	16.2	2.81	2	1	0.73	<0.2	2.9	0.33	5.7	135	<5	1.11
E5563806 (9454015)	1.91	0.84	17.2	2.72	1	1	0.69	<0.2	3.3	0.29	6.0	136	<5	1.18
E5563807 (9454016)	0.11	<0.05	0.38	0.20	<1	<1	<0.05	<0.2	1.2	<0.05	1.0	5	<5	0.29
E5563808 (9454017)	2.78	0.99	21.2	3.58	1	2	0.93	<0.2	4.3	0.44	8.3	132	<5	1.74
E5563809 (9454018)	0.07	<0.05	32.7	0.14	6	<1	<0.05	<0.2	0.4	<0.05	0.5	25	<5	0.10
E5563810 (9454019)	2.56	1.06	20.3	3.56	1	2	0.90	<0.2	4.2	0.39	8.3	135	<5	1.73

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018					DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563721 (9453930)	0.52	0.3	42	2.2	18.9	0.59	0.5	0.42	1.1	0.44	0.14	245	1	24.5	
E5563722 (9453931)	0.80	0.3	41	1.8	24.8	0.54	1.3	0.43	3.3	0.38	0.45	247	2	21.0	
E5563723 (9453932)	<0.01	0.1	<5	1.0	23.2	0.18	4.7	0.02	3.7	0.08	2.45	16	2	4.4	
E5563724 (9453933)	0.09	0.2	41	1.7	38.7	0.45	0.5	0.44	2.0	0.30	1.36	266	2	15.9	
E5563725 (9453934)	0.11	0.3	43	1.9	99.1	0.52	0.3	0.46	1.9	0.34	1.15	265	3	19.4	
E5563726 (9453935)	0.09	0.1	43	2.0	124	0.49	0.3	0.51	1.9	0.31	0.11	290	2	16.2	
E5563727 (9453936)	0.10	0.2	47	1.9	107	0.47	0.3	0.53	2.0	0.29	0.12	301	<1	15.7	
E5563728 (9453937)	0.04	0.4	19	0.9	65.7	0.21	3.0	0.21	0.8	0.13	5.71	117	<1	7.3	
E5563729 (9453938)	<0.01	0.1	<5	0.2	0.8	<0.05	0.6	0.03	<0.5	<0.05	0.18	<5	<1	0.9	
E5563730 (9453939)	0.08	0.2	44	2.1	95.4	0.49	0.5	0.50	1.1	0.31	0.14	287	<1	17.9	
E5563731 (9453940)	0.19	0.4	46	2.4	113	0.56	0.3	0.45	1.8	0.36	0.09	270	2	20.1	
E5563732 (9453941)	0.11	0.3	51	2.3	149	0.59	0.4	0.55	3.0	0.33	0.19	314	2	20.0	
E5563733 (9453942)	<0.01	0.3	<5	<0.1	77.6	<0.05	1.8	0.02	5.2	<0.05	4.18	8	2	0.9	
E5563734 (9453943)	0.47	1.1	90	4.2	269	1.08	1.2	0.93	3.3	0.69	0.19	540	5	38.8	
E5563735 (9453944)	0.27	0.9	44	1.9	165	0.50	0.3	0.44	1.6	0.36	0.11	256	3	18.5	
E5563736 (9453945)	<0.01	<0.1	<5	0.1	41.3	<0.05	4.6	0.01	12.8	<0.05	7.86	<5	3	0.5	
E5563737 (9453946)	0.02	26.2	8	18.4	183	1.38	110	0.37	7.5	0.23	25.4	74	13	17.4	
E5563738 (9453947)	0.80	0.4	29	1.2	65.9	0.37	0.8	0.26	0.7	0.27	0.44	167	95	17.2	
E5563739 (9453948)	0.51	<0.1	26	1.0	6.7	0.32	0.3	0.12	<0.5	0.24	0.05	100	1	16.3	
E5563740 (9453949)	0.48	<0.1	49	1.9	119	0.47	0.4	0.55	<0.5	0.31	0.09	305	<1	16.2	
E5563741 (9453950)	0.36	0.1	44	1.7	159	0.42	0.4	0.46	<0.5	0.27	0.09	310	<1	15.2	
E5563742 (9453951)	0.21	0.1	46	1.7	155	0.42	0.3	0.50	<0.5	0.27	0.09	298	<1	14.7	
E5563743 (9453952)	0.08	0.1	49	2.0	233	0.49	0.4	0.55	<0.5	0.31	0.11	319	<1	17.3	
E5563744 (9453953)	0.12	0.1	45	2.0	332	0.42	0.3	0.54	<0.5	0.27	0.10	288	<1	15.1	
E5563745 (9453954)	0.33	0.5	18	10.1	580	0.98	11.8	0.75	0.6	0.24	2.59	166	<1	19.3	
E5563746 (9453955)	0.33	0.8	15	11.8	779	1.08	13.9	0.81	0.7	0.27	3.05	166	<1	21.4	
E5563747 (9453956)	0.15	0.6	16	5.5	235	0.64	15.1	0.84	0.6	0.20	3.65	160	3	15.4	
E5563748 (9453957)	<0.01	0.2	<5	0.2	0.9	<0.05	0.8	0.03	<0.5	<0.05	0.19	<5	<1	1.1	
E5563749 (9453958)	0.02	0.2	<5	0.3	37.6	<0.05	2.7	0.03	15.5	<0.05	1.77	9	2	1.5	
E5563750 (9453959)	<0.01	0.3	<5	0.1	37.3	<0.05	2.6	0.01	26.9	<0.05	2.88	<5	3	<0.5	
E5563751 (9453960)	<0.01	0.3	<5	<0.1	55.3	<0.05	2.5	0.03	36.9	<0.05	2.69	5	5	<0.5	
E5563752 (9453961)	<0.01	0.3	<5	0.1	43.6	<0.05	2.8	0.02	26.2	<0.05	3.17	5	5	0.7	

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AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018					DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563753 (9453962)	0.02	10.7	10	47.1	272	3.24	93.5	0.46	11.9	0.30	16.2	61	7	27.9	
E5563754 (9453963)	<0.01	0.5	<5	0.2	28.5	<0.05	4.1	0.01	15.7	<0.05	8.42	7	3	0.8	
E5563755 (9453964)	<0.01	0.4	<5	<0.1	18.2	<0.05	4.5	<0.01	7.5	<0.05	4.93	<5	2	<0.5	
E5563756 (9453965)	<0.01	0.6	<5	0.2	33.9	<0.05	5.6	0.01	18.7	<0.05	6.86	6	4	1.4	
E5563757 (9453966)	<0.01	0.5	<5	<0.1	9.6	<0.05	3.5	<0.01	1.6	<0.05	8.18	<5	1	<0.5	
E5563758 (9453967)	<0.01	0.9	<5	0.3	12.1	0.06	3.4	<0.01	3.4	0.07	10.8	<5	2	<0.5	
E5563759 (9453968)	<0.01	0.6	<5	<0.1	12.8	<0.05	3.5	<0.01	4.4	<0.05	8.95	<5	1	<0.5	
E5563760 (9453969)	<0.01	0.5	<5	<0.1	34.5	<0.05	14.6	<0.01	0.9	<0.05	26.5	<5	2	<0.5	
E5563761 (9453970)	0.11	2.2	46	2.5	187	0.51	1.9	0.56	3.5	0.28	0.70	283	1	17.3	
E5563762 (9453971)	0.16	0.7	47	1.9	111	0.46	0.6	0.50	5.0	0.32	0.14	292	<1	18.5	
E5563763 (9453972)	<0.01	0.5	<5	0.5	45.7	0.17	2.5	0.04	29.3	0.10	3.44	8	6	3.8	
E5563764 (9453973)	0.25	0.8	41	1.7	149	0.45	0.7	0.45	9.5	0.30	0.40	248	1	17.2	
E5563765 (9453974)	<0.01	0.7	<5	<0.1	39.8	<0.05	2.3	0.01	3.5	<0.05	4.89	<5	1	<0.5	
E5563766 (9453975)	<0.01	0.2	<5	<0.1	8.0	<0.05	4.7	<0.01	0.7	<0.05	7.92	<5	1	<0.5	
E5563767 (9453976)	<0.01	0.2	<5	0.2	0.9	<0.05	0.8	0.03	<0.5	<0.05	0.19	<5	<1	1.2	
E5563768 (9453977)	<0.01	0.4	<5	<0.1	10.2	<0.05	12.3	<0.01	3.2	<0.05	14.3	<5	3	0.6	
E5563769 (9453978)	<0.01	0.4	<5	<0.1	10.8	<0.05	10.2	<0.01	5.8	<0.05	12.9	<5	3	<0.5	
E5563770 (9453979)	<0.01	0.5	<5	0.2	26.2	<0.05	19.4	<0.01	14.8	<0.05	21.8	<5	5	1.2	
E5563771 (9453980)	<0.01	<0.1	<5	<0.1	29.8	<0.05	17.0	<0.01	14.9	<0.05	22.1	<5	<1	<0.5	
E5563772 (9453981)	<0.01	<0.1	<5	<0.1	24.6	<0.05	8.3	<0.01	8.5	<0.05	11.5	<5	<1	0.6	
E5563773 (9453982)	<0.01	<0.1	<5	<0.1	22.2	<0.05	5.8	<0.01	11.5	<0.05	7.67	<5	<1	<0.5	
E5563774 (9453983)	<0.01	0.4	<5	<0.1	27.6	<0.05	1.4	0.01	17.6	<0.05	4.10	<5	3	<0.5	
E5563775 (9453984)	0.03	10.2	10	45.8	280	3.29	90.8	0.47	12.0	0.31	15.2	64	5	28.1	
E5563776 (9453985)	<0.01	0.5	<5	<0.1	31.5	<0.05	5.4	<0.01	21.5	<0.05	5.65	<5	2	<0.5	
E5563777 (9453986)	0.80	4.8	19	1.5	62.4	0.33	8.1	0.34	3.1	0.21	7.08	156	8	12.6	
E5563778 (9453987)	<0.01	0.5	<5	<0.1	16.4	<0.05	4.1	<0.01	5.5	<0.05	10.4	<5	2	<0.5	
E5563779 (9453988)	<0.01	0.6	<5	0.4	14.4	0.07	5.1	<0.01	3.9	0.07	7.23	<5	1	0.8	
E5563780 (9453989)	0.09	0.3	34	1.5	119	0.36	1.0	0.36	10.5	0.23	0.46	214	21	14.7	
E5563781 (9453990)	0.08	0.2	41	1.7	114	0.43	0.6	0.45	1.9	0.27	0.16	261	37	17.0	
E5563782 (9453991)	0.25	0.1	44	1.8	95.4	0.46	0.4	0.48	0.6	0.29	0.08	280	13	18.4	
E5563783 (9453992)	0.10	0.1	45	1.6	99.6	0.43	0.6	0.51	0.5	0.29	0.09	290	<1	18.0	
E5563784 (9453993)	0.31	0.2	46	1.9	102	0.48	0.5	0.47	<0.5	0.34	0.07	279	2	21.1	

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AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018	DATE RECEIVED: Aug 07, 2018					DATE REPORTED: Sep 13, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563785 (9453994)	0.20	0.2	46	2.0	105	0.47	0.5	0.52	1.6	0.31	0.08	297	<1	19.2	
E5563786 (9453995)	0.15	0.1	41	1.9	112	0.43	0.3	0.50	<0.5	0.25	0.07	282	3	17.2	
E5563787 (9453996)	<0.01	0.2	<5	0.2	<0.1	<0.05	0.6	0.03	<0.5	<0.05	0.17	<5	<1	1.2	
E5563788 (9453997)	0.07	0.1	43	1.8	103	0.44	0.3	0.47	<0.5	0.29	0.07	279	<1	18.9	
E5563789 (9453998)	0.11	<0.1	44	1.8	122	0.43	0.3	0.50	<0.5	0.30	0.07	276	<1	18.4	
E5563790 (9453999)	0.15	<0.1	43	1.9	102	0.43	0.3	0.49	<0.5	0.31	0.07	282	<1	18.5	
E5563791 (9454000)	0.16	0.2	44	1.8	76.5	0.47	0.4	0.51	<0.5	0.28	0.08	297	<1	18.2	
E5563792 (9454001)	0.03	27.6	8	18.2	191	1.41	106	0.36	7.7	0.23	22.6	75	13	18.7	
E5563793 (9454002)	0.12	0.1	39	1.7	62.3	0.41	0.7	0.48	<0.5	0.27	0.06	269	<1	15.8	
E5563794 (9454003)	0.70	0.3	49	2.0	59.2	0.55	0.3	0.41	<0.5	0.43	0.08	261	<1	24.7	
E5563795 (9454004)	0.36	0.2	44	1.9	78.8	0.48	0.3	0.47	1.1	0.31	0.08	269	<1	19.9	
E5563796 (9454005)	0.11	0.2	45	1.9	88.9	0.48	0.3	0.50	0.9	0.31	0.07	292	<1	18.6	
E5563797 (9454006)	<0.01	<0.1	<5	<0.1	48.0	<0.05	1.3	<0.01	29.6	<0.05	3.41	<5	<1	<0.5	
E5563798 (9454007)	<0.01	0.2	<5	<0.1	23.6	<0.05	2.6	<0.01	13.8	<0.05	3.49	<5	<1	<0.5	
E5563799 (9454008)	0.01	0.3	<5	<0.1	37.5	<0.05	3.1	<0.01	20.3	<0.05	6.82	<5	1	<0.5	
E5563800 (9454009)	0.19	0.5	47	2.0	74.3	0.53	0.6	0.52	2.2	0.36	0.16	307	1	21.5	
E5563801 (9454010)	0.61	0.4	45	2.1	63.5	0.54	0.4	0.42	<0.5	0.39	0.08	251	<1	22.9	
E5563802 (9454011)	0.06	0.2	46	2.0	91.3	0.46	0.4	0.53	<0.5	0.29	0.08	297	1	18.6	
E5563803 (9454012)	0.30	0.3	44	2.1	50.8	0.48	0.3	0.47	<0.5	0.33	0.07	272	<1	20.6	
E5563804 (9454013)	0.35	0.3	41	1.9	73.9	0.46	0.8	0.49	<0.5	0.29	0.11	283	<1	19.4	
E5563805 (9454014)	0.30	0.4	40	1.9	73.0	0.47	0.4	0.46	<0.5	0.31	0.07	254	1	20.8	
E5563806 (9454015)	0.26	0.4	42	1.8	84.9	0.47	0.3	0.48	0.5	0.28	0.08	278	<1	18.4	
E5563807 (9454016)	<0.01	0.2	<5	0.2	<0.1	<0.05	0.6	0.03	<0.5	<0.05	0.18	<5	<1	1.2	
E5563808 (9454017)	0.11	0.2	45	2.6	66.3	0.68	0.5	0.72	3.1	0.41	0.15	344	<1	24.8	
E5563809 (9454018)	<0.01	0.2	<5	0.1	25.2	<0.05	2.6	0.02	3.0	<0.05	3.40	6	<1	0.7	
E5563810 (9454019)	0.08	0.2	45	2.7	58.7	0.64	0.6	0.69	1.7	0.39	0.13	344	2	25.1	

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AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563721 (9453930)		2.8	109	40.7
E5563722 (9453931)		2.6	94	41.7
E5563723 (9453932)		0.5	12	13.1
E5563724 (9453933)		2.2	88	40.0
E5563725 (9453934)		2.3	81	39.7
E5563726 (9453935)		1.9	76	44.7
E5563727 (9453936)		2.0	93	45.8
E5563728 (9453937)		0.9	56	27.9
E5563729 (9453938)		0.1	<5	25.2
E5563730 (9453939)		2.1	99	51.4
E5563731 (9453940)		2.4	74	39.8
E5563732 (9453941)		2.3	88	48.7
E5563733 (9453942)		<0.1	36	10.8
E5563734 (9453943)		4.5	192	82.7
E5563735 (9453944)		2.2	84	36.7
E5563736 (9453945)		<0.1	33	8.2
E5563737 (9453946)		1.4	378	170
E5563738 (9453947)		1.9	79	27.4
E5563739 (9453948)		1.5	73	16.6
E5563740 (9453949)		2.0	113	48.9
E5563741 (9453950)		1.8	85	40.1
E5563742 (9453951)		1.7	95	42.6
E5563743 (9453952)		2.0	82	49.3
E5563744 (9453953)		1.7	108	47.1
E5563745 (9453954)		1.6	508	135
E5563746 (9453955)		1.7	106	154
E5563747 (9453956)		1.5	43	156
E5563748 (9453957)		0.1	<5	23.6
E5563749 (9453958)		0.2	21	11.8
E5563750 (9453959)		<0.1	117	4.5
E5563751 (9453960)		<0.1	216	4.8
E5563752 (9453961)		<0.1	165	8.5

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563753 (9453962)		1.8	145	213
E5563754 (9453963)		<0.1	106	16.0
E5563755 (9453964)		<0.1	56	12.8
E5563756 (9453965)		0.1	109	16.9
E5563757 (9453966)		<0.1	9	22.9
E5563758 (9453967)		0.3	21	19.2
E5563759 (9453968)		<0.1	28	15.7
E5563760 (9453969)		<0.1	16	59.2
E5563761 (9453970)		2.0	150	56.6
E5563762 (9453971)		2.1	107	46.0
E5563763 (9453972)		0.3	275	7.0
E5563764 (9453973)		1.9	137	41.3
E5563765 (9453974)		<0.1	30	13.3
E5563766 (9453975)		<0.1	5	8.4
E5563767 (9453976)		0.2	<5	25.5
E5563768 (9453977)		<0.1	35	15.1
E5563769 (9453978)		<0.1	50	12.2
E5563770 (9453979)		0.2	95	22.8
E5563771 (9453980)		<0.1	110	23.2
E5563772 (9453981)		<0.1	72	14.6
E5563773 (9453982)		<0.1	62	13.3
E5563774 (9453983)		<0.1	92	5.9
E5563775 (9453984)		1.8	147	207
E5563776 (9453985)		<0.1	75	23.3
E5563777 (9453986)		1.4	86	56.4
E5563778 (9453987)		<0.1	25	24.0
E5563779 (9453988)		0.2	27	24.7
E5563780 (9453989)		1.5	123	34.1
E5563781 (9453990)		1.8	100	41.1
E5563782 (9453991)		1.9	85	43.2
E5563783 (9453992)		1.9	93	39.8
E5563784 (9453993)		2.2	84	42.8

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AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563785 (9453994)		1.9	98	45.2
E5563786 (9453995)		1.7	76	42.6
E5563787 (9453996)		0.1	5	23.2
E5563788 (9453997)		1.8	91	42.3
E5563789 (9453998)		2.0	119	42.4
E5563790 (9453999)		1.9	82	43.0
E5563791 (9454000)		1.9	80	45.0
E5563792 (9454001)		1.5	375	159
E5563793 (9454002)		1.6	64	41.6
E5563794 (9454003)		2.7	84	41.4
E5563795 (9454004)		2.1	91	42.6
E5563796 (9454005)		2.0	84	44.4
E5563797 (9454006)		<0.1	97	5.2
E5563798 (9454007)		<0.1	38	5.3
E5563799 (9454008)		<0.1	51	6.4
E5563800 (9454009)		2.2	131	46.1
E5563801 (9454010)		2.5	84	38.9
E5563802 (9454011)		1.9	81	46.8
E5563803 (9454012)		2.1	103	42.1
E5563804 (9454013)		2.0	100	42.4
E5563805 (9454014)		2.0	105	38.9
E5563806 (9454015)		2.0	108	40.9
E5563807 (9454016)		0.1	<5	25.3
E5563808 (9454017)		2.7	112	68.2
E5563809 (9454018)		<0.1	14	6.0
E5563810 (9454019)		2.5	99	65.8

Comments: RDL - Reported Detection Limit

Certified By:



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AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Sieving - % Passing (Crushing)

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
E5563721 (9453930)	90.4

Comments: RDL - Reported Detection Limit

Certified By:



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AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Aug 07, 2018

DATE RECEIVED: Aug 07, 2018

DATE REPORTED: Sep 13, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563721 (9453930)		89
E5563752 (9453961)		8.2
E5563784 (9453993)		11.2

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

(201-049) Specific Gravity by Pycnometer

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9453930	3.22	3.23	0.3%	9453941	3.12	3.11	0.3%	9453954	2.92	2.91	0.3%	9453965	2.81	2.79	0.7%
Parameter	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9453981	2.90	2.90	0.0%	9453994	3.09	3.05	1.3%	9454002	3.09	3.07	0.6%	9454013	3.12	3.14	0.6%

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9453930	351	351	0.0%	9453941	416	434	4.2%	9453953	342	411	18.3%	9453965	11600	11700	0.9%
Li2O	9453930	0.0755	0.0755	0.0%	9453941	0.090	0.093	3.3%	9453953	0.074	0.088	17.3%	9453965	2.50	2.53	1.2%
Ta	9453981	224	227	1.3%	9453982	194	148	26.9%	9453953	< 0.5	< 0.5	0.0%	9453965	79.0	75.1	5.1%
Nb	9453981	143	123	15.0%	9453982	114	96	17.1%	9453953	2	1	66.7%	9453965	59	59	0.0%
Sn	9453981	17	16	6.1%	9453982	29	29	0.0%	9453953	3	2	40.0%	9453965	44	44	0.0%
Cs	9453981	286	226	23.4%	9453982	755	741	1.9%	9453953	34.4	44	24.5%	9453965	533	529	0.8%
Rb	9453981	1148	1044	9.5%	9453982	1310	1290	1.5%	9453953	32.4	57	55.0%	9453965	2390	2380	0.4%
K	9453930	0.309	0.295	4.6%	9453941	1.16	1.21	4.2%	9453953	0.59	0.69	15.6%	9453965	1.40	1.42	1.4%
Mg	9453930	3.34	3.28	1.8%	9453941	1.93	1.97	2.1%	9453953	2.07	2.9	33.4%	9453965	0.11	0.11	0.0%
Fe	9453930	18.1	17.8	1.7%	9453941	10.7	10.9	1.9%	9453953	5.58	6.9	21.2%	9453965	0.81	0.80	1.2%
P	9453930	0.03	0.03	0.0%	9453941	0.03	0.03	0.0%	9453953	0.03	0.02	40.0%	9453965	0.28	0.28	0.0%
Al	9453930	7.19	7.21	0.3%	9453941	9.08	9.26	2.0%	9453953	9.24	8.5	8.3%	9453965	9.09	9.06	0.3%
Si	9453930	18.5	18.9	2.1%	9453941	20.9	21.5	2.8%	9453953	23.8	22.2	7.0%	9453965	30.2	30.5	1.0%
Be	9453981	76	97	24.3%	9453982	297	304	2.3%	9453953	< 5	< 5	0.0%	9453965	28	27	3.6%
B	9453930	27	22	20.4%	9453941	< 20	< 20	0.0%	9453953	< 20	< 20	0.0%	9453965	< 20	< 20	0.0%
Mn	9453930	5160	5010	2.9%	9453941	2850	2830	0.7%	9453953	1220	1170	4.2%	9453965	1370	1380	0.7%
Mo	9453981	3	3	0.0%	9453982	4	4	0.0%	9453953	2	2	0.0%	9453965	7	6	15.4%
Bi	9453981	0.7	0.7	0.0%	9453982	0.7	0.7	0.0%	9453953	0.1	0.1	0.0%	9453965	2.5	2.5	0.0%
As	9453981	< 5	< 5	0.0%	9453982	< 5	< 5	0.0%	9453953	< 5	< 5	0.0%	9453965	< 5	< 5	0.0%
Ag	9453981	< 1	< 1	0.0%	9453982	< 1	< 1	0.0%	9453953	< 1	< 1	0.0%	9453965	< 1	< 1	0.0%
Ba	9453930	19.3	16.0	18.7%	9453941	213	211	0.9%	9453953	175	160	9.0%	9453965	25.2	25.4	0.8%
Ca	9453930	6.20	6.15	0.8%	9453941	6.45	6.62	2.6%	9453953	6.36	5.8	9.2%	9453965	0.714	0.737	3.2%
Cd	9453981	0.2	0.2	0.0%	9453982	< 0.2	< 0.2	0.0%	9453953	0.3	0.2	40.0%	9453965	0.5	0.4	22.2%
Ce	9453981	1.0	0.7	35.3%	9453982	0.6	0.8	28.6%	9453953	8.3	13.6	48.4%	9453965	1.8	1.8	0.0%



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Co	9453981	< 0.5	< 0.5	0.0%	9453982	0.54	0.57	5.4%	9453953	62.0	39.0	45.5%	9453965	1.23	1.05	15.8%
Cr	9453930	0.0272	0.0264	3.0%	9453941	0.037	0.037	0.0%	9453953	0.036	0.05	32.6%	9453965	< 0.005	< 0.005	0.0%
Cu	9453930	227	235	3.5%	9453941	86	83	3.6%	9453953	168	139	18.9%	9453965	< 5	< 5	0.0%
Dy	9453981	0.07	< 0.05		9453982	< 0.05	< 0.05	0.0%	9453953	2.76	3.48	23.1%	9453965	0.23	0.21	9.1%
Er	9453981	< 0.05	< 0.05	0.0%	9453982	< 0.05	< 0.05	0.0%	9453953	1.70	1.90	11.1%	9453965	0.08	0.12	
Eu	9453981	< 0.05	< 0.05	0.0%	9453982	< 0.05	< 0.05	0.0%	9453953	0.76	0.98	25.3%	9453965	< 0.05	< 0.05	0.0%
Ga	9453981	53.0	48.6	8.7%	9453982	70.5	70.0	0.7%	9453953	17.7	20.2	13.2%	9453965	70.1	69.4	1.0%
Gd	9453981	0.06	< 0.05		9453982	< 0.05	< 0.05	0.0%	9453953	2.58	3.8	38.2%	9453965	0.191	0.210	9.5%
Ge	9453981	7	6	15.4%	9453982	6	6	0.0%	9453953	< 1	< 1	0.0%	9453965	6	6	0.0%
Hf	9453981	2	2	0.0%	9453982	2	1		9453953	1	< 1		9453965	2	2	0.0%
Ho	9453981	< 0.05	< 0.05	0.0%	9453982	< 0.05	< 0.05	0.0%	9453953	0.59	0.80	30.2%	9453965	< 0.05	< 0.05	0.0%
In	9453981	< 0.2	< 0.2	0.0%	9453982	< 0.2	< 0.2	0.0%	9453953	< 0.2	< 0.2	0.0%	9453965	< 0.2	< 0.2	0.0%
La	9453981	0.5	0.3		9453982	0.34	0.43	23.4%	9453953	3.7	5.6	40.9%	9453965	1.1	1.1	0.0%
Lu	9453981	< 0.05	< 0.05	0.0%	9453982	< 0.05	< 0.05	0.0%	9453953	0.27	0.50	59.7%	9453965	< 0.05	< 0.05	0.0%
Nd	9453981	0.4	0.2		9453982	0.2	0.3		9453953	6.44	6.48	0.6%	9453965	0.7	0.7	0.0%
Ni	9453930	146	138	5.6%	9453941	189	186	1.6%	9453953	158	119	28.2%	9453965	11	7	
Pb	9453981	< 5	< 5	0.0%	9453982	< 5	< 5	0.0%	9453953	27	30	10.5%	9453965	< 5	< 5	0.0%
Pr	9453981	0.08	< 0.05		9453982	< 0.05	0.08		9453953	1.25	1.67	28.8%	9453965	0.22	0.21	4.7%
S	9453930	0.52	0.52	0.0%	9453941	0.11	0.11	0.0%	9453953	0.12	0.30	85.7%	9453965	< 0.01	< 0.01	0.0%
Sb	9453981	< 0.1	< 0.1	0.0%	9453982	< 0.1	< 0.1	0.0%	9453953	0.1	0.1	0.0%	9453965	0.6	0.6	0.0%
Sc	9453930	42	41	2.4%	9453941	51	51	0.0%	9453953	45	50	10.5%	9453965	< 5	< 5	0.0%
Sm	9453981	< 0.1	< 0.1	0.0%	9453982	< 0.1	< 0.1	0.0%	9453953	2.0	1.0	66.7%	9453965	0.2	0.2	0.0%
Sr	9453930	18.9	17.4	8.3%	9453941	149	149	0.0%	9453953	332	453	30.8%	9453965	33.9	35.4	4.3%
Tb	9453981	< 0.05	< 0.05	0.0%	9453982	< 0.05	< 0.05	0.0%	9453953	0.42	0.54	25.0%	9453965	< 0.05	< 0.05	0.0%
Th	9453981	8.30	7.44	10.9%	9453982	5.81	6.01	3.4%	9453953	0.3	0.78	88.9%	9453965	5.6	5.4	3.6%
Ti	9453930	0.415	0.410	1.2%	9453941	0.55	0.56	1.8%	9453953	0.54	0.8	38.8%	9453965	0.01	0.01	0.0%
Tl	9453981	8.5	9.0	5.7%	9453982	11.5	11.6	0.9%	9453953	< 0.5	< 0.5	0.0%	9453965	18.7	18.8	0.5%
Tm	9453981	< 0.05	< 0.05	0.0%	9453982	< 0.05	< 0.05	0.0%	9453953	0.27	0.5	59.7%	9453965	< 0.05	< 0.05	0.0%
U	9453981	11.5	11.1	3.5%	9453982	7.67	7.40	3.6%	9453953	0.10	0.27	91.9%	9453965	6.86	6.62	3.6%
V	9453930	245	242	1.2%	9453941	314	307	2.3%	9453953	288	229	22.8%	9453965	6	6	0.0%
W	9453981	< 1	< 1	0.0%	9453982	< 1	< 1	0.0%	9453953	< 1	< 1	0.0%	9453965	4	4	0.0%
Y	9453981	0.6	< 0.5		9453982	< 0.5	0.5		9453953	15.1	20	27.9%	9453965	1.4	1.4	0.0%
Yb	9453981	< 0.1	< 0.1	0.0%	9453982	< 0.1	< 0.1	0.0%	9453953	1.7	2.0	16.2%	9453965	0.1	0.1	0.0%
Zn	9453930	109	111	1.8%	9453941	88	89	1.1%	9453953	108	120	10.5%	9453965	109	107	1.9%



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Zr	9453981	14.6	13.8	5.6%	9453982	13.3	13.9	4.4%	9453953	47.1	39.3	18.1%	9453965	16.9	12.1	
	REPLICATE #5				REPLICATE #6				REPLICATE #7							
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Li	9453994	243	241	0.8%	9454002	763	681	11.4%	9454013	398	401	0.8%				
Li2O	9453994	0.052	0.052	0.0%	9454002	0.164	0.147	10.9%	9454013	0.086	0.086	0.0%				
Ta	9453994	< 0.5	< 0.5	0.0%	9454002	< 0.5	< 0.5	0.0%	9454013	< 0.5	< 0.5	0.0%				
Nb	9453994	2	2	0.0%	9454002	10	7	35.3%	9454013	2	2	0.0%				
Sn	9453994	2	5		9454002	5	3	50.0%	9454013	1	1	0.0%				
Cs	9453994	208	201	3.4%	9454002	29.7	22.4	28.0%	9454013	35.6	34.6	2.8%				
Rb	9453994	137	136	0.7%	9454002	39.5	35.2	11.5%	9454013	59.8	58.9	1.5%				
K	9453994	0.224	0.231	3.1%	9454002	0.25	0.24	4.1%	9454013	0.59	0.60	1.7%				
Mg	9453994	2.68	2.65	1.1%	9454002	2.29	2.18	4.9%	9454013	2.69	2.64	1.9%				
Fe	9453994	8.41	8.41	0.0%	9454002	7.81	7.60	2.7%	9454013	11.1	11.1	0.0%				
P	9453994	0.036	0.029	21.5%	9454002	0.02	0.04		9454013	0.026	0.024	8.0%				
Al	9453994	8.91	8.94	0.3%	9454002	8.30	8.17	1.6%	9454013	8.34	8.38	0.5%				
Si	9453994	22.7	22.7	0.0%	9454002	23.2	23.3	0.4%	9454013	22.1	22.1	0.0%				
Be	9453994	< 5	< 5	0.0%	9454002	< 5	< 5	0.0%	9454013	< 5	< 5	0.0%				
B	9453994	< 20	< 20	0.0%	9454002	< 20	< 20	0.0%	9454013	20	21	4.9%				
Mn	9453994	1740	1750	0.6%	9454002	1990	2010	1.0%	9454013	2760	2690	2.6%				
Mo	9453994	< 2	< 2	0.0%	9454002	< 2	< 2	0.0%	9454013	< 2	< 2	0.0%				
Bi	9453994	0.35	0.40	13.3%	9454002	0.3	0.2		9454013	0.4	0.4	0.0%				
As	9453994	< 5	< 5	0.0%	9454002	< 5	< 5	0.0%	9454013	< 5	< 5	0.0%				
Ag	9453994	< 1	< 1	0.0%	9454002	< 1	< 1	0.0%	9454013	< 1	< 1	0.0%				
Ba	9453994	99.4	100	0.6%	9454002	375	363	3.3%	9454013	86.1	85.1	1.2%				
Ca	9453994	7.60	7.84	3.1%	9454002	7.12	7.45	4.5%	9454013	6.88	6.98	1.4%				
Cd	9453994	0.30	0.23	26.4%	9454002	< 0.2	< 0.2	0.0%	9454013	< 0.2	0.3					
Ce	9453994	8.5	8.1	4.8%	9454002	6.4	6.2	3.2%	9454013	8.4	9.1	8.0%				
Co	9453994	59.9	58.2	2.9%	9454002	50.1	48.8	2.6%	9454013	49.3	47.5	3.7%				
Cr	9453994	0.0344	0.0346	0.6%	9454002	0.0317	0.0310	2.2%	9454013	0.0327	0.0321	1.9%				
Cu	9453994	156	156	0.0%	9454002	97	95	2.1%	9454013	224	213	5.0%				
Dy	9453994	3.21	3.14	2.2%	9454002	2.69	2.63	2.3%	9454013	3.14	3.13	0.3%				
Er	9453994	2.04	2.06	1.0%	9454002	1.78	1.74	2.3%	9454013	1.91	1.89	1.1%				
Eu	9453994	0.732	0.674	8.3%	9454002	0.71	1.35		9454013	0.684	0.740	7.9%				
Ga	9453994	18.6	18.2	2.2%	9454002	17.1	16.3	4.8%	9454013	17.1	17.0	0.6%				



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Gd	9453994	2.69	2.82	4.7%	9454002	2.21	2.35	6.1%	9454013	2.64	2.60	1.5%			
Ge	9453994	2	2	0.0%	9454002	1	1	0.0%	9454013	1	1	0.0%			
Hf	9453994	1	1	0.0%	9454002	1	1	0.0%	9454013	1	1	0.0%			
Ho	9453994	0.70	0.69	1.4%	9454002	0.574	0.579	0.9%	9454013	0.69	0.66	4.4%			
In	9453994	< 0.2	< 0.2	0.0%	9454002	< 0.2	< 0.2	0.0%	9454013	< 0.2	< 0.2	0.0%			
La	9453994	3.41	3.21	6.0%	9454002	2.4	2.4	0.0%	9454013	3.6	3.9	8.0%			
Lu	9453994	0.307	0.293	4.7%	9454002	0.249	0.242	2.9%	9454013	0.293	0.284	3.1%			
Nd	9453994	6.4	6.1	4.8%	9454002	5.2	5.0	3.9%	9454013	6.13	6.29	2.6%			
Ni	9453994	153	154	0.7%	9454002	125	127	1.6%	9454013	131	126	3.9%			
Pb	9453994	< 5	6		9454002	< 5	< 5	0.0%	9454013	< 5	< 5	0.0%			
Pr	9453994	1.36	1.25	8.4%	9454002	1.03	0.99	4.0%	9454013	1.26	1.36	7.6%			
S	9453994	0.20	0.20	0.0%	9454002	0.12	0.12	0.0%	9454013	0.35	0.34	2.9%			
Sb	9453994	0.2	0.1		9454002	0.1	0.1	0.0%	9454013	0.3	0.3	0.0%			
Sc	9453994	46	46	0.0%	9454002	39	39	0.0%	9454013	41	40	2.5%			
Sm	9453994	2.0	2.0	0.0%	9454002	1.71	1.63	4.8%	9454013	1.9	2.0	5.1%			
Sr	9453994	105	108	2.8%	9454002	62.3	61.4	1.5%	9454013	73.9	71.6	3.2%			
Tb	9453994	0.474	0.490	3.3%	9454002	0.408	0.401	1.7%	9454013	0.462	0.452	2.2%			
Th	9453994	0.47	0.40	16.1%	9454002	0.7	0.4		9454013	0.79	0.64	21.0%			
Ti	9453994	0.52	0.52	0.0%	9454002	0.475	0.467	1.7%	9454013	0.49	0.49	0.0%			
Tl	9453994	1.6	1.6	0.0%	9454002	< 0.5	< 0.5	0.0%	9454013	< 0.5	< 0.5	0.0%			
Tm	9453994	0.31	0.30	3.3%	9454002	0.265	0.254	4.2%	9454013	0.29	0.28	3.5%			
U	9453994	0.08	0.08	0.0%	9454002	0.06	0.06	0.0%	9454013	0.11	0.12	8.7%			
V	9453994	297	299	0.7%	9454002	269	263	2.3%	9454013	283	274	3.2%			
W	9453994	< 1	1		9454002	< 1	< 1	0.0%	9454013	< 1	< 1	0.0%			
Y	9453994	19.2	18.9	1.6%	9454002	15.8	15.5	1.9%	9454013	19.4	18.9	2.6%			
Yb	9453994	1.94	2.03	4.5%	9454002	1.6	1.6	0.0%	9454013	1.97	1.80	9.0%			
Zn	9453994	98	94	4.2%	9454002	64	60	6.5%	9454013	100	100	0.0%			
Zr	9453994	45.2	44.9	0.7%	9454002	41.6	39.7	4.7%	9454013	42.4	42.2	0.5%			



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(201-049) Specific Gravity by Pycnometer

Parameter	CRM #1				CRM #2				CRM #3				CRM #4			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.65	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.63	99%	95% - 110%	2.65	2.65	100%	95% - 110%
Parameter	CRM #5				CRM #6				CRM #7				CRM #8			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.65	100%	95% - 110%	2.65	2.65	100%	95% - 110%	2.65	2.65	100%	95% - 110%	2.65	2.65	100%	95% - 110%

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GBM998-10)				CRM #4 (ref.SY-4)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	40.5	109%	90% - 110%	47	50	106%	90% - 110%					37	39	105%	90% - 110%
Ta	0.9	1	108%	90% - 110%	1.9	1.6	84%	90% - 110%					0.9	0.7	77%	90% - 110%
Nb	13	12	92%	90% - 110%	20	20	100%	90% - 110%					13	13	100%	90% - 110%
Sn	7.1	7.8	110%	90% - 110%									7.1	7	98%	90% - 110%
Cs	1.5	1.5	100%	90% - 110%												
Rb	55	53	96%	90% - 110%	144	148	102%	90% - 110%					55	58	105%	90% - 110%
K	1.37	1.50	109%	90% - 110%	2.55	2.56	100%	90% - 110%					1.37	1.45	105%	90% - 110%
Mg	0.325	0.318	98%	90% - 110%	1.1	1.1	100%	90% - 110%					0.325	0.316	97%	90% - 110%
Fe	4.34	4.41	102%	90% - 110%	3.77	3.9	103%	90% - 110%					4.34	4.35	100%	90% - 110%
Al	10.95	11.05	101%	90% - 110%	8.47	8.42	99%	90% - 110%					10.95	11.09	101%	90% - 110%
Si	23.3	21.5	92%	90% - 110%	28.4	26.3	92%	90% - 110%					23.3	21.4	91%	90% - 110%
Be	2.6	2.8	109%	90% - 110%	4.0	3.6	90%	90% - 110%					2.6	3.22	123%	90% - 110%
Mn	836	849	102%	90% - 110%	780	763	97%	90% - 110%					836	804	96%	90% - 110%
Mo					14	14	100%	90% - 110%								
As					26	25	96%	90% - 110%	25	25	98%	90% - 110%				
Ba	340	344	101%	90% - 110%	540	520	96%	90% - 110%					340	334	98%	90% - 110%
Ca	5.72	5.86	103%	90% - 110%	0.907	0.954	105%	90% - 110%					5.72	5.71	99%	90% - 110%
Ce	122	122	100%	90% - 110%	98	100	102%	90% - 110%					122	129	105%	90% - 110%
Co	2.8	2.52	90%	90% - 110%	15	15	97%	90% - 110%	1202	1310	109%	90% - 110%	2.8	2.4	85%	90% - 110%
Cu	7	5	73%	90% - 110%	150	151	101%	90% - 110%	15414	14405	93%	90% - 110%				
Dy	18.2	19.9	110%	90% - 110%									18.2	19.4	106%	90% - 110%
Er	14.2	15.2	107%	90% - 110%	3.7	4	109%	90% - 110%					14.2	14.7	103%	90% - 110%
Eu	2.0	2	98%	90% - 110%									2.0	1.9	95%	90% - 110%
Ga	35	36	103%	90% - 110%									35	37	105%	90% - 110%



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Gd	14	15	106%	90% - 110%									14	15	107%	90% - 110%
Hf	10.6	10.7	101%	90% - 110%	11	9.98	90%	90% - 110%					10.6	11.6	109%	90% - 110%
Ho	4.3	4.7	110%	90% - 110%									4.3	4.4	102%	90% - 110%
La	58	58	100%	90% - 110%	44	44	100%	90% - 110%					58	58	100%	90% - 110%
Lu	2.1	2.3	107%	90% - 110%	0.6	0.6	100%	90% - 110%					2.1	2.1	100%	90% - 110%
Nd	57	55	96%	90% - 110%									57	60	105%	90% - 110%
Ni	9	10	111%	90% - 110%					23610	21882	93%	90% - 110%	9	8	88%	90% - 110%
Pb	10	9	95%	90% - 110%	31	32	103%	90% - 110%	41	42	103%	90% - 110%	10	10	100%	90% - 110%
Pr	15.0	15.4	103%	90% - 110%									15.0	16	106%	90% - 110%
Sb					0.8	0.8	100%	90% - 110%								
Sc	1.1	0.9	79%	90% - 110%	12	12	100%	90% - 110%					1.1	0.8	72%	90% - 110%
Sm	12.7	12.8	100%	90% - 110%	7.4	7.9	106%	90% - 110%					12.7	13.1	103%	90% - 110%
Sr	1191	1191	100%	90% - 110%	144	143	99%	90% - 110%					1191	1181	99%	90% - 110%
Tb	2.6	2.8	109%	90% - 110%	1.2	1.3	108%	90% - 110%					2.6	2.8	107%	90% - 110%
Th	1.4	1.3	91%	90% - 110%	18.4	18.4	100%	90% - 110%					1.4	1.5	107%	90% - 110%
Ti	0.172	0.168	98%	90% - 110%	0.527	0.503	95%	90% - 110%					0.172	0.165	95%	90% - 110%
Tm	2.3	2.4	105%	90% - 110%									2.3	2.3	100%	90% - 110%
U	0.8	0.7	92%	90% - 110%	5.7	5.5	96%	90% - 110%					0.8	0.8	100%	90% - 110%
V	8	6	70%	90% - 110%	77	77	100%	90% - 110%								
W					5	5	100%	90% - 110%								
Y	119	118	99%	90% - 110%	40	38	95%	90% - 110%					119	124	104%	90% - 110%
Yb	14.8	16.2	109%	90% - 110%									14.8	14.8	100%	90% - 110%
Zn	93	94	102%	90% - 110%	130	129	99%	90% - 110%	90	89	99%	90% - 110%	93	96	103%	90% - 110%
Zr	517	566	110%	90% - 110%	390	352	90%	90% - 110%					517	567	109%	90% - 110%
CRM #5 (ref.GBM998-10)																
Parameter	Expect	Actual	Recovery	Limits												
As	25	27	110%	90% - 110%												
Ag		1.9807		90% - 110%												
Cd		1.53383		90% - 110%												
Co	1202	1310	109%	90% - 110%												
Cu	15414	14755	96%	90% - 110%												
In		-0.01856		90% - 110%												
Ni	23610	22573	96%	90% - 110%												
Pb	41	45	109%	90% - 110%												



AGAT Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18B371121

PROJECT: 18B371121

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Peter Spitalny

Zn	90	94	104%	90% - 110%													
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Method Summary

CLIENT NAME: ARDIDEN LTD
 PROJECT: 18B371121
 SAMPLING SITE:

AGAT WORK ORDER: 18B371121
 ATTENTION TO: Peter Spitalny
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

PROJECT: 18B371121

SAMPLING SITE:

AGAT WORK ORDER: 18B371121

ATTENTION TO: Peter Spitalny

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Brad Boyle

PROJECT:

AGAT WORK ORDER: 18B373339

SOLID ANALYSIS REVIEWED BY: Adel Mina, Mining Chief Chemist

DATE REPORTED: Sep 12, 2018

PAGES (INCLUDING COVER): 48

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 13, 2018 DATE RECEIVED: Aug 14, 2018 DATE REPORTED: Sep 12, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563811 (9469837)		2.87
E5563812 (9469838)		2.86
E5563813 (9469839)		2.92
E5563814 (9469840)		2.79
E5563815 (9469841)		0.05
E5563816 (9469842)		2.89
E5563817 (9469843)		2.99
E5563818 (9469844)		2.07
E5563819 (9469845)		1.82
E5563820 (9469846)		2.59
E5563821 (9469847)		3.04
E5563822 (9469848)		2.89
E5563823 (9469849)		2.84
E5563824 (9469850)		2.86
E5563825 (9469851)		2.87
E5563826 (9469852)		1.95
E5563827 (9469853)		0.05
E5563828 (9469854)		2.86
E5563829 (9469855)		2.71
E5563830 (9469856)		2.81
E5563831 (9469857)		2.75
E5563832 (9469858)		0.05
E5563833 (9469859)		2.72
E5563834 (9469860)		2.70
E5563835 (9469861)		1.38
E5563836 (9469862)		1.30
E5563837 (9469863)		2.23
E5563838 (9469864)		1.44
E5563839 (9469865)		2.03
E5563840 (9469866)		1.85
E5563841 (9469867)		1.65

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 13, 2018 DATE RECEIVED: Aug 14, 2018 DATE REPORTED: Sep 12, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563842 (9469868)		1.70
E5563843 (9469869)		1.08
E5563844 (9469870)		1.05
E5563845 (9469871)		1.50
E5563846 (9469872)		1.20
E5563847 (9469873)		0.05
E5563848 (9469874)		2.43
E5563849 (9469875)		2.91
E5563850 (9469876)		3.02
E5563851 (9469877)		2.90
E5563852 (9469878)		2.82
E5563853 (9469879)		2.95
E5563854 (9469880)		2.63
E5563855 (9469881)		0.05
E5563856 (9469882)		3.00
E5563857 (9469883)		3.08
E5563858 (9469884)		3.03
E5563859 (9469885)		2.80
E5563860 (9469886)		2.95
E5563861 (9469887)		2.92
E5563862 (9469888)		1.73
E5563863 (9469889)		2.41
E5563864 (9469890)		2.12
E5563865 (9469891)		2.93
E5563866 (9469892)		3.01
E5563867 (9469893)		0.05
E5563868 (9469894)		2.99
E5563869 (9469895)		2.81
E5563870 (9469896)		2.79
E5563871 (9469897)		2.80
E5563872 (9469898)		0.05

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Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 13, 2018 DATE RECEIVED: Aug 14, 2018 DATE REPORTED: Sep 12, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563873 (9469899)		2.69
E5563874 (9469900)		2.82
E5563875 (9469901)		1.29
E5563876 (9469902)		1.28
E5563877 (9469903)		2.77
E5563878 (9469904)		2.80
E5563879 (9469905)		3.00
E5563880 (9469906)		1.71
E5563881 (9469907)		0.81
E5563882 (9469908)		1.52
E5563883 (9469909)		1.68
E5563884 (9469910)		1.92
E5563885 (9469911)		1.72
E5563886 (9469912)		1.77
E5563887 (9469913)		0.05
E5563888 (9469914)		2.27
E5563889 (9469915)		1.22
E5563890 (9469916)		1.62
E5563891 (9469917)		2.60
E5563892 (9469918)		2.86
E5563893 (9469919)		2.86
E5563894 (9469920)		2.22
E5563895 (9469921)		0.05
E5563896 (9469922)		1.14
E5563897 (9469923)		2.56
E5563898 (9469924)		2.70
E5563899 (9469925)		2.69
E5563900 (9469926)		2.96
E5563901 (9469927)		2.79
E5563902 (9469928)		2.90
E5563903 (9469929)		2.90

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AGAT WORK ORDER: 18B373339

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 13, 2018 DATE RECEIVED: Aug 14, 2018 DATE REPORTED: Sep 12, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563904 (9469930)		2.80
E5563905 (9469931)		2.84
E5563906 (9469932)		2.80
E5563907 (9469933)		0.05
E5563908 (9469934)		2.84
E5563909 (9469935)		2.85
E5563910 (9469936)		2.82
E5563911 (9469937)		1.54
E5563912 (9469938)		0.05
E5563913 (9469939)		1.65
E5563914 (9469940)		3.02
E5563915 (9469941)		0.89
E5563916 (9469942)		0.90
E5563917 (9469943)		1.86
E5563918 (9469944)		3.05
E5563919 (9469945)		2.74
E5563920 (9469946)		2.89
E5563921 (9469947)		2.86
E5563922 (9469948)		2.83
E5563923 (9469949)		2.78
E5563924 (9469950)		2.25
E5563925 (9469951)		0.96
E5563926 (9469952)		0.51
E5563927 (9469953)		0.05
E5563928 (9469954)		1.45
E5563929 (9469955)		1.06
E5563930 (9469956)		2.27
E5563931 (9469957)		3.06
E5563932 (9469958)		2.89
E5563933 (9469959)		2.94
E5563934 (9469960)		2.91

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AGAT WORK ORDER: 18B373339

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5563935 (9469961)		0.05
E5563936 (9469962)		2.90
E5563937 (9469963)		1.99

Comments: RDL - Reported Detection Limit

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563811 (9469837)		3.10
E5563812 (9469838)		3.10
E5563813 (9469839)		3.10
E5563814 (9469840)		3.00
E5563815 (9469841)		2.90
E5563816 (9469842)		3.20
E5563817 (9469843)		3.20
E5563818 (9469844)		3.20
E5563819 (9469845)		2.80
E5563820 (9469846)		3.10
E5563821 (9469847)		3.00
E5563822 (9469848)		3.10
E5563823 (9469849)		3.10
E5563824 (9469850)		3.20
E5563825 (9469851)		3.20
E5563826 (9469852)		3.20
E5563827 (9469853)		2.70
E5563828 (9469854)		3.10
E5563829 (9469855)		3.00
E5563830 (9469856)		3.10
E5563831 (9469857)		3.10
E5563832 (9469858)		2.90
E5563833 (9469859)		3.20
E5563834 (9469860)		3.20
E5563835 (9469861)		3.20
E5563836 (9469862)		3.10
E5563837 (9469863)		2.80
E5563838 (9469864)		2.80
E5563839 (9469865)		2.80
E5563840 (9469866)		3.00
E5563841 (9469867)		2.80
E5563842 (9469868)		2.90

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563843 (9469869)		3.10
E5563844 (9469870)		2.90
E5563845 (9469871)		2.80
E5563846 (9469872)		2.80
E5563847 (9469873)		2.60
E5563848 (9469874)		3.00
E5563849 (9469875)		3.10
E5563850 (9469876)		3.20
E5563851 (9469877)		3.30
E5563852 (9469878)		3.20
E5563853 (9469879)		3.20
E5563854 (9469880)		3.20
E5563855 (9469881)		2.80
E5563856 (9469882)		3.10
E5563857 (9469883)		3.10
E5563858 (9469884)		3.10
E5563859 (9469885)		3.10
E5563860 (9469886)		3.10
E5563861 (9469887)		3.20
E5563862 (9469888)		3.20
E5563863 (9469889)		2.80
E5563864 (9469890)		3.10
E5563865 (9469891)		3.10
E5563866 (9469892)		3.10
E5563867 (9469893)		2.70
E5563868 (9469894)		3.20
E5563869 (9469895)		3.10
E5563870 (9469896)		3.10
E5563871 (9469897)		3.10
E5563872 (9469898)		3.00
E5563873 (9469899)		3.10
E5563874 (9469900)		3.10

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563875 (9469901)		3.10
E5563876 (9469902)		3.10
E5563877 (9469903)		3.10
E5563878 (9469904)		3.10
E5563879 (9469905)		3.20
E5563880 (9469906)		3.20
E5563881 (9469907)		2.80
E5563882 (9469908)		2.70
E5563883 (9469909)		2.70
E5563884 (9469910)		2.80
E5563885 (9469911)		2.80
E5563886 (9469912)		2.90
E5563887 (9469913)		2.70
E5563888 (9469914)		3.00
E5563889 (9469915)		2.70
E5563890 (9469916)		2.70
E5563891 (9469917)		3.10
E5563892 (9469918)		3.10
E5563893 (9469919)		3.10
E5563894 (9469920)		3.00
E5563895 (9469921)		2.80
E5563896 (9469922)		2.70
E5563897 (9469923)		3.10
E5563898 (9469924)		3.10
E5563899 (9469925)		3.10
E5563900 (9469926)		3.00
E5563901 (9469927)		3.10
E5563902 (9469928)		3.10
E5563903 (9469929)		3.10
E5563904 (9469930)		3.20
E5563905 (9469931)		3.10
E5563906 (9469932)		3.20

Certified By:



Certificate of Analysis

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PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563907 (9469933)		2.70
E5563908 (9469934)		3.10
E5563909 (9469935)		3.10
E5563910 (9469936)		3.10
E5563911 (9469937)		3.10
E5563912 (9469938)		3.00
E5563913 (9469939)		2.80
E5563914 (9469940)		3.10
E5563915 (9469941)		3.20
E5563916 (9469942)		3.20
E5563917 (9469943)		3.00
E5563918 (9469944)		3.10
E5563919 (9469945)		3.10
E5563920 (9469946)		3.10
E5563921 (9469947)		3.10
E5563922 (9469948)		3.10
E5563923 (9469949)		3.10
E5563924 (9469950)		3.20
E5563925 (9469951)		2.70
E5563926 (9469952)		3.00
E5563927 (9469953)		2.70
E5563928 (9469954)		2.70
E5563929 (9469955)		3.10
E5563930 (9469956)		3.10
E5563931 (9469957)		3.20
E5563932 (9469958)		3.10
E5563933 (9469959)		3.20
E5563934 (9469960)		3.00
E5563935 (9469961)		2.80
E5563936 (9469962)		3.10
E5563937 (9469963)		3.10

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563811 (9469837)	98	0.021	<0.5	2	<1	2.4	9.4	0.14	4.69	9.14	0.03	8.16	21.6	<5	
E5563812 (9469838)	104	0.022	<0.5	2	5	1.9	6.8	0.16	4.76	9.20	0.03	8.10	21.5	<5	
E5563813 (9469839)	131	0.028	<0.5	3	<1	5.9	8.5	0.14	4.58	8.05	0.03	9.00	21.8	<5	
E5563814 (9469840)	299	0.064	<0.5	1	<1	57.1	25.5	0.20	5.03	7.51	0.03	6.08	26.1	<5	
E5563815 (9469841)	2290	0.493	17.3	1160	678	228	1160	1.72	0.58	3.39	0.17	5.10	33.3	32	
E5563816 (9469842)	266	0.057	<0.5	3	1	9.0	15.7	0.16	4.68	8.38	0.03	7.72	22.1	<5	
E5563817 (9469843)	318	0.069	<0.5	2	<1	1.1	4.6	0.14	4.78	9.40	0.03	8.19	22.0	<5	
E5563818 (9469844)	560	0.121	<0.5	2	1	41.4	156	0.29	4.72	8.81	0.03	7.68	21.9	<5	
E5563819 (9469845)	1860	0.399	175	76	15	272	3310	2.93	0.08	0.43	0.09	8.53	32.4	297	
E5563820 (9469846)	329	0.071	1.1	2	1	10.6	105	0.36	4.78	9.40	0.05	7.96	21.2	<5	
E5563821 (9469847)	165	0.036	<0.5	2	<1	13.0	25.7	0.22	4.57	8.82	0.03	8.17	21.0	<5	
E5563822 (9469848)	166	0.036	<0.5	2	<1	2.8	10.9	0.18	4.50	8.71	0.02	7.78	20.8	<5	
E5563823 (9469849)	163	0.035	<0.5	2	1	6.1	19.3	0.21	4.62	8.78	0.03	8.13	21.0	<5	
E5563824 (9469850)	127	0.027	<0.5	2	1	3.4	14.6	0.21	4.71	9.03	0.03	8.38	21.7	<5	
E5563825 (9469851)	138	0.030	<0.5	2	2	8.3	39.7	0.34	4.77	9.00	0.03	8.20	21.6	<5	
E5563826 (9469852)	124	0.027	<0.5	2	2	14.7	26.6	0.22	4.93	9.07	0.03	7.94	21.7	<5	
E5563827 (9469853)	15	0.003	<0.5	<1	<1	0.2	0.6	0.05	<0.01	0.38	<0.01	0.13	45.3	<5	
E5563828 (9469854)	82	0.018	<0.5	2	<1	2.5	4.1	0.20	5.15	9.47	0.03	8.29	22.0	<5	
E5563829 (9469855)	128	0.028	<0.5	2	<1	16.6	18.1	0.25	5.10	9.27	0.03	8.47	21.9	<5	
E5563830 (9469856)	266	0.057	<0.5	2	2	13.4	14.6	0.22	5.30	9.39	0.02	8.11	21.6	<5	
E5563831 (9469857)	286	0.062	<0.5	2	2	8.0	9.9	0.18	5.20	9.40	0.03	8.40	22.6	<5	
E5563832 (9469858)	9930	2.12	30.4	6450	3300	342	822	1.48	0.55	4.49	0.11	8.00	29.3	28	
E5563833 (9469859)	450	0.097	<0.5	6	5	25.3	16.0	0.20	5.39	9.04	0.03	8.24	22.2	<5	
E5563834 (9469860)	806	0.174	<0.5	3	2	90.2	50.0	0.29	5.65	9.39	0.03	8.16	21.5	<5	
E5563835 (9469861)	1650	0.356	<0.5	2	2	858	434	0.48	5.85	8.71	0.03	7.67	21.6	<5	
E5563836 (9469862)	1700	0.367	<0.5	2	2	1160	570	0.60	5.96	9.00	0.03	8.04	21.1	<5	
E5563837 (9469863)	4310	0.927	84.3	64	17	121	777	0.63	0.21	0.72	0.15	9.32	31.3	161	
E5563838 (9469864)	2030	0.437	71.1	100	74	459	3560	2.41	0.17	1.02	0.04	6.31	34.8	99	
E5563839 (9469865)	11100	2.40	134	53	32	368	1980	1.05	0.03	0.49	0.11	8.32	34.3	145	
E5563840 (9469866)	18400	3.96	133	39	52	394	2030	1.03	0.02	0.48	0.05	9.71	33.5	101	
E5563841 (9469867)	7840	1.69	305	116	21	420	2180	1.11	0.03	0.38	0.06	6.75	35.5	130	
E5563842 (9469868)	12700	2.74	195	55	31	628	4580	2.92	0.02	0.47	0.06	9.78	31.8	141	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563843 (9469869)	22400	4.82	86.3	49	44	266	720	0.38	0.03	0.72	0.02	10.3	32.5	9	
E5563844 (9469870)	4530	0.976	94.2	150	59	551	2850	1.93	0.12	0.86	1.64	7.61	30.0	1180	
E5563845 (9469871)	3220	0.693	86.5	57	14	117	821	0.69	0.03	0.42	0.07	7.72	34.7	138	
E5563846 (9469872)	1970	0.424	122	42	13	156	1200	0.98	0.05	0.33	0.08	8.22	33.1	102	
E5563847 (9469873)	15	0.003	<0.5	<1	<1	0.3	1.0	0.05	<0.01	0.36	<0.01	0.12	43.5	<5	
E5563848 (9469874)	499	0.107	1.4	2	1	39.1	103	0.47	4.99	8.90	0.03	7.77	21.9	<5	
E5563849 (9469875)	231	0.050	<0.5	2	1	6.0	21.9	0.27	3.84	9.32	0.04	7.89	22.0	<5	
E5563850 (9469876)	217	0.047	<0.5	2	1	8.1	32.1	0.34	3.88	8.64	0.03	7.52	21.3	<5	
E5563851 (9469877)	249	0.054	<0.5	2	1	10.0	34.3	0.36	3.88	8.91	0.03	7.88	21.5	<5	
E5563852 (9469878)	136	0.029	<0.5	2	1	2.3	12.8	0.21	3.86	9.48	0.02	7.98	22.0	<5	
E5563853 (9469879)	209	0.045	<0.5	2	1	3.4	21.0	0.23	3.99	9.00	0.03	7.66	21.9	<5	
E5563854 (9469880)	181	0.039	<0.5	2	1	3.8	14.0	0.20	3.65	9.01	0.03	7.95	22.3	<5	
E5563855 (9469881)	2300	0.495	18.0	1200	730	247	1210	1.74	0.57	3.44	0.17	5.09	33.8	33	
E5563856 (9469882)	108	0.023	<0.5	3	3	3.8	13.6	0.15	4.17	8.87	0.03	8.15	20.6	<5	
E5563857 (9469883)	102	0.022	<0.5	2	1	2.0	8.1	0.12	4.27	8.73	0.03	7.96	21.7	<5	
E5563858 (9469884)	159	0.034	<0.5	2	1	5.1	10.9	0.13	4.56	9.01	0.02	7.93	21.8	<5	
E5563859 (9469885)	150	0.032	<0.5	2	1	9.9	18.0	0.13	3.64	8.25	0.03	7.38	21.9	<5	
E5563860 (9469886)	160	0.034	<0.5	2	1	2.2	9.0	0.14	4.11	8.68	0.02	7.73	21.3	<5	
E5563861 (9469887)	221	0.048	<0.5	3	<1	1.9	9.2	0.14	4.46	9.16	0.03	8.33	22.0	<5	
E5563862 (9469888)	659	0.142	4.0	3	3	198	505	0.54	4.75	9.04	0.03	8.13	22.0	5	
E5563863 (9469889)	456	0.098	218	60	25	505	4620	3.27	0.12	0.47	0.16	9.85	31.2	110	
E5563864 (9469890)	568	0.122	1.1	2	2	53.5	101	0.25	4.43	8.82	0.03	8.01	22.1	<5	
E5563865 (9469891)	200	0.043	<0.5	2	<1	4.5	21.9	0.20	4.22	9.09	0.03	8.38	22.1	<5	
E5563866 (9469892)	203	0.044	<0.5	2	<1	2.5	7.3	0.13	4.29	9.31	0.03	8.28	21.7	<5	
E5563867 (9469893)	15	0.003	<0.5	<1	<1	0.1	0.7	<0.05	<0.01	0.36	<0.01	0.12	43.6	<5	
E5563868 (9469894)	147	0.032	<0.5	2	<1	5.6	13.0	0.16	4.34	8.87	0.03	8.52	21.6	<5	
E5563869 (9469895)	199	0.043	<0.5	2	<1	6.1	8.9	0.11	4.77	9.12	0.03	8.64	21.8	<5	
E5563870 (9469896)	114	0.025	<0.5	2	<1	2.9	5.6	0.14	4.12	9.01	0.03	8.24	20.7	<5	
E5563871 (9469897)	98	0.021	<0.5	2	<1	2.1	4.3	0.11	4.03	8.29	0.03	8.10	21.0	<5	
E5563872 (9469898)	9900	2.13	29.7	6440	3360	359	830	1.48	0.55	4.46	0.12	7.94	29.3	27	
E5563873 (9469899)	213	0.046	<0.5	6	58	1.0	2.2	0.12	5.38	9.52	0.03	8.06	22.2	<5	
E5563874 (9469900)	278	0.060	<0.5	3	2	0.4	1.4	0.13	5.15	9.40	0.03	8.22	22.4	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563875 (9469901)	322	0.069	<0.5	3	1	2.1	6.7	0.15	5.00	9.77	0.03	7.78	21.8	<5	
E5563876 (9469902)	314	0.068	<0.5	2	1	1.7	6.4	0.14	5.00	9.77	0.03	7.86	22.5	<5	
E5563877 (9469903)	271	0.058	<0.5	2	2	1.3	6.3	0.18	4.70	9.43	0.03	7.97	22.4	<5	
E5563878 (9469904)	307	0.066	<0.5	2	<1	1.3	5.1	0.14	4.96	9.52	0.03	8.02	22.5	<5	
E5563879 (9469905)	363	0.078	<0.5	2	<1	4.1	30.8	0.26	4.76	9.34	0.03	7.98	21.9	<5	
E5563880 (9469906)	1170	0.252	1.5	5	7	766	957	0.69	4.78	9.20	0.04	8.15	22.3	6	
E5563881 (9469907)	464	0.100	32.7	21	13	375	598	0.45	0.07	0.46	0.26	3.86	41.3	2540	
E5563882 (9469908)	1480	0.318	344	250	84	264	4030	2.99	0.18	1.23	0.06	8.64	32.0	50	
E5563883 (9469909)	7200	1.55	91.7	40	40	555	4460	2.96	0.07	0.87	0.06	7.79	34.5	72	
E5563884 (9469910)	6910	1.49	56.0	32	33	586	4650	3.43	0.07	0.80	0.08	7.99	32.8	67	
E5563885 (9469911)	8300	1.79	481	85	48	592	3670	2.36	0.09	1.04	0.04	7.23	35.2	188	
E5563886 (9469912)	9500	2.04	86.3	33	43	461	2530	1.92	0.12	0.90	0.44	7.66	34.1	152	
E5563887 (9469913)	21	0.005	<0.5	1	1	0.3	1.7	<0.05	<0.01	0.37	<0.01	0.13	44.9	<5	
E5563888 (9469914)	13900	2.98	109	51	50	649	1780	1.09	0.08	1.33	0.48	8.37	33.0	1840	
E5563889 (9469915)	751	0.162	129	73	15	166	886	0.72	0.04	0.60	0.29	9.47	31.7	110	
E5563890 (9469916)	2060	0.443	249	82	20	212	1200	0.89	0.07	0.70	0.09	8.43	33.4	192	
E5563891 (9469917)	1380	0.296	1.1	2	1	66.9	118	0.27	5.10	9.30	0.03	7.98	22.1	<5	
E5563892 (9469918)	750	0.162	<0.5	2	2	10.0	18.5	0.18	4.99	9.60	0.02	8.09	22.1	<5	
E5563893 (9469919)	1980	0.425	0.6	2	1	45.1	61.2	0.21	5.40	9.71	0.03	8.25	22.8	<5	
E5563894 (9469920)	2460	0.530	<0.5	2	2	419	508	0.53	5.53	9.44	0.02	7.99	22.0	<5	
E5563895 (9469921)	2300	0.496	18.0	1200	774	258	1230	1.71	0.58	3.44	0.17	5.12	34.0	33	
E5563896 (9469922)	152	0.033	194	90	11	111	587	0.49	0.10	0.61	0.10	9.16	32.7	200	
E5563897 (9469923)	1540	0.332	0.9	2	2	446	398	0.50	5.58	9.64	0.03	8.08	22.4	<5	
E5563898 (9469924)	489	0.105	<0.5	2	2	8.1	9.5	0.17	5.48	9.78	0.03	8.14	22.6	<5	
E5563899 (9469925)	453	0.097	<0.5	2	1	66.5	37.9	0.31	5.70	9.46	0.03	8.27	22.0	<5	
E5563900 (9469926)	337	0.072	<0.5	2	1	9.8	8.6	0.18	5.54	9.50	0.03	8.05	22.9	<5	
E5563901 (9469927)	315	0.068	<0.5	2	1	193	42.6	0.33	5.68	9.93	0.03	8.31	22.7	<5	
E5563902 (9469928)	197	0.042	<0.5	2	1	2.3	2.9	0.14	5.69	9.61	0.03	8.16	23.0	<5	
E5563903 (9469929)	150	0.032	<0.5	2	1	0.8	2.1	0.13	5.31	9.44	0.02	8.00	23.0	<5	
E5563904 (9469930)	231	0.050	<0.5	2	1	1.9	8.0	0.17	4.89	9.31	0.03	8.14	22.4	<5	
E5563905 (9469931)	253	0.055	<0.5	2	1	3.4	6.1	0.14	5.21	9.33	0.03	8.31	22.7	<5	
E5563906 (9469932)	357	0.077	<0.5	2	1	19.3	15.5	0.16	6.05	9.73	0.03	8.29	22.6	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018					DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563907 (9469933)	15	0.003	<0.5	<1	1	<0.1	0.4	0.05	<0.01	0.38	<0.01	0.13	45.8	<5	
E5563908 (9469934)	321	0.069	<0.5	2	1	9.6	8.7	0.13	5.15	9.30	0.03	8.39	22.7	<5	
E5563909 (9469935)	354	0.076	<0.5	2	1	3.0	6.7	0.13	5.27	9.52	0.03	8.27	22.7	<5	
E5563910 (9469936)	459	0.099	<0.5	2	<1	2.8	23.5	0.20	4.91	9.22	0.03	8.09	21.7	<5	
E5563911 (9469937)	554	0.119	0.6	2	<1	58.5	210	0.48	5.33	8.98	0.03	7.56	21.8	<5	
E5563912 (9469938)	10200	2.19	29.2	6440	3210	384	841	1.46	0.55	4.39	0.11	8.11	29.1	27	
E5563913 (9469939)	96	0.021	71.0	66	17	85.4	1500	1.59	0.09	0.43	0.07	8.72	31.9	86	
E5563914 (9469940)	823	0.177	0.5	3	2	37.0	160	0.34	4.97	9.41	0.03	8.01	22.3	<5	
E5563915 (9469941)	677	0.146	<0.5	2	1	4.7	42.7	0.27	5.04	9.34	0.03	7.94	21.9	<5	
E5563916 (9469942)	680	0.146	<0.5	3	2	4.1	36.8	0.23	5.08	9.40	0.03	7.91	22.3	<5	
E5563917 (9469943)	508	0.109	<0.5	2	<1	3.2	20.6	0.19	4.87	9.22	0.03	7.81	22.3	<5	
E5563918 (9469944)	222	0.048	<0.5	2	62	120	92.6	0.44	4.91	9.05	0.03	7.54	21.8	<5	
E5563919 (9469945)	290	0.062	<0.5	2	<1	199	112	0.56	4.95	8.75	0.03	8.10	21.8	<5	
E5563920 (9469946)	233	0.050	<0.5	2	1	58.0	33.3	0.31	4.02	9.82	0.02	7.29	23.1	<5	
E5563921 (9469947)	187	0.040	<0.5	2	2	24.5	21.9	0.23	2.34	8.05	0.03	7.79	24.0	<5	
E5563922 (9469948)	442	0.095	<0.5	2	2	162	154	0.54	5.53	9.46	0.03	7.57	21.0	<5	
E5563923 (9469949)	422	0.091	<0.5	2	1	131	108	0.44	5.04	8.63	0.04	7.98	22.0	<5	
E5563924 (9469950)	413	0.089	<0.5	2	2	46.0	101	0.34	4.61	8.68	0.03	7.81	21.6	<5	
E5563925 (9469951)	96	0.021	235	77	12	64.7	609	0.48	0.11	0.48	0.14	8.69	32.0	171	
E5563926 (9469952)	1360	0.293	23.3	8	19	1150	3560	2.12	4.81	8.48	0.05	8.09	21.9	59	
E5563927 (9469953)	14	0.003	<0.5	<1	1	0.5	1.4	<0.05	<0.01	0.36	<0.01	0.12	43.5	<5	
E5563928 (9469954)	184	0.040	149	71	18	139	1080	0.79	0.16	0.59	0.09	8.15	32.3	134	
E5563929 (9469955)	1570	0.337	1.4	2	2	331	291	0.70	6.72	10.0	0.02	6.47	21.6	<5	
E5563930 (9469956)	752	0.162	<0.5	2	1	451	261	0.91	6.14	9.62	0.03	8.12	20.4	<5	
E5563931 (9469957)	162	0.035	<0.5	2	1	20.7	38.9	0.24	4.36	9.27	0.03	7.96	21.5	<5	
E5563932 (9469958)	167	0.036	<0.5	2	4	56.7	38.1	0.24	4.49	9.04	0.03	8.13	20.9	<5	
E5563933 (9469959)	275	0.059	<0.5	2	1	89.0	69.0	0.36	4.81	9.65	0.03	8.47	21.7	<5	
E5563934 (9469960)	236	0.051	3.6	4	1	93.3	53.4	0.28	5.18	9.57	0.03	8.10	21.5	<5	
E5563935 (9469961)	2290	0.492	19.1	1280	871	277	1290	1.71	0.56	3.40	0.17	5.17	33.6	35	
E5563936 (9469962)	136	0.029	<0.5	3	2	8.9	11.4	0.16	4.42	8.86	0.03	7.33	21.5	<5	
E5563937 (9469963)	100	0.022	<0.5	2	<1	8.5	14.6	0.17	4.90	9.58	0.03	7.54	21.4	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018						SAMPLE TYPE: Drill Core		
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563811 (9469837)	<20	1500	3	<0.1	<5	<1	26.0	9.26	<0.2	6.5	55.1	0.027	170	2.70	
E5563812 (9469838)	<20	1500	3	<0.1	<5	<1	25.5	8.95	<0.2	6.2	54.8	0.028	161	2.60	
E5563813 (9469839)	<20	1210	3	<0.1	<5	<1	25.3	8.97	<0.2	6.9	61.3	0.030	164	2.68	
E5563814 (9469840)	<20	1150	3	<0.1	<5	<1	21.3	5.44	<0.2	5.8	41.9	0.022	147	2.88	
E5563815 (9469841)	29	375	8	11.9	35	2	1950	1.21	0.6	1150	6.9	0.007	291	8.01	
E5563816 (9469842)	<20	1410	3	<0.1	<5	<1	25.8	8.99	<0.2	8.5	55.1	0.026	131	2.91	
E5563817 (9469843)	<20	1520	3	<0.1	<5	<1	23.5	9.01	<0.2	21.9	53.1	0.027	163	2.67	
E5563818 (9469844)	<20	1450	9	<0.1	<5	<1	32.6	9.06	<0.2	7.2	54.4	0.027	123	2.54	
E5563819 (9469845)	<20	420	4	0.5	<5	2	11.5	0.41	<0.2	0.6	0.9	<0.005	<5	<0.05	
E5563820 (9469846)	22	1650	4	<0.1	<5	<1	45.2	9.64	<0.2	9.1	55.4	0.027	113	2.87	
E5563821 (9469847)	<20	1630	3	<0.1	<5	<1	28.6	10.2	<0.2	6.2	57.6	0.027	126	2.79	
E5563822 (9469848)	<20	1530	3	<0.1	<5	<1	23.3	10.4	<0.2	6.2	56.9	0.027	137	2.91	
E5563823 (9469849)	<20	1460	<2	<0.1	<5	<1	39.7	10.2	<0.2	7.9	56.8	0.028	130	2.60	
E5563824 (9469850)	<20	1400	<2	<0.1	<5	<1	38.3	8.93	<0.2	6.0	58.1	0.029	180	2.67	
E5563825 (9469851)	21	1430	2	<0.1	<5	<1	68.1	8.85	<0.2	6.3	58.5	0.028	146	2.75	
E5563826 (9469852)	<20	1460	2	<0.1	<5	<1	37.6	8.52	<0.2	6.0	59.8	0.028	156	2.86	
E5563827 (9469853)	<20	34	<2	<0.1	<5	<1	4.5	0.05	<0.2	2.2	0.6	<0.005	<5	0.16	
E5563828 (9469854)	<20	1550	3	<0.1	<5	<1	30.5	8.31	<0.2	6.6	58.8	0.028	158	2.92	
E5563829 (9469855)	<20	1500	4	<0.1	<5	<1	37.3	8.77	<0.2	6.8	56.6	0.027	148	2.74	
E5563830 (9469856)	<20	1490	3	<0.1	<5	<1	29.1	8.06	0.2	6.5	51.7	0.028	163	2.80	
E5563831 (9469857)	<20	1440	3	<0.1	<5	<1	22.8	8.37	<0.2	6.5	54.8	0.027	160	2.89	
E5563832 (9469858)	41	446	11	47.6	144	1	2850	1.14	1.7	419	8.3	0.011	332	4.42	
E5563833 (9469859)	<20	1440	3	0.2	<5	<1	27.3	8.28	<0.2	6.3	53.8	0.027	135	2.54	
E5563834 (9469860)	<20	1510	15	<0.1	<5	<1	41.0	8.25	<0.2	5.9	59.3	0.028	147	2.58	
E5563835 (9469861)	317	1390	5	<0.1	<5	<1	34.0	7.20	0.2	5.9	53.6	0.026	128	2.45	
E5563836 (9469862)	487	1360	6	<0.1	<5	<1	49.0	6.91	<0.2	6.8	57.5	0.025	217	2.45	
E5563837 (9469863)	464	523	5	0.3	<5	2	5.8	0.66	<0.2	0.7	2.3	<0.005	<5	0.07	
E5563838 (9469864)	27	886	8	3.2	<5	2	9.1	0.15	0.3	0.3	2.2	0.006	<5	<0.05	
E5563839 (9469865)	<20	1160	7	48.8	<5	1	3.4	0.23	<0.2	0.2	<0.5	0.005	<5	<0.05	
E5563840 (9469866)	<20	1160	7	68.2	<5	<1	3.1	0.13	0.3	0.1	<0.5	0.006	<5	<0.05	
E5563841 (9469867)	<20	821	6	45.9	<5	3	4.4	0.17	0.3	0.1	<0.5	<0.005	<5	<0.05	
E5563842 (9469868)	<20	753	6	38.0	<5	1	6.2	0.14	<0.2	0.1	<0.5	<0.005	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018					DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563843 (9469869)	<20	969	6	23.6	<5	1	2.8	0.11	0.2	<0.1	0.5	<0.005	<5	<0.05	
E5563844 (9469870)	21	2990	6	5.1	<5	4	7.4	3.43	1.6	14.1	1.7	<0.005	<5	1.95	
E5563845 (9469871)	<20	825	5	1.7	<5	1	5.7	0.30	<0.2	0.4	<0.5	<0.005	<5	<0.05	
E5563846 (9469872)	<20	481	4	5.2	<5	1	9.5	0.28	<0.2	0.5	<0.5	<0.005	<5	0.06	
E5563847 (9469873)	<20	28	<2	<0.1	<5	<1	4.2	<0.05	<0.2	2.0	<0.5	<0.005	<5	0.16	
E5563848 (9469874)	21	1410	3	0.2	<5	<1	98.1	7.31	<0.2	5.9	49.8	0.028	153	2.60	
E5563849 (9469875)	24	1600	2	<0.1	<5	<1	70.8	9.24	<0.2	6.3	53.5	0.028	161	2.88	
E5563850 (9469876)	29	1770	3	0.2	<5	<1	68.8	10.5	0.6	7.0	52.9	0.027	226	2.65	
E5563851 (9469877)	31	1960	2	<0.1	<5	<1	68.5	10.5	0.2	7.2	52.7	0.028	144	3.00	
E5563852 (9469878)	<20	1750	2	<0.1	<5	<1	43.8	9.53	0.2	6.7	53.1	0.028	101	2.86	
E5563853 (9469879)	23	1670	<2	<0.1	<5	<1	56.4	9.91	<0.2	6.9	49.8	0.027	109	2.77	
E5563854 (9469880)	<20	1720	<2	<0.1	<5	<1	44.7	9.50	<0.2	6.8	53.6	0.028	135	2.84	
E5563855 (9469881)	31	373	8	12.5	36	2	1950	1.26	0.8	1160	7.3	0.007	293	8.17	
E5563856 (9469882)	<20	1530	2	0.8	<5	<1	25.5	11.0	<0.2	8.1	52.2	0.026	127	2.77	
E5563857 (9469883)	<20	1460	<2	<0.1	<5	<1	20.0	10.4	<0.2	6.1	52.4	0.026	128	2.61	
E5563858 (9469884)	<20	1490	2	<0.1	<5	<1	33.0	8.91	<0.2	6.9	52.6	0.027	136	2.59	
E5563859 (9469885)	<20	1400	2	<0.1	<5	<1	25.6	10.5	<0.2	5.6	50.0	0.023	141	2.55	
E5563860 (9469886)	24	1480	3	<0.1	<5	<1	23.6	10.8	<0.2	5.8	50.4	0.025	153	2.67	
E5563861 (9469887)	<20	1490	2	<0.1	<5	<1	31.1	9.25	<0.2	8.7	52.7	0.027	150	2.77	
E5563862 (9469888)	<20	1570	2	<0.1	<5	<1	50.5	8.36	<0.2	6.0	53.4	0.027	144	2.61	
E5563863 (9469889)	26	606	2	0.6	<5	2	11.6	0.61	<0.2	1.1	1.2	<0.005	<5	0.11	
E5563864 (9469890)	<20	1580	<2	<0.1	<5	<1	35.2	9.35	<0.2	5.8	51.6	0.026	130	2.48	
E5563865 (9469891)	<20	1580	<2	<0.1	<5	<1	29.6	9.63	<0.2	8.0	55.7	0.028	161	2.77	
E5563866 (9469892)	<20	1520	<2	<0.1	<5	<1	24.6	9.28	<0.2	6.2	55.4	0.027	187	2.68	
E5563867 (9469893)	<20	34	<2	<0.1	<5	<1	4.4	0.06	<0.2	2.6	0.5	<0.005	<5	0.19	
E5563868 (9469894)	<20	1500	5	<0.1	<5	<1	28.9	10.2	<0.2	6.8	55.5	0.029	140	2.76	
E5563869 (9469895)	<20	1490	3	<0.1	<5	<1	26.1	8.90	<0.2	6.2	55.8	0.028	142	2.59	
E5563870 (9469896)	<20	1570	2	<0.1	<5	<1	20.8	11.5	<0.2	6.8	53.3	0.027	143	2.78	
E5563871 (9469897)	<20	1390	3	<0.1	<5	<1	20.7	10.5	<0.2	6.4	51.6	0.025	152	2.70	
E5563872 (9469898)	40	445	11	49.7	144	1	2860	1.16	1.9	431	8.3	0.010	339	4.34	
E5563873 (9469899)	<20	1340	3	0.1	<5	<1	19.3	7.89	0.4	7.3	52.0	0.029	154	2.95	
E5563874 (9469900)	<20	1360	3	<0.1	<5	7	14.4	8.35	<0.2	7.0	52.7	0.029	180	2.94	

Certified By:



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PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563875 (9469901)	<20	1480	5	<0.1	<5	1	21.3	8.33	<0.2	7.0	53.5	0.029	202	2.94	
E5563876 (9469902)	<20	1480	3	<0.1	<5	<1	19.2	8.51	<0.2	7.2	52.0	0.029	189	2.95	
E5563877 (9469903)	<20	1360	3	<0.1	<5	<1	19.0	8.98	<0.2	7.1	53.2	0.029	189	3.01	
E5563878 (9469904)	<20	1420	3	<0.1	<5	<1	15.6	8.93	<0.2	6.6	51.1	0.028	140	2.81	
E5563879 (9469905)	22	1470	3	<0.1	<5	<1	31.5	9.42	<0.2	7.6	56.1	0.029	171	3.18	
E5563880 (9469906)	1420	1470	3	0.5	<5	<1	38.0	8.24	<0.2	12.9	50.3	0.028	130	2.73	
E5563881 (9469907)	46	258	9	1.3	<5	<1	3.3	0.82	<0.2	0.7	1.0	0.006	8	0.11	
E5563882 (9469908)	21	1010	12	1.6	<5	6	11.2	0.29	0.3	1.8	2.7	0.007	7	0.07	
E5563883 (9469909)	20	883	16	16.9	<5	1	8.6	0.15	0.2	0.3	1.4	0.008	5	<0.05	
E5563884 (9469910)	<20	851	15	1.5	<5	<1	11.1	0.21	<0.2	0.2	1.1	0.008	8	<0.05	
E5563885 (9469911)	<20	1100	18	0.8	<5	2	15.0	0.22	0.2	0.2	1.5	0.009	11	<0.05	
E5563886 (9469912)	28	1630	11	1.1	<5	<1	191	1.27	0.6	0.7	1.5	0.007	6	0.09	
E5563887 (9469913)	<20	30	<2	<0.1	<5	<1	3.9	0.06	<0.2	2.2	<0.5	<0.005	<5	0.17	
E5563888 (9469914)	23	1770	25	2.0	<5	2	11.6	1.09	0.6	1.5	1.6	0.013	10	0.21	
E5563889 (9469915)	25	762	11	0.5	<5	2	4.2	0.79	<0.2	2.2	0.8	0.005	6	0.23	
E5563890 (9469916)	<20	1440	12	1.4	<5	2	5.5	0.40	<0.2	0.7	1.2	0.006	7	0.06	
E5563891 (9469917)	20	1410	3	<0.1	<5	<1	29.7	8.14	<0.2	6.5	52.9	0.028	217	2.91	
E5563892 (9469918)	23	1420	3	<0.1	<5	<1	30.7	8.59	<0.2	6.7	52.3	0.029	171	3.08	
E5563893 (9469919)	21	1360	3	<0.1	<5	<1	34.0	8.17	<0.2	6.5	51.4	0.029	168	2.73	
E5563894 (9469920)	<20	1330	3	<0.1	<5	<1	39.9	7.49	<0.2	6.2	50.3	0.029	131	2.79	
E5563895 (9469921)	32	386	8	12.8	35	2	1980	1.23	0.9	1160	7.1	0.008	298	8.26	
E5563896 (9469922)	<20	294	10	0.1	<5	2	6.3	0.65	<0.2	3.2	1.3	<0.005	11	0.11	
E5563897 (9469923)	<20	1340	3	<0.1	<5	<1	37.5	7.56	<0.2	6.0	52.9	0.028	160	2.88	
E5563898 (9469924)	<20	1450	3	0.6	<5	<1	24.8	7.85	<0.2	7.7	52.1	0.029	156	2.88	
E5563899 (9469925)	<20	1300	3	4.6	<5	<1	69.7	7.17	<0.2	6.3	57.3	0.029	371	2.99	
E5563900 (9469926)	<20	1350	<2	<0.1	<5	<1	29.9	7.80	0.4	7.0	50.5	0.029	170	2.80	
E5563901 (9469927)	<20	1230	2	<0.1	<5	<1	56.6	7.47	<0.2	6.5	52.5	0.029	231	2.96	
E5563902 (9469928)	<20	1310	2	<0.1	<5	<1	22.5	7.76	<0.2	7.2	50.8	0.029	113	2.66	
E5563903 (9469929)	<20	1300	<2	<0.1	<5	<1	20.6	8.04	<0.2	6.4	51.2	0.028	136	2.79	
E5563904 (9469930)	<20	1610	3	<0.1	<5	<1	37.3	8.56	<0.2	6.4	51.7	0.028	179	2.75	
E5563905 (9469931)	<20	1570	3	<0.1	<5	<1	27.6	8.47	<0.2	6.3	53.2	0.029	140	2.85	
E5563906 (9469932)	<20	1420	2	<0.1	<5	<1	25.9	7.61	<0.2	6.6	53.3	0.028	142	2.85	

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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563907 (9469933)	<20	32	<2	<0.1	<5	<1	3.9	<0.05	<0.2	2.5	<0.5	<0.005	<5	0.16	
E5563908 (9469934)	<20	1540	3	<0.1	<5	<1	23.8	8.52	<0.2	6.5	53.3	0.029	147	2.76	
E5563909 (9469935)	<20	1510	2	<0.1	<5	<1	26.4	8.55	<0.2	6.6	53.3	0.029	171	2.87	
E5563910 (9469936)	<20	1490	<2	<0.1	<5	<1	94.6	7.75	0.2	6.6	51.4	0.027	152	2.85	
E5563911 (9469937)	28	1520	2	<0.1	<5	<1	76.2	6.50	<0.2	6.1	49.0	0.028	173	2.84	
E5563912 (9469938)	40	441	11	49.8	140	1	2830	1.11	2.2	446	8.0	0.010	318	4.41	
E5563913 (9469939)	21	1160	4	1.2	<5	2	16.8	0.41	<0.2	1.1	1.0	<0.005	18	0.13	
E5563914 (9469940)	<20	1420	2	<0.1	<5	<1	50.3	7.91	<0.2	6.9	50.9	0.028	155	2.99	
E5563915 (9469941)	<20	1380	<2	<0.1	<5	<1	104	7.69	<0.2	7.0	51.7	0.028	178	2.84	
E5563916 (9469942)	21	1390	3	<0.1	<5	<1	93.0	7.89	<0.2	7.0	51.6	0.029	169	3.08	
E5563917 (9469943)	<20	1360	2	<0.1	<5	<1	59.2	7.89	<0.2	6.8	50.1	0.027	171	2.95	
E5563918 (9469944)	<20	1650	3	0.1	<5	<1	147	8.12	<0.2	6.7	51.2	0.027	81	2.80	
E5563919 (9469945)	<20	1460	4	<0.1	<5	<1	190	7.37	0.2	8.1	55.6	0.028	110	3.20	
E5563920 (9469946)	<20	1560	2	0.2	<5	<1	76.0	7.72	<0.2	5.7	49.0	0.025	135	2.64	
E5563921 (9469947)	<20	1620	2	<0.1	<5	<1	191	8.12	<0.2	6.0	47.6	0.028	189	2.70	
E5563922 (9469948)	<20	1700	5	<0.1	<5	<1	127	8.01	<0.2	7.1	52.7	0.029	56	2.89	
E5563923 (9469949)	<20	1690	3	<0.1	<5	<1	87.3	8.11	<0.2	8.4	53.8	0.028	101	3.05	
E5563924 (9469950)	<20	1940	<2	<0.1	<5	<1	53.7	9.48	<0.2	6.7	51.8	0.026	149	2.93	
E5563925 (9469951)	<20	1630	4	<0.1	<5	2	5.6	0.73	0.2	1.3	1.4	<0.005	9	0.14	
E5563926 (9469952)	21	1760	3	4.7	<5	<1	57.9	6.26	<0.2	5.4	46.9	0.026	47	2.53	
E5563927 (9469953)	<20	31	<2	<0.1	<5	<1	3.8	<0.05	<0.2	2.3	<0.5	<0.005	<5	0.18	
E5563928 (9469954)	<20	1640	9	0.3	<5	2	7.1	0.70	<0.2	0.7	1.5	<0.005	<5	0.07	
E5563929 (9469955)	<20	1760	6	0.4	<5	<1	58.0	7.32	0.3	10.2	48.8	0.024	406	2.90	
E5563930 (9469956)	<20	1440	2	<0.1	<5	<1	90.2	7.15	<0.2	7.1	54.2	0.027	133	3.37	
E5563931 (9469957)	<20	1630	<2	<0.1	<5	<1	48.6	10.5	<0.2	7.3	52.5	0.028	117	2.97	
E5563932 (9469958)	<20	1530	<2	<0.1	<5	<1	58.3	9.38	<0.2	7.1	53.9	0.029	150	3.03	
E5563933 (9469959)	<20	1510	2	<0.1	<5	<1	72.9	8.65	<0.2	7.2	54.3	0.030	110	3.12	
E5563934 (9469960)	<20	1450	2	<0.1	<5	<1	36.1	8.03	<0.2	6.8	54.7	0.029	204	3.08	
E5563935 (9469961)	31	365	8	13.9	37	2	1890	1.21	0.9	1120	7.4	0.007	287	8.69	
E5563936 (9469962)	<20	1460	2	<0.1	<5	<1	25.8	9.20	<0.2	7.3	51.1	0.027	152	2.94	
E5563937 (9469963)	<20	1600	<2	<0.1	<5	<1	29.5	9.92	<0.2	6.7	44.4	0.029	165	2.78	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563811 (9469837)	1.78	0.61	15.4	2.22	2	1	0.60	<0.2	2.6	0.30	5.1	160	<5	1.06
E5563812 (9469838)	1.79	0.58	15.5	2.34	2	1	0.62	<0.2	2.4	0.32	4.9	166	<5	0.98
E5563813 (9469839)	1.86	0.64	16.7	2.32	2	1	0.58	<0.2	2.6	0.28	5.1	184	<5	1.06
E5563814 (9469840)	2.05	0.52	12.5	2.32	1	<1	0.67	<0.2	2.1	0.33	4.7	147	<5	0.89
E5563815 (9469841)	2.48	9.57	22.5	29.3	4	6	1.15	1.9	663	0.26	354	26	27	114
E5563816 (9469842)	1.81	0.65	15.0	2.55	2	1	0.64	<0.2	3.7	0.32	5.9	159	<5	1.25
E5563817 (9469843)	1.62	0.66	14.7	2.75	2	1	0.60	<0.2	12.4	0.30	10.0	166	<5	2.66
E5563818 (9469844)	1.72	0.57	15.3	2.32	2	1	0.56	<0.2	3.0	0.28	5.1	169	<5	1.09
E5563819 (9469845)	<0.05	<0.05	42.2	0.08	7	2	<0.05	<0.2	0.3	<0.05	0.4	9	7	0.08
E5563820 (9469846)	1.99	0.61	16.0	2.60	2	1	0.63	<0.2	3.7	0.33	6.4	189	<5	1.35
E5563821 (9469847)	1.71	0.57	15.9	2.36	2	1	0.60	<0.2	2.4	0.30	4.9	197	<5	0.99
E5563822 (9469848)	1.96	0.55	14.9	2.42	2	1	0.64	<0.2	2.4	0.32	5.0	182	<5	0.99
E5563823 (9469849)	1.78	0.60	15.2	2.45	2	1	0.63	<0.2	3.2	0.31	5.8	180	<5	1.20
E5563824 (9469850)	1.64	0.60	15.7	2.25	2	1	0.59	<0.2	2.3	0.29	4.8	180	<5	0.97
E5563825 (9469851)	1.74	0.60	15.9	2.39	2	1	0.59	<0.2	2.4	0.28	5.1	185	<5	1.03
E5563826 (9469852)	1.86	0.59	16.3	2.37	2	1	0.63	<0.2	2.1	0.29	4.9	172	<5	0.96
E5563827 (9469853)	0.12	<0.05	0.28	0.20	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	9	<5	0.26
E5563828 (9469854)	1.89	0.56	16.2	2.42	2	1	0.63	<0.2	2.4	0.30	5.2	178	<5	1.02
E5563829 (9469855)	1.82	0.59	16.1	2.44	2	1	0.64	<0.2	2.6	0.32	5.2	177	<5	1.07
E5563830 (9469856)	1.82	0.59	15.1	2.37	2	1	0.62	<0.2	2.5	0.32	5.1	152	131	1.02
E5563831 (9469857)	1.87	0.58	15.8	2.53	2	1	0.61	<0.2	2.4	0.30	5.3	141	<5	1.03
E5563832 (9469858)	1.63	4.32	47.8	12.9	7	5	0.74	9.1	257	0.24	142	36	36	48.2
E5563833 (9469859)	1.67	0.52	15.1	2.17	2	1	0.58	<0.2	2.5	0.29	4.9	171	7	0.96
E5563834 (9469860)	1.65	0.56	14.8	2.24	2	1	0.58	<0.2	2.2	0.29	4.7	223	10	0.95
E5563835 (9469861)	1.62	0.52	14.8	2.12	2	1	0.53	<0.2	2.3	0.26	4.5	183	<5	0.91
E5563836 (9469862)	1.51	0.54	15.5	2.08	2	1	0.54	<0.2	2.8	0.25	4.8	178	<5	1.05
E5563837 (9469863)	0.05	<0.05	49.4	0.09	7	1	<0.05	<0.2	0.5	<0.05	0.3	11	<5	0.07
E5563838 (9469864)	<0.05	<0.05	67.1	<0.05	4	1	<0.05	<0.2	0.3	<0.05	0.1	10	<5	<0.05
E5563839 (9469865)	<0.05	<0.05	50.0	<0.05	8	<1	<0.05	<0.2	0.1	<0.05	<0.1	7	<5	<0.05
E5563840 (9469866)	<0.05	<0.05	58.4	<0.05	9	1	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05
E5563841 (9469867)	<0.05	<0.05	39.9	<0.05	8	2	<0.05	<0.2	<0.1	<0.05	<0.1	11	8	<0.05
E5563842 (9469868)	<0.05	<0.05	48.2	<0.05	8	1	<0.05	<0.2	<0.1	<0.05	<0.1	5	5	<0.05

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

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ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018					DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5563843 (9469869)	<0.05	<0.05	75.3	<0.05	7	1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05	
E5563844 (9469870)	0.89	0.27	64.9	1.66	5	2	0.34	<0.2	8.0	0.14	5.5	11	<5	1.58	
E5563845 (9469871)	<0.05	<0.05	39.6	<0.05	6	5	<0.05	<0.2	0.3	<0.05	0.1	8	<5	<0.05	
E5563846 (9469872)	<0.05	<0.05	39.8	0.07	6	2	<0.05	<0.2	0.3	<0.05	0.3	<5	<5	0.07	
E5563847 (9469873)	0.11	<0.05	0.28	0.18	<1	<1	<0.05	<0.2	1.0	<0.05	0.8	<5	<5	0.24	
E5563848 (9469874)	1.79	0.55	15.3	2.26	2	1	0.60	<0.2	2.2	0.27	4.5	126	<5	0.93	
E5563849 (9469875)	1.86	0.59	15.2	2.40	2	1	0.62	<0.2	2.3	0.31	5.1	137	<5	1.02	
E5563850 (9469876)	1.71	0.60	14.6	2.41	2	1	0.60	<0.2	3.0	0.30	5.1	131	51	1.07	
E5563851 (9469877)	1.87	0.70	15.4	2.58	2	1	0.64	<0.2	2.9	0.32	5.6	137	10	1.14	
E5563852 (9469878)	1.87	0.58	15.3	2.35	2	1	0.60	<0.2	2.5	0.30	5.3	140	14	1.05	
E5563853 (9469879)	1.66	0.59	14.3	2.33	2	1	0.61	<0.2	2.7	0.28	5.2	136	<5	1.07	
E5563854 (9469880)	1.89	0.59	15.3	2.43	2	1	0.63	<0.2	2.6	0.33	5.4	136	<5	1.09	
E5563855 (9469881)	2.56	9.72	22.7	29.1	4	6	1.21	2.0	680	0.26	359	23	29	120	
E5563856 (9469882)	1.91	0.59	15.4	2.37	2	1	0.64	<0.2	3.5	0.30	5.5	155	<5	1.17	
E5563857 (9469883)	1.71	0.55	15.2	2.10	2	1	0.60	<0.2	2.3	0.30	4.7	149	<5	0.95	
E5563858 (9469884)	1.69	0.56	15.1	2.35	2	1	0.63	<0.2	2.7	0.30	5.2	157	<5	1.08	
E5563859 (9469885)	1.60	0.51	14.2	2.09	1	1	0.59	<0.2	2.2	0.29	4.3	145	<5	0.90	
E5563860 (9469886)	1.78	0.53	14.6	2.18	2	1	0.61	<0.2	2.2	0.31	4.6	145	<5	0.94	
E5563861 (9469887)	1.73	0.59	15.6	2.29	2	1	0.60	<0.2	3.5	0.29	5.9	151	<5	1.28	
E5563862 (9469888)	1.82	0.53	15.4	2.22	2	1	0.57	<0.2	2.3	0.32	4.6	162	<5	0.93	
E5563863 (9469889)	0.09	<0.05	46.8	0.18	7	2	<0.05	<0.2	0.4	<0.05	0.7	9	7	0.16	
E5563864 (9469890)	1.66	0.54	15.8	2.22	2	1	0.57	<0.2	2.2	0.30	4.7	152	<5	0.94	
E5563865 (9469891)	1.69	0.59	16.0	2.36	2	1	0.60	<0.2	3.3	0.30	5.5	166	<5	1.22	
E5563866 (9469892)	1.86	0.58	15.2	2.38	2	1	0.61	<0.2	2.4	0.29	4.9	169	<5	1.02	
E5563867 (9469893)	0.09	<0.05	0.30	0.24	<1	<1	<0.05	<0.2	1.2	<0.05	1.0	10	<5	0.30	
E5563868 (9469894)	1.95	0.61	15.7	2.34	2	1	0.64	<0.2	2.6	0.33	5.3	193	<5	1.08	
E5563869 (9469895)	1.82	0.53	15.6	2.36	2	1	0.59	<0.2	2.3	0.30	4.9	181	<5	0.99	
E5563870 (9469896)	1.78	0.61	15.4	2.36	1	1	0.61	<0.2	2.7	0.31	5.2	173	<5	1.07	
E5563871 (9469897)	1.85	0.55	14.9	2.36	1	1	0.61	<0.2	2.4	0.32	4.9	174	<5	1.02	
E5563872 (9469898)	1.80	4.28	47.3	12.8	7	5	0.70	9.3	263	0.23	142	34	38	48.9	
E5563873 (9469899)	1.88	0.61	16.0	2.50	2	1	0.67	<0.2	2.8	0.32	5.4	140	<5	1.13	
E5563874 (9469900)	2.00	0.61	15.6	2.54	2	1	0.66	<0.2	2.7	0.32	5.5	142	<5	1.09	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563875 (9469901)	1.98	0.65	15.8	2.67	2	1	0.68	<0.2	2.7	0.33	5.5	136	<5	1.08
E5563876 (9469902)	2.00	0.65	15.9	2.50	2	1	0.65	<0.2	2.8	0.32	5.5	134	<5	1.13
E5563877 (9469903)	1.95	0.61	15.3	2.62	2	1	0.70	<0.2	2.7	0.34	5.4	141	<5	1.09
E5563878 (9469904)	1.81	0.61	15.6	2.35	2	1	0.64	<0.2	2.4	0.29	5.1	139	<5	1.02
E5563879 (9469905)	2.09	0.72	16.9	2.73	2	2	0.69	<0.2	3.0	0.37	5.9	138	<5	1.16
E5563880 (9469906)	1.78	0.67	18.7	2.46	3	1	0.60	<0.2	5.6	0.28	7.9	135	<5	1.78
E5563881 (9469907)	<0.05	<0.05	20.5	0.13	5	<1	<0.05	<0.2	0.3	<0.05	0.6	35	<5	0.11
E5563882 (9469908)	<0.05	<0.05	81.7	0.14	5	2	<0.05	<0.2	0.8	<0.05	0.9	58	<5	0.23
E5563883 (9469909)	<0.05	<0.05	53.3	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	0.2	70	<5	<0.05
E5563884 (9469910)	<0.05	<0.05	48.5	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	<0.1	62	6	<0.05
E5563885 (9469911)	<0.05	<0.05	55.9	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	<0.1	79	<5	<0.05
E5563886 (9469912)	<0.05	<0.05	55.2	0.07	6	1	<0.05	<0.2	0.5	<0.05	0.3	50	<5	0.08
E5563887 (9469913)	0.14	<0.05	0.34	0.15	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	7	<5	0.26
E5563888 (9469914)	0.10	<0.05	61.3	0.21	6	<1	<0.05	<0.2	0.9	<0.05	0.6	107	<5	0.18
E5563889 (9469915)	0.08	<0.05	38.6	0.21	6	6	<0.05	<0.2	1.4	<0.05	0.8	53	<5	0.21
E5563890 (9469916)	0.05	<0.05	43.6	0.08	7	3	<0.05	<0.2	0.4	<0.05	0.3	55	<5	0.08
E5563891 (9469917)	1.78	0.58	15.7	2.53	2	1	0.64	<0.2	2.5	0.31	5.1	146	<5	1.03
E5563892 (9469918)	1.83	0.60	15.5	2.54	2	1	0.67	<0.2	2.5	0.30	5.1	148	<5	1.07
E5563893 (9469919)	1.85	0.55	15.6	2.41	2	1	0.64	<0.2	2.4	0.31	5.1	150	<5	1.04
E5563894 (9469920)	1.95	0.53	15.2	2.37	2	1	0.61	<0.2	2.3	0.31	4.9	150	<5	0.98
E5563895 (9469921)	2.45	9.78	22.5	29.6	3	6	1.22	1.6	696	0.28	359	26	30	120
E5563896 (9469922)	0.07	<0.05	38.1	0.22	7	4	<0.05	<0.2	1.4	<0.05	1.7	53	<5	0.43
E5563897 (9469923)	1.91	0.57	15.7	2.31	2	1	0.62	<0.2	2.2	0.32	4.9	148	13	1.00
E5563898 (9469924)	1.85	0.57	15.8	2.52	2	1	0.66	<0.2	3.0	0.31	5.4	149	<5	1.14
E5563899 (9469925)	2.03	0.55	15.2	2.55	2	1	0.62	<0.2	2.3	0.33	5.1	153	18	1.06
E5563900 (9469926)	1.76	0.57	15.0	2.39	2	1	0.63	<0.2	2.6	0.30	5.3	143	53	1.10
E5563901 (9469927)	1.95	0.62	15.7	2.52	2	1	0.66	<0.2	2.4	0.32	5.2	144	<5	1.06
E5563902 (9469928)	1.75	0.61	15.2	2.33	2	1	0.60	<0.2	2.8	0.32	5.2	140	<5	1.10
E5563903 (9469929)	1.73	0.60	15.2	2.25	2	1	0.62	<0.2	2.4	0.31	5.0	138	<5	1.01
E5563904 (9469930)	1.85	0.58	14.7	2.40	2	1	0.61	<0.2	2.5	0.31	5.0	160	<5	1.04
E5563905 (9469931)	1.83	0.56	15.6	2.29	2	1	0.63	<0.2	2.3	0.30	4.9	169	<5	1.02
E5563906 (9469932)	1.81	0.57	15.6	2.47	2	1	0.65	<0.2	2.5	0.30	5.0	163	<5	1.08

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018					DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5563907 (9469933)	0.12	<0.05	0.30	0.22	<1	<1	<0.05	<0.2	1.2	<0.05	1.1	7	<5	0.30	
E5563908 (9469934)	1.80	0.63	15.3	2.39	2	1	0.61	<0.2	2.5	0.32	4.8	164	<5	1.02	
E5563909 (9469935)	1.84	0.63	15.8	2.51	2	1	0.66	<0.2	2.5	0.32	5.3	157	<5	1.07	
E5563910 (9469936)	1.91	0.60	15.3	2.52	2	1	0.64	<0.2	2.4	0.31	5.4	131	<5	1.07	
E5563911 (9469937)	1.98	0.56	15.8	2.41	2	1	0.62	<0.2	2.1	0.31	5.0	112	<5	1.01	
E5563912 (9469938)	1.72	4.22	47.5	12.3	7	5	0.74	8.7	267	0.21	141	36	40	49.4	
E5563913 (9469939)	0.07	<0.05	44.5	0.21	5	3	<0.05	<0.2	0.4	<0.05	0.8	6	<5	0.17	
E5563914 (9469940)	1.92	0.59	15.3	2.51	2	1	0.65	<0.2	2.6	0.31	5.2	112	<5	1.11	
E5563915 (9469941)	2.05	0.61	15.5	2.53	2	1	0.67	<0.2	2.6	0.32	5.5	117	<5	1.12	
E5563916 (9469942)	1.96	0.63	15.6	2.65	2	1	0.69	<0.2	2.7	0.34	5.3	121	<5	1.14	
E5563917 (9469943)	1.89	0.66	15.7	2.43	2	1	0.67	<0.2	2.6	0.33	5.2	119	<5	1.09	
E5563918 (9469944)	1.87	0.57	15.1	2.37	2	1	0.66	<0.2	2.6	0.30	5.0	133	37	1.05	
E5563919 (9469945)	1.97	0.70	15.5	2.64	2	1	0.71	<0.2	3.2	0.34	6.0	137	<5	1.24	
E5563920 (9469946)	1.76	0.51	14.9	2.05	2	1	0.62	<0.2	2.1	0.31	4.4	124	<5	0.93	
E5563921 (9469947)	1.76	0.61	13.8	2.34	1	1	0.59	<0.2	2.3	0.29	4.6	141	<5	0.94	
E5563922 (9469948)	1.88	0.58	15.2	2.62	2	1	0.68	<0.2	2.6	0.34	5.4	141	<5	1.13	
E5563923 (9469949)	1.93	0.66	15.8	2.66	2	1	0.66	<0.2	3.3	0.34	6.0	130	<5	1.33	
E5563924 (9469950)	1.93	0.61	15.4	2.40	2	1	0.66	<0.2	2.8	0.32	4.9	128	<5	1.02	
E5563925 (9469951)	0.10	0.06	43.4	0.23	7	3	0.07	<0.2	0.6	0.06	0.9	10	<5	0.22	
E5563926 (9469952)	1.60	0.50	21.1	2.13	4	1	0.55	<0.2	2.0	0.27	4.3	120	<5	0.88	
E5563927 (9469953)	0.11	<0.05	0.36	0.18	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	8	<5	0.28	
E5563928 (9469954)	0.08	<0.05	45.9	0.10	6	4	<0.05	<0.2	0.6	<0.05	0.3	8	<5	0.07	
E5563929 (9469955)	1.99	0.73	13.2	2.67	2	1	0.63	<0.2	4.1	0.36	6.7	115	<5	1.50	
E5563930 (9469956)	2.21	0.65	16.2	2.73	2	1	0.76	<0.2	2.6	0.36	6.0	131	<5	1.13	
E5563931 (9469957)	2.01	0.63	16.1	2.72	2	1	0.70	<0.2	2.7	0.33	5.6	126	<5	1.13	
E5563932 (9469958)	1.84	0.61	16.2	2.44	2	1	0.63	<0.2	2.7	0.31	5.4	136	<5	1.16	
E5563933 (9469959)	1.99	0.58	16.1	2.60	2	1	0.65	<0.2	2.7	0.32	5.6	139	<5	1.14	
E5563934 (9469960)	1.96	0.62	16.4	2.54	2	1	0.64	<0.2	2.5	0.32	5.3	134	<5	1.08	
E5563935 (9469961)	2.71	10.0	23.4	31.2	3	6	1.28	2.0	733	0.30	365	24	31	125	
E5563936 (9469962)	2.02	0.77	15.6	2.53	2	1	0.67	<0.2	2.9	0.33	5.5	119	6	1.17	
E5563937 (9469963)	1.90	0.60	13.9	2.28	2	1	0.63	<0.2	2.6	0.31	4.9	119	<5	1.00	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018					DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563811 (9469837)	0.14	<0.1	40	1.7	103	0.43	0.3	0.44	<0.5	0.28	0.07	257	<1	16.6	
E5563812 (9469838)	0.12	<0.1	41	1.6	112	0.41	0.3	0.45	<0.5	0.28	0.07	262	<1	16.4	
E5563813 (9469839)	0.12	<0.1	45	1.7	110	0.41	0.4	0.49	<0.5	0.29	0.26	284	<1	15.5	
E5563814 (9469840)	0.20	<0.1	30	1.6	58.2	0.42	0.2	0.33	<0.5	0.32	0.07	197	<1	17.4	
E5563815 (9469841)	0.03	9.3	10	43.6	283	3.36	91.2	0.47	10.9	0.29	15.9	64	5	26.4	
E5563816 (9469842)	0.11	0.1	39	1.8	91.7	0.44	0.8	0.43	<0.5	0.33	0.08	242	7	17.9	
E5563817 (9469843)	0.14	0.1	41	2.2	96.4	0.46	1.7	0.46	<0.5	0.28	0.13	260	<1	16.1	
E5563818 (9469844)	0.09	0.8	41	1.6	108	0.42	0.4	0.44	1.4	0.29	0.13	257	9	16.0	
E5563819 (9469845)	<0.01	0.5	<5	<0.1	45.2	<0.05	4.7	<0.01	29.3	<0.05	4.45	<5	1	<0.5	
E5563820 (9469846)	0.18	0.6	39	1.9	108	0.49	0.6	0.44	0.5	0.31	0.12	250	2	18.0	
E5563821 (9469847)	0.13	0.2	40	1.6	94.5	0.43	0.4	0.44	<0.5	0.31	0.07	254	<1	17.5	
E5563822 (9469848)	0.09	0.3	40	1.6	97.7	0.45	0.3	0.44	<0.5	0.33	0.07	256	27	17.4	
E5563823 (9469849)	0.09	0.2	42	1.8	115	0.45	0.3	0.46	<0.5	0.30	0.08	264	<1	16.6	
E5563824 (9469850)	0.12	0.2	43	1.6	113	0.43	0.3	0.48	<0.5	0.28	0.10	275	<1	16.1	
E5563825 (9469851)	0.10	0.1	43	1.6	106	0.44	0.3	0.46	<0.5	0.29	0.08	268	<1	16.3	
E5563826 (9469852)	0.08	0.2	42	1.7	131	0.44	0.3	0.45	<0.5	0.30	0.08	265	<1	16.1	
E5563827 (9469853)	<0.01	0.2	<5	0.2	1.7	<0.05	0.6	0.03	<0.5	<0.05	0.18	<5	<1	1.1	
E5563828 (9469854)	0.16	0.1	41	1.7	79.0	0.45	0.3	0.47	<0.5	0.33	0.07	262	<1	17.2	
E5563829 (9469855)	0.13	0.1	41	1.7	96.2	0.42	0.3	0.46	<0.5	0.29	0.08	259	<1	16.8	
E5563830 (9469856)	0.22	0.2	42	1.7	77.3	0.46	0.3	0.46	<0.5	0.29	0.07	267	<1	16.5	
E5563831 (9469857)	0.12	<0.1	42	1.7	75.3	0.44	0.3	0.47	<0.5	0.30	0.07	267	<1	16.5	
E5563832 (9469858)	0.04	26.4	8	18.1	191	1.57	115	0.37	7.3	0.25	25.4	76	16	17.7	
E5563833 (9469859)	0.10	0.1	40	1.5	77.1	0.41	0.7	0.45	<0.5	0.29	0.08	253	<1	15.5	
E5563834 (9469860)	0.15	0.5	40	1.5	67.5	0.41	0.4	0.44	0.5	0.29	0.07	251	<1	15.5	
E5563835 (9469861)	0.11	1.5	38	1.4	71.2	0.42	0.3	0.42	4.5	0.27	0.30	240	<1	14.7	
E5563836 (9469862)	0.13	1.5	37	1.5	70.8	0.37	0.4	0.42	5.8	0.25	0.33	241	<1	14.2	
E5563837 (9469863)	<0.01	0.5	<5	<0.1	25.1	<0.05	3.6	0.02	5.2	<0.05	3.58	8	2	0.5	
E5563838 (9469864)	<0.01	0.4	<5	<0.1	39.2	<0.05	1.8	0.02	24.7	<0.05	2.66	<5	6	<0.5	
E5563839 (9469865)	<0.01	1.0	<5	<0.1	25.1	<0.05	2.3	<0.01	18.5	<0.05	2.88	<5	2	<0.5	
E5563840 (9469866)	<0.01	1.2	<5	<0.1	25.2	<0.05	2.9	<0.01	20.0	<0.05	3.23	<5	1	<0.5	
E5563841 (9469867)	<0.01	2.8	<5	<0.1	26.6	<0.05	5.2	<0.01	21.1	<0.05	7.84	<5	3	<0.5	
E5563842 (9469868)	<0.01	1.0	<5	<0.1	57.5	<0.05	3.9	<0.01	56.3	<0.05	4.77	<5	1	<0.5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core			
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563843 (9469869)	<0.01	0.8	<5	<0.1	10.4	<0.05	4.1	<0.01	5.8	<0.05	3.14	<5	1	<0.5	
E5563844 (9469870)	<0.01	0.6	<5	1.4	40.6	0.37	9.8	0.02	20.8	0.16	8.10	<5	5	12.2	
E5563845 (9469871)	<0.01	0.6	<5	<0.1	19.5	<0.05	4.3	<0.01	6.6	<0.05	7.47	<5	1	<0.5	
E5563846 (9469872)	<0.01	0.5	<5	<0.1	23.7	<0.05	1.8	<0.01	11.1	<0.05	2.66	<5	1	<0.5	
E5563847 (9469873)	<0.01	0.2	<5	0.2	1.2	<0.05	0.8	0.03	<0.5	<0.05	0.16	<5	<1	1.0	
E5563848 (9469874)	0.09	1.2	42	1.5	112	0.43	0.6	0.48	1.0	0.30	0.51	269	<1	16.0	
E5563849 (9469875)	0.19	1.4	43	1.6	112	0.45	0.4	0.48	<0.5	0.32	0.14	274	1	17.7	
E5563850 (9469876)	0.23	1.6	42	1.5	108	0.45	0.4	0.46	<0.5	0.31	0.15	263	<1	17.1	
E5563851 (9469877)	0.16	1.7	43	1.8	103	0.48	0.3	0.48	<0.5	0.32	0.09	270	<1	17.7	
E5563852 (9469878)	0.11	0.5	43	1.7	133	0.44	0.3	0.48	<0.5	0.29	0.08	277	<1	17.1	
E5563853 (9469879)	0.10	0.4	42	1.7	149	0.41	0.3	0.47	<0.5	0.28	0.12	269	<1	16.7	
E5563854 (9469880)	0.11	0.4	43	1.8	134	0.45	0.3	0.48	<0.5	0.33	0.09	272	<1	17.7	
E5563855 (9469881)	0.03	10.4	10	43.2	285	3.34	96.1	0.48	11.5	0.31	16.3	64	5	27.4	
E5563856 (9469882)	0.12	<0.1	40	1.8	107	0.46	0.9	0.44	<0.5	0.32	0.09	257	<1	17.7	
E5563857 (9469883)	0.08	<0.1	39	1.6	103	0.41	0.4	0.43	<0.5	0.30	0.06	251	<1	15.4	
E5563858 (9469884)	0.11	0.1	40	1.7	115	0.41	0.4	0.45	<0.5	0.28	0.08	256	<1	16.4	
E5563859 (9469885)	0.16	<0.1	36	1.5	93.3	0.41	0.6	0.42	<0.5	0.28	0.06	234	<1	15.8	
E5563860 (9469886)	0.13	0.1	38	1.5	105	0.40	0.4	0.42	<0.5	0.30	0.07	245	<1	17.0	
E5563861 (9469887)	0.12	<0.1	41	1.7	154	0.41	0.4	0.45	<0.5	0.29	0.09	262	<1	16.9	
E5563862 (9469888)	0.16	0.6	40	1.7	148	0.41	0.4	0.44	4.9	0.29	0.22	251	<1	16.1	
E5563863 (9469889)	<0.01	0.6	<5	0.2	63.6	<0.05	4.0	0.01	43.1	<0.05	2.17	<5	2	0.9	
E5563864 (9469890)	0.09	0.6	39	1.5	101	0.39	0.7	0.43	0.9	0.30	0.15	247	<1	15.7	
E5563865 (9469891)	0.18	0.2	40	1.8	95.2	0.43	0.5	0.46	<0.5	0.29	0.07	259	<1	16.6	
E5563866 (9469892)	0.17	0.2	40	1.6	86.8	0.43	0.4	0.45	<0.5	0.29	0.07	257	<1	16.2	
E5563867 (9469893)	<0.01	0.2	<5	0.2	1.5	<0.05	0.7	0.03	<0.5	<0.05	0.18	<5	<1	1.0	
E5563868 (9469894)	0.11	0.3	42	1.7	106	0.43	0.4	0.46	<0.5	0.32	0.08	273	<1	17.5	
E5563869 (9469895)	0.08	0.3	42	1.6	93.0	0.39	0.3	0.47	<0.5	0.31	0.07	269	<1	15.7	
E5563870 (9469896)	0.18	0.2	40	1.7	90.1	0.44	0.3	0.44	<0.5	0.30	0.07	257	<1	16.1	
E5563871 (9469897)	0.13	0.2	38	1.6	83.9	0.42	0.3	0.42	<0.5	0.29	0.07	248	<1	16.9	
E5563872 (9469898)	0.03	27.1	8	17.9	190	1.50	117	0.37	7.4	0.26	25.6	74	14	17.7	
E5563873 (9469899)	0.11	0.2	45	1.8	90.4	0.46	0.7	0.50	<0.5	0.32	0.09	292	<1	17.8	
E5563874 (9469900)	0.13	<0.1	44	1.8	89.9	0.48	0.4	0.50	<0.5	0.34	0.08	288	<1	17.6	

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MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018					DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563875 (9469901)	0.27	<0.1	44	1.8	82.2	0.47	0.4	0.49	<0.5	0.32	0.08	283	<1	18.7	
E5563876 (9469902)	0.24	<0.1	44	1.8	81.2	0.47	0.3	0.49	<0.5	0.33	0.08	284	<1	18.6	
E5563877 (9469903)	0.19	<0.1	45	1.8	88.0	0.50	0.3	0.50	<0.5	0.34	0.08	292	<1	17.8	
E5563878 (9469904)	0.11	0.4	44	1.8	88.5	0.45	0.3	0.49	<0.5	0.33	0.07	282	<1	16.3	
E5563879 (9469905)	0.15	1.1	44	1.9	82.3	0.50	0.3	0.49	<0.5	0.33	0.08	288	<1	18.6	
E5563880 (9469906)	0.10	1.2	42	2.1	105	0.45	0.4	0.47	8.7	0.29	0.52	274	<1	16.0	
E5563881 (9469907)	<0.01	0.5	<5	0.1	17.2	<0.05	2.0	<0.01	4.1	<0.05	2.12	11	<1	0.7	
E5563882 (9469908)	<0.01	0.3	<5	0.1	50.3	<0.05	5.6	0.03	27.6	<0.05	16.1	16	7	<0.5	
E5563883 (9469909)	<0.01	0.4	<5	<0.1	49.2	<0.05	1.8	<0.01	43.0	<0.05	2.07	19	3	<0.5	
E5563884 (9469910)	<0.01	0.4	<5	<0.1	55.1	<0.05	1.3	<0.01	48.0	<0.05	1.39	17	2	<0.5	
E5563885 (9469911)	<0.01	0.5	<5	<0.1	44.0	<0.05	0.8	0.01	31.5	<0.05	2.73	21	3	<0.5	
E5563886 (9469912)	<0.01	0.7	<5	<0.1	55.6	<0.05	3.5	<0.01	17.6	<0.05	3.64	14	3	0.5	
E5563887 (9469913)	<0.01	0.2	<5	0.2	0.3	<0.05	0.8	0.03	<0.5	<0.05	0.21	<5	<1	1.1	
E5563888 (9469914)	<0.01	0.5	<5	0.2	25.9	<0.05	4.4	0.01	13.4	<0.05	5.04	32	2	1.2	
E5563889 (9469915)	<0.01	0.5	<5	0.2	27.6	<0.05	5.4	<0.01	6.9	<0.05	5.73	14	2	1.3	
E5563890 (9469916)	<0.01	0.6	<5	<0.1	24.1	<0.05	6.9	<0.01	8.9	<0.05	4.59	15	2	<0.5	
E5563891 (9469917)	0.11	1.4	43	1.7	106	0.44	0.8	0.48	1.4	0.31	0.20	281	<1	17.2	
E5563892 (9469918)	0.15	0.7	43	1.7	107	0.46	0.4	0.49	<0.5	0.31	0.07	284	<1	17.4	
E5563893 (9469919)	0.13	0.8	44	1.7	97.0	0.46	0.4	0.50	0.8	0.30	0.07	285	<1	17.0	
E5563894 (9469920)	0.11	0.8	44	1.6	96.1	0.46	0.3	0.49	6.1	0.32	0.49	284	<1	16.9	
E5563895 (9469921)	0.03	10.8	10	44.2	284	3.35	95.7	0.48	11.9	0.31	16.1	64	6	27.4	
E5563896 (9469922)	<0.01	0.5	<5	0.2	28.2	<0.05	8.0	<0.01	4.6	<0.05	5.12	15	2	0.8	
E5563897 (9469923)	0.16	1.2	43	1.7	82.7	0.43	0.9	0.49	4.6	0.29	0.32	276	<1	16.6	
E5563898 (9469924)	0.15	0.5	44	1.8	92.4	0.45	0.7	0.49	<0.5	0.33	0.20	284	<1	16.9	
E5563899 (9469925)	0.17	0.4	45	1.6	102	0.44	0.5	0.50	<0.5	0.32	1.12	291	<1	17.8	
E5563900 (9469926)	0.13	0.2	44	1.6	108	0.43	0.4	0.49	<0.5	0.30	0.08	283	<1	16.7	
E5563901 (9469927)	0.23	0.1	45	1.6	93.6	0.46	0.4	0.51	<0.5	0.33	0.08	291	<1	17.7	
E5563902 (9469928)	0.12	0.1	45	1.6	110	0.43	0.4	0.49	<0.5	0.32	0.07	284	<1	16.5	
E5563903 (9469929)	0.13	0.2	43	1.6	95.9	0.43	0.3	0.50	<0.5	0.32	0.07	275	<1	16.6	
E5563904 (9469930)	0.15	0.2	42	1.7	91.9	0.44	0.3	0.47	<0.5	0.28	0.10	275	<1	16.6	
E5563905 (9469931)	0.10	0.1	42	1.6	85.2	0.43	0.3	0.46	<0.5	0.32	0.06	270	<1	16.6	
E5563906 (9469932)	0.08	0.1	43	1.7	65.6	0.43	0.3	0.48	<0.5	0.30	0.07	274	<1	16.4	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018	DATE RECEIVED: Aug 14, 2018						DATE REPORTED: Sep 12, 2018					SAMPLE TYPE: Drill Core			
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563907 (9469933)	<0.01	0.2	<5	0.2	1.4	<0.05	0.7	0.03	<0.5	<0.05	0.17	<5	<1	1.1	
E5563908 (9469934)	0.12	0.1	43	1.7	80.8	0.42	0.3	0.47	<0.5	0.30	0.07	271	<1	16.9	
E5563909 (9469935)	0.13	0.1	43	1.8	79.0	0.44	0.3	0.48	<0.5	0.31	0.07	277	<1	17.5	
E5563910 (9469936)	0.10	0.1	42	1.8	74.7	0.45	0.3	0.48	<0.5	0.33	0.08	270	<1	17.5	
E5563911 (9469937)	0.09	0.3	45	1.6	72.2	0.46	0.3	0.48	1.8	0.32	0.28	283	<1	17.1	
E5563912 (9469938)	0.03	28.2	8	17.5	189	1.48	115	0.37	7.7	0.24	24.7	75	14	17.9	
E5563913 (9469939)	<0.01	0.1	<5	0.2	28.2	<0.05	4.9	<0.01	9.3	<0.05	5.63	<5	2	0.9	
E5563914 (9469940)	0.07	0.3	45	1.8	88.4	0.45	0.6	0.50	1.4	0.31	0.56	279	<1	17.7	
E5563915 (9469941)	0.10	<0.1	45	1.7	94.7	0.46	0.4	0.49	<0.5	0.33	0.08	286	<1	17.5	
E5563916 (9469942)	0.10	0.1	46	1.9	91.9	0.47	0.3	0.49	<0.5	0.34	0.08	291	<1	18.1	
E5563917 (9469943)	0.13	0.1	44	1.7	101	0.45	0.4	0.49	<0.5	0.32	0.10	278	<1	17.7	
E5563918 (9469944)	0.07	<0.1	42	1.7	91.0	0.41	0.3	0.45	0.7	0.29	0.06	264	53	16.7	
E5563919 (9469945)	0.06	<0.1	44	1.9	118	0.50	0.4	0.48	0.8	0.34	0.09	279	<1	19.5	
E5563920 (9469946)	0.17	0.1	38	1.5	67.2	0.40	0.5	0.43	<0.5	0.30	0.07	245	<1	15.0	
E5563921 (9469947)	0.34	<0.1	41	1.5	85.4	0.40	0.4	0.47	<0.5	0.32	0.05	264	<1	16.0	
E5563922 (9469948)	0.09	0.1	44	1.8	81.4	0.47	0.4	0.48	1.1	0.32	0.06	288	<1	18.1	
E5563923 (9469949)	0.05	0.1	43	1.9	123	0.47	0.5	0.48	0.8	0.31	0.09	274	181	18.8	
E5563924 (9469950)	0.08	0.5	42	1.6	107	0.46	0.3	0.47	0.8	0.29	0.09	267	120	18.2	
E5563925 (9469951)	<0.01	0.4	<5	0.2	23.0	0.07	4.9	0.01	4.1	0.06	3.18	5	4	0.7	
E5563926 (9469952)	0.04	0.8	39	1.4	99.3	0.39	0.8	0.42	36.8	0.28	0.54	249	1	15.0	
E5563927 (9469953)	<0.01	0.2	<5	0.2	1.0	<0.05	0.7	0.03	<0.5	<0.05	0.17	<5	<1	1.2	
E5563928 (9469954)	<0.01	0.5	<5	<0.1	26.8	<0.05	5.4	0.01	7.8	<0.05	7.74	6	2	0.7	
E5563929 (9469955)	0.14	0.3	37	1.9	69.7	0.48	0.8	0.40	3.1	0.35	0.26	239	<1	18.8	
E5563930 (9469956)	0.05	0.3	44	1.9	113	0.54	0.4	0.49	2.1	0.39	0.10	284	<1	20.7	
E5563931 (9469957)	0.09	0.3	44	1.8	178	0.48	0.4	0.49	<0.5	0.33	0.07	291	<1	19.1	
E5563932 (9469958)	0.12	0.1	45	1.7	170	0.47	0.3	0.49	<0.5	0.33	0.08	285	<1	17.4	
E5563933 (9469959)	0.08	0.2	47	1.9	157	0.46	0.3	0.52	<0.5	0.34	0.08	292	<1	17.9	
E5563934 (9469960)	0.19	0.1	46	1.8	102	0.46	0.3	0.50	<0.5	0.34	0.11	285	<1	18.1	
E5563935 (9469961)	0.02	11.9	10	45.1	276	3.57	98.6	0.47	12.4	0.34	16.4	60	5	29.0	
E5563936 (9469962)	0.14	0.4	42	1.8	100	0.43	0.8	0.46	<0.5	0.32	0.08	264	12	18.6	
E5563937 (9469963)	0.12	0.1	43	1.7	98.6	0.41	0.4	0.47	<0.5	0.32	0.07	272	3	16.6	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563811 (9469837)		1.9	87	39.1
E5563812 (9469838)		2.0	84	38.5
E5563813 (9469839)		1.9	97	42.2
E5563814 (9469840)		2.0	70	28.4
E5563815 (9469841)		1.9	140	204
E5563816 (9469842)		2.0	80	39.4
E5563817 (9469843)		1.9	85	40.4
E5563818 (9469844)		1.9	97	38.3
E5563819 (9469845)		<0.1	34	10.5
E5563820 (9469846)		2.0	91	37.4
E5563821 (9469847)		2.0	88	37.5
E5563822 (9469848)		2.1	82	37.6
E5563823 (9469849)		2.0	91	40.0
E5563824 (9469850)		1.9	90	40.6
E5563825 (9469851)		1.9	93	38.5
E5563826 (9469852)		1.9	90	41.5
E5563827 (9469853)		0.1	<5	20.2
E5563828 (9469854)		2.1	92	41.8
E5563829 (9469855)		2.0	86	40.1
E5563830 (9469856)		2.1	90	38.5
E5563831 (9469857)		2.0	84	39.5
E5563832 (9469858)		1.6	363	159
E5563833 (9469859)		1.9	88	37.7
E5563834 (9469860)		2.0	95	37.1
E5563835 (9469861)		1.7	85	35.5
E5563836 (9469862)		1.8	84	36.0
E5563837 (9469863)		<0.1	50	9.5
E5563838 (9469864)		<0.1	236	10.0
E5563839 (9469865)		<0.1	86	4.5
E5563840 (9469866)		<0.1	69	4.0
E5563841 (9469867)		<0.1	92	8.8
E5563842 (9469868)		<0.1	35	7.1

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563843 (9469869)		<0.1	43	6.2
E5563844 (9469870)		0.9	169	17.6
E5563845 (9469871)		<0.1	40	32.3
E5563846 (9469872)		<0.1	34	8.3
E5563847 (9469873)		0.1	<5	21.1
E5563848 (9469874)		2.0	71	40.5
E5563849 (9469875)		2.0	90	41.4
E5563850 (9469876)		2.0	205	40.1
E5563851 (9469877)		2.2	108	41.7
E5563852 (9469878)		1.9	119	41.8
E5563853 (9469879)		2.0	84	39.5
E5563854 (9469880)		2.1	84	41.7
E5563855 (9469881)		2.0	143	211
E5563856 (9469882)		2.0	77	38.0
E5563857 (9469883)		1.9	88	36.9
E5563858 (9469884)		2.0	86	38.3
E5563859 (9469885)		1.8	79	36.3
E5563860 (9469886)		1.9	83	36.3
E5563861 (9469887)		1.9	88	41.1
E5563862 (9469888)		1.7	100	38.3
E5563863 (9469889)		<0.1	54	13.1
E5563864 (9469890)		1.8	85	37.5
E5563865 (9469891)		1.9	86	39.5
E5563866 (9469892)		2.0	91	37.7
E5563867 (9469893)		0.1	<5	24.8
E5563868 (9469894)		2.2	84	39.6
E5563869 (9469895)		1.9	88	39.3
E5563870 (9469896)		1.9	81	38.0
E5563871 (9469897)		1.9	77	35.6
E5563872 (9469898)		1.6	348	166
E5563873 (9469899)		2.0	82	42.2
E5563874 (9469900)		2.2	88	42.1

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563875 (9469901)		2.0	89	42.2
E5563876 (9469902)		2.2	86	40.7
E5563877 (9469903)		2.0	91	43.0
E5563878 (9469904)		2.2	87	40.1
E5563879 (9469905)		2.3	86	44.3
E5563880 (9469906)		1.8	120	41.4
E5563881 (9469907)		<0.1	47	3.3
E5563882 (9469908)		<0.1	264	9.8
E5563883 (9469909)		<0.1	126	2.1
E5563884 (9469910)		<0.1	118	1.8
E5563885 (9469911)		<0.1	169	1.6
E5563886 (9469912)		<0.1	115	6.7
E5563887 (9469913)		0.2	<5	26.9
E5563888 (9469914)		0.1	110	5.5
E5563889 (9469915)		0.1	49	42.0
E5563890 (9469916)		<0.1	60	19.2
E5563891 (9469917)		2.0	110	40.9
E5563892 (9469918)		2.2	93	40.0
E5563893 (9469919)		2.0	86	41.1
E5563894 (9469920)		2.0	88	39.8
E5563895 (9469921)		2.0	145	216
E5563896 (9469922)		<0.1	29	27.3
E5563897 (9469923)		2.0	123	40.5
E5563898 (9469924)		2.1	89	40.6
E5563899 (9469925)		2.1	103	41.1
E5563900 (9469926)		2.0	182	39.0
E5563901 (9469927)		2.1	88	41.2
E5563902 (9469928)		1.9	84	39.0
E5563903 (9469929)		2.1	91	41.3
E5563904 (9469930)		2.1	90	39.0
E5563905 (9469931)		2.1	87	39.6
E5563906 (9469932)		2.2	90	40.3

Certified By:



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DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563907 (9469933)		0.2	<5	25.1
E5563908 (9469934)		2.0	87	39.3
E5563909 (9469935)		2.0	88	41.6
E5563910 (9469936)		2.2	130	40.5
E5563911 (9469937)		2.1	75	42.0
E5563912 (9469938)		1.6	365	167
E5563913 (9469939)		<0.1	35	19.3
E5563914 (9469940)		2.2	90	42.3
E5563915 (9469941)		2.1	84	41.9
E5563916 (9469942)		2.2	86	42.7
E5563917 (9469943)		2.2	86	41.7
E5563918 (9469944)		2.1	95	39.4
E5563919 (9469945)		2.2	91	43.9
E5563920 (9469946)		1.9	86	37.0
E5563921 (9469947)		2.0	74	35.8
E5563922 (9469948)		2.2	99	42.7
E5563923 (9469949)		2.1	88	42.2
E5563924 (9469950)		2.1	104	40.1
E5563925 (9469951)		<0.1	28	16.5
E5563926 (9469952)		1.8	121	35.9
E5563927 (9469953)		0.2	<5	21.6
E5563928 (9469954)		<0.1	55	25.1
E5563929 (9469955)		2.2	105	36.6
E5563930 (9469956)		2.4	97	42.8
E5563931 (9469957)		2.3	83	43.4
E5563932 (9469958)		2.1	88	43.0
E5563933 (9469959)		2.2	92	44.7
E5563934 (9469960)		2.3	91	43.5
E5563935 (9469961)		2.1	151	222
E5563936 (9469962)		2.1	343	42.1
E5563937 (9469963)		2.0	84	36.4

Certified By:



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Sieving - % Passing (Crushing)

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563811 (9469837)		93
E5563830 (9469856)		81
E5563836 (9469862)		86.5
E5563856 (9469882)		92.6
E5563865 (9469891)		87
E5563875 (9469901)		90.5
E5563892 (9469918)		76
E5563902 (9469928)		75
E5563913 (9469939)		86
E5563918 (9469944)		99

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Aug 13, 2018

DATE RECEIVED: Aug 14, 2018

DATE REPORTED: Sep 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563811 (9469837)		93.8
E5563836 (9469862)		91.3
E5563868 (9469894)		95.4
E5563900 (9469926)		94.1
E5563918 (9469944)		93.1

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9469837	3.10	3.10	0.0%	9469848	3.10	3.10	0.0%	9469861	3.20	3.20	0.0%	9469872	2.80	2.80	0.0%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9469888	3.20	3.20	0.0%	9469901	3.10	3.10	0.0%	9469909	2.70	2.70	0.0%	9469920	3.00	3.00	0.0%
	REPLICATE #9				REPLICATE #10				REPLICATE #11							
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Specific Gravity	9469935	3.10	3.10	0.0%	9469945	3.10	3.10	0.0%	9469960	3.00	3.00	0.0%				

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9469837	98	97	1.0%	9469848	166	161	3.1%	9469861	1650	1680	1.8%	9469872	1970	2030	3.0%
Li2O	9469837	0.021	0.021	0.0%	9469848	0.036	0.035	2.8%	9469861	0.356	0.362	1.7%	9469872	0.424	0.436	2.8%
Ta	9469837	< 0.5	< 0.5	0.0%	9469848	< 0.5	< 0.5	0.0%	9469861	< 0.5	< 0.5	0.0%	9469872	122	140	13.7%
Nb	9469837	2	2	0.0%	9469848	2	2	0.0%	9469861	2	2	0.0%	9469872	42	50	17.4%
Sn	9469837	< 1	< 1	0.0%	9469848	< 1	3		9469861	2	2	0.0%	9469872	13	11	16.7%
Cs	9469837	2.36	2.24	5.2%	9469848	2.77	2.72	1.8%	9469861	858	774	10.3%	9469872	156	169	8.0%
Rb	9469837	9.4	9.4	0.0%	9469848	10.9	11.0	0.9%	9469861	434	390	10.7%	9469872	1200	1240	3.3%
K	9469837	0.14	0.14	0.0%	9469848	0.176	0.175	0.6%	9469861	0.481	0.462	4.0%	9469872	0.983	1.00	1.7%
Mg	9469837	4.69	4.53	3.5%	9469848	4.50	4.53	0.7%	9469861	5.85	5.84	0.2%	9469872	0.05	0.05	0.0%
Fe	9469837	9.14	9.09	0.5%	9469848	8.71	8.67	0.5%	9469861	8.71	8.92	2.4%	9469872	0.329	0.335	1.8%
P	9469837	0.029	0.025	14.8%	9469848	0.023	0.027	16.0%	9469861	0.03	0.03	0.0%	9469872	0.078	0.075	3.9%
Al	9469837	8.16	8.13	0.4%	9469848	7.78	7.79	0.1%	9469861	7.67	7.83	2.1%	9469872	8.22	8.33	1.3%
Si	9469837	21.6	21.5	0.5%	9469848	20.8	20.7	0.5%	9469861	21.6	21.5	0.5%	9469872	33.1	33.5	1.2%
Be	9469837	< 5	< 5	0.0%	9469848	< 5	< 5	0.0%	9469861	< 5	< 5	0.0%	9469872	102	114	11.1%
B	9469837	< 20	< 20	0.0%	9469848	< 20	< 20	0.0%	9469861	317	379	17.8%	9469872	< 20	< 20	0.0%
Mn	9469837	1500	1480	1.3%	9469848	1530	1520	0.7%	9469861	1390	1410	1.4%	9469872	481	499	3.7%
Mo	9469837	3	4	28.6%	9469848	3	3	0.0%	9469861	5	4	22.2%	9469872	4	4	0.0%
Bi	9469837	< 0.1	< 0.1	0.0%	9469848	< 0.1	< 0.1	0.0%	9469861	< 0.1	< 0.1	0.0%	9469872	5.2	3.5	
As	9469837	< 5	< 5	0.0%	9469848	< 5	< 5	0.0%	9469861	< 5	< 5	0.0%	9469872	< 5	< 5	0.0%
Ag	9469837	< 1	< 1	0.0%	9469848	< 1	< 1	0.0%	9469861	< 1	< 1	0.0%	9469872	1	1	0.0%
Ba	9469837	26.0	24.8	4.7%	9469848	23.3	22.5	3.5%	9469861	34.0	35.2	3.5%	9469872	9.45	9.11	3.7%



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Ca	9469837	9.26	9.09	1.9%	9469848	10.4	10.2	1.9%	9469861	7.20	7.27	1.0%	9469872	0.28	0.29	3.5%
Cd	9469837	< 0.2	0.4		9469848	< 0.2	< 0.2	0.0%	9469861	0.2	0.2	0.0%	9469872	< 0.2	< 0.2	0.0%
Ce	9469837	6.5	6.2	4.7%	9469848	6.23	6.13	1.6%	9469861	5.9	6.3	6.6%	9469872	0.5	0.5	0.0%
Co	9469837	55.1	54.2	1.6%	9469848	56.9	55.4	2.7%	9469861	53.6	53.4	0.4%	9469872	< 0.5	< 0.5	0.0%
Cr	9469837	0.027	0.027	0.0%	9469848	0.0266	0.0264	0.8%	9469861	0.0256	0.0253	1.2%	9469872	< 0.005	< 0.005	0.0%
Cu	9469837	170	170	0.0%	9469848	137	135	1.5%	9469861	128	122	4.8%	9469872	< 5	< 5	0.0%
Dy	9469837	2.70	2.56	5.3%	9469848	2.91	3.01	3.4%	9469861	2.45	2.44	0.4%	9469872	0.06	0.06	0.0%
Er	9469837	1.78	1.75	1.7%	9469848	1.96	2.03	3.5%	9469861	1.62	1.61	0.6%	9469872	< 0.05	< 0.05	0.0%
Eu	9469837	0.61	0.57	6.8%	9469848	0.554	0.574	3.5%	9469861	0.52	0.55	5.6%	9469872	< 0.05	< 0.05	0.0%
Ga	9469837	15.4	15.0	2.6%	9469848	14.9	14.6	2.0%	9469861	14.8	15.1	2.0%	9469872	39.8	40.9	2.7%
Gd	9469837	2.22	2.24	0.9%	9469848	2.42	2.43	0.4%	9469861	2.12	2.22	4.6%	9469872	0.075	0.076	1.3%
Ge	9469837	2	2	0.0%	9469848	2	2	0.0%	9469861	2	2	0.0%	9469872	6	7	15.4%
Hf	9469837	1	1	0.0%	9469848	1	1	0.0%	9469861	1	1	0.0%	9469872	2	1	
Ho	9469837	0.603	0.608	0.8%	9469848	0.636	0.628	1.3%	9469861	0.535	0.557	4.0%	9469872	< 0.05	< 0.05	0.0%
In	9469837	< 0.2	< 0.2	0.0%	9469848	< 0.2	< 0.2	0.0%	9469861	< 0.2	< 0.2	0.0%	9469872	< 0.2	< 0.2	0.0%
La	9469837	2.6	2.4	8.0%	9469848	2.43	2.35	3.3%	9469861	2.34	2.57	9.4%	9469872	0.25	0.21	17.4%
Lu	9469837	0.30	0.29	3.4%	9469848	0.318	0.327	2.8%	9469861	0.264	0.274	3.7%	9469872	< 0.05	< 0.05	0.0%
Nd	9469837	5.06	4.82	4.9%	9469848	4.97	4.73	4.9%	9469861	4.53	4.73	4.3%	9469872	0.3	0.3	0.0%
Ni	9469837	160	161	0.6%	9469848	182	183	0.5%	9469861	183	179	2.2%	9469872	< 5	6	
Pb	9469837	< 5	< 5	0.0%	9469848	< 5	< 5	0.0%	9469861	< 5	< 5	0.0%	9469872	< 5	< 5	0.0%
Pr	9469837	1.06	0.97	8.9%	9469848	0.99	0.97	2.0%	9469861	0.91	0.95	4.3%	9469872	0.07	0.07	0.0%
S	9469837	0.144	0.147	2.1%	9469848	0.091	0.097	6.4%	9469861	0.11	0.10	9.5%	9469872	< 0.01	< 0.01	0.0%
Sb	9469837	< 0.1	< 0.1	0.0%	9469848	0.29	0.23	23.1%	9469861	1.5	2.1		9469872	0.5	0.5	0.0%
Sc	9469837	40	41	2.5%	9469848	40	40	0.0%	9469861	38	38	0.0%	9469872	< 5	< 5	0.0%
Sm	9469837	1.68	1.63	3.0%	9469848	1.65	1.76	6.5%	9469861	1.42	1.58	10.7%	9469872	< 0.1	< 0.1	0.0%
Sr	9469837	103	106	2.9%	9469848	97.7	95.0	2.8%	9469861	71.2	68.3	4.2%	9469872	23.7	24.0	1.3%
Tb	9469837	0.43	0.41	4.8%	9469848	0.45	0.45	0.0%	9469861	0.421	0.371	12.6%	9469872	< 0.05	< 0.05	0.0%
Th	9469837	0.3	0.3	0.0%	9469848	0.3	0.3	0.0%	9469861	0.3	0.3	0.0%	9469872	1.8	2.5	
Ti	9469837	0.444	0.447	0.7%	9469848	0.44	0.44	0.0%	9469861	0.416	0.425	2.1%	9469872	< 0.01	< 0.01	0.0%
Tl	9469837	< 0.5	< 0.5	0.0%	9469848	< 0.5	< 0.5	0.0%	9469861	4.48	4.22	6.0%	9469872	11.1	11.4	2.7%
Tm	9469837	0.28	0.28	0.0%	9469848	0.33	0.33	0.0%	9469861	0.270	0.276	2.2%	9469872	< 0.05	< 0.05	0.0%
U	9469837	0.07	0.07	0.0%	9469848	0.070	0.064	9.0%	9469861	0.30	0.34	12.5%	9469872	2.66	2.84	6.5%
V	9469837	257	258	0.4%	9469848	256	252	1.6%	9469861	240	246	2.5%	9469872	< 5	< 5	0.0%
W	9469837	< 1	< 1	0.0%	9469848	27	33	20.0%	9469861	< 1	< 1	0.0%	9469872	1	1	0.0%



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Y	9469837	16.6	16.1	3.1%	9469848	17.4	17.3	0.6%	9469861	14.7	14.6	0.7%	9469872	< 0.5	< 0.5	0.0%
Yb	9469837	1.9	1.9	0.0%	9469848	2.1	2.0	4.9%	9469861	1.7	1.7	0.0%	9469872	< 0.1	< 0.1	0.0%
Zn	9469837	87	85	2.3%	9469848	82	81	1.2%	9469861	85	95	11.1%	9469872	34	35	2.9%
Zr	9469837	39.1	38.7	1.0%	9469848	37.6	37.4	0.5%	9469861	35.5	36.1	1.7%	9469872	8.3	10.0	18.6%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Li	9469888	659	666	1.1%	9469901	322	326	1.2%	9469909	7200	7120	1.1%	9469920	2460	2530	2.8%
Li2O	9469888	0.142	0.143	0.7%	9469901	0.0692	0.0702	1.4%	9469909	1.55	1.53	1.3%	9469920	0.530	0.544	2.6%
Ta	9469888	4.0	2.7		9469901	< 0.5	< 0.5	0.0%	9469909	91.7	81.8	11.4%	9469920	< 0.5	< 0.5	0.0%
Nb	9469888	3	3	0.0%	9469901	3	2		9469909	40	40	0.0%	9469920	2	2	0.0%
Sn	9469888	3	3	0.0%	9469901	1	1	0.0%	9469909	40	35	13.3%	9469920	2	2	0.0%
Cs	9469888	198	201	1.5%	9469901	2.1	2.1	0.0%	9469909	555	493	11.8%	9469920	419	422	0.7%
Rb	9469888	505	523	3.5%	9469901	6.72	6.75	0.4%	9469909	4460	3950	12.1%	9469920	508	509	0.2%
K	9469888	0.54	0.55	1.8%	9469901	0.15	0.15	0.0%	9469909	2.96	2.72	8.5%	9469920	0.53	0.55	3.7%
Mg	9469888	4.75	4.80	1.0%	9469901	5.00	4.88	2.4%	9469909	0.07	0.07	0.0%	9469920	5.53	5.64	2.0%
Fe	9469888	9.04	8.98	0.7%	9469901	9.77	9.91	1.4%	9469909	0.871	1.01	14.8%	9469920	9.44	9.67	2.4%
P	9469888	0.03	0.03	0.0%	9469901	0.03	0.03	0.0%	9469909	0.056	0.051	9.3%	9469920	0.02	0.03	
Al	9469888	8.13	8.10	0.4%	9469901	7.78	7.94	2.0%	9469909	7.79	7.44	4.6%	9469920	7.99	8.20	2.6%
Si	9469888	22.0	21.9	0.5%	9469901	21.8	22.1	1.4%	9469909	34.5	34.9	1.2%	9469920	22.0	22.5	2.2%
Be	9469888	5	5	0.0%	9469901	< 5	< 5	0.0%	9469909	72	82	13.0%	9469920	< 5	< 5	0.0%
B	9469888	< 20	< 20	0.0%	9469901	< 20	< 20	0.0%	9469909	20	19	5.1%	9469920	< 20	< 20	0.0%
Mn	9469888	1570	1550	1.3%	9469901	1480	1500	1.3%	9469909	883	899	1.8%	9469920	1330	1340	0.7%
Mo	9469888	2	2	0.0%	9469901	5	5	0.0%	9469909	16	19	17.1%	9469920	3	3	0.0%
Bi	9469888	< 0.1	< 0.1	0.0%	9469901	< 0.1	< 0.1	0.0%	9469909	16.9	21.2	22.6%	9469920	< 0.1	< 0.1	0.0%
As	9469888	< 5	< 5	0.0%	9469901	< 5	< 5	0.0%	9469909	< 5	< 5	0.0%	9469920	< 5	< 5	0.0%
Ag	9469888	< 1	< 1	0.0%	9469901	1	< 1		9469909	1	1	0.0%	9469920	< 1	< 1	0.0%
Ba	9469888	50.5	50.9	0.8%	9469901	21.3	20.6	3.3%	9469909	8.59	7.63	11.8%	9469920	39.9	40.8	2.2%
Ca	9469888	8.36	8.30	0.7%	9469901	8.33	8.30	0.4%	9469909	0.154	0.174	12.2%	9469920	7.49	7.51	0.3%
Cd	9469888	< 0.2	< 0.2	0.0%	9469901	< 0.2	< 0.2	0.0%	9469909	0.2	< 0.2		9469920	< 0.2	< 0.2	0.0%
Ce	9469888	6.05	6.11	1.0%	9469901	7.02	7.05	0.4%	9469909	0.3	0.3	0.0%	9469920	6.19	6.00	3.1%
Co	9469888	53.4	53.5	0.2%	9469901	53.5	52.7	1.5%	9469909	1.4	1.4	0.0%	9469920	50.3	47.8	5.1%
Cr	9469888	0.0266	0.0264	0.8%	9469901	0.029	0.029	0.0%	9469909	0.008	0.010	22.2%	9469920	0.029	0.029	0.0%
Cu	9469888	144	143	0.7%	9469901	202	211	4.4%	9469909	5	9		9469920	131	127	3.1%
Dy	9469888	2.61	2.55	2.3%	9469901	2.94	2.98	1.4%	9469909	< 0.05	< 0.05	0.0%	9469920	2.79	2.78	0.4%



CLIENT NAME: ARDIDEN LTD

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Er	9469888	1.82	1.76	3.4%	9469901	1.98	1.83	7.9%	9469909	< 0.05	< 0.05	0.0%	9469920	1.95	1.82	6.9%
Eu	9469888	0.53	0.52	1.9%	9469901	0.65	0.68	4.5%	9469909	< 0.05	< 0.05	0.0%	9469920	0.533	0.561	5.1%
Ga	9469888	15.4	15.8	2.6%	9469901	15.8	15.8	0.0%	9469909	53.3	49.4	7.6%	9469920	15.2	14.2	6.8%
Gd	9469888	2.22	2.24	0.9%	9469901	2.67	2.59	3.0%	9469909	< 0.05	< 0.05	0.0%	9469920	2.37	2.23	6.1%
Ge	9469888	2	2	0.0%	9469901	2	2	0.0%	9469909	6	6	0.0%	9469920	2	2	0.0%
Hf	9469888	1	1	0.0%	9469901	1	1	0.0%	9469909	< 1	< 1	0.0%	9469920	1	1	0.0%
Ho	9469888	0.57	0.60	5.1%	9469901	0.682	0.696	2.0%	9469909	< 0.05	< 0.05	0.0%	9469920	0.61	0.61	0.0%
In	9469888	< 0.2	< 0.2	0.0%	9469901	< 0.2	< 0.2	0.0%	9469909	< 0.2	< 0.2	0.0%	9469920	< 0.2	< 0.2	0.0%
La	9469888	2.3	2.3	0.0%	9469901	2.7	2.8	3.6%	9469909	0.1	0.1	0.0%	9469920	2.29	2.13	7.2%
Lu	9469888	0.315	0.296	6.2%	9469901	0.327	0.312	4.7%	9469909	< 0.05	< 0.05	0.0%	9469920	0.31	0.29	6.7%
Nd	9469888	4.6	4.6	0.0%	9469901	5.47	5.44	0.5%	9469909	0.15	0.12	22.2%	9469920	4.85	4.73	2.5%
Ni	9469888	162	162	0.0%	9469901	136	136	0.0%	9469909	70	89	23.9%	9469920	150	154	2.6%
Pb	9469888	< 5	< 5	0.0%	9469901	< 5	< 5	0.0%	9469909	< 5	< 5	0.0%	9469920	< 5	< 5	0.0%
Pr	9469888	0.93	0.97	4.2%	9469901	1.08	1.12	3.6%	9469909	< 0.05	< 0.05	0.0%	9469920	0.978	0.969	0.9%
S	9469888	0.16	0.16	0.0%	9469901	0.27	0.26	3.8%	9469909	< 0.01	< 0.01	0.0%	9469920	0.11	0.11	0.0%
Sb	9469888	0.6	0.6	0.0%	9469901	< 0.1	< 0.1	0.0%	9469909	0.4	0.4	0.0%	9469920	0.8	0.8	0.0%
Sc	9469888	40	40	0.0%	9469901	44	44	0.0%	9469909	< 5	< 5	0.0%	9469920	44	45	2.2%
Sm	9469888	1.66	1.50	10.1%	9469901	1.82	1.92	5.3%	9469909	< 0.1	< 0.1	0.0%	9469920	1.60	1.69	5.5%
Sr	9469888	148	147	0.7%	9469901	82.2	81.7	0.6%	9469909	49.2	48.3	1.8%	9469920	96.1	97.0	0.9%
Tb	9469888	0.41	0.43	4.8%	9469901	0.473	0.482	1.9%	9469909	< 0.05	< 0.05	0.0%	9469920	0.455	0.417	8.7%
Th	9469888	0.4	0.4	0.0%	9469901	0.37	0.33	11.4%	9469909	1.8	1.2		9469920	0.3	0.3	0.0%
Ti	9469888	0.44	0.44	0.0%	9469901	0.49	0.49	0.0%	9469909	< 0.01	0.01		9469920	0.489	0.496	1.4%
Tl	9469888	4.95	5.33	7.4%	9469901	< 0.5	< 0.5	0.0%	9469909	43.0	37.2	14.5%	9469920	6.1	6.1	0.0%
Tm	9469888	0.288	0.296	2.7%	9469901	0.323	0.331	2.4%	9469909	< 0.05	< 0.05	0.0%	9469920	0.316	0.297	6.2%
U	9469888	0.22	0.14		9469901	0.08	0.08	0.0%	9469909	2.07	1.93	7.0%	9469920	0.49	0.50	2.0%
V	9469888	251	248	1.2%	9469901	283	284	0.4%	9469909	19	24	23.3%	9469920	284	286	0.7%
W	9469888	< 1	< 1	0.0%	9469901	< 1	< 1	0.0%	9469909	3	3	0.0%	9469920	< 1	1	
Y	9469888	16.1	15.9	1.3%	9469901	18.7	18.4	1.6%	9469909	< 0.5	< 0.5	0.0%	9469920	16.9	16.1	4.8%
Yb	9469888	1.7	1.9	11.1%	9469901	2.05	2.21	7.5%	9469909	< 0.1	< 0.1	0.0%	9469920	2.03	1.83	10.4%
Zn	9469888	100	100	0.0%	9469901	89	89	0.0%	9469909	126	134	6.2%	9469920	88	87	1.1%
Zr	9469888	38.3	37.5	2.1%	9469901	42.2	41.5	1.7%	9469909	2.1	2.5	17.4%	9469920	39.8	38.0	4.6%
		REPLICATE #9				REPLICATE #10				REPLICATE #11						
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Li	9469935	354	357	0.8%	9469944	222	225	1.3%	9469960	236	239	1.3%				



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Li2O	9469935	0.0763	0.0768	0.7%	9469944	0.048	0.048	0.0%	9469960	0.051	0.051	0.0%			
Ta	9469935	< 0.5	< 0.5	0.0%	9469944	< 0.5	< 0.5	0.0%	9469960	3.6	2.7				
Nb	9469935	2	2	0.0%	9469944	2	2	0.0%	9469960	4	3				
Sn	9469935	1	1	0.0%	9469944	62	70	12.1%	9469960	1	2				
Cs	9469935	3.01	2.81	6.9%	9469944	120	126	4.9%	9469960	93.3	80.8	14.4%			
Rb	9469935	6.7	6.6	1.5%	9469944	92.6	96.3	3.9%	9469960	53.4	48.7	9.2%			
K	9469935	0.127	0.136	6.8%	9469944	0.44	0.43	2.3%	9469960	0.28	0.26	7.4%			
Mg	9469935	5.27	5.55	5.2%	9469944	4.91	4.70	4.4%	9469960	5.18	4.96	4.3%			
Fe	9469935	9.52	9.56	0.4%	9469944	9.05	8.97	0.9%	9469960	9.57	9.27	3.2%			
P	9469935	0.03	0.03	0.0%	9469944	0.03	0.03	0.0%	9469960	0.03	0.03	0.0%			
Al	9469935	8.27	8.16	1.3%	9469944	7.54	7.48	0.8%	9469960	8.10	8.01	1.1%			
Si	9469935	22.7	22.8	0.4%	9469944	21.8	21.6	0.9%	9469960	21.5	20.7	3.8%			
Be	9469935	< 5	< 5	0.0%	9469944	< 5	< 5	0.0%	9469960	< 5	< 5	0.0%			
B	9469935	< 20	< 20	0.0%	9469944	< 20	< 20	0.0%	9469960	< 20	< 20	0.0%			
Mn	9469935	1510	1500	0.7%	9469944	1650	1620	1.8%	9469960	1450	1430	1.4%			
Mo	9469935	2	3		9469944	3	3	0.0%	9469960	2	2	0.0%			
Bi	9469935	< 0.1	< 0.1	0.0%	9469944	0.1	0.2		9469960	< 0.1	< 0.1	0.0%			
As	9469935	< 5	< 5	0.0%	9469944	< 5	< 5	0.0%	9469960	< 5	< 5	0.0%			
Ag	9469935	< 1	< 1	0.0%	9469944	< 1	< 1	0.0%	9469960	< 1	< 1	0.0%			
Ba	9469935	26.4	26.8	1.5%	9469944	147	149	1.4%	9469960	36.1	34.1	5.7%			
Ca	9469935	8.55	8.39	1.9%	9469944	8.12	8.10	0.2%	9469960	8.03	7.76	3.4%			
Cd	9469935	< 0.2	< 0.2	0.0%	9469944	< 0.2	0.2		9469960	< 0.2	0.4				
Ce	9469935	6.6	6.5	1.5%	9469944	6.7	6.7	0.0%	9469960	6.79	6.71	1.2%			
Co	9469935	53.3	51.3	3.8%	9469944	51.2	52.4	2.3%	9469960	54.7	54.9	0.4%			
Cr	9469935	0.029	0.029	0.0%	9469944	0.027	0.027	0.0%	9469960	0.029	0.029	0.0%			
Cu	9469935	171	170	0.6%	9469944	81	82	1.2%	9469960	204	188	8.2%			
Dy	9469935	2.87	2.80	2.5%	9469944	2.80	2.85	1.8%	9469960	3.08	2.89	6.4%			
Er	9469935	1.84	1.77	3.9%	9469944	1.87	1.93	3.2%	9469960	1.96	1.97	0.5%			
Eu	9469935	0.628	0.589	6.4%	9469944	0.57	0.66	14.6%	9469960	0.62	0.58	6.7%			
Ga	9469935	15.8	15.1	4.5%	9469944	15.1	15.2	0.7%	9469960	16.4	16.7	1.8%			
Gd	9469935	2.51	2.38	5.3%	9469944	2.37	2.57	8.1%	9469960	2.54	2.60	2.3%			
Ge	9469935	2	2	0.0%	9469944	2	2	0.0%	9469960	2	2	0.0%			
Hf	9469935	1	1	0.0%	9469944	1	1	0.0%	9469960	1	1	0.0%			
Ho	9469935	0.66	0.61	7.9%	9469944	0.66	0.65	1.5%	9469960	0.638	0.657	2.9%			



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In	9469935	< 0.2	< 0.2	0.0%	9469944	< 0.2	< 0.2	0.0%	9469960	< 0.2	< 0.2	0.0%				
La	9469935	2.5	2.4	4.1%	9469944	2.57	2.49	3.2%	9469960	2.48	2.42	2.4%				
Lu	9469935	0.318	0.301	5.5%	9469944	0.30	0.32	6.5%	9469960	0.322	0.339	5.1%				
Nd	9469935	5.3	4.9	7.8%	9469944	5.00	5.28	5.4%	9469960	5.33	5.36	0.6%				
Ni	9469935	157	155	1.3%	9469944	133	131	1.5%	9469960	134	132	1.5%				
Pb	9469935	< 5	< 5	0.0%	9469944	37	43	15.0%	9469960	< 5	< 5	0.0%				
Pr	9469935	1.07	1.02	4.8%	9469944	1.05	1.04	1.0%	9469960	1.08	1.07	0.9%				
S	9469935	0.130	0.139	6.7%	9469944	0.066	0.065	1.5%	9469960	0.19	0.19	0.0%				
Sb	9469935	0.1	0.1	0.0%	9469944	< 0.1	0.1		9469960	0.1	0.3					
Sc	9469935	43	43	0.0%	9469944	42	41	2.4%	9469960	46	45	2.2%				
Sm	9469935	1.76	1.64	7.1%	9469944	1.7	1.7	0.0%	9469960	1.8	1.8	0.0%				
Sr	9469935	79.0	79.0	0.0%	9469944	91.0	90.2	0.9%	9469960	102	101	1.0%				
Tb	9469935	0.435	0.414	4.9%	9469944	0.41	0.43	4.8%	9469960	0.46	0.46	0.0%				
Th	9469935	0.3	0.3	0.0%	9469944	0.3	0.3	0.0%	9469960	0.3	0.3	0.0%				
Ti	9469935	0.48	0.48	0.0%	9469944	0.45	0.45	0.0%	9469960	0.50	0.49	2.0%				
Tl	9469935	< 0.5	< 0.5	0.0%	9469944	0.7	0.7	0.0%	9469960	< 0.5	< 0.5	0.0%				
Tm	9469935	0.31	0.30	3.3%	9469944	0.286	0.295	3.1%	9469960	0.34	0.31	9.2%				
U	9469935	0.069	0.063	9.1%	9469944	0.063	0.076	18.7%	9469960	0.11	0.11	0.0%				
V	9469935	277	276	0.4%	9469944	264	261	1.1%	9469960	285	289	1.4%				
W	9469935	< 1	< 1	0.0%	9469944	53	56	5.5%	9469960	< 1	< 1	0.0%				
Y	9469935	17.5	16.4	6.5%	9469944	16.7	17.7	5.8%	9469960	18.1	18.0	0.6%				
Yb	9469935	2.0	2.0	0.0%	9469944	2.1	2.1	0.0%	9469960	2.26	2.19	3.1%				
Zn	9469935	88	84	4.7%	9469944	95	94	1.1%	9469960	91	88	3.4%				
Zr	9469935	41.6	39.5	5.2%	9469944	39.4	40.1	1.8%	9469960	43.5	43.3	0.5%				



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(201-049) Specific Gravity by Pycnometer

	CRM #1				CRM #2				CRM #3				CRM #4			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%
	CRM #5				CRM #6				CRM #7				CRM #8			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%
	CRM #9				CRM #10				CRM #11							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%				

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.SY-4)				CRM #4 (ref.Till-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li					47	46	98%	90% - 110%	37	39	104%	90% - 110%				
Ta	0.9	0.9	100%	90% - 110%									1.9	1.8	96%	90% - 110%
Nb	13	14	109%	90% - 110%									20	19	97%	90% - 110%
Sn	7.1	6.7	94%	90% - 110%												
Cs	1.5	1.35	90%	90% - 110%												
Rb	55	55	100%	90% - 110%									144	151	105%	90% - 110%
K					2.55	2.54	99%	90% - 110%	1.37	1.44	105%	90% - 110%				
Mg					1.1	1.1	100%	90% - 110%	0.325	0.314	97%	90% - 110%				
Fe					3.77	3.94	105%	90% - 110%	4.34	4.46	103%	90% - 110%				
Al					8.47	8.69	103%	90% - 110%	10.95	11.2	102%	90% - 110%				
Si					28.4	26.5	93%	90% - 110%	23.3	21.7	93%	90% - 110%				
Be	2.6	3	117%	90% - 110%									4.0	3.5	88%	90% - 110%
Mn					780	764	98%	90% - 110%	836	808	97%	90% - 110%				
Mo													14	14	97%	90% - 110%
As													26	25.5	98%	90% - 110%
Ba					540	525	97%	90% - 110%	340	338	99%	90% - 110%				
Ca					0.907	0.941	104%	90% - 110%	5.72	5.85	102%	90% - 110%				
Ce	122	120	99%	90% - 110%									98	99.5	102%	90% - 110%
Co	2.8	2.5	91%	90% - 110%									15	15	100%	90% - 110%
Cu					150	150	100%	90% - 110%								
Dy	18.2	17.5	96%	90% - 110%												



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Er	14.2	13.3	94%	90% - 110%									3.7	3.6	96%	90% - 110%
Eu	2.0	1.9	97%	90% - 110%									1.0	1.3	127%	90% - 110%
Ga	35	36	103%	90% - 110%												
Gd	14	15	105%	90% - 110%												
Hf	10.6	11.4	107%	90% - 110%									11	10	90%	90% - 110%
Ho	4.3	4.2	98%	90% - 110%												
La	58	57	98%	90% - 110%									44	44.8	102%	90% - 110%
Lu	2.1	2.1	102%	90% - 110%									0.6	0.6	100%	90% - 110%
Nd	57	56	99%	90% - 110%												
Ni					32	34	105%	90% - 110%	9	8	94%	90% - 110%				
Pb	10	9	91%	90% - 110%									31	31	101%	90% - 110%
Pr	15.0	15	100%	90% - 110%												
Sb													0.8	0.8	98%	90% - 110%
Sc					12	12	102%	90% - 110%								
Sm	12.7	12.2	96%	90% - 110%									7.4	7.2	98%	90% - 110%
Sr					144	144	100%	90% - 110%	1191	1188	100%	90% - 110%				
Tb	2.6	2.8	107%	90% - 110%									1.2	1.2	100%	90% - 110%
Th	1.4	1.3	94%	90% - 110%									18.4	18.5	101%	90% - 110%
Ti					0.527	0.509	97%	90% - 110%	0.172	0.166	96%	90% - 110%				
Tm	2.3	2.3	102%	90% - 110%												
U	0.8	0.9	110%	90% - 110%									5.7	5.3	93%	90% - 110%
V					77	79	103%	90% - 110%								
W													5	5	100%	90% - 110%
Y	119	118	99%	90% - 110%									40	38	94%	90% - 110%
Yb	14.8	15.7	106%	90% - 110%												
Zn					130	131	101%	90% - 110%	93	97	104%	90% - 110%				
Zr	517	567	110%	90% - 110%									390	352	90%	90% - 110%
	CRM #5 (ref.GTS-2a)				CRM #6 (ref.SY-4)				CRM #7 (ref.SY-4)				CRM #8 (ref.Till-2)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li									37	36	96%	90% - 110%				
Ta					0.9	0.9	96%	90% - 110%					1.9	2	103%	90% - 110%
Nb					13	14	107%	90% - 110%					20	18	90%	90% - 110%
Sn					7.1	7.7	109%	90% - 110%								
Cs					1.5	1.65	110%	90% - 110%								



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Rb					55	56	102%	90% - 110%					144	152	106%	90% - 110%
K	2.02	1.97	97%	90% - 110%					1.37	1.45	106%	90% - 110%				
Mg	2.41	2.39	99%	90% - 110%					0.325	0.322	99%	90% - 110%				
Fe	7.56	7.86	104%	90% - 110%					4.34	4.52	104%	90% - 110%				
Al	6.94	7.05	102%	90% - 110%					10.95	11.22	102%	90% - 110%				
Si	23.65	22.01	93%	90% - 110%					23.3	22.1	95%	90% - 110%				
Be					2.6	2.9	110%	90% - 110%					4.0	3.5	88%	90% - 110%
Mn									836	825	99%	90% - 110%				
Mo													14	13	94%	90% - 110%
As													26	24.2	93%	90% - 110%
Ba									340	350	103%	90% - 110%				
Ca	4.01	4.05	101%	90% - 110%					5.72	6.11	107%	90% - 110%				
Ce					122	123	101%	90% - 110%					98	107	109%	90% - 110%
Co					2.8	2.6	93%	90% - 110%					15	14	96%	90% - 110%
Dy					18.2	18	99%	90% - 110%								
Er					14.2	14.3	101%	90% - 110%					3.7	3.8	102%	90% - 110%
Eu					2.0	1.8	92%	90% - 110%					1.0	1.1	110%	90% - 110%
Ga					35	37	104%	90% - 110%								
Gd					14	15	105%	90% - 110%								
Hf					10.6	11.3	106%	90% - 110%					11	10	95%	90% - 110%
Ho					4.3	4.3	101%	90% - 110%								
La					58	59.1	102%	90% - 110%					44	48.0	109%	90% - 110%
Lu					2.1	2.2	107%	90% - 110%					0.6	0.6	100%	90% - 110%
Nd					57	57	100%	90% - 110%								
Ni									9	10	114%	90% - 110%				
Pb					10	10	101%	90% - 110%					31	34	109%	90% - 110%
Pr					15.0	15.5	103%	90% - 110%								
Sb													0.8	0.7	94%	90% - 110%
Sm					12.7	12.6	99%	90% - 110%					7.4	7.8	105%	90% - 110%
Sr									1191	1213	102%	90% - 110%				
Tb					2.6	2.8	109%	90% - 110%					1.2	1.2	102%	90% - 110%
Th					1.4	1.3	94%	90% - 110%					18.4	20	108%	90% - 110%
Ti									0.172	0.17	99%	90% - 110%				
Tm					2.3	2.5	107%	90% - 110%								



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

U					0.8	0.8	101%	90% - 110%						5.7	5.6	99%	90% - 110%
W														5	5	108%	90% - 110%
Y					119	119	100%	90% - 110%						40	37	92%	90% - 110%
Yb					14.8	16.1	109%	90% - 110%									
Zn									93	93	100%	90% - 110%					
Zr					517	557	108%	90% - 110%						390	371	95%	90% - 110%
	CRM #9 (ref.GTS-2a)				CRM #10 (ref.SY-4)				CRM #11 (ref.Till-2)				CRM #12 (ref.SY-4)				
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	
Li									47	49	105%	90% - 110%	37	39	104%	90% - 110%	
Ta					0.9	0.8	90%	90% - 110%									
Nb					13	14	104%	90% - 110%									
Sn					7.1	7	99%	90% - 110%									
Cs					1.5	1.66	110%	90% - 110%									
Rb					55	57	103%	90% - 110%									
K	2.02	2.06	102%	90% - 110%					2.55	2.55	100%	90% - 110%	1.37	1.49	109%	90% - 110%	
Mg	2.41	2.52	104%	90% - 110%					1.1	1.1	100%	90% - 110%	0.325	0.325	100%	90% - 110%	
Fe	7.56	7.97	105%	90% - 110%					3.77	3.96	105%	90% - 110%	4.34	4.66	107%	90% - 110%	
Al	6.94	7.1	102%	90% - 110%					8.47	8.45	100%	90% - 110%	10.95	11.43	104%	90% - 110%	
Si	23.65	22.35	95%	90% - 110%					28.4	26.6	94%	90% - 110%	23.3	22.6	97%	90% - 110%	
Be					2.6	3	116%	90% - 110%									
Mn									780	755	97%	90% - 110%	836	839	100%	90% - 110%	
Ba									540	527	98%	90% - 110%	340	349	103%	90% - 110%	
Ca	4.01	4.25	106%	90% - 110%					0.907	0.982	108%	90% - 110%	5.72	6.19	108%	90% - 110%	
Ce					122	130	107%	90% - 110%									
Co					2.8	2.5	91%	90% - 110%									
Cu									150	155	103%	90% - 110%					
Dy					18.2	18.3	101%	90% - 110%									
Er					14.2	14.1	100%	90% - 110%									
Eu					2.0	1.9	96%	90% - 110%									
Ga					35	36	103%	90% - 110%									
Gd					14	15	109%	90% - 110%									
Hf					10.6	11.5	108%	90% - 110%									
Ho					4.3	4.4	102%	90% - 110%									
La					58	62.3	107%	90% - 110%									



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Lu					2.1	2.2	106%	90% - 110%									
Nd					57	58	101%	90% - 110%									
Ni									32	37	116%	90% - 110%	9	11	118%	90% - 110%	
Pb					10	11.0	110%	90% - 110%									
Pr					15.0	15.9	106%	90% - 110%									
Sc									12	12	102%	90% - 110%					
Sm					12.7	12.4	98%	90% - 110%									
Sr									144	146	102%	90% - 110%	1191	1218	102%	90% - 110%	
Tb					2.6	2.8	108%	90% - 110%									
Th					1.4	1.5	110%	90% - 110%									
Ti									0.527	0.508	96%	90% - 110%	0.172	0.173	100%	90% - 110%	
Tm					2.3	2.4	105%	90% - 110%									
U					0.8	0.9	110%	90% - 110%									
V									77	79	102%	90% - 110%					
Y					119	119	100%	90% - 110%									
Yb					14.8	16.2	109%	90% - 110%									
Zn									130	124	96%	90% - 110%	93	98	106%	90% - 110%	
Zr					517	562	109%	90% - 110%									
	CRM #13 (ref.GTS-2a)				CRM #14 (ref.Till-2)												
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits									
Li					47	51	109%	90% - 110%									
K	2.02	2.08	103%	90% - 110%	2.55	2.66	104%	90% - 110%									
Mg	2.41	2.56	106%	90% - 110%	1.1	1.2	105%	90% - 110%									
Fe	7.56	8.12	107%	90% - 110%	3.77	4.12	109%	90% - 110%									
Al	6.94	7.18	103%	90% - 110%	8.47	8.75	103%	90% - 110%									
Si	23.65	22.78	96%	90% - 110%	28.4	27.5	97%	90% - 110%									
Mn					780	788	101%	90% - 110%									
Ba					540	549	102%	90% - 110%									
Ca	4.01	4.29	107%	90% - 110%	0.907	0.995	110%	90% - 110%									
Cu					150	162	108%	90% - 110%									
Ni					32	36	114%	90% - 110%									
Sc					12	13	105%	90% - 110%									
Sr					144	153	106%	90% - 110%									
Ti					0.527	0.527	100%	90% - 110%									



AGAT Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18B373339

PROJECT:

5623 McADAM ROAD
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 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

V					77	83	108%	90% - 110%								
Zn					130	136	104%	90% - 110%								



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B373339

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B373339

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Brad Boyle

PROJECT:

AGAT WORK ORDER: 18B378793

SOLID ANALYSIS REVIEWED BY: Adel Mina, Mining Chief Chemist

DATE REPORTED: Sep 28, 2018

PAGES (INCLUDING COVER): 32

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 27, 2018 DATE RECEIVED: Aug 27, 2018 DATE REPORTED: Sep 28, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563938 (9504417)		2.88
E5563939 (9504418)		2.77
E5563940 (9504419)		2.75
E5563941 (9504420)		2.70
E5563942 (9504421)		2.76
E5563943 (9504422)		2.80
E5563944 (9504423)		2.02
E5563945 (9504424)		0.74
E5563946 (9504425)		0.90
E5563947 (9504426)		0.02
E5563948 (9504427)		0.89
E5563949 (9504428)		1.37
E5563950 (9504429)		1.30
E5563951 (9504430)		1.8
E5563952 (9504431)		0.20
E5563953 (9504432)		1.5
E5563954 (9504433)		0.64
E5563955 (9504434)		0.70
E5563956 (9504435)		0.84
E5563957 (9504436)		1.60
E5563958 (9504437)		0.78
E5563959 (9504438)		0.72
E5563960 (9504439)		1.06
E5563961 (9504440)		1.12
E5563962 (9504441)		1.96
E5563963 (9504442)		1.02
E5563964 (9504443)		1.44
E5563965 (9504444)		1.89
E5563966 (9504445)		2.82
E5563967 (9504446)		2.91
E5563968 (9504447)		2.81

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5563969 (9504448)		2.88
E5563970 (9504449)		2.80
E5563971 (9504450)		0.02
E5563972 (9504451)		2.80
E5563973 (9504452)		1.81
E5563974 (9504453)		1.79
E5563975 (9504454)		0.72
E5563976 (9504455)		1.96
E5563977 (9504456)		1.82
E5563978 (9504457)		2.93
E5563979 (9504458)		0.02
E5563980 (9504459)		2.66
E5563981 (9504460)		2.60
E5563982 (9504461)		2.64
E5563983 (9504462)		2.76
E5563984 (9504463)		2.74
E5563985 (9504464)		2.26
E5563986 (9504465)		1.82
E5563987 (9504466)		1.23
E5563988 (9504467)		1.18
E5563989 (9504468)		0.60
E5563990 (9504469)		1.42
E5563991 (9504470)		0.02
E5563992 (9504471)		1.20
E5563993 (9504472)		0.94
E5563994 (9504473)		0.92
E5563995 (9504474)		1.60
E5563996 (9504475)		0.02
E5563997 (9504476)		1.040
E5563998 (9504477)		0.786
E5563999 (9504478)		0.630

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5564000 (9504479)		0.522
E5564001 (9504480)		1.552
E5564002 (9504481)		1.60
E5564003 (9504482)		1.90
E5564004 (9504483)		1.60
E5564005 (9504484)		1.63
E5564006 (9504485)		1.85
E5564007 (9504486)		1.73
E5564008 (9504487)		1.77
E5564009 (9504488)		2.02
E5564010 (9504489)		1.61
E5564011 (9504490)		0.02
E5564012 (9504491)		1.71
E5564013 (9504492)		1.77
E5564014 (9504493)		1.74
E5564015 (9504494)		0.99
E5564016 (9504495)		1.06
E5564017 (9504496)		1.60
E5564018 (9504497)		1.60
E5564019 (9504498)		0.02
E5564020 (9504499)		1.70
E5564021 (9504500)		2.40
E5564022 (9504501)		2.94
E5564023 (9504502)		2.77
E5564024 (9504503)		2.67
E5564025 (9504504)		2.95
E5564026 (9504505)		2.81
E5564027 (9504506)		2.64
E5564028 (9504507)		1.9

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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 CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563938 (9504417)		3.12
E5563939 (9504418)		3.12
E5563940 (9504419)		3.16
E5563941 (9504420)		3.17
E5563942 (9504421)		3.16
E5563943 (9504422)		3.20
E5563944 (9504423)		3.24
E5563945 (9504424)		2.87
E5563946 (9504425)		2.79
E5563947 (9504426)		2.62
E5563948 (9504427)		2.67
E5563949 (9504428)		2.67
E5563950 (9504429)		2.69
E5563951 (9504430)		2.67
E5563952 (9504431)		2.75
E5563953 (9504432)		2.67
E5563954 (9504433)		2.71
E5563955 (9504434)		2.72
E5563956 (9504435)		2.79
E5563957 (9504436)		2.92
E5563958 (9504437)		2.75
E5563959 (9504438)		2.83
E5563960 (9504439)		2.88
E5563961 (9504440)		2.83
E5563962 (9504441)		2.74
E5563963 (9504442)		2.80
E5563964 (9504443)		2.76
E5563965 (9504444)		3.18
E5563966 (9504445)		3.20
E5563967 (9504446)		3.08
E5563968 (9504447)		3.14
E5563969 (9504448)		3.14

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 27, 2018 DATE RECEIVED: Aug 27, 2018 DATE REPORTED: Sep 28, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5563970 (9504449)		3.12
E5563971 (9504450)		2.65
E5563972 (9504451)		3.15
E5563973 (9504452)		3.02
E5563974 (9504453)		3.04
E5563975 (9504454)		2.76
E5563976 (9504455)		3.09
E5563977 (9504456)		3.04
E5563978 (9504457)		3.12
E5563979 (9504458)		2.79
E5563980 (9504459)		2.95
E5563981 (9504460)		2.95
E5563982 (9504461)		2.97
E5563983 (9504462)		2.99
E5563984 (9504463)		3.05
E5563985 (9504464)		3.16
E5563986 (9504465)		2.78
E5563987 (9504466)		2.70
E5563988 (9504467)		2.84
E5563989 (9504468)		2.79
E5563990 (9504469)		3.05
E5563991 (9504470)		2.65
E5563992 (9504471)		2.76
E5563993 (9504472)		2.86
E5563994 (9504473)		2.78
E5563995 (9504474)		2.88
E5563996 (9504475)		2.89
E5563997 (9504476)		2.98
E5563998 (9504477)		2.66
E5563999 (9504478)		2.95
E5564000 (9504479)		2.90
E5564001 (9504480)		2.84

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564002 (9504481)		2.88
E5564003 (9504482)		2.90
E5564004 (9504483)		2.91
E5564005 (9504484)		2.94
E5564006 (9504485)		3.03
E5564007 (9504486)		2.96
E5564008 (9504487)		2.90
E5564009 (9504488)		2.86
E5564010 (9504489)		2.81
E5564011 (9504490)		2.70
E5564012 (9504491)		2.94
E5564013 (9504492)		2.95
E5564014 (9504493)		2.97
E5564015 (9504494)		2.81
E5564016 (9504495)		2.71
E5564017 (9504496)		2.74
E5564018 (9504497)		2.70
E5564019 (9504498)		2.79
E5564020 (9504499)		2.72
E5564021 (9504500)		3.13
E5564022 (9504501)		2.98
E5564023 (9504502)		3.03
E5564024 (9504503)		3.08
E5564025 (9504504)		3.08
E5564026 (9504505)		3.09
E5564027 (9504506)		3.09
E5564028 (9504507)		2.88

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018					DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563938 (9504417)	123	0.027	<0.5	<1	9	3.0	6.2	0.14	5.47	8.85	0.02	7.69	23.1	<5	
E5563939 (9504418)	156	0.034	<0.5	<1	3	5.7	15.5	0.14	5.41	8.62	0.02	7.59	23.7	<5	
E5563940 (9504419)	159	0.034	<0.5	<1	2	2.3	2.9	0.10	5.80	9.09	0.02	7.88	23.4	<5	
E5563941 (9504420)	283	0.061	<0.5	<1	2	2.3	4.0	0.10	5.99	9.12	0.02	7.58	23.0	<5	
E5563942 (9504421)	411	0.089	<0.5	<1	4	2.2	6.8	0.13	5.42	8.63	0.02	7.70	23.2	<5	
E5563943 (9504422)	753	0.162	<0.5	<1	7	39.3	26.3	0.16	5.50	9.16	0.02	8.09	22.4	<5	
E5563944 (9504423)	865	0.186	<0.5	2	4	815	431	0.36	4.55	7.97	0.02	7.43	21.6	7	
E5563945 (9504424)	1800	0.388	207	122	40	365	1670	1.12	0.21	0.60	0.09	9.57	33.9	1040	
E5563946 (9504425)	547	0.118	73.4	57	23	113	1200	0.90	0.04	0.32	0.11	9.50	32.8	67	
E5563947 (9504426)	20	0.004	<0.5	<1	3.39	0.2	0.9	<0.05	<0.01	0.32	<0.01	0.12	46.8	<5	
E5563948 (9504427)	732	0.158	22.9	25	28	544	9330	6.92	0.04	0.36	0.11	7.47	33.6	6	
E5563949 (9504428)	995	0.214	105	31	10	639	9010	6.58	0.02	0.15	0.08	8.05	33.2	<5	
E5563950 (9504429)	403	0.087	78.1	18	5	628	8670	6.51	0.02	0.13	0.06	9.12	31.7	<5	
E5563951 (9504430)	372	0.080	29.1	3	3	755	11400	9.20	0.02	0.11	0.06	9.27	30.8	16	
E5563952 (9504431)	10100	2.18	27.3	6790	3260	355	941	1.44	0.53	4.16	0.10	7.65	31.5	40	
E5563953 (9504432)	565	0.122	25.8	3	6	787	10600	8.46	0.03	0.10	0.06	9.57	31.7	<5	
E5563954 (9504433)	217	0.047	33.1	5	4	909	11400	8.51	<0.01	0.15	0.06	8.97	31.0	<5	
E5563955 (9504434)	240	0.052	28.1	2	4	866	10800	8.76	0.01	0.13	0.06	9.27	31.6	<5	
E5563956 (9504435)	1000	0.216	33.0	23	31	690	6990	5.08	0.04	0.39	0.04	6.10	36.9	56	
E5563957 (9504436)	5850	1.26	90.5	47	51	651	4320	2.43	0.10	0.62	0.94	6.29	36.1	39	
E5563958 (9504437)	5050	1.09	52.5	30	26	629	4550	3.12	0.05	0.44	0.21	6.51	36.2	24	
E5563959 (9504438)	11400	2.45	72.8	33	39	696	4320	3.08	0.06	0.53	0.16	8.52	35.5	62	
E5563960 (9504439)	8850	1.91	113	51	37	545	2820	1.56	0.08	0.50	0.83	6.46	35.1	359	
E5563961 (9504440)	4410	0.950	111	121	58	970	3460	1.95	0.11	0.62	0.65	6.73	34.6	1600	
E5563962 (9504441)	519	0.112	155	56	14	225	877	0.77	0.06	0.27	0.07	9.01	34.8	371	
E5563963 (9504442)	1690	0.364	86.0	47	18	178	856	0.61	0.04	0.29	0.04	7.66	32.8	227	
E5563964 (9504443)	257	0.055	174	87	17	304	877	0.60	0.09	0.35	0.11	7.50	32.8	1230	
E5563965 (9504444)	830	0.179	2.4	3	7	23.5	79.1	0.32	5.42	8.14	0.02	7.44	22.2	15	
E5563966 (9504445)	420	0.090	<0.5	1	6	6.6	19.6	0.21	5.13	8.48	0.02	7.50	22.7	<5	
E5563967 (9504446)	373	0.080	<0.5	<1	4	13.6	46.9	0.34	4.82	8.65	0.02	7.51	22.7	<5	
E5563968 (9504447)	333	0.072	<0.5	<1	7	35.1	50.3	0.38	5.19	8.65	0.02	7.37	22.1	<5	
E5563969 (9504448)	264	0.057	<0.5	<1	5	2.8	19.7	0.22	4.89	8.06	0.02	7.06	21.3	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018					DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5563970 (9504449)	264	0.057	<0.5	1	7	28.4	61.5	0.38	4.26	8.10	0.03	7.58	22.4	<5	
E5563971 (9504450)	17	0.004	<0.5	8	2	0.2	0.8	<0.05	<0.01	0.34	<0.01	0.12	48.2	<5	
E5563972 (9504451)	236	0.051	<0.5	<1	6	4.8	31.3	0.30	5.13	8.92	0.02	7.62	22.9	<5	
E5563973 (9504452)	793	0.171	<0.5	2	6	264	172	1.04	2.49	7.66	0.03	9.79	25.4	<5	
E5563974 (9504453)	424	0.091	8.4	2	7	33.4	161	0.48	2.29	7.78	0.03	9.06	25.0	5	
E5563975 (9504454)	101	0.022	174	84	35	79.2	1760	1.35	0.06	0.42	0.06	8.00	34.0	53	
E5563976 (9504455)	1850	0.398	<0.5	2	8	22.3	64.7	0.27	2.80	8.18	0.02	8.33	25.0	<5	
E5563977 (9504456)	411	0.088	<0.5	1	7	7.8	10.1	0.20	2.64	8.24	0.03	8.76	25.2	<5	
E5563978 (9504457)	281	0.061	<0.5	19	8	17.3	21.2	0.40	1.80	8.46	0.02	8.07	25.1	<5	
E5563979 (9504458)	2320	0.499	16.2	1250	778	238	1330	1.71	0.57	3.25	0.15	4.92	36.8	48	
E5563980 (9504459)	305	0.066	<0.5	2	8	5.5	23.0	0.54	1.24	5.75	0.02	8.57	26.9	<5	
E5563981 (9504460)	337	0.072	<0.5	1	7	8.2	30.0	0.65	1.26	5.73	0.02	8.98	28.0	<5	
E5563982 (9504461)	355	0.076	<0.5	2	8	28.6	38.9	0.57	1.27	5.82	0.02	9.61	26.3	<5	
E5563983 (9504462)	503	0.108	<0.5	1	5	43.1	39.0	0.62	1.23	6.12	0.03	8.48	28.8	<5	
E5563984 (9504463)	1260	0.272	<0.5	1	4	64.8	51.9	0.54	1.62	7.66	0.03	8.41	27.1	<5	
E5563985 (9504464)	703	0.151	<0.5	2	8	343	754	0.76	1.84	8.98	0.02	8.85	24.5	11	
E5563986 (9504465)	2440	0.525	470	311	32	356	2820	1.35	0.09	0.48	0.54	9.36	31.7	83	
E5563987 (9504466)	2390	0.515	198	109	30	1070	8240	3.72	0.04	0.35	0.19	6.63	34.9	396	
E5563988 (9504467)	6670	1.44	75.9	13	34	1100	6320	1.75	0.05	0.29	0.03	4.54	36.6	8	
E5563989 (9504468)	5840	1.26	132	21	34	1850	9640	2.47	0.02	0.30	<0.01	4.95	37.4	9	
E5563990 (9504469)	23400	5.03	104	8	28	580	746	0.32	0.05	0.31	0.01	9.88	34.5	<5	
E5563991 (9504470)	18	0.004	<0.5	5	2	0.2	1.2	<0.05	<0.01	0.33	<0.01	0.12	46.1	<5	
E5563992 (9504471)	4710	1.01	463	31	9	262	528	0.28	0.05	0.18	<0.01	2.70	42.0	<5	
E5563993 (9504472)	9890	2.13	58.2	6	23	938	2930	1.12	0.33	0.38	0.01	6.36	38.0	150	
E5563994 (9504473)	2540	0.547	63.6	10	17	923	4550	1.26	0.02	0.33	<0.01	2.35	41.1	<5	
E5563995 (9504474)	7850	1.69	240	22	30	1030	3940	1.48	0.37	0.30	0.04	6.13	38.6	65	
E5563996 (9504475)	10400	2.25	26.8	6900	3290	356	938	1.49	0.57	4.31	0.11	7.89	32.5	40	
E5563997 (9504476)	15100	3.26	58.9	12	72	1630	3890	1.64	0.61	0.53	0.03	9.92	30.9	141	
E5563998 (9504477)	4280	0.921	85.6	12	29	1110	4650	1.92	0.80	0.43	0.06	6.15	36.8	29	
E5563999 (9504478)	19100	4.10	458	11	35	610	1440	0.57	0.13	0.36	0.03	9.76	33.2	15	
E5564000 (9504479)	15800	3.40	222	11	34	1100	3520	1.21	0.13	0.37	0.07	9.28	33.8	17	
E5564001 (9504480)	12300	2.65	71.5	7	25	899	2950	0.91	0.07	0.35	0.03	7.77	35.7	6	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018					DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564002 (9504481)	8720	1.88	155	21	34	1710	8330	2.26	0.05	0.40	0.04	6.14	36.2	10	
E5564003 (9504482)	10700	2.31	256	24	26	1660	6680	1.93	0.06	0.36	0.18	6.70	37.6	9	
E5564004 (9504483)	12500	2.70	250	21	31	914	3590	0.99	0.13	0.46	0.03	6.40	36.5	11	
E5564005 (9504484)	12300	2.64	867	59	34	970	3390	1.03	0.06	0.38	0.06	6.38	35.7	6	
E5564006 (9504485)	18600	4.01	310	17	32	729	1860	0.60	0.03	0.40	0.02	8.63	33.4	14	
E5564007 (9504486)	13400	2.88	394	93	42	1130	4310	1.50	0.05	0.65	0.26	8.26	33.0	512	
E5564008 (9504487)	10800	2.32	695	319	40	1330	3920	1.43	0.06	0.50	0.18	9.86	30.5	1300	
E5564009 (9504488)	9140	1.97	504	222	37	1160	4430	1.67	0.15	0.53	0.15	10.3	31.1	36	
E5564010 (9504489)	5310	1.14	307	192	9	279	793	0.42	0.02	0.28	0.31	9.16	32.4	<5	
E5564011 (9504490)	22	0.005	<0.5	11	1	0.3	1.1	<0.05	<0.01	0.34	<0.01	0.13	48.5	<5	
E5564012 (9504491)	15100	3.25	358	192	19	544	1160	0.45	0.04	0.48	0.06	9.93	31.8	11	
E5564013 (9504492)	18300	3.93	225	157	23	537	1420	0.56	0.03	0.53	0.13	10.2	32.2	<5	
E5564014 (9504493)	18500	3.98	200	38	28	723	1670	0.76	0.11	0.71	0.10	10.4	31.9	8	
E5564015 (9504494)	8210	1.77	60.6	26	22	758	1790	0.75	0.14	0.47	0.08	8.51	32.4	14	
E5564016 (9504495)	1360	0.293	92.2	33	14	560	1230	0.64	0.16	0.35	0.08	7.90	33.5	284	
E5564017 (9504496)	172	0.037	229	71	10	127	368	0.25	0.01	0.17	0.10	7.94	32.5	167	
E5564018 (9504497)	139	0.030	183	52	11	117	452	0.33	<0.01	0.18	0.06	8.04	34.4	351	
E5564019 (9504498)	2360	0.508	16.6	1290	782	245	1350	1.74	0.55	3.30	0.16	5.04	37.3	50	
E5564020 (9504499)	125	0.027	178	73	15	101	605	0.40	0.03	0.22	0.11	8.09	33.7	104	
E5564021 (9504500)	1120	0.242	2.4	2	7	263	369	0.41	4.83	8.71	0.02	7.34	22.7	<5	
E5564022 (9504501)	934	0.201	<0.5	7	10	35.9	75.0	0.22	5.21	9.03	0.03	7.27	23.6	<5	
E5564023 (9504502)	362	0.078	<0.5	2	8	26.4	47.1	0.22	4.21	8.57	0.02	7.41	23.4	<5	
E5564024 (9504503)	284	0.061	<0.5	2	5	7.3	17.3	0.23	4.59	8.31	0.02	7.07	22.8	<5	
E5564025 (9504504)	280	0.060	<0.5	1	8	5.6	15.9	0.21	4.85	8.27	0.02	7.00	22.3	<5	
E5564026 (9504505)	261	0.056	<0.5	1	5	4.3	17.4	0.24	5.25	8.40	0.02	7.22	23.9	<5	
E5564027 (9504506)	222	0.048	<0.5	2	10	1.7	7.2	0.22	4.54	8.75	0.02	7.32	23.6	<5	
E5564028 (9504507)	14900	3.20	274	147	20	818	1580	0.55	0.09	0.50	0.13	10.2	32.5	477	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018						DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563938 (9504417)	<20	1570	2	<0.1	<5	<1	29.6	8.39	<0.2	5.9	62.4	0.025	145	2.47	
E5563939 (9504418)	<20	1550	2	<0.1	<5	<1	25.2	8.45	<0.2	5.5	61.4	0.025	164	2.49	
E5563940 (9504419)	<20	1560	<2	<0.1	<5	<1	20.4	8.38	<0.2	6.0	64.0	0.026	144	2.68	
E5563941 (9504420)	<20	1600	<2	<0.1	<5	<1	22.2	8.36	<0.2	5.7	63.0	0.026	130	2.52	
E5563942 (9504421)	<20	1580	<2	<0.1	<5	<1	25.0	8.22	<0.2	5.8	62.0	0.025	146	2.67	
E5563943 (9504422)	<20	1620	<2	0.1	<5	<1	28.6	8.39	<0.2	5.5	55.6	0.026	161	2.35	
E5563944 (9504423)	155	1650	3	0.7	<5	<1	26.5	9.48	<0.2	7.2	54.1	0.023	137	2.49	
E5563945 (9504424)	37	548	4	3.8	<5	<1	12.0	0.60	<0.2	1.6	2.4	<0.005	14	0.18	
E5563946 (9504425)	<20	401	4	1.9	<5	1	3.5	0.47	<0.2	0.8	0.8	<0.005	<5	0.07	
E5563947 (9504426)	<20	29	<2	0.1	<5	<1	3.6	<0.05	<0.2	2.2	<0.5	<0.005	<5	0.18	
E5563948 (9504427)	<20	447	4	1.6	<5	<1	11.0	0.14	<0.2	0.2	1.1	<0.005	<5	<0.05	
E5563949 (9504428)	<20	293	4	2.8	<5	<1	10.9	0.16	<0.2	0.1	<0.5	<0.005	<5	<0.05	
E5563950 (9504429)	<20	154	3	8.7	<5	<1	14.0	0.10	<0.2	0.1	<0.5	<0.005	<5	<0.05	
E5563951 (9504430)	<20	69	3	2.4	<5	<1	19.8	0.07	<0.2	<0.1	<0.5	<0.005	<5	<0.05	
E5563952 (9504431)	37	445	12	42.9	160	1	2750	1.05	1.5	443	8.9	0.010	324	4.70	
E5563953 (9504432)	<20	77	3	0.6	<5	<1	19.8	0.07	<0.2	<0.1	<0.5	<0.005	<5	<0.05	
E5563954 (9504433)	<20	75	4	0.5	<5	<1	21.7	0.09	<0.2	0.1	<0.5	<0.005	<5	<0.05	
E5563955 (9504434)	<20	72	3	0.4	<5	<1	21.2	0.09	<0.2	0.1	<0.5	<0.005	<5	<0.05	
E5563956 (9504435)	<20	512	6	0.6	<5	<1	14.2	0.08	<0.2	0.1	1.1	<0.005	<5	<0.05	
E5563957 (9504436)	24	2520	8	2.0	<5	<1	6.9	1.80	1.3	2.1	1.6	0.006	<5	0.36	
E5563958 (9504437)	<20	860	7	1.2	<5	<1	10.1	0.44	0.3	0.5	0.8	<0.005	<5	0.06	
E5563959 (9504438)	<20	962	7	1.0	<5	<1	9.7	0.34	<0.2	0.3	0.7	<0.005	<5	<0.05	
E5563960 (9504439)	<20	2190	6	2.6	<5	<1	4.8	1.59	1.0	1.6	0.9	<0.005	<5	0.27	
E5563961 (9504440)	<20	1750	5	1.3	<5	2	6.3	1.37	0.8	5.6	1.6	<0.005	<5	0.72	
E5563962 (9504441)	21	389	3	1.0	<5	1	7.6	0.37	<0.2	0.8	0.6	<0.005	<5	<0.05	
E5563963 (9504442)	22	448	5	1.4	<5	<1	4.7	0.23	<0.2	1.1	0.6	<0.005	<5	<0.05	
E5563964 (9504443)	<20	487	3	1.6	<5	1	3.3	0.41	<0.2	1.4	1.1	<0.005	11	0.11	
E5563965 (9504444)	860	1510	2	0.8	<5	<1	69.7	6.28	<0.2	5.7	56.6	0.024	113	2.23	
E5563966 (9504445)	<20	1530	<2	0.3	<5	<1	27.2	7.65	0.3	5.8	63.1	0.026	187	2.77	
E5563967 (9504446)	23	1550	<2	0.3	<5	<1	46.7	7.97	<0.2	6.0	60.8	0.024	113	2.75	
E5563968 (9504447)	<20	1600	2	0.3	<5	<1	56.2	7.74	0.3	5.8	61.3	0.025	139	2.61	
E5563969 (9504448)	<20	1480	<2	0.2	<5	<1	26.4	7.37	0.3	6.1	61.3	0.024	143	2.63	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018						DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5563970 (9504449)	<20	1580	6	1.2	<5	<1	69.8	7.66	<0.2	6.6	66.9	0.028	251	2.93	
E5563971 (9504450)	<20	30	<2	0.7	<5	<1	4.2	<0.05	<0.2	2.3	0.5	<0.005	5	0.18	
E5563972 (9504451)	<20	1630	3	1.4	<5	<1	50.3	8.25	<0.2	6.2	62.2	0.026	168	2.71	
E5563973 (9504452)	<20	1410	2	0.3	<5	<1	278	5.19	<0.2	6.8	69.5	0.037	232	2.80	
E5563974 (9504453)	23	1890	2	0.7	<5	<1	128	6.87	<0.2	7.7	73.2	0.031	208	3.12	
E5563975 (9504454)	<20	629	4	3.1	<5	1	11.2	0.40	<0.2	0.9	0.9	<0.005	5	0.05	
E5563976 (9504455)	<20	1500	3	0.4	<5	<1	63.6	5.60	<0.2	6.2	60.6	0.030	163	2.73	
E5563977 (9504456)	<20	1680	2	0.2	<5	<1	39.9	6.43	<0.2	7.3	71.7	0.031	188	3.00	
E5563978 (9504457)	<20	1760	4	0.1	<5	<1	66.9	5.34	0.7	7.7	89.3	0.030	244	2.99	
E5563979 (9504458)	30	400	8	10.9	40	1	1930	1.15	0.6	1170	7.6	0.008	301	8.75	
E5563980 (9504459)	<20	1200	3	<0.1	<5	<1	81.8	4.86	<0.2	6.1	74.3	0.032	165	2.24	
E5563981 (9504460)	<20	1340	3	<0.1	<5	<1	102	5.18	<0.2	6.7	82.2	0.032	159	2.48	
E5563982 (9504461)	<20	1430	3	0.1	<5	<1	109	5.91	<0.2	6.7	81.1	0.033	151	2.52	
E5563983 (9504462)	<20	1330	4	0.2	<5	<1	86.3	5.30	<0.2	8.3	66.3	0.030	149	3.00	
E5563984 (9504463)	<20	1620	4	<0.1	<5	<1	70.9	5.43	<0.2	7.3	68.7	0.031	163	2.98	
E5563985 (9504464)	<20	2880	3	1.3	<5	<1	67.2	7.20	0.5	7.0	78.2	0.032	525	3.08	
E5563986 (9504465)	20	1940	3	13.0	<5	6	6.7	1.22	0.8	2.6	2.1	<0.005	<5	0.34	
E5563987 (9504466)	<20	1500	5	13.1	<5	2	9.5	0.37	0.3	0.2	0.7	<0.005	<5	<0.05	
E5563988 (9504467)	29	1270	7	2.0	<5	<1	3.6	0.08	<0.2	<0.1	<0.5	<0.005	<5	<0.05	
E5563989 (9504468)	32	1370	7	1.9	10	<1	1.8	0.07	<0.2	<0.1	<0.5	<0.005	<5	<0.05	
E5563990 (9504469)	<20	530	10	0.9	<5	<1	3.9	0.12	<0.2	<0.1	<0.5	0.007	<5	<0.05	
E5563991 (9504470)	<20	30	<2	0.3	<5	<1	4.2	<0.05	<0.2	2.4	0.5	<0.005	7	0.19	
E5563992 (9504471)	<20	191	6	0.9	<5	<1	6.8	0.13	<0.2	<0.1	<0.5	<0.005	<5	<0.05	
E5563993 (9504472)	33	511	11	0.5	<5	<1	66.3	0.17	<0.2	0.4	0.6	0.005	<5	<0.05	
E5563994 (9504473)	22	691	9	0.9	<5	<1	4.0	0.26	<0.2	0.6	<0.5	0.005	<5	<0.05	
E5563995 (9504474)	45	661	6	1.6	<5	<1	23.2	0.23	<0.2	1.1	<0.5	<0.005	<5	<0.05	
E5563996 (9504475)	41	461	12	43.0	159	1	2960	1.08	1.6	435	8.7	0.011	351	4.43	
E5563997 (9504476)	58	981	8	1.1	<5	<1	41.0	0.18	<0.2	1.6	0.5	<0.005	<5	<0.05	
E5563998 (9504477)	71	1330	6	0.8	<5	<1	59.3	0.16	<0.2	1.2	0.6	<0.005	<5	<0.05	
E5563999 (9504478)	24	677	7	1.7	<5	<1	9.1	0.18	<0.2	0.5	<0.5	<0.005	<5	<0.05	
E5564000 (9504479)	28	903	7	1.9	<5	<1	5.7	0.28	<0.2	0.5	0.7	<0.005	<5	<0.05	
E5564001 (9504480)	26	781	8	3.6	<5	<1	4.9	0.23	<0.2	0.2	<0.5	<0.005	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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 CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05
E5564002 (9504481)	31	1590	9	1.6	<5	<1	3.2	0.10	<0.2	0.2	<0.5	0.005	<5	<0.05
E5564003 (9504482)	34	3060	8	2.4	<5	<1	5.6	0.16	<0.2	0.3	<0.5	<0.005	<5	<0.05
E5564004 (9504483)	20	895	8	1.3	<5	<1	2.4	0.25	<0.2	0.2	1.4	<0.005	<5	0.08
E5564005 (9504484)	22	992	8	20.8	<5	1	9.2	0.19	<0.2	0.2	<0.5	<0.005	<5	<0.05
E5564006 (9504485)	23	913	9	2.4	<5	<1	4.6	0.10	<0.2	<0.1	<0.5	<0.005	<5	<0.05
E5564007 (9504486)	22	1710	11	4.2	<5	2	6.8	0.57	0.5	0.6	1.0	0.005	<5	0.06
E5564008 (9504487)	21	1580	8	3.2	<5	8	9.0	0.41	0.4	0.5	0.8	<0.005	10	<0.05
E5564009 (9504488)	26	1280	7	1.5	<5	5	25.4	0.53	<0.2	1.0	0.7	<0.005	<5	0.05
E5564010 (9504489)	<20	946	5	1.2	30	4	6.4	0.74	0.4	2.7	0.6	<0.005	<5	0.43
E5564011 (9504490)	<20	31	<2	0.7	<5	<1	4.6	<0.05	<0.2	2.4	<0.5	<0.005	6	0.18
E5564012 (9504491)	<20	881	7	13.1	13	4	3.8	0.23	<0.2	0.2	<0.5	<0.005	<5	<0.05
E5564013 (9504492)	<20	1200	7	4.3	7	3	2.7	0.32	<0.2	0.7	<0.5	<0.005	<5	0.08
E5564014 (9504493)	26	1130	10	5.2	<5	<1	10.8	0.28	<0.2	1.1	<0.5	<0.005	<5	0.07
E5564015 (9504494)	22	742	7	0.7	<5	<1	10.4	0.30	<0.2	1.5	0.5	<0.005	<5	0.08
E5564016 (9504495)	27	456	6	0.6	<5	<1	7.7	0.46	<0.2	1.1	<0.5	<0.005	<5	0.14
E5564017 (9504496)	<20	600	4	1.0	<5	1	1.7	0.30	0.2	1.1	0.5	<0.005	<5	0.09
E5564018 (9504497)	<20	458	4	0.5	<5	1	1.4	0.16	<0.2	0.8	<0.5	<0.005	<5	<0.05
E5564019 (9504498)	30	410	8	11.5	42	1	2000	1.17	0.6	1200	7.9	0.007	313	8.63
E5564020 (9504499)	<20	345	4	1.2	<5	2	3.5	0.33	<0.2	0.8	0.5	<0.005	6	0.08
E5564021 (9504500)	<20	1380	3	0.6	<5	<1	32.2	7.19	<0.2	6.7	50.7	0.026	129	3.05
E5564022 (9504501)	<20	1450	<2	0.7	<5	<1	35.3	7.15	<0.2	6.5	57.0	0.027	126	2.89
E5564023 (9504502)	<20	1540	2	0.3	<5	<1	71.9	7.78	<0.2	7.2	53.5	0.027	147	3.36
E5564024 (9504503)	<20	1470	<2	0.1	<5	<1	45.6	7.63	<0.2	6.9	51.9	0.024	142	2.98
E5564025 (9504504)	<20	1500	<2	<0.1	<5	<1	32.9	7.75	<0.2	6.8	53.3	0.025	157	2.84
E5564026 (9504505)	<20	1440	3	<0.1	<5	<1	30.8	7.99	<0.2	6.0	50.0	0.024	132	2.60
E5564027 (9504506)	<20	1410	<2	<0.1	<5	<1	31.2	7.92	<0.2	7.1	51.2	0.024	155	3.03
E5564028 (9504507)	<20	1030	5	0.9	<5	3	6.3	0.39	0.3	1.1	1.0	<0.005	<5	0.16

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018										DATE REPORTED: Sep 28, 2018			SAMPLE TYPE: Drill Core	
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5563938 (9504417)	1.61	0.58	14.6	2.07	2	1	0.55	<0.2	2.2	0.28	4.5	233	<5	0.91	
E5563939 (9504418)	1.64	0.59	14.2	1.95	2	1	0.54	<0.2	2.1	0.30	4.4	208	<5	0.86	
E5563940 (9504419)	1.77	0.63	14.7	2.12	2	1	0.58	<0.2	2.3	0.31	4.8	215	<5	0.94	
E5563941 (9504420)	1.68	0.61	14.1	2.08	2	1	0.57	<0.2	2.2	0.28	4.5	223	<5	0.88	
E5563942 (9504421)	1.74	0.61	14.6	2.06	2	1	0.62	<0.2	2.3	0.29	4.7	204	<5	0.90	
E5563943 (9504422)	1.59	0.59	13.0	1.85	2	1	0.52	<0.2	2.0	0.26	4.3	232	<5	0.85	
E5563944 (9504423)	1.72	0.60	14.8	2.14	3	1	0.60	<0.2	2.9	0.30	5.1	167	<5	1.04	
E5563945 (9504424)	0.09	0.06	56.7	0.27	7	1	<0.05	<0.2	0.8	<0.05	1.0	31	<5	0.22	
E5563946 (9504425)	<0.05	<0.05	49.7	0.10	6	1	<0.05	<0.2	0.4	<0.05	0.3	30	<5	0.10	
E5563947 (9504426)	0.11	<0.05	0.32	0.18	1	<1	<0.05	<0.2	1.0	<0.05	0.9	9	<5	0.24	
E5563948 (9504427)	<0.05	<0.05	41.0	<0.05	7	<1	<0.05	<0.2	0.1	<0.05	0.1	31	10	<0.05	
E5563949 (9504428)	<0.05	<0.05	27.1	<0.05	8	<1	<0.05	<0.2	0.1	<0.05	<0.1	27	12	<0.05	
E5563950 (9504429)	<0.05	<0.05	28.6	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	22	13	<0.05	
E5563951 (9504430)	<0.05	<0.05	25.8	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	20	17	<0.05	
E5563952 (9504431)	1.80	4.22	48.9	12.1	8	5	0.74	9.4	259	0.20	151	33	34	47.3	
E5563953 (9504432)	<0.05	<0.05	27.7	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	18	17	<0.05	
E5563954 (9504433)	<0.05	<0.05	25.4	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	26	17	<0.05	
E5563955 (9504434)	<0.05	<0.05	26.6	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	24	16	<0.05	
E5563956 (9504435)	<0.05	<0.05	35.6	<0.05	6	<1	<0.05	<0.2	<0.1	<0.05	<0.1	42	8	<0.05	
E5563957 (9504436)	0.19	0.07	55.8	0.28	6	<1	0.08	<0.2	1.1	<0.05	1.1	45	<5	0.24	
E5563958 (9504437)	<0.05	<0.05	38.7	<0.05	7	1	<0.05	<0.2	0.3	<0.05	0.2	41	6	0.05	
E5563959 (9504438)	<0.05	<0.05	51.8	<0.05	7	<1	<0.05	<0.2	0.2	<0.05	0.2	44	6	<0.05	
E5563960 (9504439)	0.15	<0.05	49.3	0.24	6	<1	0.05	<0.2	0.9	<0.05	0.8	38	<5	0.18	
E5563961 (9504440)	0.29	0.12	58.5	0.59	6	2	0.12	<0.2	3.0	0.05	2.1	28	<5	0.59	
E5563962 (9504441)	<0.05	<0.05	38.5	<0.05	6	5	<0.05	<0.2	0.3	<0.05	0.3	25	<5	0.09	
E5563963 (9504442)	<0.05	<0.05	41.3	<0.05	6	3	<0.05	<0.2	0.3	<0.05	0.3	27	<5	0.12	
E5563964 (9504443)	0.06	<0.05	39.4	0.19	7	3	<0.05	<0.2	0.6	<0.05	1.0	22	<5	0.19	
E5563965 (9504444)	1.53	0.57	17.5	1.89	2	1	0.51	<0.2	2.3	0.26	4.4	171	<5	0.85	
E5563966 (9504445)	1.83	0.62	15.3	2.26	2	1	0.63	<0.2	2.1	0.30	4.8	177	11	0.93	
E5563967 (9504446)	1.77	0.64	15.2	2.26	2	1	0.62	<0.2	2.3	0.30	5.1	174	<5	0.96	
E5563968 (9504447)	1.80	0.66	14.7	2.01	2	1	0.60	<0.2	2.1	0.30	4.6	180	22	0.91	
E5563969 (9504448)	1.85	0.65	15.0	2.19	2	1	0.61	<0.2	2.1	0.31	4.8	170	43	0.96	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5563970 (9504449)	1.86	0.68	16.3	2.39	2	1	0.66	<0.2	2.4	0.33	5.1	177	6	1.03
E5563971 (9504450)	0.14	<0.05	0.31	0.19	<1	<1	<0.05	<0.2	1.1	<0.05	1.0	8	<5	0.25
E5563972 (9504451)	1.77	0.65	15.0	2.08	2	1	0.60	<0.2	2.5	0.31	4.8	185	7	0.96
E5563973 (9504452)	1.77	0.79	20.8	2.30	1	2	0.59	<0.2	2.6	0.31	5.3	161	<5	1.07
E5563974 (9504453)	2.17	0.83	20.4	2.73	1	2	0.74	<0.2	3.0	0.35	6.1	163	<5	1.24
E5563975 (9504454)	<0.05	<0.05	57.4	0.13	6	4	<0.05	<0.2	0.4	<0.05	0.7	8	<5	0.12
E5563976 (9504455)	1.84	0.69	17.6	2.26	2	1	0.62	<0.2	2.2	0.32	5.0	139	<5	0.99
E5563977 (9504456)	1.93	0.74	18.3	2.51	1	1	0.65	<0.2	2.8	0.33	5.8	173	<5	1.17
E5563978 (9504457)	1.90	0.71	18.1	2.40	1	1	0.64	<0.2	2.9	0.35	5.7	244	<5	1.16
E5563979 (9504458)	2.65	9.60	25.0	28.5	4	5	1.19	2.0	705	0.23	380	31	25	115
E5563980 (9504459)	1.39	0.67	18.8	1.90	1	2	0.51	<0.2	2.3	0.26	4.8	172	<5	0.94
E5563981 (9504460)	1.66	0.65	18.7	2.16	1	2	0.53	<0.2	2.4	0.27	5.1	205	<5	1.02
E5563982 (9504461)	1.45	0.74	19.9	2.29	1	2	0.54	<0.2	2.4	0.24	5.4	219	<5	1.07
E5563983 (9504462)	1.98	1.04	18.0	2.82	1	1	0.68	<0.2	3.0	0.27	6.6	182	<5	1.27
E5563984 (9504463)	2.00	0.75	17.9	2.50	1	2	0.68	<0.2	2.7	0.32	5.8	183	<5	1.15
E5563985 (9504464)	2.13	0.72	19.8	2.42	2	2	0.72	<0.2	2.7	0.39	5.3	194	7	1.07
E5563986 (9504465)	0.18	0.06	57.0	0.32	8	6	0.07	<0.2	1.6	<0.05	1.0	16	6	0.27
E5563987 (9504466)	<0.05	<0.05	42.3	<0.05	9	1	<0.05	<0.2	0.2	<0.05	<0.1	7	7	<0.05
E5563988 (9504467)	<0.05	<0.05	34.4	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	7	<5	<0.05
E5563989 (9504468)	<0.05	<0.05	40.6	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	7	<5	<0.05
E5563990 (9504469)	<0.05	<0.05	55.9	<0.05	15	<1	<0.05	<0.2	<0.1	<0.05	<0.1	8	<5	<0.05
E5563991 (9504470)	0.13	<0.05	0.31	0.16	1	<1	<0.05	<0.2	1.2	<0.05	1.0	6	<5	0.28
E5563992 (9504471)	<0.05	<0.05	14.7	<0.05	14	<1	<0.05	<0.2	<0.1	<0.05	<0.1	11	<5	<0.05
E5563993 (9504472)	<0.05	<0.05	41.9	<0.05	13	<1	<0.05	<0.2	0.1	<0.05	0.2	12	<5	<0.05
E5563994 (9504473)	<0.05	<0.05	18.0	<0.05	9	<1	<0.05	<0.2	0.3	<0.05	0.2	9	<5	0.05
E5563995 (9504474)	<0.05	<0.05	41.1	0.06	10	<1	<0.05	<0.2	0.4	<0.05	0.6	10	<5	0.13
E5563996 (9504475)	1.76	4.07	48.9	11.9	8	5	0.71	9.0	257	0.21	149	37	34	46.7
E5563997 (9504476)	<0.05	<0.05	68.3	0.07	9	<1	<0.05	<0.2	0.6	<0.05	0.6	7	<5	0.18
E5563998 (9504477)	<0.05	<0.05	37.6	0.05	9	<1	<0.05	<0.2	0.5	<0.05	0.5	11	<5	0.12
E5563999 (9504478)	<0.05	<0.05	59.5	<0.05	13	<1	<0.05	<0.2	0.3	<0.05	0.2	12	<5	0.05
E5564000 (9504479)	<0.05	<0.05	51.7	<0.05	12	<1	<0.05	<0.2	0.3	<0.05	0.2	41	<5	0.06
E5564001 (9504480)	<0.05	<0.05	46.5	<0.05	12	<1	<0.05	<0.2	0.2	<0.05	<0.1	48	<5	<0.05

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018					DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564002 (9504481)	<0.05	<0.05	44.0	<0.05	10	<1	<0.05	<0.2	0.1	<0.05	<0.1	48	<5	<0.05	
E5564003 (9504482)	<0.05	<0.05	41.7	<0.05	13	<1	<0.05	<0.2	0.3	<0.05	0.1	47	<5	<0.05	
E5564004 (9504483)	<0.05	<0.05	41.5	0.05	11	<1	<0.05	<0.2	0.1	<0.05	0.2	48	<5	<0.05	
E5564005 (9504484)	<0.05	<0.05	41.5	<0.05	10	<1	<0.05	<0.2	0.1	<0.05	<0.1	54	<5	<0.05	
E5564006 (9504485)	<0.05	<0.05	60.5	<0.05	11	<1	<0.05	<0.2	<0.1	<0.05	<0.1	54	<5	<0.05	
E5564007 (9504486)	<0.05	<0.05	66.8	0.08	8	1	<0.05	<0.2	0.4	<0.05	0.3	63	<5	0.07	
E5564008 (9504487)	<0.05	20.0	68.7	<0.05	9	4	<0.05	<0.2	0.6	<0.05	0.2	69	<5	0.06	
E5564009 (9504488)	<0.05	<0.05	74.5	<0.05	8	4	<0.05	<0.2	0.6	<0.05	0.5	40	6	0.13	
E5564010 (9504489)	0.18	0.05	45.9	0.39	7	5	0.09	<0.2	1.4	0.07	1.2	40	<5	0.29	
E5564011 (9504490)	0.13	<0.05	0.30	0.18	<1	<1	<0.05	<0.2	1.1	<0.05	1.0	8	<5	0.27	
E5564012 (9504491)	<0.05	<0.05	64.8	<0.05	8	4	<0.05	<0.2	0.1	<0.05	<0.1	42	<5	<0.05	
E5564013 (9504492)	0.05	<0.05	68.6	0.08	8	3	<0.05	<0.2	0.4	<0.05	0.3	43	<5	0.08	
E5564014 (9504493)	<0.05	<0.05	71.4	0.05	8	4	<0.05	<0.2	0.5	<0.05	0.3	53	<5	0.08	
E5564015 (9504494)	<0.05	<0.05	52.0	0.11	7	6	<0.05	<0.2	0.5	<0.05	0.7	36	<5	0.19	
E5564016 (9504495)	0.07	<0.05	39.2	0.19	6	3	<0.05	<0.2	0.4	<0.05	0.6	31	<5	0.16	
E5564017 (9504496)	<0.05	<0.05	38.1	0.14	8	3	<0.05	<0.2	0.5	<0.05	0.6	27	<5	0.17	
E5564018 (9504497)	<0.05	<0.05	39.7	<0.05	7	3	<0.05	<0.2	0.3	<0.05	0.3	25	<5	0.08	
E5564019 (9504498)	2.74	9.65	25.6	27.9	4	5	1.23	2.3	723	0.23	385	26	26	116	
E5564020 (9504499)	<0.05	<0.05	42.1	0.14	7	3	<0.05	<0.2	0.4	<0.05	0.4	28	<5	0.10	
E5564021 (9504500)	1.81	0.58	16.1	2.56	2	1	0.65	<0.2	2.5	0.32	5.4	141	<5	1.03	
E5564022 (9504501)	1.90	0.64	15.6	2.41	2	1	0.61	<0.2	2.4	0.29	5.4	145	<5	1.00	
E5564023 (9504502)	1.93	0.63	16.0	2.75	2	1	0.72	<0.2	2.6	0.35	5.8	144	<5	1.06	
E5564024 (9504503)	1.74	0.60	15.3	2.56	2	1	0.68	<0.2	2.6	0.32	5.1	155	<5	1.02	
E5564025 (9504504)	1.69	0.60	14.8	2.49	2	1	0.62	<0.2	2.5	0.29	5.4	177	<5	0.99	
E5564026 (9504505)	1.45	0.53	13.6	2.18	2	1	0.56	<0.2	2.2	0.26	4.7	192	<5	0.92	
E5564027 (9504506)	1.83	0.64	15.4	2.65	2	1	0.67	<0.2	2.6	0.30	5.5	155	<5	1.11	
E5564028 (9504507)	0.07	<0.05	59.8	0.15	8	3	<0.05	<0.2	0.6	<0.05	0.5	35	<5	0.12	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018					DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563938 (9504417)	0.10	<0.1	38	1.5	90.8	0.39	0.3	0.44	<0.5	0.25	0.06	242	2	16.0	
E5563939 (9504418)	0.09	<0.1	37	1.5	94.1	0.38	0.2	0.43	<0.5	0.25	0.06	237	2	16.1	
E5563940 (9504419)	0.09	<0.1	39	1.5	83.8	0.41	0.2	0.45	<0.5	0.27	0.06	250	1	17.0	
E5563941 (9504420)	0.10	<0.1	39	1.6	83.4	0.38	0.2	0.43	<0.5	0.26	0.07	244	1	16.5	
E5563942 (9504421)	0.10	<0.1	38	1.6	98.8	0.40	0.2	0.42	<0.5	0.25	0.06	244	<1	16.7	
E5563943 (9504422)	0.11	0.8	40	1.4	93.6	0.37	0.2	0.44	<0.5	0.23	0.06	254	<1	14.7	
E5563944 (9504423)	0.12	2.0	37	1.6	92.2	0.38	0.3	0.41	4.6	0.27	0.27	233	2	16.6	
E5563945 (9504424)	<0.01	0.5	<5	0.2	33.9	<0.05	3.9	0.02	9.3	<0.05	4.82	8	2	1.1	
E5563946 (9504425)	<0.01	0.2	<5	<0.1	28.2	<0.05	2.6	<0.01	8.8	<0.05	3.28	<5	2	0.5	
E5563947 (9504426)	<0.01	0.2	<5	0.2	1.2	<0.05	0.6	0.03	<0.5	<0.05	0.19	<5	<1	1.1	
E5563948 (9504427)	<0.01	0.2	<5	<0.1	102	<0.05	0.4	<0.01	95.3	<0.05	1.78	<5	2	<0.5	
E5563949 (9504428)	<0.01	0.2	<5	<0.1	101	<0.05	0.6	<0.01	102	<0.05	1.57	<5	1	<0.5	
E5563950 (9504429)	<0.01	0.4	<5	<0.1	97.9	<0.05	0.8	<0.01	100	<0.05	1.98	<5	<1	<0.5	
E5563951 (9504430)	<0.01	0.3	<5	<0.1	130	<0.05	0.2	<0.01	131	<0.05	0.78	<5	<1	<0.5	
E5563952 (9504431)	0.01	26.4	8	19.0	225	1.36	105	0.36	6.9	0.24	23.1	75	13	18.7	
E5563953 (9504432)	<0.01	0.2	<5	<0.1	119	<0.05	0.4	<0.01	122	<0.05	0.68	<5	<1	<0.5	
E5563954 (9504433)	<0.01	0.3	<5	<0.1	124	<0.05	0.5	<0.01	128	<0.05	0.41	<5	<1	<0.5	
E5563955 (9504434)	<0.01	0.3	<5	<0.1	125	<0.05	0.2	<0.01	125	<0.05	1.25	<5	<1	<0.5	
E5563956 (9504435)	<0.01	0.2	<5	<0.1	78.2	<0.05	0.5	<0.01	73.9	<0.05	0.42	<5	2	<0.5	
E5563957 (9504436)	<0.01	0.3	<5	0.3	49.5	0.06	6.6	0.01	36.2	<0.05	4.10	<5	4	2.1	
E5563958 (9504437)	<0.01	0.4	<5	<0.1	54.6	<0.05	2.9	<0.01	51.1	<0.05	1.88	<5	2	<0.5	
E5563959 (9504438)	<0.01	0.4	<5	<0.1	52.3	<0.05	1.8	<0.01	49.8	<0.05	1.61	<5	2	<0.5	
E5563960 (9504439)	<0.01	0.2	<5	0.2	42.1	<0.05	5.3	<0.01	24.0	<0.05	4.30	<5	3	1.7	
E5563961 (9504440)	<0.01	0.3	<5	0.6	44.2	0.12	7.5	0.02	27.1	<0.05	6.34	<5	5	4.7	
E5563962 (9504441)	<0.01	0.8	<5	<0.1	26.8	<0.05	4.3	<0.01	7.3	<0.05	8.07	<5	1	<0.5	
E5563963 (9504442)	<0.01	0.6	<5	<0.1	19.7	<0.05	5.9	<0.01	7.1	<0.05	8.45	<5	1	<0.5	
E5563964 (9504443)	<0.01	0.5	<5	0.2	14.1	<0.05	5.4	<0.01	7.4	<0.05	7.27	<5	2	0.9	
E5563965 (9504444)	0.07	1.4	39	1.4	81.3	0.33	0.7	0.41	0.7	0.23	1.39	246	<1	14.5	
E5563966 (9504445)	0.12	0.3	41	1.7	100	0.42	0.3	0.45	<0.5	0.29	0.10	258	<1	17.9	
E5563967 (9504446)	0.09	<0.1	39	1.6	84.9	0.40	0.3	0.44	<0.5	0.29	0.07	246	<1	17.3	
E5563968 (9504447)	0.09	<0.1	39	1.7	85.6	0.39	0.3	0.43	<0.5	0.29	0.07	253	<1	17.0	
E5563969 (9504448)	0.09	<0.1	38	1.7	78.9	0.41	0.3	0.41	<0.5	0.28	0.10	248	8	17.3	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018	DATE RECEIVED: Aug 27, 2018					DATE REPORTED: Sep 28, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5563970 (9504449)	0.12	<0.1	43	1.8	91.6	0.43	0.4	0.47	<0.5	0.29	0.13	269	<1	19.2	
E5563971 (9504450)	<0.01	0.2	<5	0.2	1.8	<0.05	0.9	0.03	<0.5	<0.05	0.17	<5	<1	1.2	
E5563972 (9504451)	0.10	<0.1	41	1.7	80.8	0.39	0.3	0.44	<0.5	0.26	0.17	263	<1	16.9	
E5563973 (9504452)	0.27	<0.1	57	1.8	101	0.43	0.4	0.61	1.2	0.27	0.08	391	<1	17.2	
E5563974 (9504453)	0.17	0.9	49	2.0	93.8	0.49	0.4	0.55	1.0	0.33	0.23	319	<1	20.9	
E5563975 (9504454)	<0.01	0.2	<5	0.1	27.7	<0.05	8.9	<0.01	11.4	<0.05	4.80	<5	2	<0.5	
E5563976 (9504455)	0.18	0.1	45	1.7	73.1	0.40	0.5	0.50	0.6	0.27	0.11	295	<1	17.5	
E5563977 (9504456)	0.20	<0.1	47	1.9	85.4	0.45	0.4	0.54	<0.5	0.32	0.08	310	<1	19.8	
E5563978 (9504457)	0.43	<0.1	49	1.9	80.0	0.46	0.4	0.51	<0.5	0.31	0.11	312	<1	17.0	
E5563979 (9504458)	0.01	9.8	10	45.8	306	2.89	83.3	0.48	10.8	0.28	14.6	66	5	28.1	
E5563980 (9504459)	0.30	<0.1	44	1.6	97.1	0.33	0.3	0.53	<0.5	0.22	0.07	305	<1	13.6	
E5563981 (9504460)	0.23	<0.1	43	1.8	106	0.39	0.3	0.56	<0.5	0.24	0.08	298	<1	14.0	
E5563982 (9504461)	0.22	<0.1	47	1.8	136	0.41	0.4	0.60	<0.5	0.22	0.09	322	<1	14.3	
E5563983 (9504462)	0.22	<0.1	42	2.2	99.9	0.50	0.3	0.52	<0.5	0.29	0.08	281	7	18.1	
E5563984 (9504463)	0.25	0.1	46	2.0	87.3	0.45	0.3	0.53	<0.5	0.32	0.09	297	<1	17.8	
E5563985 (9504464)	0.78	0.8	54	1.9	106	0.47	0.4	0.54	8.8	0.33	0.14	338	11	19.4	
E5563986 (9504465)	<0.01	0.5	<5	0.3	38.6	0.06	21.6	0.02	21.9	<0.05	32.2	7	5	2.6	
E5563987 (9504466)	<0.01	0.6	<5	<0.1	85.3	<0.05	8.5	<0.01	94.7	<0.05	10.5	<5	4	<0.5	
E5563988 (9504467)	<0.01	0.3	<5	<0.1	62.0	<0.05	3.3	<0.01	59.3	<0.05	0.58	<5	5	<0.5	
E5563989 (9504468)	<0.01	0.5	<5	<0.1	90.4	0.05	0.5	<0.01	85.0	<0.05	0.74	<5	7	<0.5	
E5563990 (9504469)	<0.01	1.1	<5	<0.1	10.9	<0.05	0.5	<0.01	7.4	<0.05	2.07	<5	<1	<0.5	
E5563991 (9504470)	<0.01	0.2	<5	0.2	2.2	<0.05	1.0	0.03	<0.5	<0.05	0.18	<5	<1	1.2	
E5563992 (9504471)	<0.01	0.9	<5	<0.1	10.0	<0.05	0.3	<0.01	5.2	<0.05	5.42	<5	<1	<0.5	
E5563993 (9504472)	<0.01	0.6	<5	<0.1	31.7	<0.05	0.6	<0.01	25.0	<0.05	1.48	<5	2	<0.5	
E5563994 (9504473)	<0.01	0.3	<5	<0.1	46.8	<0.05	1.1	<0.01	40.9	<0.05	0.35	<5	3	<0.5	
E5563995 (9504474)	<0.01	0.3	<5	0.1	48.4	<0.05	1.2	<0.01	34.8	<0.05	0.68	<5	3	<0.5	
E5563996 (9504475)	0.02	26.5	8	18.6	231	1.31	101	0.37	6.9	0.23	22.4	82	14	18.9	
E5563997 (9504476)	<0.01	0.4	<5	0.1	50.9	<0.05	0.4	<0.01	33.4	<0.05	0.50	<5	3	<0.5	
E5563998 (9504477)	<0.01	0.3	<5	<0.1	59.6	<0.05	0.3	<0.01	39.5	<0.05	0.36	<5	4	<0.5	
E5563999 (9504478)	<0.01	0.8	<5	<0.1	26.6	<0.05	0.7	<0.01	13.9	<0.05	3.19	<5	1	<0.5	
E5564000 (9504479)	<0.01	0.6	<5	<0.1	51.1	<0.05	0.9	<0.01	35.2	<0.05	2.99	<5	2	<0.5	
E5564001 (9504480)	<0.01	0.4	<5	<0.1	34.2	<0.05	0.3	<0.01	29.0	<0.05	1.14	<5	2	<0.5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5
E5564002 (9504481)	<0.01	0.4	<5	<0.1	83.3	<0.05	0.6	<0.01	75.3	<0.05	1.06	<5	6	<0.5
E5564003 (9504482)	<0.01	0.7	<5	<0.1	73.2	<0.05	2.9	<0.01	65.5	<0.05	1.78	<5	5	<0.5
E5564004 (9504483)	<0.01	0.3	<5	<0.1	37.4	<0.05	0.7	0.01	33.9	<0.05	0.99	6	3	<0.5
E5564005 (9504484)	<0.01	0.6	<5	<0.1	38.3	<0.05	0.7	<0.01	32.5	<0.05	2.29	<5	3	<0.5
E5564006 (9504485)	<0.01	0.6	<5	<0.1	19.4	<0.05	0.6	<0.01	19.4	<0.05	4.09	<5	1	<0.5
E5564007 (9504486)	<0.01	0.5	<5	<0.1	50.2	<0.05	5.6	<0.01	39.2	<0.05	4.38	<5	4	<0.5
E5564008 (9504487)	<0.01	1.0	<5	<0.1	44.7	<0.05	16.7	<0.01	36.2	<0.05	14.7	<5	6	<0.5
E5564009 (9504488)	<0.01	1.1	<5	<0.1	60.6	<0.05	17.2	<0.01	38.6	<0.05	12.9	<5	5	<0.5
E5564010 (9504489)	<0.01	0.7	<5	0.3	19.3	0.08	13.7	<0.01	7.0	0.06	24.1	<5	2	2.1
E5564011 (9504490)	<0.01	0.2	<5	0.2	1.9	<0.05	0.9	0.03	<0.5	<0.05	0.18	<5	<1	1.1
E5564012 (9504491)	<0.01	0.9	<5	<0.1	17.3	<0.05	11.2	<0.01	11.4	<0.05	25.4	<5	3	<0.5
E5564013 (9504492)	<0.01	0.7	<5	<0.1	19.6	<0.05	11.2	<0.01	14.1	<0.05	17.0	5	2	0.5
E5564014 (9504493)	<0.01	0.6	<5	<0.1	23.5	<0.05	4.9	<0.01	15.8	<0.05	7.76	7	2	<0.5
E5564015 (9504494)	<0.01	0.4	<5	0.1	27.4	<0.05	6.0	<0.01	16.4	<0.05	4.83	<5	2	0.6
E5564016 (9504495)	<0.01	0.3	<5	0.2	22.9	<0.05	2.7	<0.01	11.9	<0.05	2.84	<5	1	0.7
E5564017 (9504496)	<0.01	0.3	<5	0.1	13.5	<0.05	4.5	<0.01	3.3	<0.05	3.59	<5	1	0.5
E5564018 (9504497)	<0.01	0.3	<5	<0.1	12.4	<0.05	2.5	<0.01	3.7	<0.05	2.98	<5	1	<0.5
E5564019 (9504498)	0.01	10.1	11	47.0	311	2.96	84.2	0.48	10.9	0.30	14.4	65	5	28.9
E5564020 (9504499)	<0.01	0.5	<5	<0.1	16.6	<0.05	2.8	<0.01	4.8	<0.05	4.57	<5	2	0.7
E5564021 (9504500)	0.09	1.9	42	1.8	89.0	0.43	0.6	0.46	4.9	0.30	1.18	267	<1	16.8
E5564022 (9504501)	0.06	1.1	42	1.7	95.3	0.44	0.9	0.47	0.9	0.27	0.09	268	<1	17.6
E5564023 (9504502)	0.12	0.5	43	2.0	97.1	0.43	0.3	0.47	0.6	0.34	0.08	278	<1	18.0
E5564024 (9504503)	0.07	0.3	39	1.8	97.9	0.41	0.3	0.43	<0.5	0.30	0.07	250	<1	16.6
E5564025 (9504504)	0.12	0.2	40	1.7	87.6	0.40	0.3	0.41	<0.5	0.28	0.07	253	<1	15.8
E5564026 (9504505)	0.09	0.1	38	1.5	77.2	0.36	0.2	0.41	<0.5	0.27	0.07	243	13	14.3
E5564027 (9504506)	0.12	0.1	40	1.8	95.3	0.42	0.3	0.45	<0.5	0.32	0.10	256	<1	16.7
E5564028 (9504507)	<0.01	0.5	<5	0.1	23.1	<0.05	9.8	<0.01	14.5	<0.05	20.5	8	2	0.9

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5563938 (9504417)		1.8	81	41.4
E5563939 (9504418)		1.8	78	39.3
E5563940 (9504419)		1.9	87	42.1
E5563941 (9504420)		1.8	81	40.3
E5563942 (9504421)		1.9	83	43.3
E5563943 (9504422)		1.6	83	35.6
E5563944 (9504423)		1.9	74	37.5
E5563945 (9504424)		<0.1	74	9.8
E5563946 (9504425)		<0.1	78	10.2
E5563947 (9504426)		0.1	<5	27.1
E5563948 (9504427)		<0.1	122	1.5
E5563949 (9504428)		<0.1	31	1.2
E5563950 (9504429)		<0.1	20	2.7
E5563951 (9504430)		<0.1	8	0.9
E5563952 (9504431)		1.4	362	189
E5563953 (9504432)		<0.1	9	1.1
E5563954 (9504433)		<0.1	13	1.7
E5563955 (9504434)		<0.1	13	2.0
E5563956 (9504435)		<0.1	121	1.6
E5563957 (9504436)		0.2	174	4.0
E5563958 (9504437)		<0.1	79	5.4
E5563959 (9504438)		<0.1	72	3.4
E5563960 (9504439)		0.2	121	2.6
E5563961 (9504440)		0.3	159	14.2
E5563962 (9504441)		<0.1	40	38.4
E5563963 (9504442)		<0.1	37	27.2
E5563964 (9504443)		<0.1	32	21.8
E5563965 (9504444)		1.7	89	40.2
E5563966 (9504445)		2.0	129	43.7
E5563967 (9504446)		1.9	84	41.5
E5563968 (9504447)		1.8	108	41.8
E5563969 (9504448)		1.9	106	42.2

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018 DATE RECEIVED: Aug 27, 2018 DATE REPORTED: Sep 28, 2018 SAMPLE TYPE: Drill Core

Analyte:	Yb	Zn	Zr
Unit:	ppm	ppm	ppm
RDL:	0.1	5	0.5
Sample ID (AGAT ID)			
E5563970 (9504449)	2.0	98	47.1
E5563971 (9504450)	0.1	5	25.0
E5563972 (9504451)	1.9	88	41.4
E5563973 (9504452)	2.0	85	57.6
E5563974 (9504453)	2.2	97	54.5
E5563975 (9504454)	<0.1	137	28.8
E5563976 (9504455)	2.1	86	48.7
E5563977 (9504456)	2.2	83	52.7
E5563978 (9504457)	2.1	158	55.2
E5563979 (9504458)	1.7	143	237
E5563980 (9504459)	1.6	42	53.4
E5563981 (9504460)	1.6	51	53.6
E5563982 (9504461)	1.6	55	59.2
E5563983 (9504462)	2.0	54	48.6
E5563984 (9504463)	2.2	64	52.2
E5563985 (9504464)	2.3	105	53.9
E5563986 (9504465)	0.2	146	38.9
E5563987 (9504466)	<0.1	198	9.5
E5563988 (9504467)	<0.1	112	0.8
E5563989 (9504468)	<0.1	177	0.8
E5563990 (9504469)	<0.1	16	0.6
E5563991 (9504470)	0.1	7	32.2
E5563992 (9504471)	<0.1	12	2.5
E5563993 (9504472)	<0.1	39	1.0
E5563994 (9504473)	<0.1	78	0.7
E5563995 (9504474)	<0.1	60	1.6
E5563996 (9504475)	1.4	371	192
E5563997 (9504476)	<0.1	61	0.7
E5563998 (9504477)	<0.1	77	<0.5
E5563999 (9504478)	<0.1	25	0.8
E5564000 (9504479)	<0.1	63	2.1
E5564001 (9504480)	<0.1	57	0.8

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

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 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Aug 27, 2018 DATE RECEIVED: Aug 27, 2018 DATE REPORTED: Sep 28, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564002 (9504481)		<0.1	148	1.3
E5564003 (9504482)		<0.1	119	1.4
E5564004 (9504483)		<0.1	64	2.4
E5564005 (9504484)		<0.1	67	1.1
E5564006 (9504485)		<0.1	46	1.2
E5564007 (9504486)		<0.1	135	6.1
E5564008 (9504487)		<0.1	144	23.7
E5564009 (9504488)		<0.1	109	26.6
E5564010 (9504489)		0.2	28	31.6
E5564011 (9504490)		0.1	6	27.4
E5564012 (9504491)		<0.1	35	27.2
E5564013 (9504492)		<0.1	44	20.1
E5564014 (9504493)		<0.1	42	29.3
E5564015 (9504494)		<0.1	34	50.7
E5564016 (9504495)		<0.1	20	18.5
E5564017 (9504496)		<0.1	21	17.5
E5564018 (9504497)		<0.1	27	17.9
E5564019 (9504498)		1.7	148	241
E5564020 (9504499)		<0.1	31	13.5
E5564021 (9504500)		2.0	88	43.9
E5564022 (9504501)		1.8	100	47.8
E5564023 (9504502)		2.1	80	45.7
E5564024 (9504503)		1.9	75	42.6
E5564025 (9504504)		1.9	77	40.0
E5564026 (9504505)		1.7	76	36.5
E5564027 (9504506)		2.0	84	43.6
E5564028 (9504507)		<0.1	47	23.1

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Sieving - % Passing (Crushing)

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563938 (9504417)		78
E5563948 (9504427)		83
E5563958 (9504437)		80
E5563968 (9504447)		82
E5563975 (9504454)		83
E5563982 (9504461)		84
E5563992 (9504471)		82
E5564001 (9504480)		83
E5564010 (9504489)		84
E5564015 (9504494)		76.55

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B378793

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Sieving - % Passing (Pulverizing)

DATE SAMPLED: Aug 27, 2018

DATE RECEIVED: Aug 27, 2018

DATE REPORTED: Sep 28, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5563938 (9504417)		93
E5563970 (9504449)		92
E5564004 (9504483)		94

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9504421	3.16	3.13	1.0%	9504440	2.83	2.83	0.0%	9504459	2.95	2.93	0.7%	9504478	2.95	2.96	0.3%
	REPLICATE #5															
Parameter	Sample ID	Original	Replicate	RPD												
Specific Gravity	9504497	2.70	2.70	0.0%												

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9504425	547	551	0.7%	9504446	373	363	2.7%	9504465	2440	2360	3.3%	9504484	12300	12000	2.5%
Li2O	9504425	0.118	0.119	0.8%	9504446	0.080	0.078	2.5%	9504465	0.525	0.509	3.1%	9504484	2.64	2.57	2.7%
Ta	9504424	207	192	7.5%	9504501	< 0.5	< 0.5	0.0%	9504465	470	437	7.3%				
Nb	9504424	122	113	7.7%	9504504	1	1	0.0%	9504465	311	294	5.6%				
Sn	9504424	40	40	0.0%	9504501	10	10	0.0%	9504465	32	33	3.1%				
Cs	9504424	365	372	1.9%	9504501	35.9	34.0	5.4%	9504465	356	350	1.7%				
Rb	9504424	1670	1700	1.8%	9504501	75.0	70.0	6.9%	9504465	2820	2800	0.7%				
K	9504425	0.899	0.907	0.9%	9504446	0.336	0.329	2.1%	9504465	1.35	1.34	0.7%	9504484	1.03	1.02	1.0%
Mg	9504425	0.04	0.04	0.0%	9504446	4.82	5.03	4.3%	9504465	0.09	0.08	11.8%	9504484	0.055	0.052	5.6%
Fe	9504425	0.32	0.32	0.0%	9504446	8.65	8.65	0.0%	9504465	0.476	0.454	4.7%	9504484	0.38	0.37	2.7%
P	9504425	0.11	0.11	0.0%	9504446	0.02	0.02	0.0%	9504465	0.536	0.523	2.5%	9504484	0.056	0.053	5.5%
Al	9504425	9.50	9.55	0.5%	9504446	7.51	7.37	1.9%	9504465	9.36	9.17	2.1%	9504484	6.38	6.35	0.5%
Si	9504425	32.8	33.9	3.3%	9504446	22.7	22.1	2.7%	9504465	31.7	31.5	0.6%	9504484	35.7	35.9	0.6%
Be	9504424	1040	1040	0.0%	9504501	< 5	< 5	0.0%	9504465	83	76	8.8%				
B	9504425	< 20	< 20	0.0%	9504501	< 20	< 20	0.0%	9504465	20	18	10.5%	9504484	22	22	0.0%
Mn	9504425	401	388	3.3%	9504446	1550	1640	5.6%	9504465	1940	1890	2.6%	9504484	992	963	3.0%
Mo	9504424	4	4	0.0%	9504501	< 2	< 2	0.0%	9504465	3	3	0.0%				
Bi	9504424	3.8	3.4	11.1%	9504504	< 0.1	< 0.1	0.0%	9504465	13.0	13.4	3.0%				
As	9504424	< 5	< 5	0.0%	9504501	< 5	< 5	0.0%	9504465	< 5	< 5	0.0%				
Ag	9504424	< 1	< 1	0.0%	9504501	< 1	< 1	0.0%	9504465	6	6	0.0%				
Ba	9504425	3.49	3.00	15.1%	9504446	46.7	48.8	4.4%	9504465	6.65	6.60	0.8%	9504484	9.2	9.1	1.1%
Ca	9504425	0.47	0.47	0.0%	9504446	7.97	7.98	0.1%	9504465	1.22	1.20	1.7%	9504484	0.189	0.173	8.8%
Cd	9504424	< 0.2	< 0.2	0.0%	9504501	< 0.2	< 0.2	0.0%	9504465	0.8	0.8	0.0%				
Ce	9504424	1.6	1.6	0.0%	9504501	6.5	6.2	4.7%	9504465	2.6	2.6	0.0%				



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Co	9504424	2.4	2.4	0.0%	9504501	57.0	57.2	0.4%	9504465	2.1	2.0	4.9%				
Cr	9504425	< 0.005	< 0.005	0.0%	9504446	0.0244	0.0261	6.7%	9504465	< 0.005	< 0.005	0.0%	9504484	< 0.005	< 0.005	0.0%
Cu	9504425	< 5	< 5	0.0%	9504446	113	122	7.7%	9504465	< 5	< 5	0.0%	9504484	< 5	< 5	0.0%
Dy	9504424	0.18	0.18	0.0%	9504501	2.89	2.85	1.4%	9504465	0.34	0.34	0.0%				
Er	9504424	0.09	0.09	0.0%	9504501	1.90	1.92	1.0%	9504465	0.177	0.160	10.1%				
Eu	9504424	0.06	0.08	28.6%	9504501	0.64	0.75	15.8%	9504465	0.063	0.053	17.2%				
Ga	9504424	56.7	58.5	3.1%	9504501	15.6	15.4	1.3%	9504465	57.0	57.0	0.0%				
Gd	9504424	0.271	0.234	14.7%	9504501	2.41	2.39	0.8%	9504465	0.32	0.31	3.2%				
Ge	9504424	7	7	0.0%	9504501	2	2	0.0%	9504465	8	8	0.0%				
Hf	9504424	1	1	0.0%	9504501	1	1	0.0%	9504465	6	6	0.0%				
Ho	9504424	< 0.05	< 0.05	0.0%	9504501	0.61	0.64	4.8%	9504465	0.067	0.060	11.0%				
In	9504424	< 0.2	< 0.2	0.0%	9504501	< 0.2	< 0.2	0.0%	9504465	< 0.2	< 0.2	0.0%				
La	9504424	0.8	0.8	0.0%	9504501	2.42	2.24	7.7%	9504465	1.6	1.6	0.0%				
Lu	9504424	< 0.05	< 0.05	0.0%	9504501	0.290	0.296	2.0%	9504465	< 0.05	< 0.05	0.0%				
Nd	9504424	0.96	0.91	5.3%	9504501	5.38	5.23	2.8%	9504465	1.0	1.0	0.0%				
Ni	9504425	30	27	10.5%	9504446	174	184	5.6%	9504465	16	12	28.6%	9504484	54	53	1.9%
Pb	9504424	< 5	< 5	0.0%	9504501	< 5	< 5	0.0%	9504465	6	6	0.0%				
Pr	9504424	0.216	0.205	5.2%	9504501	0.996	0.942	5.6%	9504465	0.27	0.26	3.8%				
S	9504425	< 0.01	< 0.01	0.0%	9504446	0.09	0.10	10.5%	9504465	< 0.01	< 0.01	0.0%	9504484	< 0.01	< 0.01	0.0%
Sb	9504424	0.54	0.58	7.1%	9504501	1.1	1.1	0.0%	9504465	0.5	0.5	0.0%				
Sc	9504425	< 5	< 5	0.0%	9504446	39	40	2.5%	9504465	< 5	< 5	0.0%	9504484	< 5	< 5	0.0%
Sm	9504424	0.2	0.2	0.0%	9504501	1.7	1.7	0.0%	9504465	0.3	0.3	0.0%				
Sr	9504425	28.2	29.8	5.5%	9504446	84.9	87.0	2.4%	9504465	38.6	39.1	1.3%	9504484	38.3	36.1	5.9%
Tb	9504424	< 0.05	< 0.05	0.0%	9504501	0.437	0.414	5.4%	9504465	0.057	0.066	14.6%				
Th	9504424	3.9	3.9	0.0%	9504504	0.26	0.24	8.0%	9504465	21.6	23.4	8.0%				
Ti	9504425	< 0.01	< 0.01	0.0%	9504446	0.439	0.430	2.1%	9504465	0.02	0.02	0.0%	9504484	< 0.01	< 0.01	0.0%
Tl	9504424	9.29	9.65	3.8%	9504501	0.9	0.9	0.0%	9504465	21.9	22.2	1.4%				
Tm	9504424	< 0.05	< 0.05	0.0%	9504501	0.27	0.27	0.0%	9504465	< 0.05	< 0.05	0.0%				
U	9504424	4.82	4.95	2.7%	9504501	0.094	0.084	11.2%	9504465	32.2	32.0	0.6%				
V	9504425	< 5	< 5	0.0%	9504446	246	260	5.5%	9504465	7	7	0.0%	9504484	< 5	< 5	0.0%
W	9504484	3	3	0.0%	9504501	< 1	< 1	0.0%	9504465	5	5	0.0%				
Y	9504424	1.1	1.1	0.0%	9504501	17.6	17.4	1.1%	9504465	2.56	2.45	4.4%				
Yb	9504424	< 0.1	< 0.1	0.0%	9504501	1.8	1.8	0.0%	9504465	0.2	0.2	0.0%				
Zn	9504425	78	79	1.3%	9504446	84	80	4.9%	9504465	146	146	0.0%	9504484	67	67	0.0%



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Zr	9504424	9.8	9.8	0.0%	9504501	47.8	47.7	0.2%	9504465	38.9	39.2	0.8%				
	REPLICATE #5															
Parameter	Sample ID	Original	Replicate	RPD												
Li	9504504	280	288	2.8%												
Li2O	9504504	0.0603	0.0621	2.9%												
K	9504504	0.21	0.21	0.0%												
Mg	9504504	4.85	4.77	1.7%												
Fe	9504504	8.27	8.46	2.3%												
P	9504504	0.02	0.02	0.0%												
Al	9504504	7.00	7.21	3.0%												
Si	9504504	22.3	22.7	1.8%												
B	9504504	< 20	< 20	0.0%												
Mn	9504504	1500	1500	0.0%												
Ba	9504504	32.9	33.6	2.1%												
Ca	9504504	7.75	7.91	2.0%												
Cr	9504504	0.0247	0.0244	1.2%												
Cu	9504504	157	155	1.3%												
Ni	9504504	177	172	2.9%												
S	9504504	0.118	0.110	7.0%												
Sc	9504504	40	39	2.5%												
Sr	9504504	87.6	87.7	0.1%												
Ti	9504504	0.414	0.423	2.2%												
V	9504504	253	250	1.2%												
Zn	9504504	77	83	7.5%												



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

Parameter	CRM #1				CRM #2				CRM #3				CRM #4			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.68	101%	95% - 110%	2.65	2.68	101%	95% - 110%	2.65	2.68	101%	95% - 110%	2.65	2.68	101%	95% - 110%
CRM #5																
Parameter	Expect	Actual	Recovery	Limits												
Specific Gravity	2.65	2.68	101%	95% - 110%												

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GBM998-10)				CRM #4 (ref.Till-2)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	35	95%	90% - 110%									47	45	97%	90% - 110%
Ta	0.9	1	109%	90% - 110%									1.9	1.8	94%	90% - 110%
Nb	13	13	99%	90% - 110%									20	19	93%	90% - 110%
Cs	1.5	1.6	106%	90% - 110%												
Rb	55	58	106%	90% - 110%									144	153	106%	90% - 110%
K	1.37	1.45	106%	90% - 110%									2.55	2.48	97%	90% - 110%
Mg	0.325	0.318	98%	90% - 110%									1.1	1.1	101%	90% - 110%
Fe	4.34	4.32	100%	90% - 110%									3.77	3.74	99%	90% - 110%
Al	10.95	10.81	99%	90% - 110%									8.47	7.95	94%	90% - 110%
Si	23.3	23.5	101%	90% - 110%									28.4	28.3	100%	90% - 110%
Be					4.0	3.7	93%	90% - 110%					4.0	4.1	102%	90% - 110%
Mn	836	784	94%	90% - 110%									780	749	96%	90% - 110%
Mo					14	14	100%	90% - 110%					14	14	98%	90% - 110%
As					26	24	92%	90% - 110%	25	23	94%	90% - 110%				
Ba	340	333	98%	90% - 110%									540	522	97%	90% - 110%
Ca	5.72	5.96	104%	90% - 110%									0.907	0.88	97%	90% - 110%
Ce	122	125	103%	90% - 110%									98	102	104%	90% - 110%
Co	2.8	2.7	96%	90% - 110%					1202	1225	102%	90% - 110%				
Cu													150	153	102%	90% - 110%
Dy	18.2	19.2	105%	90% - 110%												
Er	14.2	15.3	107%	90% - 110%									3.7	3.8	102%	90% - 110%
Eu	2.0	1.9	97%	90% - 110%												
Ga	35	36	104%	90% - 110%												
Gd	14	15	110%	90% - 110%												



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Hf	10.6	9.9	93%	90% - 110%									11	10	95%	90% - 110%
Ho	4.3	4.4	103%	90% - 110%												
La	58	58	99%	90% - 110%									44	45	103%	90% - 110%
Lu	2.1	2.1	101%	90% - 110%									0.6	0.6	101%	90% - 110%
Nd	57	60	105%	90% - 110%												
Ni	9	11	117%	90% - 110%									32	37	114%	90% - 110%
Pb	10	10	96%	90% - 110%					41	44	107%	90% - 110%				
Pr	15.0	14.7	98%	90% - 110%												
Sb					0.8	0.9	108%	90% - 110%					0.8	0.8	102%	90% - 110%
Sc	1.1	0.8	71%	90% - 110%									12	13	105%	90% - 110%
Sm	12.7	13.1	104%	90% - 110%									7.4	8.3	112%	90% - 110%
Sr	1191	1141	96%	90% - 110%									144	143	100%	90% - 110%
Tb	2.6	2.8	106%	90% - 110%									1.2	1.2	100%	90% - 110%
Th	1.4	1.1	81%	90% - 110%									18.4	18.7	102%	90% - 110%
Ti	0.172	0.171	99%	90% - 110%									0.527	0.503	95%	90% - 110%
Tm	2.3	2.2	97%	90% - 110%												
U	0.8	0.8	101%	90% - 110%									5.7	5.6	98%	90% - 110%
V	8	6	74%	90% - 110%									77	81	105%	90% - 110%
W					5	5	101%	90% - 110%					5	5	106%	90% - 110%
Y	119	125	105%	90% - 110%									40	39	97%	90% - 110%
Yb	14.8	14.7	100%	90% - 110%												
Zn	93	98	105%	90% - 110%									130	121	93%	90% - 110%
Zr	517	569	110%	90% - 110%									390	381	98%	90% - 110%
	CRM #5 (ref.SY-4)				CRM #6 (ref.Till-2)				CRM #7 (ref.GBM998-10)							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Li	37	35	94%	90% - 110%	47	50	107%	90% - 110%								
Ta	0.9	0.8	93%	90% - 110%												
Nb	13	14	106%	90% - 110%												
Cs	1.5	1.7	113%	90% - 110%												
Rb	55	57	103%	90% - 110%												
K	1.37	1.43	104%	90% - 110%	2.55	2.42	95%	90% - 110%								
Mg	0.325	0.328	101%	90% - 110%	1.1	1.1	98%	90% - 110%								
Fe	4.34	4.36	101%	90% - 110%	3.77	3.7	98%	90% - 110%								
Al	10.95	10.73	98%	90% - 110%	8.47	7.75	92%	90% - 110%								



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Si	23.3	23.9	102%	90% - 110%	28.4	27.8	98%	90% - 110%								
Mn	836	829	99%	90% - 110%	780	738	95%	90% - 110%								
Ba	340	343	101%	90% - 110%	540	509	94%	90% - 110%								
Ca	5.72	5.56	97%	90% - 110%	0.907	0.849	94%	90% - 110%								
Ce	122	122	100%	90% - 110%												
Co	2.8	2.9	104%	90% - 110%												
Cu					150	147	98%	90% - 110%	15414	14015	91%	90% - 110%				
Dy	18.2	18.2	100%	90% - 110%												
Er	14.2	14.3	101%	90% - 110%												
Eu	2.0	2.1	106%	90% - 110%												
Ga	35	37	105%	90% - 110%												
Gd	14	14	100%	90% - 110%												
Hf	10.6	11.9	113%	90% - 110%												
Ho	4.3	4.3	100%	90% - 110%												
La	58	57	99%	90% - 110%												
Lu	2.1	2.3	111%	90% - 110%												
Nd	57	57	100%	90% - 110%												
Ni	9	10	107%	90% - 110%	32	37	115%	90% - 110%	23610	21400	91%	90% - 110%				
Pb	10	10	96%	90% - 110%												
Pr	15.0	15	100%	90% - 110%												
Sc					12	12	101%	90% - 110%								
Sm	12.7	12.7	100%	90% - 110%												
Sr	1191	1203	101%	90% - 110%	144	140	97%	90% - 110%								
Tb	2.6	2.6	101%	90% - 110%												
Th	1.4	1.2	87%	90% - 110%												
Ti	0.172	0.168	97%	90% - 110%	0.527	0.486	92%	90% - 110%								
Tm	2.3	2.3	100%	90% - 110%												
U	0.8	0.9	111%	90% - 110%												
V	8	7	91%	90% - 110%	77	78	101%	90% - 110%								
Y	119	129	108%	90% - 110%												
Yb	14.8	15.8	107%	90% - 110%												
Zn	93	93	100%	90% - 110%	130	119	91%	90% - 110%	90	85	94%	90% - 110%				
Zr	517	568	109%	90% - 110%												

Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B378793

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B378793

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Brad Boyle

PROJECT:

AGAT WORK ORDER: 18B383094

SOLID ANALYSIS REVIEWED BY: Adel Mina, Mining Chief Chemist

DATE REPORTED: Oct 04, 2018

PAGES (INCLUDING COVER): 59

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564029 (9532646)		1.79
E5564030 (9532647)		2.03
E5564031 (9532648)		0.01
E5564032 (9532649)		0.45
E5564033 (9532650)		1.72
E5564034 (9532651)		1.23
E5564035 (9532652)		1.36
E5564036 (9532653)		0.01
E5564037 (9532654)		0.69
E5564038 (9532655)		1.82
E5564039 (9532656)		0.85
E5564040 (9532657)		0.85
E5564041 (9532658)		1.76
E5564042 (9532659)		1.85
E5564043 (9532660)		0.49
E5564044 (9532661)		1.93
E5564045 (9532662)		2.08
E5564046 (9532663)		2.02
E5564047 (9532664)		1.79
E5564048 (9532665)		0.60
E5564049 (9532666)		1.86
E5564050 (9532667)		1.88
E5564051 (9532668)		0.01
E5564052 (9532669)		2.91
E5564053 (9532670)		3.00
E5564054 (9532671)		2.74
E5564055 (9532672)		3.01
E5564056 (9532673)		2.86
E5564057 (9532674)		2.93
E5564058 (9532675)		2.08
E5564059 (9532676)		0.01

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564060 (9532677)		0.68
E5564061 (9532678)		1.29
E5564062 (9532679)		0.64
E5564063 (9532680)		0.91
E5564064 (9532681)		0.97
E5564065 (9532682)		0.95
E5564066 (9532683)		1.00
E5564067 (9532684)		1.03
E5564068 (9532685)		2.04
E5564069 (9532686)		1.68
E5564070 (9532687)		1.68
E5564071 (9532688)		0.01
E5564072 (9532689)		1.71
E5564073 (9532690)		1.61
E5564074 (9532691)		1.66
E5564075 (9532692)		1.74
E5564076 (9532693)		0.01
E5564077 (9532694)		1.75
E5564078 (9532695)		1.73
E5564079 (9532696)		0.90
E5564080 (9532697)		0.75
E5564081 (9532698)		1.81
E5564082 (9532699)		1.74
E5564083 (9532700)		1.82
E5564084 (9532701)		1.78
E5564085 (9532702)		1.80
E5564086 (9532703)		1.60
E5564087 (9532704)		1.29
E5564088 (9532705)		0.98
E5564089 (9532706)		1.13
E5564090 (9532707)		1.77

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564091 (9532708)		0.01
E5564092 (9532709)		2.62
E5564093 (9532710)		2.72
E5564094 (9532711)		2.84
E5564095 (9532712)		2.77
E5564096 (9532713)		2.71
E5564097 (9532714)		2.74
E5564098 (9532715)		2.04
E5564099 (9532716)		0.02
E5564100 (9532717)		1.94
E5564101 (9532718)		2.42
E5564102 (9532719)		1.54
E5564103 (9532720)		1.51
E5564104 (9532721)		2.66
E5564105 (9532722)		1.90
E5564106 (9532723)		1.47
E5564107 (9532724)		0.37
E5564108 (9532725)		2.77
E5564109 (9532726)		2.80
E5564110 (9532727)		1.88
E5564111 (9532728)		0.01
E5564112 (9532729)		1.83
E5564113 (9532730)		1.63
E5564114 (9532731)		0.93
E5564115 (9532732)		1.66
E5564116 (9532733)		0.01
E5564117 (9532734)		2.22
E5564118 (9532735)		1.85
E5564119 (9532736)		0.68
E5564120 (9532737)		0.67
E5564121 (9532738)		1.49

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564122 (9532739)		1.41
E5564123 (9532740)		1.57
E5564124 (9532741)		1.21
E5564125 (9532742)		1.92
E5564126 (9532743)		1.74
E5564127 (9532744)		2.56
E5564128 (9532745)		2.61
E5564129 (9532746)		2.59
E5564130 (9532747)		2.76
E5564131 (9532748)		0.01
E5564132 (9532749)		2.71
E5564133 (9532750)		2.73
E5564134 (9532751)		1.54
E5564135 (9532752)		1.57
E5564136 (9532753)		1.36
E5564137 (9532754)		0.81
E5564138 (9532755)		1.06
E5564139 (9532756)		0.01
E5564140 (9532757)		0.95
E5564141 (9532758)		1.02
E5564142 (9532759)		1.82
E5564143 (9532760)		1.79
E5564144 (9532761)		1.50
E5564145 (9532762)		1.60
E5564146 (9532763)		0.61
E5564147 (9532764)		1.10
E5564148 (9532765)		1.46
E5564149 (9532766)		1.61
E5564150 (9532767)		1.65
E5564151 (9532768)		0.01
E5564152 (9532769)		1.66

Certified By:



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AGAT WORK ORDER: 18B383094

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564153 (9532770)		1.43
E5564154 (9532771)		1.27
E5564155 (9532772)		1.23
E5564156 (9532773)		0.01
E5564157 (9532774)		1.40
E5564158 (9532775)		1.14
E5564159 (9532776)		1.32
E5564160 (9532777)		1.11
E5564161 (9532778)		0.80
E5564162 (9532779)		0.90
E5564163 (9532780)		1.82
E5564164 (9532781)		1.82
E5564165 (9532782)		1.79
E5564166 (9532783)		2.01
E5564167 (9532784)		1.65
E5564168 (9532785)		1.89
E5564169 (9532786)		1.81
E5564170 (9532787)		1.78
E5564171 (9532788)		0.01
E5564172 (9532789)		1.79
E5564173 (9532790)		1.71
E5564174 (9532791)		1.74
E5564175 (9532792)		1.92
E5564176 (9532793)		1.95
E5564177 (9532794)		1.78
E5564178 (9532795)		1.73
E5564179 (9532796)		0.01
E5564180 (9532797)		1.82
E5564181 (9532798)		1.12
E5564182 (9532799)		1.45
E5564183 (9532800)		0.98

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AGAT WORK ORDER: 18B383094

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5564184 (9532801)		0.95
E5564185 (9532802)		2.77
E5564186 (9532803)		2.87
E5564187 (9532804)		2.98
E5564188 (9532805)		2.82
E5564189 (9532806)		3.04
E5564190 (9532807)		2.97
E5564191 (9532808)		0.01
E5564192 (9532809)		2.73

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564029 (9532646)		2.98
E5564030 (9532647)		3.02
E5564031 (9532648)		2.64
E5564032 (9532649)		2.69
E5564033 (9532650)		3.03
E5564034 (9532651)		2.70
E5564035 (9532652)		2.75
E5564036 (9532653)		2.94
E5564037 (9532654)		2.71
E5564038 (9532655)		2.93
E5564039 (9532656)		3.04
E5564040 (9532657)		2.98
E5564041 (9532658)		2.92
E5564042 (9532659)		3.02
E5564043 (9532660)		2.69
E5564044 (9532661)		3.17
E5564045 (9532662)		3.08
E5564046 (9532663)		3.10
E5564047 (9532664)		2.99
E5564048 (9532665)		2.65
E5564049 (9532666)		2.99
E5564050 (9532667)		3.03
E5564051 (9532668)		2.65
E5564052 (9532669)		3.11
E5564053 (9532670)		3.08
E5564054 (9532671)		3.12
E5564055 (9532672)		3.03
E5564056 (9532673)		3.05
E5564057 (9532674)		3.04
E5564058 (9532675)		3.03
E5564059 (9532676)		2.77
E5564060 (9532677)		2.69

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564061 (9532678)		2.77
E5564062 (9532679)		2.64
E5564063 (9532680)		2.82
E5564064 (9532681)		3.07
E5564065 (9532682)		2.63
E5564066 (9532683)		2.86
E5564067 (9532684)		2.84
E5564068 (9532685)		2.91
E5564069 (9532686)		2.66
E5564070 (9532687)		2.69
E5564071 (9532688)		2.67
E5564072 (9532689)		2.67
E5564073 (9532690)		2.62
E5564074 (9532691)		2.75
E5564075 (9532692)		2.74
E5564076 (9532693)		2.87
E5564077 (9532694)		2.77
E5564078 (9532695)		2.82
E5564079 (9532696)		2.81
E5564080 (9532697)		2.76
E5564081 (9532698)		2.96
E5564082 (9532699)		2.94
E5564083 (9532700)		3.02
E5564084 (9532701)		2.74
E5564085 (9532702)		2.84
E5564086 (9532703)		2.94
E5564087 (9532704)		2.81
E5564088 (9532705)		2.70
E5564089 (9532706)		2.71
E5564090 (9532707)		2.72
E5564091 (9532708)		2.64
E5564092 (9532709)		3.00

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564093 (9532710)		3.06
E5564094 (9532711)		3.06
E5564095 (9532712)		3.02
E5564096 (9532713)		3.10
E5564097 (9532714)		3.24
E5564098 (9532715)		3.09
E5564099 (9532716)		2.80
E5564100 (9532717)		2.97
E5564101 (9532718)		2.92
E5564102 (9532719)		2.60
E5564103 (9532720)		3.14
E5564104 (9532721)		3.09
E5564105 (9532722)		2.24
E5564106 (9532723)		3.17
E5564107 (9532724)		2.71
E5564108 (9532725)		2.97
E5564109 (9532726)		2.98
E5564110 (9532727)		3.01
E5564111 (9532728)		2.66
E5564112 (9532729)		2.98
E5564113 (9532730)		2.68
E5564114 (9532731)		2.84
E5564115 (9532732)		3.03
E5564116 (9532733)		2.99
E5564117 (9532734)		2.93
E5564118 (9532735)		2.80
E5564119 (9532736)		2.74
E5564120 (9532737)		2.73
E5564121 (9532738)		2.75
E5564122 (9532739)		2.65
E5564123 (9532740)		2.72
E5564124 (9532741)		2.72

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564125 (9532742)		3.00
E5564126 (9532743)		2.90
E5564127 (9532744)		2.91
E5564128 (9532745)		2.83
E5564129 (9532746)		2.93
E5564130 (9532747)		2.88
E5564131 (9532748)		2.65
E5564132 (9532749)		2.86
E5564133 (9532750)		2.94
E5564134 (9532751)		2.84
E5564135 (9532752)		2.71
E5564136 (9532753)		2.69
E5564137 (9532754)		2.67
E5564138 (9532755)		2.75
E5564139 (9532756)		2.77
E5564140 (9532757)		2.81
E5564141 (9532758)		2.92
E5564142 (9532759)		2.89
E5564143 (9532760)		3.05
E5564144 (9532761)		2.77
E5564145 (9532762)		2.76
E5564146 (9532763)		2.65
E5564147 (9532764)		2.78
E5564148 (9532765)		2.92
E5564149 (9532766)		2.89
E5564150 (9532767)		2.68
E5564151 (9532768)		2.63
E5564152 (9532769)		3.10
E5564153 (9532770)		2.91
E5564154 (9532771)		2.99
E5564155 (9532772)		2.95
E5564156 (9532773)		2.92

Certified By:



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AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564157 (9532774)		2.67
E5564158 (9532775)		2.72
E5564159 (9532776)		2.82
E5564160 (9532777)		2.68
E5564161 (9532778)		2.86
E5564162 (9532779)		2.78
E5564163 (9532780)		2.96
E5564164 (9532781)		2.91
E5564165 (9532782)		2.85
E5564166 (9532783)		2.79
E5564167 (9532784)		2.69
E5564168 (9532785)		2.82
E5564169 (9532786)		2.72
E5564170 (9532787)		2.70
E5564171 (9532788)		2.60
E5564172 (9532789)		2.70
E5564173 (9532790)		2.75
E5564174 (9532791)		2.76
E5564175 (9532792)		2.86
E5564176 (9532793)		2.88
E5564177 (9532794)		2.76
E5564178 (9532795)		2.70
E5564179 (9532796)		2.77
E5564180 (9532797)		2.74
E5564181 (9532798)		2.60
E5564182 (9532799)		2.74
E5564183 (9532800)		2.71
E5564184 (9532801)		2.59
E5564185 (9532802)		3.13
E5564186 (9532803)		3.05
E5564187 (9532804)		3.12
E5564188 (9532805)		3.18

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 08, 2018

DATE RECEIVED: Sep 08, 2018

DATE REPORTED: Oct 04, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Specific Gravity
	Unit:	g/cm3
	RDL:	0.01
E5564189 (9532806)		3.14
E5564190 (9532807)		3.01
E5564191 (9532808)		2.62
E5564192 (9532809)		2.95

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564029 (9532646)	223	0.048	<0.5	2	<1	15.4	21.5	0.25	2.22	7.57	0.04	8.47	24.3	<5	
E5564030 (9532647)	511	0.110	5.9	4	<1	134	310	0.49	2.34	6.87	0.08	8.70	21.5	16	
E5564031 (9532648)	16	0.003	<0.5	<1	<1	0.2	0.6	<0.05	<0.01	0.31	<0.01	0.13	42.6	<5	
E5564032 (9532649)	31	0.007	295	81	<1	11.4	78.5	0.10	0.04	0.25	0.14	7.90	30.6	118	
E5564033 (9532650)	998	0.215	2.3	3	<1	312	709	0.72	2.71	6.71	0.04	8.17	22.2	12	
E5564034 (9532651)	539	0.116	87.7	59	14	560	5620	3.99	0.02	0.26	0.10	8.70	28.8	61	
E5564035 (9532652)	5060	1.09	466	50	16	687	2910	1.56	0.04	0.32	0.05	5.50	35.5	219	
E5564036 (9532653)	10100	2.17	30.5	6048	3040	319	806	1.38	0.52	3.79	0.10	7.27	28.8	27	
E5564037 (9532654)	123	0.027	319	102	8	68.9	320	0.27	<0.01	0.18	0.10	8.61	34.1	185	
E5564038 (9532655)	1090	0.235	3.9	7	1	310	520	0.53	2.33	5.73	0.04	8.59	24.8	9	
E5564039 (9532656)	423	0.091	<0.5	3	<1	44.1	49.9	0.17	2.62	6.44	0.03	8.11	23.5	<5	
E5564040 (9532657)	488	0.105	<0.5	3	<1	58.6	63.1	0.19	2.53	6.72	0.04	8.65	23.6	<5	
E5564041 (9532658)	365	0.079	<0.5	2	<1	29.9	39.1	0.26	2.62	6.71	0.03	8.70	23.5	<5	
E5564042 (9532659)	292	0.063	17.4	5	7	83.8	240	0.39	1.92	7.48	0.04	8.10	22.6	16	
E5564043 (9532660)	76	0.016	243	68	3	21.9	333	0.31	0.09	0.64	0.17	8.52	34.0	142	
E5564044 (9532661)	353	0.076	1.5	2	<1	58.1	97.3	0.43	2.17	9.56	0.02	7.44	20.9	<5	
E5564045 (9532662)	269	0.058	0.9	2	<1	41.2	109	0.43	1.96	8.22	0.05	8.52	24.1	8	
E5564046 (9532663)	257	0.055	<0.5	2	<1	35.7	39.4	0.37	2.29	8.29	0.03	8.89	24.5	<5	
E5564047 (9532664)	331	0.071	<0.5	2	<1	174	110	0.46	2.19	7.84	0.03	9.25	26.4	<5	
E5564048 (9532665)	132	0.028	99.7	79	20	63.2	1080	0.91	0.05	0.39	0.07	9.42	29.6	175	
E5564049 (9532666)	237	0.051	<0.5	2	<1	18.2	42.8	0.33	2.43	7.93	0.03	8.25	23.7	<5	
E5564050 (9532667)	256	0.055	<0.5	2	<1	31.6	37.2	0.34	2.25	7.31	0.03	8.87	23.6	<5	
E5564051 (9532668)	12	0.003	<0.5	<1	<1	0.2	0.7	<0.05	<0.01	0.36	<0.01	0.14	47.8	<5	
E5564052 (9532669)	329	0.071	<0.5	1	<1	1.7	2.8	0.07	5.37	8.41	0.03	7.71	22.7	<5	
E5564053 (9532670)	268	0.058	<0.5	2	<1	1.1	2.1	0.06	5.12	8.22	0.03	7.98	23.2	<5	
E5564054 (9532671)	382	0.082	<0.5	2	<1	1.3	2.9	0.08	5.10	8.28	0.03	8.06	23.0	<5	
E5564055 (9532672)	308	0.066	<0.5	2	<1	1.6	4.0	0.06	4.89	8.55	0.03	7.91	22.6	<5	
E5564056 (9532673)	340	0.073	<0.5	2	<1	1.7	10.0	0.08	4.69	8.29	0.03	8.09	22.8	<5	
E5564057 (9532674)	584	0.126	<0.5	2	<1	25.8	37.9	0.17	5.02	8.74	0.08	7.97	22.5	<5	
E5564058 (9532675)	1580	0.339	2.4	7	2	296	782	0.66	4.83	8.63	0.05	8.31	23.3	9	
E5564059 (9532676)	2590	0.557	18.3	1124	751	220	1180	1.82	0.60	3.22	0.18	5.13	36.4	33	
E5564060 (9532677)	526	0.113	115	79	27	83.3	1410	1.10	0.15	0.58	0.11	9.19	33.9	565	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564061 (9532678)	1350	0.290	59.5	60	48	405	6180	4.30	0.26	0.81	0.05	6.69	39.8	171	
E5564062 (9532679)	383	0.082	14.7	5	4	1120	15300	9.81	0.02	0.19	0.08	9.61	33.5	20	
E5564063 (9532680)	5870	1.26	39.9	11	26	658	4820	2.10	0.06	0.45	0.03	5.04	40.6	38	
E5564064 (9532681)	26300	5.67	129	20	36	259	1840	1.03	0.06	0.45	0.07	12.4	37.6	<5	
E5564065 (9532682)	586	0.126	13.8	2	2	866	11500	7.75	0.01	0.19	0.09	10.2	36.2	<5	
E5564066 (9532683)	17400	3.74	148	19	33	443	2560	1.09	0.06	0.48	0.06	8.91	41.6	10	
E5564067 (9532684)	11100	2.40	82.5	8	16	1970	1430	0.62	0.04	0.47	0.03	5.94	44.2	2180	
E5564068 (9532685)	16000	3.44	85.3	13	26	314	1690	0.68	0.02	0.49	0.06	7.74	42.0	34	
E5564069 (9532686)	278	0.060	20.4	2	<1	800	11000	7.19	<0.01	0.18	0.06	8.04	33.9	22	
E5564070 (9532687)	468	0.101	17.8	4	5	738	10100	7.20	<0.01	0.22	0.06	7.48	34.8	<5	
E5564071 (9532688)	11	0.002	<0.5	<1	<1	0.4	3.6	<0.05	<0.01	0.35	<0.01	0.13	48.8	<5	
E5564072 (9532689)	348	0.075	24.2	3	4	730	11500	8.77	<0.01	0.19	0.07	8.77	35.7	8	
E5564073 (9532690)	1750	0.377	57.6	7	5	847	10200	6.74	<0.01	0.24	0.06	7.84	37.0	<5	
E5564074 (9532691)	9220	1.98	23.0	3	11	713	5230	3.39	<0.01	0.37	0.04	7.41	38.9	136	
E5564075 (9532692)	11900	2.56	158	12	16	718	3460	1.84	0.01	0.40	0.03	6.94	39.9	207	
E5564076 (9532693)	10500	2.26	30.6	6027	3130	316	822	1.50	0.55	4.45	0.11	8.10	32.7	28	
E5564077 (9532694)	7850	1.69	29.8	14	36	650	6000	3.43	0.01	0.39	0.03	7.12	36.2	29	
E5564078 (9532695)	11700	2.51	53.5	16	31	408	2780	1.54	0.02	0.51	0.02	7.03	40.4	48	
E5564079 (9532696)	10200	2.20	60.2	10	24	486	4230	2.76	0.01	0.43	0.04	7.70	38.0	18	
E5564080 (9532697)	10900	2.36	45.3	9	23	519	4050	2.33	0.01	0.43	0.04	7.64	40.1	<5	
E5564081 (9532698)	15100	3.26	231	178	41	681	2750	1.28	0.03	0.70	0.20	10.3	37.0	595	
E5564082 (9532699)	21500	4.62	205	138	32	552	1820	0.80	0.02	0.78	0.13	11.7	35.6	16	
E5564083 (9532700)	16900	3.64	290	200	18	349	1270	0.55	0.01	0.64	0.15	11.3	35.5	175	
E5564084 (9532701)	7130	1.53	174	122	14	203	844	0.50	0.02	0.45	0.40	9.99	37.2	91	
E5564085 (9532702)	12600	2.71	112	80	19	466	1720	0.96	0.03	0.53	0.08	10.6	37.5	240	
E5564086 (9532703)	13500	2.91	107	57	22	852	1770	1.05	0.03	0.56	0.07	10.1	36.6	45	
E5564087 (9532704)	9090	1.96	139	102	7	500	1040	0.52	0.02	0.41	0.07	11.2	35.7	11	
E5564088 (9532705)	811	0.175	75.9	57	10	290	1040	0.67	0.04	0.29	0.06	10.6	37.3	465	
E5564089 (9532706)	347	0.075	47.0	20	5	116	556	0.41	<0.01	0.28	0.06	9.33	40.1	44	
E5564090 (9532707)	250	0.054	130	65	2	82.4	479	0.31	<0.01	0.28	0.10	9.99	38.8	21	
E5564091 (9532708)	15	0.003	<0.5	1	<1	0.6	1.4	<0.05	<0.01	0.39	<0.01	0.15	52.4	<5	
E5564092 (9532709)	725	0.156	<0.5	2	<1	125	234	0.40	2.94	9.75	0.03	9.69	27.4	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564093 (9532710)	370	0.080	<0.5	2	<1	9.8	23.1	0.19	2.84	9.39	0.03	10.2	28.5	<5	
E5564094 (9532711)	249	0.054	<0.5	2	6	4.4	10.4	0.16	3.01	9.34	0.03	9.14	25.8	<5	
E5564095 (9532712)	259	0.056	<0.5	2	5	4.7	11.2	0.27	2.79	10.9	0.03	8.85	23.7	<5	
E5564096 (9532713)	374	0.080	<0.5	2	3	24.6	27.7	0.37	3.19	11.1	0.03	9.89	25.8	<5	
E5564097 (9532714)	248	0.053	<0.5	2	1	38.2	35.8	0.41	3.89	11.1	0.03	9.08	25.2	<5	
E5564098 (9532715)	252	0.054	<0.5	2	<1	15.8	32.9	0.42	3.51	10.4	0.03	9.70	26.3	<5	
E5564099 (9532716)	2270	0.489	18.7	1130	787	223	1150	1.75	0.57	3.30	0.18	5.21	36.5	35	
E5564100 (9532717)	383	0.082	<0.5	7	5	12.2	88.4	0.47	2.20	10.3	0.06	9.13	22.8	<5	
E5564101 (9532718)	732	0.158	1.9	6	7	528	663	0.87	2.22	10.2	0.06	9.82	22.1	11	
E5564102 (9532719)	191	0.041	97.6	60	37	130	2070	1.82	0.04	0.47	0.09	8.89	32.9	79	
E5564103 (9532720)	767	0.165	<0.5	4	9	136	282	0.52	3.50	9.22	0.04	7.55	23.3	6	
E5564104 (9532721)	510	0.110	3.1	4	5	40.3	105	0.38	3.28	9.05	0.05	8.16	23.1	<5	
E5564105 (9532722)	156	0.034	<0.5	2	7	9.7	51.0	0.35	3.31	9.68	0.03	7.14	21.5	<5	
E5564106 (9532723)	205	0.044	<0.5	2	5	12.6	165	0.60	3.21	8.44	0.05	8.43	23.2	9	
E5564107 (9532724)	70	0.015	282	54	23	103	3160	2.71	0.14	0.40	0.14	9.02	33.5	137	
E5564108 (9532725)	271	0.058	<0.5	2	3	57.0	92.8	0.49	2.92	8.59	0.02	8.28	25.6	<5	
E5564109 (9532726)	259	0.056	<0.5	2	1	32.6	90.7	0.53	2.83	9.39	0.04	9.43	24.9	<5	
E5564110 (9532727)	330	0.071	<0.5	2	<1	43.2	45.2	0.40	2.19	9.79	0.03	8.12	24.2	<5	
E5564111 (9532728)	13	0.003	<0.5	<1	<1	0.6	0.9	<0.05	<0.01	0.36	<0.01	0.13	48.1	<5	
E5564112 (9532729)	500	0.108	<0.5	2	3	273	543	0.86	1.93	8.99	0.04	7.18	28.5	<5	
E5564113 (9532730)	55	0.012	18.7	12	8	118	2690	3.26	0.03	0.28	0.06	6.20	38.8	10	
E5564114 (9532731)	264	0.057	47.0	29	18	226	836	0.81	0.99	3.53	0.05	6.46	35.3	38	
E5564115 (9532732)	518	0.111	<0.5	3	<1	117	263	0.75	2.48	8.28	0.05	9.04	27.3	<5	
E5564116 (9532733)	11000	2.36	33.4	6230	3268	342	874	1.54	0.56	4.71	0.11	8.57	34.6	30	
E5564117 (9532734)	542	0.117	0.9	10	12	164	247	0.77	2.52	10.6	0.06	9.86	28.3	<5	
E5564118 (9532735)	535	0.115	<0.5	4	8	150	415	0.86	2.41	7.67	0.03	11.1	29.0	<5	
E5564119 (9532736)	1070	0.230	2.9	6	4	165	1100	2.22	2.67	6.36	0.04	8.48	25.8	27	
E5564120 (9532737)	937	0.202	2.9	6	12	159	1000	2.51	2.40	5.40	0.06	8.43	28.5	28	
E5564121 (9532738)	35	0.008	75.4	27	10	49.0	762	0.64	0.05	0.22	0.10	7.11	39.0	67	
E5564122 (9532739)	35	0.008	227	78	9	85.8	1580	1.47	0.02	0.19	0.08	5.72	43.5	64	
E5564123 (9532740)	22	0.005	88.2	21	7	38.4	586	0.46	<0.01	0.22	0.06	3.78	43.9	28	
E5564124 (9532741)	62	0.013	167	63	19	120	3170	2.81	0.02	0.21	0.11	9.38	37.2	202	

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564125 (9532742)	662	0.143	29.8	10	5	149	782	1.18	3.13	8.74	0.05	10.5	27.2	17	
E5564126 (9532743)	471	0.101	<0.5	2	5	176	430	0.98	3.02	7.63	0.04	10.9	27.3	<5	
E5564127 (9532744)	390	0.084	<0.5	2	4	46.0	66.9	0.55	2.43	7.65	0.03	9.72	30.5	<5	
E5564128 (9532745)	459	0.099	<0.5	2	7	65.3	58.8	0.63	2.41	6.31	0.03	10.3	29.5	<5	
E5564129 (9532746)	581	0.125	<0.5	2	8	102	103	0.85	2.44	7.70	0.02	10.6	27.6	<5	
E5564130 (9532747)	469	0.101	<0.5	2	3	40.9	52.0	0.54	2.17	7.05	0.04	10.6	28.5	<5	
E5564131 (9532748)	17	0.004	<0.5	<1	5	0.3	0.7	<0.05	<0.01	0.38	<0.01	0.14	49.8	<5	
E5564132 (9532749)	278	0.060	<0.5	2	6	7.9	14.6	0.28	1.84	5.81	0.03	10.2	29.2	<5	
E5564133 (9532750)	910	0.196	<0.5	2	5	54.0	67.6	0.62	2.46	8.18	0.03	10.0	27.4	<5	
E5564134 (9532751)	1070	0.231	<0.5	2	5	296	639	1.14	2.56	7.37	0.03	10.2	27.0	5	
E5564135 (9532752)	7100	1.53	179	71	21	221	1360	0.80	0.05	0.36	0.08	8.56	37.1	49	
E5564136 (9532753)	4490	0.966	107	34	13	481	5010	3.35	0.03	0.22	0.09	8.30	36.9	7	
E5564137 (9532754)	2180	0.469	91.5	33	18	181	996	0.62	0.03	0.26	0.08	7.81	38.1	150	
E5564138 (9532755)	2800	0.602	76.9	85	72	418	3700	2.27	0.17	0.82	0.70	6.05	38.3	57	
E5564139 (9532756)	2510	0.539	17.9	1125	734	214	1210	1.80	0.62	3.50	0.19	5.52	39.2	34	
E5564140 (9532757)	7390	1.59	148	175	107	887	5470	3.53	0.45	1.12	0.92	10.7	32.5	364	
E5564141 (9532758)	24300	5.24	30.0	15	37	792	1720	0.76	0.11	0.55	0.04	11.3	36.3	18	
E5564142 (9532759)	16500	3.55	196	17	31	1570	4260	1.40	0.09	0.45	0.05	9.25	38.1	1240	
E5564143 (9532760)	26100	5.62	87.5	20	41	449	1340	0.62	0.09	0.52	0.08	11.5	35.9	<5	
E5564144 (9532761)	11600	2.50	339	78	26	951	3240	1.15	0.08	0.40	0.07	8.51	38.3	500	
E5564145 (9532762)	1990	0.428	655	172	43	697	3650	1.70	0.25	0.49	0.56	7.42	34.2	347	
E5564146 (9532763)	210	0.045	265	74	10	82.2	348	0.40	0.04	0.19	0.16	8.65	36.4	69	
E5564147 (9532764)	9710	2.09	95.1	53	17	299	858	0.79	0.20	0.49	0.06	9.60	38.2	74	
E5564148 (9532765)	19400	4.18	71.0	58	19	410	872	0.84	0.29	0.61	0.03	11.3	36.1	301	
E5564149 (9532766)	19900	4.28	106	47	25	535	1050	0.74	0.14	0.68	0.15	12.3	36.6	58	
E5564150 (9532767)	5670	1.22	114	41	19	652	1910	1.21	0.15	0.38	0.05	10.9	36.3	44	
E5564151 (9532768)	15	0.003	<0.5	<1	4	0.6	1.5	<0.05	<0.01	0.37	<0.01	0.14	51.8	<5	
E5564152 (9532769)	25200	5.43	38.9	16	29	527	1390	0.93	0.34	1.05	0.09	12.4	33.5	16	
E5564153 (9532770)	21500	4.62	124	52	30	632	1690	0.71	0.09	0.78	0.08	11.5	36.4	63	
E5564154 (9532771)	25000	5.39	73.2	36	21	585	1670	0.63	0.08	0.85	0.04	12.1	35.2	14	
E5564155 (9532772)	22600	4.86	139	35	22	597	2030	0.81	0.08	0.83	0.05	12.5	35.2	41	
E5564156 (9532773)	10800	2.32	31.2	6038	3180	328	843	1.52	0.59	4.57	0.12	8.17	33.4	29	

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564157 (9532774)	1190	0.256	271	103	29	227	1710	0.85	0.04	0.24	0.15	8.98	36.2	69	
E5564158 (9532775)	1890	0.408	171	74	34	610	3570	1.63	0.04	0.34	0.08	9.88	35.9	121	
E5564159 (9532776)	10000	2.16	258	66	28	627	2140	1.11	0.07	0.46	0.10	10.5	35.4	584	
E5564160 (9532777)	4250	0.914	232	180	13	199	1040	0.61	0.05	0.29	0.17	9.58	33.7	12	
E5564161 (9532778)	12700	2.74	200	120	17	257	882	0.43	0.03	0.43	0.07	9.59	36.3	141	
E5564162 (9532779)	11900	2.55	138	102	17	296	1050	0.51	0.04	0.39	0.06	8.99	36.6	147	
E5564163 (9532780)	19300	4.16	261	54	28	1270	3010	1.11	0.05	0.56	0.14	11.6	33.1	306	
E5564164 (9532781)	20200	4.34	250	109	19	607	1490	0.55	0.04	0.68	0.05	11.5	34.5	36	
E5564165 (9532782)	14200	3.06	172	37	17	589	1750	0.67	0.03	0.45	0.07	10.3	34.9	152	
E5564166 (9532783)	10600	2.29	219	110	16	672	2070	0.80	0.03	0.40	0.06	10.9	34.8	219	
E5564167 (9532784)	4170	0.897	308	243	9	190	723	0.38	0.02	0.22	0.08	9.91	34.6	27	
E5564168 (9532785)	11300	2.42	199	71	34	924	3730	1.44	0.06	0.47	0.06	10.7	34.5	90	
E5564169 (9532786)	10400	2.25	170	97	22	607	2170	0.97	0.06	0.50	0.12	9.90	37.6	266	
E5564170 (9532787)	2570	0.554	71.3	24	9	304	1130	0.63	0.05	0.26	0.10	9.22	40.6	65	
E5564171 (9532788)	16	0.004	<0.5	1	2	1.1	1.7	<0.05	<0.01	0.39	<0.01	0.14	53.2	<5	
E5564172 (9532789)	6370	1.37	111	26	14	477	1880	0.86	0.06	0.29	0.05	10.4	38.5	11	
E5564173 (9532790)	4750	1.02	122	53	26	804	2320	1.15	0.04	0.37	0.13	8.42	40.1	99	
E5564174 (9532791)	10700	2.29	202	60	23	677	1940	0.88	0.04	0.37	0.07	8.62	40.5	168	
E5564175 (9532792)	19400	4.17	59.3	19	16	274	569	0.28	0.03	0.52	0.03	9.65	39.1	41	
E5564176 (9532793)	16200	3.48	178	79	16	292	419	0.22	0.02	0.43	0.03	9.29	36.0	47	
E5564177 (9532794)	4600	0.991	126	62	13	241	733	0.42	0.02	0.26	0.12	7.97	38.6	315	
E5564178 (9532795)	4730	1.02	63.7	43	10	184	635	0.41	0.03	0.26	0.04	8.19	37.0	228	
E5564179 (9532796)	2410	0.519	18.6	1130	774	222	1230	1.74	0.62	3.54	0.19	5.23	38.6	35	
E5564180 (9532797)	2910	0.627	77.0	58	12	78.9	572	0.43	0.02	0.25	0.06	8.41	36.4	68	
E5564181 (9532798)	897	0.193	61.8	42	16	133	1720	1.71	0.05	0.28	0.03	8.10	37.2	203	
E5564182 (9532799)	1730	0.373	233	64	18	150	1890	1.93	0.05	0.29	0.12	9.92	36.4	137	
E5564183 (9532800)	242	0.052	143	44	17	53.9	684	0.65	0.02	0.21	0.07	10.1	38.2	161	
E5564184 (9532801)	143	0.031	207	60	10	36.3	278	0.34	0.12	0.51	0.07	9.35	37.3	94	
E5564185 (9532802)	896	0.193	0.5	2	7	225	383	0.73	3.45	11.0	0.04	9.48	24.5	7	
E5564186 (9532803)	1140	0.245	<0.5	2	6	81.1	98.8	0.44	3.00	9.09	0.03	8.97	27.7	<5	
E5564187 (9532804)	500	0.108	1.6	2	7	113	159	0.42	3.37	10.1	0.07	9.84	26.8	<5	
E5564188 (9532805)	312	0.067	<0.5	2	3	7.0	26.7	0.33	3.36	11.2	0.03	9.01	24.5	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564189 (9532806)	334	0.072	<0.5	2	3	10.3	51.3	0.34	3.15	10.0	0.04	9.85	25.3	<5	
E5564190 (9532807)	279	0.060	<0.5	2	5	5.8	19.9	0.26	3.32	9.13	0.04	10.1	26.3	<5	
E5564191 (9532808)	18	0.004	<0.5	<1	5	0.2	0.5	<0.05	<0.01	0.38	<0.01	0.13	49.8	<5	
E5564192 (9532809)	295	0.063	<0.5	2	5	8.3	23.3	0.24	3.27	8.53	0.04	9.65	27.2	<5	

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CLIENT NAME: ARDIDEN LTD

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564029 (9532646)	<20	1850	2	0.3	6	<1	146	9.18	<0.2	11.3	56.8	0.038	173	3.20	
E5564030 (9532647)	<20	1690	<2	2.6	<5	<1	285	7.40	0.2	14.5	55.7	0.037	138	3.45	
E5564031 (9532648)	<20	27	<2	<0.1	<5	<1	3.8	<0.05	<0.2	2.2	<0.5	<0.005	<5	0.16	
E5564032 (9532649)	<20	308	4	1.7	<5	<1	8.5	0.64	<0.2	0.6	1.4	0.009	9	0.07	
E5564033 (9532650)	<20	1570	2	1.9	<5	<1	93.0	7.16	<0.2	7.1	54.1	0.034	116	3.09	
E5564034 (9532651)	<20	358	4	0.8	<5	<1	24.2	0.32	<0.2	0.2	0.7	0.008	<5	<0.05	
E5564035 (9532652)	22	460	11	0.5	<5	<1	11.8	0.16	<0.2	0.1	1.1	0.017	<5	<0.05	
E5564036 (9532653)	32	406	11	46.7	141	<1	2945	1.00	1.4	435	8.2	0.010	313	4.68	
E5564037 (9532654)	<20	312	7	1.4	<5	<1	2.5	0.26	0.2	0.6	<0.5	0.012	<5	<0.05	
E5564038 (9532655)	<20	1340	3	1.1	<5	<1	59.3	6.88	<0.2	6.9	59.8	0.036	101	2.99	
E5564039 (9532656)	<20	1480	2	0.7	<5	<1	50.0	7.48	0.2	7.2	53.5	0.037	94	3.09	
E5564040 (9532657)	<20	1460	2	0.7	<5	<1	47.7	7.86	<0.2	7.3	53.3	0.035	98	3.21	
E5564041 (9532658)	<20	1640	<2	2.8	<5	<1	116	6.99	<0.2	8.6	58.3	0.040	145	3.18	
E5564042 (9532659)	<20	1840	2	0.9	<5	<1	85.2	7.40	<0.2	7.2	57.2	0.034	196	3.31	
E5564043 (9532660)	<20	648	4	1.9	<5	<1	11.1	0.77	<0.2	0.3	2.3	0.009	23	0.13	
E5564044 (9532661)	<20	2540	2	1.3	<5	<1	87.7	8.34	0.2	7.6	55.1	0.033	176	3.50	
E5564045 (9532662)	<20	1970	3	0.7	<5	<1	118	7.38	<0.2	7.5	55.6	0.037	187	3.07	
E5564046 (9532663)	<20	1820	<2	0.2	6	<1	106	8.27	0.2	7.7	59.4	0.037	174	3.35	
E5564047 (9532664)	<20	1780	2	0.3	<5	<1	102	7.29	<0.2	7.5	58.1	0.040	102	3.20	
E5564048 (9532665)	<20	457	3	9.5	<5	<1	28.1	0.62	<0.2	0.3	1.1	<0.005	11	<0.05	
E5564049 (9532666)	<20	2140	3	0.7	<5	<1	77.0	8.20	<0.2	8.8	54.2	0.039	107	3.61	
E5564050 (9532667)	<20	1720	<2	0.3	<5	<1	111	7.47	0.2	9.3	63.5	0.039	168	3.80	
E5564051 (9532668)	<20	27	<2	<0.1	<5	<1	2.9	<0.05	<0.2	2.2	0.5	<0.005	<5	0.17	
E5564052 (9532669)	<20	1380	<2	<0.1	<5	<1	26.9	7.86	<0.2	6.4	52.9	0.028	150	2.86	
E5564053 (9532670)	<20	1400	<2	<0.1	<5	<1	24.0	8.56	<0.2	6.3	53.9	0.029	158	2.92	
E5564054 (9532671)	<20	1350	<2	<0.1	<5	<1	25.1	8.41	0.2	6.5	54.3	0.028	142	2.84	
E5564055 (9532672)	<20	1500	<2	<0.1	<5	<1	25.0	8.72	<0.2	6.4	56.0	0.027	142	2.98	
E5564056 (9532673)	<20	1400	<2	<0.1	<5	<1	27.5	8.95	<0.2	6.8	56.8	0.021	146	3.05	
E5564057 (9532674)	<20	1520	<2	0.1	<5	<1	54.0	8.76	<0.2	7.0	57.4	0.024	131	3.20	
E5564058 (9532675)	<20	1470	<2	0.9	<5	<1	85.8	7.88	<0.2	7.1	52.1	0.023	138	3.07	
E5564059 (9532676)	30	374	8	12.0	35	1	2040	1.20	0.4	1340	7.0	0.008	296	9.00	
E5564060 (9532677)	25	500	3	1.2	<5	<1	6.8	1.16	<0.2	2.4	1.6	0.007	9	0.37	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564061 (9532678)	26	856	9	0.7	<5	<1	35.0	0.32	<0.2	0.5	2.3	0.014	<5	0.07	
E5564062 (9532679)	<20	167	5	1.2	8	<1	24.5	0.24	<0.2	0.2	0.5	0.009	<5	<0.05	
E5564063 (9532680)	22	892	15	33.4	<5	<1	4.7	0.16	<0.2	<0.1	0.9	0.028	<5	<0.05	
E5564064 (9532681)	20	1070	13	6.5	7	<1	4.0	0.19	<0.2	0.1	0.6	0.020	<5	<0.05	
E5564065 (9532682)	<20	135	6	2.0	<5	<1	12.7	0.16	<0.2	<0.1	<0.5	0.013	<5	<0.05	
E5564066 (9532683)	24	1060	16	7.9	<5	<1	6.5	0.18	<0.2	<0.1	0.7	0.025	<5	<0.05	
E5564067 (9532684)	<20	652	19	8.5	<5	<1	3.7	0.12	<0.2	<0.1	0.8	0.038	<5	<0.05	
E5564068 (9532685)	<20	1240	16	38.1	<5	<1	1.6	0.15	<0.2	<0.1	0.6	0.026	6	<0.05	
E5564069 (9532686)	<20	77	8	212	<5	<1	9.8	0.07	<0.2	<0.1	<0.5	0.015	<5	<0.05	
E5564070 (9532687)	<20	185	9	25.6	<5	<1	11.1	0.09	<0.2	<0.1	<0.5	0.012	<5	<0.05	
E5564071 (9532688)	<20	29	<2	1.0	<5	<1	3.7	<0.05	<0.2	2.4	<0.5	<0.005	<5	0.19	
E5564072 (9532689)	<20	146	8	6.8	<5	<1	13.0	0.09	<0.2	<0.1	<0.5	0.015	<5	<0.05	
E5564073 (9532690)	<20	250	9	10.5	<5	<1	9.4	0.07	<0.2	<0.1	<0.5	0.013	<5	<0.05	
E5564074 (9532691)	<20	455	15	73.6	<5	<1	6.2	0.07	<0.2	<0.1	0.7	0.026	<5	<0.05	
E5564075 (9532692)	<20	630	15	35.8	<5	<1	2.4	0.09	<0.2	<0.1	0.6	0.021	<5	<0.05	
E5564076 (9532693)	36	464	11	48.2	142	1	2910	1.12	1.2	443	8.2	0.011	332	4.71	
E5564077 (9532694)	<20	595	14	33.9	<5	<1	4.8	0.07	<0.2	0.4	0.7	0.024	<5	<0.05	
E5564078 (9532695)	<20	847	14	39.2	<5	<1	1.8	0.09	<0.2	<0.1	0.9	0.020	<5	<0.05	
E5564079 (9532696)	<20	648	15	172	<5	<1	5.0	0.08	0.2	<0.1	0.7	0.027	<5	<0.05	
E5564080 (9532697)	<20	687	12	113	<5	<1	4.4	0.11	<0.2	<0.1	0.5	0.021	<5	<0.05	
E5564081 (9532698)	<20	1670	12	3.3	12	<1	3.8	0.48	0.3	0.3	0.9	0.019	<5	<0.05	
E5564082 (9532699)	<20	1530	15	2.0	6	<1	1.9	0.30	0.2	0.2	0.8	0.029	<5	<0.05	
E5564083 (9532700)	<20	1330	13	2.5	<5	<1	1.8	0.37	0.3	0.2	0.6	0.018	<5	<0.05	
E5564084 (9532701)	<20	1570	10	7.4	<5	<1	1.5	0.93	0.6	1.5	0.6	0.020	<5	0.12	
E5564085 (9532702)	<20	1210	11	2.5	<5	<1	2.9	0.23	<0.2	<0.1	0.7	0.015	<5	<0.05	
E5564086 (9532703)	21	1220	12	1.0	<5	<1	180	0.81	<0.2	0.1	0.8	0.024	<5	<0.05	
E5564087 (9532704)	<20	686	8	0.8	<5	<1	4.0	0.29	<0.2	<0.1	<0.5	0.012	<5	<0.05	
E5564088 (9532705)	<20	469	6	1.0	<5	<1	13.2	0.28	<0.2	0.5	0.5	0.012	<5	<0.05	
E5564089 (9532706)	<20	262	7	0.8	<5	<1	1.3	0.30	<0.2	0.4	<0.5	0.011	<5	<0.05	
E5564090 (9532707)	<20	368	8	22.6	<5	<1	11.2	0.36	<0.2	0.8	0.5	0.016	<5	<0.05	
E5564091 (9532708)	<20	26	<2	0.6	<5	<1	2.8	<0.05	<0.2	2.0	<0.5	<0.005	<5	0.17	
E5564092 (9532709)	<20	2490	3	0.6	<5	<1	76.1	10.1	0.2	7.8	56.1	0.040	181	3.71	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564093 (9532710)	<20	2050	3	0.3	<5	<1	59.7	10.5	0.2	7.4	54.2	0.042	155	3.16	
E5564094 (9532711)	<20	2000	2	0.2	<5	<1	55.7	10.5	0.2	9.1	56.7	0.037	131	3.28	
E5564095 (9532712)	<20	2910	<2	0.2	<5	<1	96.7	8.87	<0.2	8.2	55.0	0.038	218	3.65	
E5564096 (9532713)	21	2820	<2	0.2	<5	<1	197	9.65	0.2	11.0	55.2	0.039	128	3.53	
E5564097 (9532714)	23	2570	<2	0.3	<5	<1	183	10.8	<0.2	6.9	52.7	0.037	124	3.06	
E5564098 (9532715)	<20	2480	<2	0.2	<5	<1	182	10.1	<0.2	8.3	56.5	0.040	84	3.45	
E5564099 (9532716)	34	384	8	11.9	41	<1	2010	1.14	0.5	1230	7.0	0.007	296	8.81	
E5564100 (9532717)	<20	2200	2	0.5	<5	<1	107	7.27	<0.2	13.6	49.8	0.024	23	4.79	
E5564101 (9532718)	33	2220	7	3.1	<5	<1	214	5.81	0.3	13.0	67.7	0.030	85	5.66	
E5564102 (9532719)	21	441	24	135	8	<1	9.9	0.53	<0.2	0.8	1.1	0.025	<5	<0.05	
E5564103 (9532720)	<20	1750	5	4.1	<5	<1	99.9	6.95	0.2	11.7	55.7	0.023	94	4.92	
E5564104 (9532721)	<20	1820	5	2.5	<5	<1	92.7	6.35	0.2	11.6	55.9	0.025	94	4.74	
E5564105 (9532722)	<20	2170	3	1.0	<5	<1	60.7	10.4	0.2	9.6	46.3	0.027	696	2.95	
E5564106 (9532723)	25	1730	4	0.8	<5	<1	113	9.03	<0.2	7.2	53.0	0.035	52	3.07	
E5564107 (9532724)	<20	371	9	7.9	<5	<1	18.0	0.61	<0.2	0.6	1.3	0.012	20	0.06	
E5564108 (9532725)	<20	1920	4	1.1	<5	<1	140	6.96	<0.2	6.9	48.6	0.037	180	3.45	
E5564109 (9532726)	20	2310	5	0.8	<5	<1	163	7.83	0.2	8.3	61.6	0.041	258	3.84	
E5564110 (9532727)	<20	2100	4	0.5	<5	<1	134	5.89	<0.2	8.0	63.2	0.038	97	3.40	
E5564111 (9532728)	<20	28	<2	0.1	<5	<1	3.5	<0.05	<0.2	2.5	0.5	<0.005	<5	0.22	
E5564112 (9532729)	<20	2080	8	6.2	<5	<1	136	4.50	<0.2	8.8	46.7	0.032	172	3.61	
E5564113 (9532730)	<20	93	16	9.6	<5	<1	26.1	0.28	<0.2	0.3	0.6	0.024	6	<0.05	
E5564114 (9532731)	<20	1030	20	4.7	<5	<1	57.0	2.36	<0.2	4.5	19.8	0.035	34	1.61	
E5564115 (9532732)	<20	1440	5	0.6	<5	<1	268	5.86	<0.2	12.0	53.1	0.028	111	4.65	
E5564116 (9532733)	38	489	12	51.5	154	<1	3090	1.09	1.4	461	8.4	0.011	351	5.08	
E5564117 (9532734)	<20	1660	6	5.3	<5	<1	277	5.75	<0.2	12.9	61.6	0.030	165	4.86	
E5564118 (9532735)	23	1810	4	0.5	<5	<1	148	5.96	0.2	9.6	56.8	0.046	162	3.36	
E5564119 (9532736)	35	1780	4	3.6	<5	<1	290	8.32	<0.2	6.2	40.3	0.036	131	1.91	
E5564120 (9532737)	36	1540	5	16.7	<5	<1	352	7.27	<0.2	4.6	36.7	0.038	99	1.47	
E5564121 (9532738)	<20	325	12	6.9	<5	<1	6.2	0.60	<0.2	0.6	0.8	0.017	11	0.20	
E5564122 (9532739)	<20	238	14	7.0	<5	<1	16.1	0.20	<0.2	0.8	0.6	0.021	<5	0.18	
E5564123 (9532740)	<20	167	19	6.6	<5	<1	4.5	0.20	<0.2	0.3	0.6	0.028	<5	<0.05	
E5564124 (9532741)	21	610	12	9.6	<5	<1	19.6	0.43	<0.2	0.6	0.7	0.017	16	0.06	

Certified By:



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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564125 (9532742)	30	2400	6	1.9	<5	<1	130	5.13	0.4	16.9	61.8	0.046	243	3.65	
E5564126 (9532743)	<20	1830	3	0.4	<5	<1	157	6.19	<0.2	8.4	69.8	0.047	135	3.40	
E5564127 (9532744)	<20	1790	6	0.4	<5	<1	119	5.91	0.3	9.3	61.8	0.048	230	3.35	
E5564128 (9532745)	<20	1640	4	0.1	<5	<1	92.7	5.57	<0.2	7.5	60.9	0.044	179	3.23	
E5564129 (9532746)	<20	1740	4	0.2	<5	<1	153	6.26	<0.2	9.6	59.6	0.046	174	3.40	
E5564130 (9532747)	<20	1600	3	0.2	<5	<1	105	6.15	<0.2	8.1	62.1	0.046	170	3.26	
E5564131 (9532748)	<20	30	<2	<0.1	<5	<1	3.7	<0.05	<0.2	2.1	<0.5	<0.005	<5	0.21	
E5564132 (9532749)	<20	1500	4	0.1	<5	<1	72.0	6.43	<0.2	8.8	56.5	0.046	139	3.14	
E5564133 (9532750)	21	1830	3	0.2	<5	<1	156	5.98	<0.2	7.9	56.9	0.046	170	3.46	
E5564134 (9532751)	28	1740	4	0.7	<5	<1	169	6.32	<0.2	9.8	53.5	0.044	99	3.43	
E5564135 (9532752)	<20	610	15	27.1	<5	<1	7.6	0.35	<0.2	0.5	0.8	0.023	<5	<0.05	
E5564136 (9532753)	<20	497	12	57.2	<5	<1	9.9	0.20	<0.2	<0.1	0.6	0.019	<5	<0.05	
E5564137 (9532754)	<20	449	15	3.3	<5	<1	3.1	0.22	<0.2	<0.1	0.6	0.022	<5	<0.05	
E5564138 (9532755)	178	2010	19	5.0	<5	<1	9.8	1.38	0.9	6.8	2.3	0.030	<5	1.07	
E5564139 (9532756)	33	414	8	11.9	31	1	2140	1.19	0.5	1360	6.7	0.008	305	8.47	
E5564140 (9532757)	32	2930	12	3.0	<5	<1	25.0	1.84	0.9	9.3	2.9	0.019	<5	1.32	
E5564141 (9532758)	21	978	20	2.2	<5	<1	9.8	0.14	<0.2	<0.1	0.8	0.030	<5	<0.05	
E5564142 (9532759)	31	1260	21	1.0	<5	<1	9.6	0.15	<0.2	<0.1	0.7	0.033	<5	<0.05	
E5564143 (9532760)	<20	1190	23	1.2	<5	<1	16.6	0.18	<0.2	<0.1	0.7	0.035	<5	<0.05	
E5564144 (9532761)	22	1020	23	0.5	<5	<1	8.5	0.19	0.2	<0.1	0.7	0.033	<5	<0.05	
E5564145 (9532762)	35	1670	15	0.7	<5	<1	15.6	1.75	0.6	4.7	1.1	0.023	<5	0.69	
E5564146 (9532763)	<20	241	12	1.4	<5	<1	11.8	0.55	<0.2	0.7	0.5	0.018	5	0.05	
E5564147 (9532764)	30	1220	16	0.7	<5	<1	9.6	0.24	<0.2	0.4	0.7	0.026	<5	<0.05	
E5564148 (9532765)	36	902	17	2.6	<5	<1	37.0	0.18	<0.2	0.1	0.7	0.026	<5	<0.05	
E5564149 (9532766)	25	1130	18	4.6	<5	<1	10.4	0.42	<0.2	1.0	1.6	0.026	<5	0.13	
E5564150 (9532767)	45	511	11	17.5	<5	<1	21.3	0.31	<0.2	0.2	1.3	0.018	<5	<0.05	
E5564151 (9532768)	<20	27	<2	0.5	<5	<1	3.7	0.05	<0.2	2.4	<0.5	<0.005	<5	0.17	
E5564152 (9532769)	37	1260	20	1.2	<5	<1	33.8	0.26	<0.2	0.8	1.0	0.031	<5	0.08	
E5564153 (9532770)	20	1030	20	154	<5	<1	7.6	0.21	<0.2	0.3	1.0	0.030	<5	<0.05	
E5564154 (9532771)	20	1240	20	9.0	<5	<1	8.3	0.15	<0.2	<0.1	0.8	0.030	<5	<0.05	
E5564155 (9532772)	20	1100	19	4.8	<5	<1	7.6	0.17	<0.2	0.4	1.0	0.028	<5	<0.05	
E5564156 (9532773)	43	469	11	46.5	141	<1	3090	1.08	1.2	435	8.0	0.011	348	4.75	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564157 (9532774)	<20	655	9	2.6	<5	<1	3.3	0.30	0.3	1.3	0.8	0.013	<5	0.17	
E5564158 (9532775)	24	841	12	1.0	<5	1	4.0	0.18	0.5	0.8	1.0	0.014	<5	0.13	
E5564159 (9532776)	21	908	15	0.9	<5	<1	7.9	0.22	<0.2	0.6	1.0	0.023	<5	<0.05	
E5564160 (9532777)	<20	716	12	0.8	<5	<1	20.3	0.36	0.3	2.5	0.8	0.019	<5	0.09	
E5564161 (9532778)	<20	843	22	1.5	<5	<1	3.6	0.17	0.2	0.3	1.0	0.031	<5	<0.05	
E5564162 (9532779)	<20	857	17	1.4	<5	<1	4.0	0.16	0.2	0.2	1.0	0.025	<5	<0.05	
E5564163 (9532780)	<20	1360	19	1.2	<5	<1	3.3	0.30	0.2	<0.1	1.4	0.028	<5	<0.05	
E5564164 (9532781)	<20	1000	22	0.4	<5	<1	4.2	0.15	<0.2	<0.1	1.0	0.033	<5	<0.05	
E5564165 (9532782)	<20	877	20	4.8	<5	<1	3.9	0.20	<0.2	0.1	0.9	0.028	<5	<0.05	
E5564166 (9532783)	<20	760	17	2.6	<5	<1	3.8	0.15	0.3	<0.1	0.7	0.025	<5	<0.05	
E5564167 (9532784)	<20	533	12	1.6	<5	<1	3.0	0.21	<0.2	<0.1	0.6	0.018	<5	<0.05	
E5564168 (9532785)	22	1210	17	3.2	<5	<1	2.5	0.16	<0.2	<0.1	1.0	0.025	<5	<0.05	
E5564169 (9532786)	<20	1910	18	1.1	6	<1	2.4	0.26	0.3	<0.1	1.4	0.029	<5	<0.05	
E5564170 (9532787)	<20	499	14	2.0	<5	<1	10.7	0.40	0.2	<0.1	0.6	0.023	<5	<0.05	
E5564171 (9532788)	<20	28	<2	0.1	<5	<1	5.2	<0.05	<0.2	1.9	<0.5	<0.005	<5	0.17	
E5564172 (9532789)	24	657	13	1.5	<5	<1	4.5	0.19	<0.2	<0.1	0.7	0.020	<5	<0.05	
E5564173 (9532790)	24	935	16	4.6	<5	<1	2.5	0.30	<0.2	<0.1	1.0	0.024	<5	<0.05	
E5564174 (9532791)	<20	931	15	4.1	<5	<1	2.3	0.19	<0.2	<0.1	0.8	0.024	<5	<0.05	
E5564175 (9532792)	<20	901	23	1.8	<5	<1	2.2	0.10	<0.2	<0.1	0.8	0.034	<5	<0.05	
E5564176 (9532793)	<20	792	23	4.9	<5	<1	4.7	0.09	<0.2	<0.1	0.8	0.034	<5	<0.05	
E5564177 (9532794)	<20	566	16	6.1	<5	<1	2.8	0.25	0.2	<0.1	0.6	0.024	<5	<0.05	
E5564178 (9532795)	22	442	14	8.1	<5	<1	2.6	0.12	<0.2	<0.1	0.7	0.020	<5	<0.05	
E5564179 (9532796)	32	396	8	12.4	33	2	2090	1.14	0.6	1290	7.5	0.008	304	8.91	
E5564180 (9532797)	<20	1230	13	9.3	<5	<1	3.1	0.20	<0.2	1.4	0.6	0.018	<5	<0.05	
E5564181 (9532798)	22	845	12	83.3	<5	<1	31.8	0.15	<0.2	0.5	1.2	0.017	<5	<0.05	
E5564182 (9532799)	27	590	11	27.3	<5	<1	19.8	0.45	<0.2	0.7	1.2	0.015	<5	0.07	
E5564183 (9532800)	20	375	10	5.5	<5	<1	2.2	0.28	<0.2	0.7	0.9	0.015	<5	<0.05	
E5564184 (9532801)	<20	616	11	3.7	<5	<1	10.3	0.88	<0.2	1.0	4.0	0.018	28	0.27	
E5564185 (9532802)	194	2470	5	2.1	<5	<1	89.0	8.22	0.2	7.6	59.5	0.042	132	3.39	
E5564186 (9532803)	26	1980	4	0.2	<5	<1	111	6.05	0.2	6.6	54.2	0.044	82	3.39	
E5564187 (9532804)	24	2230	3	0.7	<5	<1	71.6	7.13	0.3	7.1	57.8	0.042	173	3.29	
E5564188 (9532805)	22	2640	3	0.4	<5	<1	76.6	9.79	0.2	7.5	53.7	0.040	389	3.83	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
Sample ID (AGAT ID)	RDL:														
E5564189 (9532806)	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564190 (9532807)	30	2240	3	0.5	<5	<1	72.6	9.36	<0.2	7.3	58.5	0.041	115	3.37	
E5564191 (9532808)	<20	2040	2	0.2	<5	<1	77.6	8.21	<0.2	7.9	61.6	0.044	134	3.70	
E5564192 (9532809)	<20	27	<2	<0.1	<5	<1	3.6	<0.05	<0.2	2.2	<0.5	<0.005	<5	0.17	
E5564192 (9532809)	21	1960	2	0.2	<5	<1	77.3	6.90	0.2	7.0	56.7	0.041	136	3.12	

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018						SAMPLE TYPE: Drill Core		
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564029 (9532646)	2.03	0.83	16.7	2.80	1	1	0.68	<0.2	4.6	0.31	8.1	157	<5	1.66	
E5564030 (9532647)	2.05	0.94	19.9	3.04	2	1	0.73	<0.2	5.9	0.30	10.3	147	<5	2.14	
E5564031 (9532648)	0.12	<0.05	0.35	0.14	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	6	<5	0.25	
E5564032 (9532649)	<0.05	<0.05	42.8	0.14	8	3	<0.05	<0.2	0.3	<0.05	0.5	10	<5	0.10	
E5564033 (9532650)	1.99	0.69	18.5	2.52	2	1	0.68	<0.2	2.7	0.31	5.8	147	<5	1.09	
E5564034 (9532651)	<0.05	<0.05	49.0	<0.05	8	1	<0.05	<0.2	0.1	<0.05	<0.1	5	9	<0.05	
E5564035 (9532652)	<0.05	<0.05	31.5	<0.05	14	4	<0.05	<0.2	<0.1	<0.05	<0.1	27	<5	<0.05	
E5564036 (9532653)	1.80	4.40	47.8	11.6	7	5	0.74	9.2	260	0.21	152	32	37	47.6	
E5564037 (9532654)	<0.05	<0.05	39.0	<0.05	9	3	<0.05	<0.2	0.3	<0.05	0.3	6	<5	0.07	
E5564038 (9532655)	1.98	0.71	18.6	2.50	2	1	0.67	<0.2	2.7	0.28	5.9	154	<5	1.06	
E5564039 (9532656)	1.95	0.75	17.2	2.54	2	1	0.66	<0.2	2.7	0.29	6.0	133	<5	1.17	
E5564040 (9532657)	2.01	0.77	18.1	2.63	2	1	0.66	<0.2	2.8	0.31	6.1	130	<5	1.15	
E5564041 (9532658)	2.09	0.76	17.6	2.78	1	1	0.68	<0.2	3.4	0.30	6.4	160	<5	1.28	
E5564042 (9532659)	2.16	0.75	19.3	2.69	2	1	0.69	<0.2	2.6	0.31	6.0	154	<5	1.12	
E5564043 (9532660)	0.11	<0.05	41.7	0.11	7	3	<0.05	<0.2	0.2	<0.05	0.2	10	<5	<0.05	
E5564044 (9532661)	2.36	0.81	16.8	2.85	2	1	0.79	<0.2	2.9	0.36	6.4	132	<5	1.20	
E5564045 (9532662)	1.94	0.69	18.1	2.65	2	1	0.62	<0.2	2.9	0.30	6.3	150	<5	1.20	
E5564046 (9532663)	2.07	0.76	18.3	2.72	1	1	0.69	<0.2	3.0	0.30	6.3	145	<5	1.19	
E5564047 (9532664)	2.00	0.71	18.3	2.73	1	1	0.69	<0.2	2.9	0.29	6.3	150	<5	1.17	
E5564048 (9532665)	<0.05	<0.05	63.8	<0.05	5	2	<0.05	<0.2	0.3	<0.05	0.1	6	<5	<0.05	
E5564049 (9532666)	2.15	0.80	17.5	3.04	2	1	0.71	<0.2	3.2	0.33	7.3	136	<5	1.41	
E5564050 (9532667)	2.31	0.87	19.3	3.09	2	2	0.80	<0.2	3.5	0.34	7.7	159	<5	1.45	
E5564051 (9532668)	0.13	<0.05	0.35	0.18	<1	<1	<0.05	<0.2	1.0	<0.05	0.9	5	<5	0.25	
E5564052 (9532669)	1.82	0.63	15.6	2.40	2	1	0.64	<0.2	2.3	0.28	5.4	149	<5	0.97	
E5564053 (9532670)	1.83	0.65	15.7	2.28	2	1	0.63	<0.2	2.4	0.30	5.4	171	<5	1.00	
E5564054 (9532671)	1.89	0.66	15.4	2.47	2	1	0.65	<0.2	2.5	0.30	5.3	164	<5	1.04	
E5564055 (9532672)	1.92	0.61	15.6	2.32	2	1	0.66	<0.2	2.4	0.28	5.2	168	<5	1.00	
E5564056 (9532673)	2.03	0.65	15.8	2.46	2	1	0.65	<0.2	2.6	0.31	5.7	193	<5	1.05	
E5564057 (9532674)	2.09	0.69	16.7	2.57	2	1	0.72	<0.2	2.7	0.30	5.8	170	<5	1.12	
E5564058 (9532675)	2.00	0.65	20.4	2.38	2	1	0.65	<0.2	2.9	0.30	5.6	162	<5	1.10	
E5564059 (9532676)	2.66	10.2	23.3	27.5	4	6	1.28	2.7	702	0.24	390	24	28	121	
E5564060 (9532677)	0.19	0.13	49.5	0.42	6	1	0.07	<0.2	1.3	<0.05	1.3	8	<5	0.31	

Certified By:



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CLIENT NAME: ARDIDEN LTD

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018		DATE REPORTED: Oct 04, 2018		SAMPLE TYPE: Drill Core									
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
E5564061 (9532678)	<0.05	<0.05	53.1	0.12	6	<1	<0.05	<0.2	0.3	<0.05	0.4	11	<5	0.07
E5564062 (9532679)	<0.05	<0.05	28.0	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	0.1	12	18	<0.05
E5564063 (9532680)	<0.05	<0.05	35.7	<0.05	9	<1	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05
E5564064 (9532681)	<0.05	<0.05	67.8	<0.05	12	<1	<0.05	<0.2	<0.1	<0.05	<0.1	12	<5	<0.05
E5564065 (9532682)	<0.05	<0.05	24.5	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	7	16	<0.05
E5564066 (9532683)	<0.05	<0.05	53.9	<0.05	11	<1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05
E5564067 (9532684)	<0.05	<0.05	30.9	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05
E5564068 (9532685)	<0.05	<0.05	45.9	<0.05	9	<1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05
E5564069 (9532686)	<0.05	<0.05	20.5	<0.05	9	<1	<0.05	<0.2	<0.1	<0.05	<0.1	9	18	<0.05
E5564070 (9532687)	<0.05	<0.05	22.6	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	7	14	<0.05
E5564071 (9532688)	0.11	<0.05	0.30	0.19	<1	<1	<0.05	<0.2	1.2	<0.05	1.1	10	<5	0.29
E5564072 (9532689)	<0.05	<0.05	22.2	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	5	16	<0.05
E5564073 (9532690)	<0.05	<0.05	25.9	<0.05	8	1	<0.05	<0.2	<0.1	<0.05	<0.1	8	15	<0.05
E5564074 (9532691)	<0.05	<0.05	32.7	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	6	9	<0.05
E5564075 (9532692)	<0.05	<0.05	37.6	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05
E5564076 (9532693)	1.76	4.16	47.7	11.5	7	5	0.73	9.7	266	0.22	152	35	37	48.6
E5564077 (9532694)	<0.05	<0.05	39.2	<0.05	8	<1	<0.05	<0.2	0.2	<0.05	0.1	7	8	<0.05
E5564078 (9532695)	<0.05	<0.05	51.5	<0.05	7	<1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05
E5564079 (9532696)	<0.05	<0.05	39.0	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	8	9	<0.05
E5564080 (9532697)	<0.05	<0.05	41.2	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	9	7	<0.05
E5564081 (9532698)	<0.05	<0.05	72.5	0.05	6	1	<0.05	<0.2	0.2	<0.05	0.2	10	<5	<0.05
E5564082 (9532699)	<0.05	<0.05	79.1	<0.05	7	2	<0.05	<0.2	0.1	<0.05	<0.1	8	<5	<0.05
E5564083 (9532700)	<0.05	<0.05	69.1	<0.05	7	2	<0.05	<0.2	0.2	<0.05	0.1	7	<5	<0.05
E5564084 (9532701)	0.08	<0.05	50.7	0.11	7	3	<0.05	<0.2	1.1	<0.05	0.5	10	<5	0.13
E5564085 (9532702)	<0.05	<0.05	59.3	<0.05	8	1	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05
E5564086 (9532703)	<0.05	<0.05	55.9	<0.05	8	5	<0.05	<0.2	<0.1	<0.05	0.1	7	<5	0.06
E5564087 (9532704)	<0.05	<0.05	55.0	<0.05	7	10	<0.05	<0.2	<0.1	<0.05	<0.1	7	<5	<0.05
E5564088 (9532705)	<0.05	<0.05	46.4	<0.05	6	4	<0.05	<0.2	0.2	<0.05	0.3	9	<5	0.06
E5564089 (9532706)	<0.05	<0.05	36.3	0.06	7	3	<0.05	<0.2	0.1	<0.05	0.4	7	<5	0.07
E5564090 (9532707)	<0.05	<0.05	38.9	<0.05	7	3	<0.05	<0.2	0.3	<0.05	0.3	11	6	0.08
E5564091 (9532708)	0.10	<0.05	0.33	0.16	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	7	<5	0.26
E5564092 (9532709)	2.26	0.75	17.9	2.83	2	1	0.75	<0.2	3.0	0.35	6.3	160	<5	1.20

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018						SAMPLE TYPE: Drill Core		
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564093 (9532710)	2.13	0.69	17.8	2.56	2	1	0.73	<0.2	2.8	0.32	6.0	162	<5	1.19	
E5564094 (9532711)	2.22	0.79	17.6	2.78	2	1	0.71	<0.2	3.6	0.32	6.9	145	<5	1.37	
E5564095 (9532712)	2.48	0.73	17.7	2.80	2	1	0.84	<0.2	3.3	0.38	6.4	153	<5	1.27	
E5564096 (9532713)	2.35	0.79	18.3	2.77	1	2	0.77	<0.2	4.8	0.34	7.7	152	<5	1.53	
E5564097 (9532714)	2.19	0.78	16.6	2.56	2	1	0.69	<0.2	2.7	0.31	6.0	146	<5	1.07	
E5564098 (9532715)	2.23	0.75	18.1	2.92	2	2	0.74	<0.2	3.3	0.35	6.5	158	<5	1.25	
E5564099 (9532716)	2.67	10.3	23.8	26.6	4	6	1.30	2.1	699	0.25	393	24	28	121	
E5564100 (9532717)	3.10	0.95	21.4	3.93	2	2	1.00	<0.2	5.5	0.43	10.2	103	<5	2.00	
E5564101 (9532718)	3.70	1.09	23.4	4.40	2	3	1.24	<0.2	4.8	0.59	10.5	125	9	1.99	
E5564102 (9532719)	<0.05	<0.05	55.4	0.07	6	1	<0.05	<0.2	0.4	<0.05	0.4	9	<5	0.08	
E5564103 (9532720)	3.25	1.04	19.3	4.01	2	2	1.07	<0.2	4.6	0.49	9.5	121	<5	1.80	
E5564104 (9532721)	3.12	1.03	20.2	4.00	2	2	1.07	<0.2	4.4	0.45	9.7	126	<5	1.83	
E5564105 (9532722)	1.72	0.68	16.4	2.17	2	2	0.61	0.2	4.2	0.28	6.1	108	<5	1.28	
E5564106 (9532723)	2.10	0.72	17.8	2.51	2	1	0.72	<0.2	2.9	0.34	5.8	139	<5	1.10	
E5564107 (9532724)	<0.05	<0.05	45.5	0.12	6	2	<0.05	<0.2	0.4	<0.05	0.5	10	10	0.09	
E5564108 (9532725)	2.28	0.65	17.2	2.78	2	1	0.77	<0.2	2.8	0.34	6.0	127	<5	1.09	
E5564109 (9532726)	2.69	0.72	18.2	3.17	2	1	0.83	<0.2	3.2	0.38	6.7	149	<5	1.25	
E5564110 (9532727)	2.17	0.71	17.2	2.76	2	1	0.72	<0.2	3.0	0.34	6.6	129	<5	1.24	
E5564111 (9532728)	0.15	<0.05	0.38	0.22	<1	<1	<0.05	<0.2	1.2	<0.05	1.1	6	<5	0.30	
E5564112 (9532729)	2.45	0.72	16.8	3.01	1	2	0.78	<0.2	3.5	0.36	7.0	82	<5	1.33	
E5564113 (9532730)	<0.05	<0.05	27.1	0.06	4	<1	<0.05	<0.2	0.1	<0.05	0.3	7	7	<0.05	
E5564114 (9532731)	1.02	0.34	30.0	1.31	4	1	0.32	<0.2	1.7	0.14	3.4	43	<5	0.66	
E5564115 (9532732)	3.11	0.97	20.2	3.92	2	2	1.01	<0.2	4.7	0.45	9.3	114	<5	1.87	
E5564116 (9532733)	1.95	4.65	50.9	12.3	8	6	0.81	10.4	274	0.23	162	37	41	51.3	
E5564117 (9532734)	3.30	1.02	22.0	4.03	2	2	1.06	<0.2	5.0	0.47	9.8	127	<5	1.91	
E5564118 (9532735)	2.06	0.81	20.5	3.01	1	2	0.67	<0.2	3.5	0.29	7.8	155	<5	1.49	
E5564119 (9532736)	1.14	0.40	19.1	1.58	2	1	0.41	<0.2	2.7	0.18	4.2	125	<5	0.85	
E5564120 (9532737)	0.98	0.29	19.6	1.16	2	1	0.33	<0.2	1.9	0.14	3.2	113	<5	0.63	
E5564121 (9532738)	0.11	0.06	33.7	0.26	6	3	<0.05	<0.2	0.2	<0.05	0.6	9	<5	0.10	
E5564122 (9532739)	0.10	0.10	22.6	0.29	6	3	<0.05	<0.2	0.2	<0.05	0.9	10	17	0.13	
E5564123 (9532740)	<0.05	<0.05	16.8	0.11	6	2	<0.05	<0.2	<0.1	<0.05	0.5	10	<5	0.07	
E5564124 (9532741)	<0.05	0.05	41.0	0.20	6	2	<0.05	<0.2	0.2	<0.05	0.6	8	9	0.10	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564125 (9532742)	2.17	0.89	23.8	3.27	2	2	0.74	<0.2	7.1	0.35	10.5	162	<5	2.32	
E5564126 (9532743)	2.10	0.58	20.1	3.00	1	2	0.69	<0.2	3.0	0.30	7.1	191	<5	1.30	
E5564127 (9532744)	2.12	0.96	19.3	3.08	1	2	0.68	<0.2	3.5	0.28	7.4	167	<5	1.42	
E5564128 (9532745)	1.93	0.80	18.5	2.77	<1	2	0.65	<0.2	2.8	0.28	6.8	171	<5	1.23	
E5564129 (9532746)	1.99	1.03	19.7	3.20	1	2	0.67	<0.2	3.4	0.26	8.3	165	<5	1.52	
E5564130 (9532747)	1.89	0.71	19.5	2.93	1	2	0.65	<0.2	2.9	0.28	7.0	174	<5	1.30	
E5564131 (9532748)	0.13	<0.05	0.30	0.20	<1	<1	<0.05	<0.2	1.0	<0.05	0.9	10	<5	0.25	
E5564132 (9532749)	1.84	0.81	18.4	2.97	1	2	0.63	<0.2	3.4	0.27	7.3	167	<5	1.33	
E5564133 (9532750)	2.10	0.88	19.0	2.96	1	2	0.70	<0.2	2.9	0.30	6.6	168	13	1.25	
E5564134 (9532751)	2.10	0.87	19.6	2.97	2	2	0.74	<0.2	4.0	0.28	7.6	148	<5	1.48	
E5564135 (9532752)	<0.05	<0.05	48.1	0.05	7	<1	<0.05	<0.2	0.2	<0.05	0.3	8	<5	0.06	
E5564136 (9532753)	<0.05	<0.05	32.7	<0.05	7	1	<0.05	<0.2	<0.1	<0.05	<0.1	13	8	<0.05	
E5564137 (9532754)	<0.05	<0.05	38.9	<0.05	7	1	<0.05	<0.2	<0.1	<0.05	<0.1	6	<5	<0.05	
E5564138 (9532755)	0.47	0.17	56.6	0.87	5	1	0.16	<0.2	3.5	0.05	2.9	13	<5	0.77	
E5564139 (9532756)	2.56	9.85	22.5	26.2	4	6	1.18	1.8	700	0.23	372	29	28	114	
E5564140 (9532757)	0.56	0.21	94.3	1.20	6	2	0.22	<0.2	4.9	0.07	4.2	16	<5	1.06	
E5564141 (9532758)	<0.05	<0.05	70.8	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	12	<5	<0.05	
E5564142 (9532759)	<0.05	<0.05	55.0	<0.05	11	<1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05	
E5564143 (9532760)	<0.05	<0.05	73.5	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05	
E5564144 (9532761)	<0.05	<0.05	49.4	<0.05	9	2	<0.05	<0.2	<0.1	<0.05	<0.1	12	<5	<0.05	
E5564145 (9532762)	0.29	0.11	54.9	0.60	7	2	0.10	<0.2	2.6	<0.05	2.1	19	<5	0.55	
E5564146 (9532763)	<0.05	<0.05	37.7	0.09	7	2	<0.05	<0.2	0.4	<0.05	0.4	9	<5	0.09	
E5564147 (9532764)	<0.05	<0.05	50.3	<0.05	6	1	<0.05	<0.2	0.2	<0.05	0.1	10	<5	<0.05	
E5564148 (9532765)	<0.05	<0.05	65.0	<0.05	7	<1	<0.05	<0.2	0.1	<0.05	<0.1	9	<5	<0.05	
E5564149 (9532766)	0.06	<0.05	72.5	0.08	7	1	<0.05	<0.2	0.6	<0.05	0.4	12	<5	0.11	
E5564150 (9532767)	<0.05	<0.05	49.5	<0.05	10	2	<0.05	<0.2	0.1	<0.05	<0.1	10	<5	<0.05	
E5564151 (9532768)	0.12	<0.05	0.27	0.16	<1	<1	<0.05	<0.2	1.2	<0.05	1.0	8	<5	0.27	
E5564152 (9532769)	<0.05	<0.05	88.1	0.09	6	<1	<0.05	<0.2	0.4	<0.05	0.3	9	<5	0.09	
E5564153 (9532770)	<0.05	<0.05	71.3	<0.05	9	4	<0.05	<0.2	0.2	<0.05	<0.1	10	<5	<0.05	
E5564154 (9532771)	<0.05	<0.05	77.3	<0.05	7	7	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05	
E5564155 (9532772)	<0.05	<0.05	77.3	<0.05	7	3	<0.05	<0.2	0.2	<0.05	0.2	9	<5	<0.05	
E5564156 (9532773)	1.85	4.32	48.3	11.4	7	5	0.71	9.4	265	0.20	151	40	38	46.8	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564157 (9532774)	0.06	<0.05	47.9	0.32	8	2	<0.05	<0.2	0.5	<0.05	0.9	8	5	0.19	
E5564158 (9532775)	<0.05	0.07	56.1	0.23	7	3	<0.05	<0.2	0.3	<0.05	0.7	8	11	0.13	
E5564159 (9532776)	<0.05	<0.05	62.2	0.05	7	4	<0.05	<0.2	0.3	<0.05	0.4	10	<5	0.08	
E5564160 (9532777)	<0.05	<0.05	48.4	0.09	6	5	<0.05	<0.2	0.9	<0.05	1.1	9	<5	0.30	
E5564161 (9532778)	<0.05	<0.05	51.3	<0.05	7	2	<0.05	<0.2	0.3	<0.05	<0.1	8	<5	<0.05	
E5564162 (9532779)	<0.05	<0.05	50.1	<0.05	7	2	<0.05	<0.2	0.3	<0.05	<0.1	6	<5	<0.05	
E5564163 (9532780)	<0.05	<0.05	68.9	<0.05	9	3	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05	
E5564164 (9532781)	<0.05	<0.05	70.6	<0.05	7	4	<0.05	<0.2	<0.1	<0.05	<0.1	12	<5	<0.05	
E5564165 (9532782)	<0.05	<0.05	57.2	<0.05	8	10	<0.05	<0.2	<0.1	<0.05	<0.1	8	<5	<0.05	
E5564166 (9532783)	<0.05	<0.05	56.0	<0.05	8	6	<0.05	<0.2	<0.1	<0.05	<0.1	8	<5	<0.05	
E5564167 (9532784)	<0.05	<0.05	44.7	<0.05	6	5	<0.05	<0.2	<0.1	<0.05	<0.1	8	6	<0.05	
E5564168 (9532785)	<0.05	<0.05	64.8	<0.05	8	5	<0.05	<0.2	<0.1	<0.05	<0.1	7	<5	<0.05	
E5564169 (9532786)	<0.05	<0.05	53.8	<0.05	7	3	<0.05	<0.2	<0.1	<0.05	<0.1	8	<5	<0.05	
E5564170 (9532787)	<0.05	<0.05	35.9	<0.05	6	6	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05	
E5564171 (9532788)	0.12	<0.05	0.31	0.16	<1	<1	<0.05	<0.2	1.0	<0.05	0.8	7	<5	0.22	
E5564172 (9532789)	<0.05	<0.05	46.6	<0.05	7	10	<0.05	<0.2	<0.1	<0.05	<0.1	6	<5	<0.05	
E5564173 (9532790)	<0.05	<0.05	45.1	<0.05	6	1	<0.05	<0.2	<0.1	<0.05	<0.1	8	<5	<0.05	
E5564174 (9532791)	<0.05	<0.05	49.1	<0.05	8	8	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05	
E5564175 (9532792)	<0.05	<0.05	56.7	<0.05	7	7	<0.05	<0.2	<0.1	<0.05	<0.1	9	<5	<0.05	
E5564176 (9532793)	<0.05	<0.05	53.9	<0.05	8	7	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05	
E5564177 (9532794)	<0.05	<0.05	36.7	<0.05	7	2	<0.05	<0.2	<0.1	<0.05	<0.1	7	<5	<0.05	
E5564178 (9532795)	<0.05	<0.05	39.1	<0.05	6	1	<0.05	<0.2	<0.1	<0.05	<0.1	5	<5	<0.05	
E5564179 (9532796)	2.54	9.98	23.1	26.8	4	6	1.24	2.2	714	0.23	383	27	29	117	
E5564180 (9532797)	<0.05	<0.05	40.6	<0.05	6	2	<0.05	<0.2	0.8	<0.05	0.5	7	12	0.14	
E5564181 (9532798)	<0.05	<0.05	39.2	<0.05	6	1	<0.05	<0.2	0.2	<0.05	0.6	<5	5	0.09	
E5564182 (9532799)	<0.05	0.08	53.5	0.19	6	2	<0.05	<0.2	0.3	<0.05	0.7	8	6	0.12	
E5564183 (9532800)	<0.05	0.10	45.0	0.13	7	4	<0.05	<0.2	0.2	<0.05	0.7	12	<5	0.12	
E5564184 (9532801)	0.15	0.13	36.8	0.34	7	5	0.05	<0.2	0.4	<0.05	1.0	13	<5	0.18	
E5564185 (9532802)	2.28	0.75	18.7	2.73	2	1	0.70	<0.2	2.9	0.33	6.1	164	<5	1.17	
E5564186 (9532803)	2.08	0.69	16.1	2.69	1	1	0.69	<0.2	2.4	0.30	5.8	167	<5	1.07	
E5564187 (9532804)	2.16	0.69	18.2	2.64	2	1	0.68	<0.2	2.6	0.30	6.0	167	<5	1.12	
E5564188 (9532805)	2.71	0.74	16.8	2.83	1	1	0.87	<0.2	3.0	0.40	6.3	159	<5	1.13	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564189 (9532806)	2.19	0.76	18.5	2.78	2	1	0.73	<0.2	2.8	0.34	6.0	166	<5	1.11	
E5564190 (9532807)	2.23	0.80	19.1	2.84	1	2	0.77	<0.2	3.0	0.31	6.8	191	<5	1.20	
E5564191 (9532808)	0.12	<0.05	0.27	0.15	<1	<1	<0.05	<0.2	1.1	<0.05	0.9	8	<5	0.26	
E5564192 (9532809)	1.92	0.67	18.1	2.46	1	1	0.67	<0.2	2.7	0.31	5.9	173	<5	1.10	

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564029 (9532646)	0.26	<0.1	43	2.2	144	0.49	0.5	0.53	<0.5	0.30	0.12	308	<1	18.8	
E5564030 (9532647)	0.20	0.2	41	2.8	169	0.55	0.6	0.51	2.6	0.29	0.25	277	8	19.0	
E5564031 (9532648)	<0.01	<0.1	<5	0.2	6.7	<0.05	0.6	0.03	<0.5	<0.05	0.19	<5	<1	1.1	
E5564032 (9532649)	<0.01	0.2	<5	0.1	19.4	<0.05	8.5	0.01	0.5	<0.05	3.38	<5	2	<0.5	
E5564033 (9532650)	0.08	0.6	41	1.9	102	0.46	0.7	0.49	6.9	0.30	2.09	278	1	17.7	
E5564034 (9532651)	<0.01	0.3	<5	<0.1	72.6	<0.05	3.4	<0.01	58.6	<0.05	1.73	<5	2	<0.5	
E5564035 (9532652)	<0.01	0.4	<5	<0.1	35.3	<0.05	2.6	<0.01	29.6	<0.05	5.68	<5	2	<0.5	
E5564036 (9532653)	0.02	28.4	7	18.4	183	1.32	123	0.36	7.4	0.25	24.3	70	14	18.6	
E5564037 (9532654)	<0.01	<0.1	<5	<0.1	12.6	<0.05	7.5	<0.01	2.4	<0.05	2.08	<5	2	<0.5	
E5564038 (9532655)	0.09	0.2	42	1.9	122	0.44	0.7	0.52	6.2	0.30	0.51	279	<1	17.6	
E5564039 (9532656)	0.09	<0.1	43	1.9	119	0.47	0.4	0.51	0.5	0.28	0.08	286	2	17.8	
E5564040 (9532657)	0.12	0.1	43	1.9	119	0.48	0.3	0.54	0.7	0.30	0.08	289	2	17.6	
E5564041 (9532658)	0.15	<0.1	47	2.0	112	0.50	0.3	0.56	<0.5	0.30	1.02	325	<1	18.4	
E5564042 (9532659)	0.24	<0.1	47	2.1	90.9	0.48	0.4	0.49	2.2	0.31	0.42	294	1	17.9	
E5564043 (9532660)	0.04	<0.1	<5	<0.1	15.6	<0.05	4.7	0.02	2.1	<0.05	6.00	10	<1	0.9	
E5564044 (9532661)	0.33	0.1	45	2.1	71.6	0.55	0.4	0.47	0.9	0.34	0.10	292	<1	20.9	
E5564045 (9532662)	0.22	<0.1	45	1.9	90.8	0.46	0.3	0.50	1.0	0.30	0.13	279	20	16.9	
E5564046 (9532663)	0.18	0.1	48	2.1	95.4	0.50	0.4	0.54	<0.5	0.31	0.08	297	<1	18.2	
E5564047 (9532664)	0.09	0.1	47	2.0	92.1	0.47	0.3	0.57	1.2	0.29	0.11	297	<1	17.7	
E5564048 (9532665)	<0.01	<0.1	<5	<0.1	31.6	<0.05	5.5	0.01	6.6	<0.05	11.8	<5	2	<0.5	
E5564049 (9532666)	0.15	<0.1	49	2.4	91.9	0.53	0.5	0.52	<0.5	0.33	0.15	316	<1	19.3	
E5564050 (9532667)	0.18	<0.1	52	2.3	114	0.56	0.4	0.58	<0.5	0.35	0.12	337	<1	20.9	
E5564051 (9532668)	<0.01	<0.1	<5	0.2	4.8	<0.05	0.6	0.03	<0.5	<0.05	0.17	<5	<1	1.1	
E5564052 (9532669)	0.07	<0.1	42	1.8	91.0	0.43	0.3	0.47	<0.5	0.29	0.07	272	1	17.0	
E5564053 (9532670)	0.10	<0.1	44	1.7	102	0.43	0.3	0.48	<0.5	0.28	0.07	284	<1	17.6	
E5564054 (9532671)	0.10	<0.1	43	1.8	96.6	0.45	0.2	0.47	<0.5	0.29	0.06	275	<1	17.6	
E5564055 (9532672)	0.10	<0.1	42	1.7	96.6	0.42	0.2	0.47	<0.5	0.28	0.06	268	<1	17.7	
E5564056 (9532673)	0.17	0.2	41	1.8	101	0.44	0.2	0.50	<0.5	0.28	0.06	278	<1	18.0	
E5564057 (9532674)	0.11	0.5	44	1.9	100	0.47	0.2	0.51	<0.5	0.31	0.07	298	<1	19.1	
E5564058 (9532675)	0.13	0.9	41	1.7	102	0.43	0.6	0.50	7.2	0.29	0.28	281	<1	17.6	
E5564059 (9532676)	0.02	10.5	10	46.1	306	2.97	98.4	0.51	11.5	0.30	15.7	66	5	28.5	
E5564060 (9532677)	<0.01	0.2	<5	0.3	39.3	0.06	4.3	0.02	9.3	<0.05	1.69	<5	3	2.0	

Certified By:



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AGAT WORK ORDER: 18B383094

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564061 (9532678)	<0.01	0.2	<5	<0.1	71.1	<0.05	1.0	0.02	56.0	<0.05	0.48	<5	4	0.5	
E5564062 (9532679)	<0.01	0.3	<5	<0.1	168	<0.05	0.1	<0.01	180	<0.05	0.20	<5	<1	<0.5	
E5564063 (9532680)	<0.01	0.4	<5	<0.1	54.3	<0.05	3.2	<0.01	42.4	<0.05	0.51	<5	3	<0.5	
E5564064 (9532681)	<0.01	0.3	<5	<0.1	28.4	<0.05	2.6	<0.01	17.3	<0.05	1.03	<5	1	<0.5	
E5564065 (9532682)	<0.01	0.7	<5	<0.1	148	<0.05	0.3	<0.01	141	<0.05	0.39	<5	<1	<0.5	
E5564066 (9532683)	<0.01	0.5	<5	<0.1	32.7	<0.05	1.8	<0.01	19.5	<0.05	6.19	<5	2	<0.5	
E5564067 (9532684)	<0.01	0.7	<5	<0.1	22.7	<0.05	5.2	<0.01	12.0	<0.05	4.91	<5	<1	<0.5	
E5564068 (9532685)	<0.01	0.6	<5	<0.1	25.6	<0.05	2.3	<0.01	12.8	<0.05	0.86	<5	1	<0.5	
E5564069 (9532686)	<0.01	2.9	<5	<0.1	134	<0.05	0.4	<0.01	136	<0.05	0.33	<5	<1	<0.5	
E5564070 (9532687)	<0.01	0.7	<5	<0.1	121	<0.05	0.2	<0.01	127	<0.05	0.22	<5	<1	<0.5	
E5564071 (9532688)	<0.01	0.1	<5	0.2	6.8	<0.05	0.7	0.03	<0.5	<0.05	0.16	<5	<1	1.1	
E5564072 (9532689)	<0.01	0.5	<5	<0.1	139	<0.05	0.1	<0.01	133	<0.05	0.35	<5	<1	<0.5	
E5564073 (9532690)	<0.01	0.6	<5	<0.1	124	<0.05	0.2	<0.01	118	<0.05	0.33	<5	1	<0.5	
E5564074 (9532691)	<0.01	0.9	<5	<0.1	62.9	<0.05	0.4	<0.01	67.0	<0.05	0.41	<5	<1	<0.5	
E5564075 (9532692)	<0.01	0.8	<5	<0.1	42.1	<0.05	0.3	<0.01	37.6	<0.05	0.67	<5	1	<0.5	
E5564076 (9532693)	0.03	29.0	7	18.1	196	1.32	121	0.38	7.6	0.24	24.3	73	14	18.7	
E5564077 (9532694)	<0.01	0.8	<5	<0.1	66.4	<0.05	0.3	<0.01	69.0	<0.05	0.39	<5	1	<0.5	
E5564078 (9532695)	<0.01	1.0	<5	<0.1	35.5	<0.05	0.4	<0.01	27.6	<0.05	0.66	<5	2	<0.5	
E5564079 (9532696)	<0.01	2.1	<5	<0.1	52.3	<0.05	0.5	<0.01	51.9	<0.05	0.77	<5	<1	<0.5	
E5564080 (9532697)	<0.01	1.4	<5	<0.1	43.9	<0.05	0.9	<0.01	44.9	<0.05	0.65	<5	<1	<0.5	
E5564081 (9532698)	<0.01	0.9	<5	<0.1	36.9	<0.05	7.9	0.01	20.9	<0.05	10.3	<5	3	<0.5	
E5564082 (9532699)	<0.01	0.9	<5	<0.1	24.9	<0.05	7.5	<0.01	14.2	<0.05	11.5	<5	3	<0.5	
E5564083 (9532700)	<0.01	0.9	<5	<0.1	22.5	<0.05	14.2	<0.01	10.1	<0.05	17.9	<5	3	<0.5	
E5564084 (9532701)	<0.01	0.9	<5	<0.1	22.1	<0.05	12.2	<0.01	7.1	<0.05	20.6	<5	2	1.1	
E5564085 (9532702)	<0.01	0.5	<5	<0.1	30.3	<0.05	3.8	<0.01	15.7	<0.05	5.36	<5	2	<0.5	
E5564086 (9532703)	<0.01	0.5	<5	<0.1	49.5	<0.05	3.8	<0.01	16.4	<0.05	6.15	<5	2	<0.5	
E5564087 (9532704)	<0.01	0.9	<5	<0.1	31.3	<0.05	23.5	<0.01	10.8	<0.05	28.5	<5	2	<0.5	
E5564088 (9532705)	<0.01	0.8	<5	<0.1	32.6	<0.05	16.4	<0.01	9.1	<0.05	19.9	<5	2	<0.5	
E5564089 (9532706)	<0.01	0.5	<5	<0.1	19.0	<0.05	10.6	<0.01	4.8	<0.05	5.18	<5	<1	<0.5	
E5564090 (9532707)	<0.01	1.0	<5	<0.1	19.6	<0.05	12.7	<0.01	4.1	<0.05	12.2	<5	1	<0.5	
E5564091 (9532708)	<0.01	0.1	<5	0.2	3.1	<0.05	0.9	0.03	<0.5	<0.05	0.19	<5	<1	1.0	
E5564092 (9532709)	0.20	1.0	51	2.1	116	0.50	0.7	0.59	3.0	0.34	0.59	320	<1	21.1	

Certified By:



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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564093 (9532710)	0.10	0.3	51	2.0	147	0.44	0.4	0.62	<0.5	0.33	0.10	327	<1	19.2	
E5564094 (9532711)	0.06	0.1	47	2.0	152	0.50	0.4	0.56	<0.5	0.31	0.11	293	<1	19.8	
E5564095 (9532712)	0.27	0.6	52	2.1	90.8	0.53	0.4	0.55	<0.5	0.36	0.12	309	<1	22.5	
E5564096 (9532713)	0.14	0.7	52	2.3	123	0.51	0.5	0.61	<0.5	0.36	0.11	324	<1	21.0	
E5564097 (9532714)	0.14	0.8	50	1.9	100	0.47	0.3	0.56	<0.5	0.32	0.07	309	<1	18.8	
E5564098 (9532715)	0.08	0.6	53	2.1	119	0.50	0.4	0.59	<0.5	0.36	0.10	335	<1	20.3	
E5564099 (9532716)	0.02	11.0	10	47.4	279	2.88	101	0.50	11.4	0.31	16.1	63	5	29.2	
E5564100 (9532717)	0.04	0.2	47	3.1	93.6	0.70	1.3	0.78	<0.5	0.45	0.14	364	1	26.6	
E5564101 (9532718)	0.11	0.7	54	3.5	109	0.86	0.8	0.90	6.3	0.57	0.33	393	<1	31.3	
E5564102 (9532719)	<0.01	0.1	<5	<0.1	37.0	<0.05	3.7	<0.01	14.8	<0.05	2.67	<5	2	0.5	
E5564103 (9532720)	0.09	0.8	41	2.8	68.0	0.71	0.8	0.66	2.3	0.49	0.16	302	29	29.0	
E5564104 (9532721)	0.07	0.4	43	2.9	82.0	0.70	0.9	0.70	1.0	0.47	0.25	313	<1	28.7	
E5564105 (9532722)	0.33	<0.1	33	1.8	99.3	0.42	0.7	0.40	<0.5	0.27	0.18	221	<1	17.2	
E5564106 (9532723)	0.03	0.1	43	2.0	126	0.48	0.3	0.49	0.9	0.30	0.10	266	31	18.5	
E5564107 (9532724)	<0.01	0.2	<5	<0.1	55.6	<0.05	4.2	<0.01	23.1	<0.05	4.19	<5	1	0.5	
E5564108 (9532725)	0.29	0.3	43	2.0	107	0.49	0.4	0.50	0.8	0.35	0.10	261	<1	21.8	
E5564109 (9532726)	0.44	0.2	49	2.2	111	0.58	0.4	0.56	0.7	0.38	0.11	299	<1	24.3	
E5564110 (9532727)	0.20	0.2	45	2.1	86.4	0.50	0.3	0.49	<0.5	0.34	0.09	287	<1	18.6	
E5564111 (9532728)	<0.01	0.1	<5	0.3	3.5	<0.05	0.7	0.03	<0.5	<0.05	0.19	<5	<1	1.3	
E5564112 (9532729)	0.32	0.5	30	2.1	68.8	0.56	0.4	0.57	6.3	0.33	0.32	279	<1	21.3	
E5564113 (9532730)	<0.01	<0.1	<5	<0.1	40.3	<0.05	0.7	<0.01	21.9	<0.05	0.37	<5	<1	<0.5	
E5564114 (9532731)	0.03	0.2	16	1.1	44.0	0.23	3.5	0.27	5.9	0.15	0.87	129	1	9.2	
E5564115 (9532732)	0.12	0.2	48	2.9	92.5	0.69	0.6	0.78	2.1	0.44	0.12	342	<1	28.2	
E5564116 (9532733)	0.03	31.3	7	19.7	209	1.37	133	0.40	7.9	0.25	26.5	76	15	20.5	
E5564117 (9532734)	0.27	<0.1	51	2.9	115	0.70	0.8	0.86	2.0	0.47	0.22	382	<1	29.3	
E5564118 (9532735)	0.12	0.2	54	2.5	123	0.52	0.4	0.67	4.1	0.32	0.09	346	<1	18.2	
E5564119 (9532736)	0.07	<0.1	42	1.2	63.8	0.28	0.4	0.50	6.6	0.20	7.47	262	3	10.0	
E5564120 (9532737)	0.07	<0.1	37	0.9	55.6	0.21	0.6	0.49	6.4	0.15	4.82	237	3	7.9	
E5564121 (9532738)	<0.01	<0.1	<5	0.2	17.9	<0.05	4.4	<0.01	4.5	<0.05	2.05	<5	<1	1.2	
E5564122 (9532739)	<0.01	<0.1	<5	0.2	26.6	<0.05	4.0	<0.01	12.9	<0.05	3.20	<5	<1	1.4	
E5564123 (9532740)	<0.01	<0.1	<5	<0.1	13.8	<0.05	3.6	<0.01	4.1	<0.05	1.46	<5	<1	<0.5	
E5564124 (9532741)	<0.01	<0.1	<5	0.2	47.2	<0.05	2.9	<0.01	25.0	<0.05	3.45	<5	<1	0.6	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018						DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core			
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564125 (9532742)	0.18	0.1	60	2.9	99.4	0.53	1.4	0.60	6.2	0.34	1.83	337	<1	19.0	
E5564126 (9532743)	0.05	<0.1	57	2.2	123	0.50	0.4	0.68	5.0	0.31	0.10	357	<1	18.5	
E5564127 (9532744)	0.26	<0.1	54	2.4	108	0.52	0.4	0.61	0.8	0.31	0.14	340	<1	18.3	
E5564128 (9532745)	0.12	<0.1	52	2.3	110	0.47	0.5	0.64	0.6	0.28	0.10	326	<1	16.4	
E5564129 (9532746)	0.18	<0.1	57	2.8	111	0.55	0.4	0.67	0.7	0.27	0.10	368	<1	16.8	
E5564130 (9532747)	0.13	<0.1	56	2.5	123	0.49	0.4	0.66	<0.5	0.28	0.10	353	<1	16.4	
E5564131 (9532748)	<0.01	0.2	<5	0.2	3.7	<0.05	0.6	0.03	<0.5	<0.05	0.19	<5	<1	1.4	
E5564132 (9532749)	0.11	<0.1	51	2.2	132	0.50	0.4	0.63	<0.5	0.25	0.09	332	<1	16.4	
E5564133 (9532750)	0.18	0.2	57	2.1	123	0.51	0.3	0.64	<0.5	0.30	0.12	356	<1	17.5	
E5564134 (9532751)	0.09	0.5	53	2.3	112	0.51	0.4	0.63	6.3	0.31	0.71	331	1	18.3	
E5564135 (9532752)	<0.01	0.4	<5	<0.1	26.9	<0.05	5.3	<0.01	11.3	<0.05	5.78	<5	1	<0.5	
E5564136 (9532753)	<0.01	1.0	<5	<0.1	64.6	<0.05	2.8	<0.01	66.1	<0.05	3.43	<5	<1	<0.5	
E5564137 (9532754)	<0.01	0.4	<5	<0.1	19.9	<0.05	2.7	<0.01	7.5	<0.05	2.92	<5	1	<0.5	
E5564138 (9532755)	<0.01	0.5	<5	0.7	46.3	0.19	3.8	0.02	25.8	0.07	3.98	7	5	6.0	
E5564139 (9532756)	0.02	10.5	10	45.6	298	2.82	96.9	0.53	10.9	0.31	15.5	68	5	27.7	
E5564140 (9532757)	<0.01	0.5	<5	1.1	69.2	0.23	6.8	0.03	38.4	0.08	4.86	11	8	7.5	
E5564141 (9532758)	<0.01	0.4	<5	<0.1	29.1	<0.05	1.4	<0.01	15.3	<0.05	0.84	<5	2	<0.5	
E5564142 (9532759)	<0.01	0.4	<5	<0.1	49.5	<0.05	2.7	<0.01	39.0	<0.05	5.61	<5	3	<0.5	
E5564143 (9532760)	<0.01	0.4	<5	<0.1	23.2	<0.05	8.4	<0.01	12.8	<0.05	1.49	<5	2	<0.5	
E5564144 (9532761)	<0.01	0.2	<5	<0.1	39.2	<0.05	10.2	<0.01	28.8	<0.05	8.15	<5	3	<0.5	
E5564145 (9532762)	<0.01	0.6	<5	0.5	52.4	0.11	13.9	0.01	27.2	<0.05	9.06	<5	5	3.7	
E5564146 (9532763)	<0.01	0.5	<5	<0.1	25.4	<0.05	3.4	<0.01	2.6	<0.05	4.28	<5	2	<0.5	
E5564147 (9532764)	<0.01	0.4	<5	<0.1	22.2	<0.05	2.2	<0.01	6.8	<0.05	3.11	<5	2	<0.5	
E5564148 (9532765)	<0.01	0.7	<5	<0.1	25.2	<0.05	1.4	<0.01	6.8	<0.05	7.04	<5	1	<0.5	
E5564149 (9532766)	<0.01	0.6	<5	<0.1	23.5	<0.05	6.5	<0.01	9.9	<0.05	10.7	<5	2	0.8	
E5564150 (9532767)	<0.01	0.5	<5	<0.1	38.7	<0.05	2.0	<0.01	19.8	<0.05	4.92	<5	1	<0.5	
E5564151 (9532768)	<0.01	0.2	<5	0.2	5.0	<0.05	0.8	0.03	<0.5	<0.05	0.17	<5	<1	1.2	
E5564152 (9532769)	<0.01	1.0	<5	<0.1	30.6	<0.05	2.3	<0.01	11.1	<0.05	5.02	7	1	0.5	
E5564153 (9532770)	<0.01	1.7	<5	<0.1	30.4	<0.05	3.9	<0.01	16.2	<0.05	7.10	<5	2	<0.5	
E5564154 (9532771)	<0.01	0.6	<5	<0.1	26.7	<0.05	3.2	<0.01	15.0	<0.05	6.55	6	2	<0.5	
E5564155 (9532772)	<0.01	0.5	<5	<0.1	30.2	<0.05	5.3	<0.01	17.6	<0.05	12.4	6	2	<0.5	
E5564156 (9532773)	0.03	29.3	8	18.7	211	1.33	123	0.39	7.4	0.24	24.2	78	14	18.5	

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PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564157 (9532774)	<0.01	0.7	<5	0.3	31.0	<0.05	9.5	<0.01	13.1	<0.05	9.08	<5	3	1.2	
E5564158 (9532775)	<0.01	1.5	<5	0.2	49.6	<0.05	6.8	<0.01	28.7	<0.05	5.72	<5	4	0.9	
E5564159 (9532776)	<0.01	0.3	<5	<0.1	34.8	<0.05	5.3	<0.01	18.1	<0.05	7.75	<5	3	<0.5	
E5564160 (9532777)	<0.01	0.4	<5	0.1	26.2	<0.05	13.5	<0.01	8.6	<0.05	28.3	<5	3	0.6	
E5564161 (9532778)	<0.01	0.6	<5	<0.1	19.5	<0.05	8.7	<0.01	7.6	<0.05	13.5	<5	2	<0.5	
E5564162 (9532779)	<0.01	0.6	<5	<0.1	20.2	<0.05	7.2	<0.01	8.8	<0.05	11.0	<5	2	<0.5	
E5564163 (9532780)	<0.01	0.6	<5	<0.1	48.2	<0.05	7.7	<0.01	26.2	<0.05	17.9	<5	3	<0.5	
E5564164 (9532781)	<0.01	0.5	<5	<0.1	24.6	<0.05	11.1	<0.01	13.5	<0.05	13.8	<5	2	<0.5	
E5564165 (9532782)	<0.01	1.3	<5	<0.1	31.0	<0.05	13.2	<0.01	16.1	<0.05	37.3	<5	2	<0.5	
E5564166 (9532783)	<0.01	0.9	<5	<0.1	34.1	<0.05	23.5	<0.01	19.6	<0.05	19.5	<5	3	<0.5	
E5564167 (9532784)	<0.01	0.8	<5	<0.1	19.5	<0.05	44.8	<0.01	6.5	<0.05	38.6	<5	3	<0.5	
E5564168 (9532785)	<0.01	0.9	<5	<0.1	50.2	<0.05	8.1	<0.01	32.5	<0.05	13.0	<5	5	<0.5	
E5564169 (9532786)	<0.01	0.7	<5	<0.1	33.6	<0.05	6.1	<0.01	18.1	<0.05	8.76	<5	3	<0.5	
E5564170 (9532787)	<0.01	0.9	<5	<0.1	31.4	<0.05	11.5	<0.01	10.3	<0.05	25.2	<5	1	<0.5	
E5564171 (9532788)	<0.01	0.1	<5	0.1	4.6	<0.05	0.9	0.03	<0.5	<0.05	0.19	<5	<1	1.0	
E5564172 (9532789)	<0.01	0.9	<5	<0.1	35.7	<0.05	14.0	<0.01	16.6	<0.05	27.9	<5	2	<0.5	
E5564173 (9532790)	<0.01	0.7	<5	<0.1	39.1	<0.05	5.0	<0.01	20.3	<0.05	6.71	<5	3	<0.5	
E5564174 (9532791)	<0.01	1.2	<5	<0.1	30.7	<0.05	10.6	<0.01	16.4	<0.05	25.5	<5	2	<0.5	
E5564175 (9532792)	<0.01	1.0	<5	<0.1	13.9	<0.05	12.1	<0.01	5.3	<0.05	37.6	<5	1	<0.5	
E5564176 (9532793)	<0.01	1.1	<5	<0.1	11.6	<0.05	12.9	<0.01	4.4	<0.05	32.8	<5	1	<0.5	
E5564177 (9532794)	<0.01	0.9	<5	<0.1	17.9	<0.05	3.3	<0.01	6.7	<0.05	7.55	<5	1	<0.5	
E5564178 (9532795)	<0.01	1.0	<5	<0.1	16.0	<0.05	1.8	<0.01	5.2	<0.05	5.40	<5	1	<0.5	
E5564179 (9532796)	0.02	10.7	10	47.5	307	2.86	98.6	0.51	11.0	0.30	17.6	66	5	28.5	
E5564180 (9532797)	<0.01	1.2	<5	<0.1	16.0	<0.05	4.3	<0.01	4.2	<0.05	8.61	<5	1	<0.5	
E5564181 (9532798)	<0.01	0.9	<5	<0.1	31.2	<0.05	3.0	<0.01	14.9	<0.05	7.09	<5	1	<0.5	
E5564182 (9532799)	<0.01	0.8	<5	0.2	36.8	<0.05	4.5	<0.01	14.9	<0.05	6.74	<5	1	<0.5	
E5564183 (9532800)	<0.01	0.4	<5	0.1	21.7	<0.05	4.5	<0.01	4.5	<0.05	5.01	<5	1	<0.5	
E5564184 (9532801)	<0.01	0.6	<5	0.3	24.1	<0.05	4.9	0.03	1.8	<0.05	5.71	10	<1	1.6	
E5564185 (9532802)	0.21	2.7	49	1.9	95.3	0.50	0.6	0.56	4.2	0.32	0.15	308	<1	20.8	
E5564186 (9532803)	0.10	1.6	46	1.9	103	0.46	0.3	0.57	0.8	0.29	0.07	299	<1	18.2	
E5564187 (9532804)	0.20	1.8	49	2.1	108	0.49	0.4	0.59	1.4	0.32	0.18	312	28	18.9	
E5564188 (9532805)	0.60	0.7	55	2.0	98.3	0.52	0.3	0.55	<0.5	0.39	0.07	316	<1	24.4	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018	DATE RECEIVED: Sep 08, 2018					DATE REPORTED: Oct 04, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5
E5564189 (9532806)		0.13	0.6	50	2.1	116	0.49	0.3	0.60	<0.5	0.32	0.09	314	<1	20.1
E5564190 (9532807)		0.09	0.2	53	2.2	119	0.51	0.5	0.62	<0.5	0.37	0.08	336	<1	20.6
E5564191 (9532808)		<0.01	0.2	<5	0.2	3.8	<0.05	0.7	0.03	<0.5	<0.05	0.20	<5	<1	1.1
E5564192 (9532809)		0.07	0.1	50	2.1	112	0.46	0.4	0.59	<0.5	0.29	0.08	322	<1	18.1

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564029 (9532646)		2.0	76	45.9
E5564030 (9532647)		1.9	79	47.7
E5564031 (9532648)		0.1	<5	26.3
E5564032 (9532649)		<0.1	<5	15.1
E5564033 (9532650)		1.9	86	43.4
E5564034 (9532651)		<0.1	60	6.7
E5564035 (9532652)		<0.1	56	16.3
E5564036 (9532653)		1.5	323	164
E5564037 (9532654)		<0.1	12	15.4
E5564038 (9532655)		1.9	75	44.6
E5564039 (9532656)		1.9	73	45.5
E5564040 (9532657)		1.9	75	45.8
E5564041 (9532658)		2.0	78	46.6
E5564042 (9532659)		2.0	85	43.7
E5564043 (9532660)		0.1	18	13.1
E5564044 (9532661)		2.4	98	42.4
E5564045 (9532662)		1.9	82	43.7
E5564046 (9532663)		2.0	78	49.9
E5564047 (9532664)		1.9	75	48.9
E5564048 (9532665)		<0.1	53	12.2
E5564049 (9532666)		2.2	87	45.4
E5564050 (9532667)		2.3	87	50.5
E5564051 (9532668)		0.1	<5	24.0
E5564052 (9532669)		2.0	83	39.5
E5564053 (9532670)		1.9	82	40.6
E5564054 (9532671)		2.0	85	40.7
E5564055 (9532672)		1.9	86	40.3
E5564056 (9532673)		2.0	93	43.3
E5564057 (9532674)		2.1	94	45.0
E5564058 (9532675)		1.9	107	42.0
E5564059 (9532676)		1.8	148	212
E5564060 (9532677)		0.1	70	10.3

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564061 (9532678)		<0.1	199	2.1
E5564062 (9532679)		<0.1	40	<0.5
E5564063 (9532680)		<0.1	131	0.6
E5564064 (9532681)		<0.1	43	0.9
E5564065 (9532682)		<0.1	14	0.8
E5564066 (9532683)		<0.1	85	<0.5
E5564067 (9532684)		<0.1	63	2.1
E5564068 (9532685)		<0.1	67	2.5
E5564069 (9532686)		<0.1	6	1.3
E5564070 (9532687)		<0.1	34	<0.5
E5564071 (9532688)		0.1	<5	23.6
E5564072 (9532689)		<0.1	21	<0.5
E5564073 (9532690)		<0.1	33	4.8
E5564074 (9532691)		<0.1	29	<0.5
E5564075 (9532692)		<0.1	51	1.0
E5564076 (9532693)		1.5	355	172
E5564077 (9532694)		<0.1	54	1.1
E5564078 (9532695)		<0.1	105	2.0
E5564079 (9532696)		<0.1	46	1.2
E5564080 (9532697)		<0.1	54	0.9
E5564081 (9532698)		<0.1	139	8.8
E5564082 (9532699)		<0.1	85	12.5
E5564083 (9532700)		<0.1	59	15.8
E5564084 (9532701)		0.1	44	20.5
E5564085 (9532702)		<0.1	72	9.3
E5564086 (9532703)		<0.1	63	33.0
E5564087 (9532704)		<0.1	33	80.2
E5564088 (9532705)		<0.1	49	35.5
E5564089 (9532706)		<0.1	22	28.0
E5564090 (9532707)		<0.1	25	23.3
E5564091 (9532708)		0.1	<5	23.0
E5564092 (9532709)		2.2	102	47.8

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5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564093 (9532710)		2.1	91	47.3
E5564094 (9532711)		2.2	91	48.0
E5564095 (9532712)		2.4	108	47.2
E5564096 (9532713)		2.3	108	48.5
E5564097 (9532714)		2.1	104	44.9
E5564098 (9532715)		2.2	102	48.4
E5564099 (9532716)		1.8	146	218
E5564100 (9532717)		2.9	78	88.4
E5564101 (9532718)		3.8	147	90.1
E5564102 (9532719)		<0.1	57	7.3
E5564103 (9532720)		3.2	102	68.7
E5564104 (9532721)		3.1	101	76.0
E5564105 (9532722)		1.8	83	54.0
E5564106 (9532723)		2.1	102	43.1
E5564107 (9532724)		<0.1	61	8.3
E5564108 (9532725)		2.2	83	43.7
E5564109 (9532726)		2.5	90	46.4
E5564110 (9532727)		2.1	82	43.0
E5564111 (9532728)		0.2	<5	25.9
E5564112 (9532729)		2.3	70	54.0
E5564113 (9532730)		<0.1	15	2.3
E5564114 (9532731)		0.9	59	29.3
E5564115 (9532732)		3.0	123	76.0
E5564116 (9532733)		1.5	370	180
E5564117 (9532734)		3.1	105	77.7
E5564118 (9532735)		2.0	97	54.5
E5564119 (9532736)		1.1	49	38.7
E5564120 (9532737)		1.0	46	38.9
E5564121 (9532738)		<0.1	12	16.3
E5564122 (9532739)		<0.1	11	17.8
E5564123 (9532740)		<0.1	8	10.8
E5564124 (9532741)		<0.1	21	9.3

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

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DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564125 (9532742)		2.2	212	53.1
E5564126 (9532743)		2.0	104	56.7
E5564127 (9532744)		2.0	80	51.8
E5564128 (9532745)		1.8	64	49.7
E5564129 (9532746)		1.9	73	50.7
E5564130 (9532747)		1.7	64	50.7
E5564131 (9532748)		0.1	<5	23.7
E5564132 (9532749)		1.7	51	48.9
E5564133 (9532750)		2.0	78	50.8
E5564134 (9532751)		2.0	77	50.3
E5564135 (9532752)		<0.1	55	4.7
E5564136 (9532753)		<0.1	30	5.8
E5564137 (9532754)		<0.1	46	8.4
E5564138 (9532755)		0.4	246	7.1
E5564139 (9532756)		1.7	154	209
E5564140 (9532757)		0.5	338	10.5
E5564141 (9532758)		<0.1	51	1.1
E5564142 (9532759)		<0.1	99	1.6
E5564143 (9532760)		<0.1	36	0.6
E5564144 (9532761)		<0.1	89	7.7
E5564145 (9532762)		0.2	145	16.3
E5564146 (9532763)		<0.1	17	11.0
E5564147 (9532764)		<0.1	44	8.4
E5564148 (9532765)		<0.1	35	4.3
E5564149 (9532766)		<0.1	45	9.5
E5564150 (9532767)		<0.1	40	7.9
E5564151 (9532768)		0.1	<5	23.9
E5564152 (9532769)		<0.1	30	6.4
E5564153 (9532770)		<0.1	40	18.0
E5564154 (9532771)		<0.1	45	50.3
E5564155 (9532772)		<0.1	53	20.3
E5564156 (9532773)		1.5	367	158

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564157 (9532774)		<0.1	67	11.1
E5564158 (9532775)		<0.1	140	17.2
E5564159 (9532776)		<0.1	97	21.7
E5564160 (9532777)		<0.1	44	32.4
E5564161 (9532778)		<0.1	32	11.4
E5564162 (9532779)		<0.1	50	11.8
E5564163 (9532780)		<0.1	79	22.0
E5564164 (9532781)		<0.1	40	28.5
E5564165 (9532782)		<0.1	53	72.1
E5564166 (9532783)		<0.1	55	45.0
E5564167 (9532784)		<0.1	21	41.5
E5564168 (9532785)		<0.1	125	34.8
E5564169 (9532786)		<0.1	87	17.6
E5564170 (9532787)		<0.1	42	44.0
E5564171 (9532788)		0.1	5	23.0
E5564172 (9532789)		<0.1	62	75.8
E5564173 (9532790)		<0.1	104	9.5
E5564174 (9532791)		<0.1	79	57.2
E5564175 (9532792)		<0.1	28	51.9
E5564176 (9532793)		<0.1	20	53.6
E5564177 (9532794)		<0.1	29	11.2
E5564178 (9532795)		<0.1	37	9.6
E5564179 (9532796)		1.8	154	210
E5564180 (9532797)		<0.1	32	11.4
E5564181 (9532798)		<0.1	39	10.2
E5564182 (9532799)		<0.1	42	14.0
E5564183 (9532800)		<0.1	37	24.0
E5564184 (9532801)		0.1	19	37.4
E5564185 (9532802)		2.2	100	45.9
E5564186 (9532803)		2.0	82	46.2
E5564187 (9532804)		2.1	97	45.0
E5564188 (9532805)		2.7	93	44.9

Certified By:



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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Yb	Zn	Zr
	Unit:	ppm	ppm	ppm
	RDL:	0.1	5	0.5
E5564189 (9532806)		2.2	106	48.2
E5564190 (9532807)		2.3	88	50.4
E5564191 (9532808)		0.1	<5	26.8
E5564192 (9532809)		2.0	82	47.1

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B383094

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Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 08, 2018 DATE RECEIVED: Sep 08, 2018 DATE REPORTED: Oct 04, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5564029 (9532646)		75
E5564030 (9532647)		86
E5564038 (9532655)		87
E5564048 (9532665)		91
E5564049 (9532666)		87
E5564068 (9532685)		84
E5564086 (9532703)		81
E5564108 (9532725)		79
E5564128 (9532745)		76
E5564130 (9532747)		75
E5564148 (9532765)		79
E5564168 (9532785)		84
E5564188 (9532805)		77

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9532646	2.98	3.01	1.0%	9532657	2.98	2.96	0.7%	9532670	3.08	3.11	1.0%	9532697	2.76	2.81	1.8%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9532710	3.06	3.00	2.0%	9532718	2.92	2.97	1.7%	9532729	2.98	2.91	2.4%	9532753	2.69	2.64	1.9%
	REPLICATE #9				REPLICATE #10											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Specific Gravity	9532769	3.10	3.03	2.3%	9532782	2.85	2.82	1.1%								

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9532646	223	208	7.0%	9532657	488	491	0.6%	9532670	268	257	4.2%	9532681	26300	26300	0.0%
Li2O	9532646	0.048	0.045	6.5%	9532657	0.105	0.106	0.9%	9532670	0.0578	0.0553	4.4%	9532681	5.67	5.66	0.2%
Ta	9532646	< 0.5	< 0.5	0.0%	9532657	< 0.5	< 0.5	0.0%	9532670	< 0.5	< 0.5	0.0%	9532681	129	138	6.7%
Nb	9532646	2	2	0.0%	9532657	3	2		9532670	2	2	0.0%	9532681	20	22	9.5%
Sn	9532646	< 1	< 1	0.0%	9532657	< 1	< 1	0.0%	9532670	< 1	< 1	0.0%	9532681	36	38	5.4%
Cs	9532646	15.4	13.2	15.4%	9532657	58.6	58.2	0.7%	9532670	1.1	1.0	9.5%	9532681	259	262	1.2%
Rb	9532646	21.5	19.4	10.3%	9532657	63.1	62.4	1.1%	9532670	2.10	2.01	4.4%	9532681	1840	1960	6.3%
K	9532646	0.248	0.230	7.5%	9532657	0.186	0.182	2.2%	9532670	0.06	0.07	15.4%	9532681	1.03	1.04	1.0%
Mg	9532646	2.22	2.26	1.8%	9532657	2.53	2.54	0.4%	9532670	5.12	4.94	3.6%	9532681	0.06	0.06	0.0%
Fe	9532646	7.57	7.11	6.3%	9532657	6.72	6.65	1.0%	9532670	8.22	8.12	1.2%	9532681	0.451	0.443	1.8%
P	9532646	0.037	0.031	17.6%	9532657	0.04	0.04	0.0%	9532670	0.03	0.03	0.0%	9532681	0.074	0.079	6.5%
Al	9532646	8.47	7.90	7.0%	9532657	8.65	8.60	0.6%	9532670	7.98	7.82	2.0%	9532681	12.4	12.3	0.8%
Si	9532646	24.3	22.9	5.9%	9532657	23.6	23.4	0.9%	9532670	23.2	22.9	1.3%	9532681	37.6	37.6	0.0%
Be	9532646	< 5	< 5	0.0%	9532657	< 5	< 5	0.0%	9532670	< 5	< 5	0.0%	9532681	< 5	< 5	0.0%
B	9532646	< 20	< 20	0.0%	9532657	< 20	< 20	0.0%	9532670	< 20	< 20	0.0%	9532681	20	19	5.1%
Mn	9532646	1850	1760	5.0%	9532657	1460	1460	0.0%	9532670	1400	1320	5.9%	9532681	1070	1070	0.0%
Mo	9532646	2	3		9532657	2	2	0.0%	9532670	< 2	< 2	0.0%	9532681	13	13	0.0%
Bi	9532646	0.3	0.3	0.0%	9532657	0.70	0.62	12.1%	9532670	< 0.1	< 0.1	0.0%	9532681	6.5	6.7	3.0%
As	9532646	6	< 5		9532657	< 5	8		9532670	< 5	< 5	0.0%	9532681	7	< 5	
Ag	9532646	< 1	< 1	0.0%	9532657	< 1	< 1	0.0%	9532670	< 1	< 1	0.0%	9532681	< 1	< 1	0.0%
Ba	9532646	146	138	5.6%	9532657	47.7	49.1	2.9%	9532670	24.0	23.1	3.8%	9532681	4.0	4.2	4.9%



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Ca	9532646	9.18	8.95	2.5%	9532657	7.86	7.75	1.4%	9532670	8.56	8.47	1.1%	9532681	0.187	0.184	1.6%
Cd	9532646	< 0.2	< 0.2	0.0%	9532657	< 0.2	< 0.2	0.0%	9532670	< 0.2	< 0.2	0.0%	9532681	< 0.2	< 0.2	0.0%
Ce	9532646	11.3	11.3	0.0%	9532657	7.34	7.43	1.2%	9532670	6.3	6.5	3.1%	9532681	0.1	< 0.1	
Co	9532646	56.8	57.7	1.6%	9532657	53.3	54.0	1.3%	9532670	53.9	55.4	2.7%	9532681	0.61	0.54	12.2%
Cr	9532646	0.038	0.038	0.0%	9532657	0.035	0.036	2.8%	9532670	0.029	0.029	0.0%	9532681	0.0200	0.0216	7.7%
Cu	9532646	173	163	6.0%	9532657	98	102	4.0%	9532670	158	143	10.0%	9532681	< 5	< 5	0.0%
Dy	9532646	3.20	3.33	4.0%	9532657	3.21	3.15	1.9%	9532670	2.92	2.96	1.4%	9532681	< 0.05	< 0.05	0.0%
Er	9532646	2.03	2.14	5.3%	9532657	2.01	2.09	3.9%	9532670	1.83	1.96	6.9%	9532681	< 0.05	< 0.05	0.0%
Eu	9532646	0.83	0.83	0.0%	9532657	0.77	0.80	3.8%	9532670	0.649	0.640	1.4%	9532681	< 0.05	< 0.05	0.0%
Ga	9532646	16.7	16.7	0.0%	9532657	18.1	18.6	2.7%	9532670	15.7	15.8	0.6%	9532681	67.8	67.7	0.1%
Gd	9532646	2.80	2.93	4.5%	9532657	2.63	2.69	2.3%	9532670	2.28	2.44	6.8%	9532681	< 0.05	< 0.05	0.0%
Ge	9532646	1	1	0.0%	9532657	2	2	0.0%	9532670	2	2	0.0%	9532681	12	11	8.7%
Hf	9532646	1	1	0.0%	9532657	1	1	0.0%	9532670	1	1	0.0%	9532681	< 1	< 1	0.0%
Ho	9532646	0.68	0.71	4.3%	9532657	0.661	0.686	3.7%	9532670	0.628	0.666	5.9%	9532681	< 0.05	< 0.05	0.0%
In	9532646	< 0.2	< 0.2	0.0%	9532657	< 0.2	< 0.2	0.0%	9532670	< 0.2	< 0.2	0.0%	9532681	< 0.2	< 0.2	0.0%
La	9532646	4.6	4.6	0.0%	9532657	2.85	2.88	1.0%	9532670	2.4	2.5	4.1%	9532681	< 0.1	< 0.1	0.0%
Lu	9532646	0.311	0.316	1.6%	9532657	0.31	0.31	0.0%	9532670	0.30	0.31	3.3%	9532681	< 0.05	< 0.05	0.0%
Nd	9532646	8.09	8.27	2.2%	9532657	6.1	6.1	0.0%	9532670	5.4	5.6	3.6%	9532681	< 0.1	< 0.1	0.0%
Ni	9532646	157	171	8.5%	9532657	130	139	6.7%	9532670	171	161	6.0%	9532681	12	7	52.6%
Pb	9532646	< 5	< 5	0.0%	9532657	< 5	< 5	0.0%	9532670	< 5	< 5	0.0%	9532681	< 5	< 5	0.0%
Pr	9532646	1.66	1.59	4.3%	9532657	1.15	1.14	0.9%	9532670	1.00	1.04	3.9%	9532681	< 0.05	< 0.05	0.0%
S	9532646	0.26	0.25	3.9%	9532657	0.12	0.13	8.0%	9532670	0.10	0.09	10.5%	9532681	< 0.01	< 0.01	0.0%
Sb	9532646	< 0.1	< 0.1	0.0%	9532657	0.1	0.1	0.0%	9532670	< 0.1	< 0.1	0.0%	9532681	0.32	0.38	17.1%
Sc	9532646	43	40	7.2%	9532657	43	44	2.3%	9532670	44	43	2.3%	9532681	< 5	< 5	0.0%
Sm	9532646	2.2	2.2	0.0%	9532657	1.94	2.16	10.7%	9532670	1.7	1.7	0.0%	9532681	< 0.1	< 0.1	0.0%
Sr	9532646	144	136	5.7%	9532657	119	118	0.8%	9532670	102	92.6	9.7%	9532681	28.4	30.5	7.1%
Tb	9532646	0.489	0.508	3.8%	9532657	0.48	0.47	2.1%	9532670	0.43	0.44	2.3%	9532681	< 0.05	< 0.05	0.0%
Th	9532646	0.47	0.43	8.9%	9532657	0.3	0.4	28.6%	9532670	0.25	0.25	0.0%	9532681	2.59	2.67	3.0%
Ti	9532646	0.532	0.502	5.8%	9532657	0.54	0.54	0.0%	9532670	0.480	0.475	1.0%	9532681	< 0.01	< 0.01	0.0%
Tl	9532646	< 0.5	< 0.5	0.0%	9532657	0.7	0.7	0.0%	9532670	< 0.5	< 0.5	0.0%	9532681	17.3	17.2	0.6%
Tm	9532646	0.30	0.33	9.5%	9532657	0.30	0.30	0.0%	9532670	0.28	0.28	0.0%	9532681	< 0.05	< 0.05	0.0%
U	9532646	0.116	0.102	12.8%	9532657	0.08	0.08	0.0%	9532670	0.07	0.06	15.4%	9532681	1.03	1.09	5.7%
V	9532646	308	287	7.1%	9532657	289	292	1.0%	9532670	284	270	5.1%	9532681	< 5	< 5	0.0%
W	9532646	< 1	< 1	0.0%	9532657	2	2	0.0%	9532670	< 1	< 1	0.0%	9532681	1	1	0.0%



CLIENT NAME: ARDIDEN LTD

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Y	9532646	18.8	18.7	0.5%	9532657	17.6	18.3	3.9%	9532670	17.6	18.0	2.2%	9532681	< 0.5	< 0.5	0.0%
Yb	9532646	2.03	2.06	1.5%	9532657	1.9	2.0	5.1%	9532670	1.88	1.95	3.7%	9532681	< 0.1	< 0.1	0.0%
Zn	9532646	76	75	1.3%	9532657	75	77	2.6%	9532670	82	89	8.2%	9532681	43	42	2.4%
Zr	9532646	45.9	44.5	3.1%	9532657	45.8	45.8	0.0%	9532670	40.6	41.3	1.7%	9532681	0.95	1.06	10.9%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9532697	10900	10900	0.0%	9532710	370	360	2.7%	9532718	732	700	4.5%	9532729	500	503	0.6%
Li2O	9532697	2.36	2.34	0.9%	9532710	0.0796	0.0775	2.7%	9532718	0.158	0.151	4.5%	9532729	0.108	0.108	0.0%
Ta	9532697	45.3	51.5	12.8%	9532710	< 0.5	< 0.5	0.0%	9532718	1.9	1.8	5.4%	9532729	< 0.5	< 0.5	0.0%
Nb	9532697	9	10	10.5%	9532710	2	2	0.0%	9532718	6	6	0.0%	9532729	2	3	
Sn	9532697	23	20	14.0%	9532710	< 1	< 1	0.0%	9532718	7	7	0.0%	9532729	3	2	40.0%
Cs	9532697	519	542	4.3%	9532710	9.8	9.6	2.1%	9532718	528	528	0.0%	9532729	273	267	2.2%
Rb	9532697	4050	4320	6.5%	9532710	23.1	22.7	1.7%	9532718	663	674	1.6%	9532729	543	538	0.9%
K	9532697	2.33	2.71	15.1%	9532710	0.19	0.19	0.0%	9532718	0.87	0.88	1.1%	9532729	0.86	0.86	0.0%
Mg	9532697	0.01	0.01	0.0%	9532710	2.84	2.76	2.9%	9532718	2.22	2.09	6.0%	9532729	1.93	1.96	1.5%
Fe	9532697	0.434	0.477	9.4%	9532710	9.39	9.19	2.2%	9532718	10.2	9.77	4.3%	9532729	8.99	8.99	0.0%
P	9532697	0.038	0.047	21.2%	9532710	0.03	0.03	0.0%	9532718	0.062	0.068	9.2%	9532729	0.04	0.04	0.0%
Al	9532697	7.64	8.17	6.7%	9532710	10.2	9.82	3.8%	9532718	9.82	9.53	3.0%	9532729	7.18	7.28	1.4%
Si	9532697	40.1	42.8	6.5%	9532710	28.5	28.1	1.4%	9532718	22.1	21.5	2.8%	9532729	28.5	28.5	0.0%
Be	9532697	< 5	< 5	0.0%	9532710	< 5	< 5	0.0%	9532718	11	11	0.0%	9532729	< 5	< 5	0.0%
B	9532697	< 20	< 20	0.0%	9532710	< 20	< 20	0.0%	9532718	33	42	24.0%	9532729	< 20	< 20	0.0%
Mn	9532697	687	686	0.1%	9532710	2050	1990	3.0%	9532718	2220	2160	2.7%	9532729	2080	2120	1.9%
Mo	9532697	12	15	22.2%	9532710	3	3	0.0%	9532718	7	5		9532729	8	9	11.8%
Bi	9532697	113	124	9.3%	9532710	0.3	0.3	0.0%	9532718	3.1	3.1	0.0%	9532729	6.25	6.42	2.7%
As	9532697	< 5	< 5	0.0%	9532710	< 5	< 5	0.0%	9532718	< 5	< 5	0.0%	9532729	< 5	< 5	0.0%
Ag	9532697	< 1	< 1	0.0%	9532710	< 1	< 1	0.0%	9532718	< 1	< 1	0.0%	9532729	< 1	< 1	0.0%
Ba	9532697	4.39	4.57	4.0%	9532710	59.7	57.9	3.1%	9532718	214	227	5.9%	9532729	136	133	2.2%
Ca	9532697	0.109	0.116	6.2%	9532710	10.5	10.4	1.0%	9532718	5.81	5.61	3.5%	9532729	4.50	4.42	1.8%
Cd	9532697	< 0.2	< 0.2	0.0%	9532710	0.2	0.2	0.0%	9532718	0.3	0.3	0.0%	9532729	< 0.2	< 0.2	0.0%
Ce	9532697	< 0.1	< 0.1	0.0%	9532710	7.41	7.34	0.9%	9532718	13.0	12.6	3.1%	9532729	8.8	8.7	1.1%
Co	9532697	0.5	1.0		9532710	54.2	53.0	2.2%	9532718	67.7	66.1	2.4%	9532729	46.7	46.4	0.6%
Cr	9532697	0.021	0.029		9532710	0.042	0.042	0.0%	9532718	0.030	0.028	6.9%	9532729	0.0316	0.0311	1.6%
Cu	9532697	< 5	< 5	0.0%	9532710	155	158	1.9%	9532718	85	94	10.1%	9532729	172	174	1.2%
Dy	9532697	< 0.05	< 0.05	0.0%	9532710	3.16	3.23	2.2%	9532718	5.66	5.27	7.1%	9532729	3.61	3.66	1.4%



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Er	9532697	< 0.05	< 0.05	0.0%	9532710	2.13	2.08	2.4%	9532718	3.70	3.44	7.3%	9532729	2.45	2.29	6.8%
Eu	9532697	< 0.05	< 0.05	0.0%	9532710	0.695	0.746	7.1%	9532718	1.09	1.08	0.9%	9532729	0.724	0.752	3.8%
Ga	9532697	41.2	39.6	4.0%	9532710	17.8	17.6	1.1%	9532718	23.4	22.6	3.5%	9532729	16.8	16.7	0.6%
Gd	9532697	< 0.05	< 0.05	0.0%	9532710	2.56	2.57	0.4%	9532718	4.40	4.32	1.8%	9532729	3.01	2.98	1.0%
Ge	9532697	8	8	0.0%	9532710	2	2	0.0%	9532718	2	2	0.0%	9532729	1	1	0.0%
Hf	9532697	< 1	< 1	0.0%	9532710	1	1	0.0%	9532718	3	3	0.0%	9532729	2	2	0.0%
Ho	9532697	< 0.05	< 0.05	0.0%	9532710	0.73	0.70	4.2%	9532718	1.24	1.13	9.3%	9532729	0.782	0.797	1.9%
In	9532697	< 0.2	< 0.2	0.0%	9532710	< 0.2	< 0.2	0.0%	9532718	< 0.2	< 0.2	0.0%	9532729	< 0.2	< 0.2	0.0%
La	9532697	< 0.1	< 0.1	0.0%	9532710	2.83	2.86	1.1%	9532718	4.8	4.7	2.1%	9532729	3.47	3.43	1.2%
Lu	9532697	< 0.05	< 0.05	0.0%	9532710	0.32	0.33	3.1%	9532718	0.588	0.534	9.6%	9532729	0.36	0.38	5.4%
Nd	9532697	< 0.1	< 0.1	0.0%	9532710	6.0	6.0	0.0%	9532718	10.5	10.2	2.9%	9532729	6.96	7.15	2.7%
Ni	9532697	9	9	0.0%	9532710	162	156	3.8%	9532718	125	123	1.6%	9532729	82	77	6.3%
Pb	9532697	7	10		9532710	< 5	< 5	0.0%	9532718	9	6	40.0%	9532729	< 5	< 5	0.0%
Pr	9532697	< 0.05	< 0.05	0.0%	9532710	1.19	1.11	7.0%	9532718	1.99	1.96	1.5%	9532729	1.33	1.33	0.0%
S	9532697	< 0.01	< 0.01	0.0%	9532710	0.098	0.090	8.5%	9532718	0.106	0.103	2.9%	9532729	0.32	0.32	0.0%
Sb	9532697	1.4	1.4	0.0%	9532710	0.3	0.3	0.0%	9532718	0.7	0.6	15.4%	9532729	0.46	0.42	9.1%
Sc	9532697	< 5	< 5	0.0%	9532710	51	50	2.0%	9532718	54	53	1.9%	9532729	30	30	0.0%
Sm	9532697	< 0.1	< 0.1	0.0%	9532710	1.96	1.89	3.6%	9532718	3.54	3.25	8.5%	9532729	2.12	2.16	1.9%
Sr	9532697	43.9	53.9	20.4%	9532710	147	142	3.5%	9532718	109	109	0.0%	9532729	68.8	68.5	0.4%
Tb	9532697	< 0.05	< 0.05	0.0%	9532710	0.443	0.477	7.4%	9532718	0.86	0.79	8.5%	9532729	0.559	0.525	6.3%
Th	9532697	0.9	0.6		9532710	0.4	0.4	0.0%	9532718	0.8	0.7	13.3%	9532729	0.4	0.4	0.0%
Ti	9532697	< 0.01	< 0.01	0.0%	9532710	0.62	0.61	1.6%	9532718	0.896	0.869	3.1%	9532729	0.57	0.57	0.0%
Tl	9532697	44.9	50.7	12.1%	9532710	< 0.5	< 0.5	0.0%	9532718	6.3	6.2	1.6%	9532729	6.3	6.6	4.7%
Tm	9532697	< 0.05	< 0.05	0.0%	9532710	0.331	0.304	8.5%	9532718	0.566	0.545	3.8%	9532729	0.332	0.347	4.4%
U	9532697	0.65	0.58	11.4%	9532710	0.101	0.108	6.7%	9532718	0.334	0.294	12.7%	9532729	0.322	0.331	2.8%
V	9532697	< 5	< 5	0.0%	9532710	327	321	1.9%	9532718	393	386	1.8%	9532729	279	284	1.8%
W	9532697	< 1	1		9532710	< 1	< 1	0.0%	9532718	< 1	< 1	0.0%	9532729	< 1	< 1	0.0%
Y	9532697	< 0.5	< 0.5	0.0%	9532710	19.2	18.8	2.1%	9532718	31.3	30.0	4.2%	9532729	21.3	21.4	0.5%
Yb	9532697	< 0.1	< 0.1	0.0%	9532710	2.1	2.0	4.9%	9532718	3.79	3.50	8.0%	9532729	2.3	2.3	0.0%
Zn	9532697	54	57	5.4%	9532710	91	94	3.2%	9532718	147	138	6.3%	9532729	70	69	1.4%
Zr	9532697	0.9	0.8	11.8%	9532710	47.3	47.3	0.0%	9532718	90.1	87.3	3.2%	9532729	54.0	54.5	0.9%
		REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12		
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9532742	662	744	11.7%	9532753	4490	4430	1.3%	9532769	25200	24500	2.8%	9532782	14200	14600	2.8%



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Li2O	9532742	0.143	0.160	11.2%	9532753	0.966	0.953	1.4%	9532769	5.43	5.27	3.0%	9532782	3.06	3.13	2.3%
Ta	9532742	29.8	21.7	31.5%	9532753	107	109	1.9%	9532769	38.9	39.4	1.3%	9532782	172	177	2.9%
Nb	9532742	10	8	22.2%	9532753	34	34	0.0%	9532769	16	18	11.8%	9532782	37	43	15.0%
Sn	9532742	5	4	22.2%	9532753	13	13	0.0%	9532769	29	27	7.1%	9532782	17	16	6.1%
Cs	9532742	149	170	13.2%	9532753	481	486	1.0%	9532769	527	525	0.4%	9532782	589	558	5.4%
Rb	9532742	782	910	15.1%	9532753	5010	5160	2.9%	9532769	1390	1370	1.4%	9532782	1750	1770	1.1%
K	9532742	1.18	1.43	19.2%	9532753	3.35	3.35	0.0%	9532769	0.93	0.98	5.2%	9532782	0.67	0.67	0.0%
Mg	9532742	3.13	2.98	4.9%	9532753	0.03	0.03	0.0%	9532769	0.341	0.359	5.1%	9532782	0.03	0.03	0.0%
Fe	9532742	8.74	8.04	8.3%	9532753	0.221	0.231	4.4%	9532769	1.05	0.991	5.8%	9532782	0.449	0.457	1.8%
P	9532742	0.05	0.07		9532753	0.09	0.09	0.0%	9532769	0.09	0.10	10.5%	9532782	0.075	0.078	3.9%
Al	9532742	10.5	10.4	1.0%	9532753	8.30	8.21	1.1%	9532769	12.4	12.3	0.8%	9532782	10.3	10.5	1.9%
Si	9532742	27.2	27.4	0.7%	9532753	36.9	36.8	0.3%	9532769	33.5	33.4	0.3%	9532782	34.9	35.5	1.7%
Be	9532742	17	13	26.7%	9532753	7	6	15.4%	9532769	16	18	11.8%	9532782	152	152	0.0%
B	9532742	30	30	0.0%	9532753	< 20	< 20	0.0%	9532769	37	36	2.7%	9532782	< 20	< 20	0.0%
Mn	9532742	2400	2220	7.8%	9532753	497	485	2.4%	9532769	1260	1250	0.8%	9532782	877	887	1.1%
Mo	9532742	6	6	0.0%	9532753	12	12	0.0%	9532769	20	17	16.2%	9532782	20	20	0.0%
Bi	9532742	1.9	1.3		9532753	57.2	64.8	12.5%	9532769	1.23	1.32	7.1%	9532782	4.8	4.7	2.1%
As	9532742	< 5	< 5	0.0%	9532753	< 5	< 5	0.0%	9532769	< 5	< 5	0.0%	9532782	< 5	< 5	0.0%
Ag	9532742	< 1	< 1	0.0%	9532753	< 1	< 1	0.0%	9532769	< 1	< 1	0.0%	9532782	< 1	< 1	0.0%
Ba	9532742	130	154	16.9%	9532753	9.91	9.65	2.7%	9532769	33.8	40.1	17.1%	9532782	3.90	5.25	29.5%
Ca	9532742	5.13	4.76	7.5%	9532753	0.196	0.194	1.0%	9532769	0.262	0.275	4.8%	9532782	0.20	0.20	0.0%
Cd	9532742	0.4	0.4	0.0%	9532753	< 0.2	< 0.2	0.0%	9532769	< 0.2	< 0.2	0.0%	9532782	0.2	0.2	0.0%
Ce	9532742	16.9	20.2	17.8%	9532753	< 0.1	< 0.1	0.0%	9532769	0.79	0.73	7.9%	9532782	0.1	0.1	0.0%
Co	9532742	61.8	60.1	2.8%	9532753	0.6	0.6	0.0%	9532769	1.05	1.05	0.0%	9532782	0.89	0.82	8.2%
Cr	9532742	0.046	0.046	0.0%	9532753	0.019	0.019	0.0%	9532769	0.031	0.027	13.8%	9532782	0.028	0.028	0.0%
Cu	9532742	243	190	24.5%	9532753	< 5	< 5	0.0%	9532769	< 5	< 5	0.0%	9532782	< 5	< 5	0.0%
Dy	9532742	3.65	3.68	0.8%	9532753	< 0.05	< 0.05	0.0%	9532769	0.083	0.085	2.4%	9532782	< 0.05	< 0.05	0.0%
Er	9532742	2.17	2.26	4.1%	9532753	< 0.05	< 0.05	0.0%	9532769	< 0.05	< 0.05	0.0%	9532782	< 0.05	< 0.05	0.0%
Eu	9532742	0.89	1.07	18.4%	9532753	< 0.05	< 0.05	0.0%	9532769	< 0.05	< 0.05	0.0%	9532782	< 0.05	< 0.05	0.0%
Ga	9532742	23.8	22.5	5.6%	9532753	32.7	33.7	3.0%	9532769	88.1	83.7	5.1%	9532782	57.2	57.7	0.9%
Gd	9532742	3.27	3.90	17.6%	9532753	< 0.05	< 0.05	0.0%	9532769	0.09	0.08	11.8%	9532782	< 0.05	< 0.05	0.0%
Ge	9532742	2	2	0.0%	9532753	7	7	0.0%	9532769	6	6	0.0%	9532782	8	8	0.0%
Hf	9532742	2	2	0.0%	9532753	1	2		9532769	< 1	1		9532782	10	8	22.2%
Ho	9532742	0.742	0.757	2.0%	9532753	< 0.05	< 0.05	0.0%	9532769	< 0.05	< 0.05	0.0%	9532782	< 0.05	< 0.05	0.0%



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In	9532742	< 0.2	< 0.2	0.0%	9532753	< 0.2	< 0.2	0.0%	9532769	< 0.2	< 0.2	0.0%	9532782	< 0.2	< 0.2	0.0%	
La	9532742	7.1	8.7	20.3%	9532753	< 0.1	< 0.1	0.0%	9532769	0.4	0.4	0.0%	9532782	< 0.1	< 0.1	0.0%	
Lu	9532742	0.348	0.322	7.8%	9532753	< 0.05	< 0.05	0.0%	9532769	< 0.05	< 0.05	0.0%	9532782	< 0.05	< 0.05	0.0%	
Nd	9532742	10.5	12.5	17.4%	9532753	< 0.1	< 0.1	0.0%	9532769	0.3	0.3	0.0%	9532782	< 0.1	< 0.1	0.0%	
Ni	9532742	162	179	10.0%	9532753	13	9	36.4%	9532769	9	9	0.0%	9532782	8	8	0.0%	
Pb	9532742	< 5	< 5	0.0%	9532753	8	8	0.0%	9532769	< 5	< 5	0.0%	9532782	< 5	< 5	0.0%	
Pr	9532742	2.32	2.76	17.3%	9532753	< 0.05	< 0.05	0.0%	9532769	0.086	0.081	6.0%	9532782	< 0.05	< 0.05	0.0%	
S	9532742	0.181	0.141	24.8%	9532753	< 0.01	< 0.01	0.0%	9532769	< 0.01	< 0.01	0.0%	9532782	< 0.01	< 0.01	0.0%	
Sb	9532742	0.1	0.2		9532753	1.05	1.05	0.0%	9532769	1.0	0.5		9532782	1.3	1.3	0.0%	
Sc	9532742	60	57	5.1%	9532753	< 5	< 5	0.0%	9532769	< 5	< 5	0.0%	9532782	< 5	< 5	0.0%	
Sm	9532742	2.9	3.6	21.5%	9532753	< 0.1	< 0.1	0.0%	9532769	< 0.1	< 0.1	0.0%	9532782	< 0.1	< 0.1	0.0%	
Sr	9532742	99.4	104	4.5%	9532753	64.6	65.3	1.1%	9532769	30.6	29.2	4.7%	9532782	31.0	31.1	0.3%	
Tb	9532742	0.53	0.62	15.7%	9532753	< 0.05	< 0.05	0.0%	9532769	< 0.05	< 0.05	0.0%	9532782	< 0.05	< 0.05	0.0%	
Th	9532742	1.43	1.52	6.1%	9532753	2.8	2.9	3.5%	9532769	2.3	2.6	12.2%	9532782	13.2	13.5	2.2%	
Ti	9532742	0.604	0.615	1.8%	9532753	< 0.01	< 0.01	0.0%	9532769	< 0.01	< 0.01	0.0%	9532782	< 0.01	< 0.01	0.0%	
Tl	9532742	6.20	6.85	10.0%	9532753	66.1	67.3	1.8%	9532769	11.1	11.0	0.9%	9532782	16.1	15.8	1.9%	
Tm	9532742	0.34	0.33	3.0%	9532753	< 0.05	< 0.05	0.0%	9532769	< 0.05	< 0.05	0.0%	9532782	< 0.05	< 0.05	0.0%	
U	9532742	1.83	1.53	17.9%	9532753	3.43	3.54	3.2%	9532769	5.02	4.81	4.3%	9532782	37.3	36.2	3.0%	
V	9532742	337	337	0.0%	9532753	< 5	< 5	0.0%	9532769	7	6	15.4%	9532782	< 5	< 5	0.0%	
W	9532742	< 1	< 1	0.0%	9532753	< 1	< 1	0.0%	9532769	1	1	0.0%	9532782	2	2	0.0%	
Y	9532742	19.0	19.1	0.5%	9532753	< 0.5	< 0.5	0.0%	9532769	0.55	0.57	3.6%	9532782	< 0.5	< 0.5	0.0%	
Yb	9532742	2.2	2.2	0.0%	9532753	< 0.1	< 0.1	0.0%	9532769	< 0.1	< 0.1	0.0%	9532782	< 0.1	< 0.1	0.0%	
Zn	9532742	212	193	9.4%	9532753	30	29	3.4%	9532769	30	31	3.3%	9532782	53	53	0.0%	
Zr	9532742	53.1	54.5	2.6%	9532753	5.8	6.8	15.9%	9532769	6.42	8.20	24.4%	9532782	72.1	61.9	15.2%	
	REPLICATE #13					REPLICATE #14											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Li	9532790	4750	4190	12.5%	9532801	143	137	4.3%									
Li2O	9532790	1.02	0.901	12.4%	9532801	0.0308	0.0294	4.7%									
Ta	9532790	122	119	2.5%	9532801	207	215	3.8%									
Nb	9532790	53	46	14.1%	9532801	60	67	11.0%									
Sn	9532790	26	26	0.0%	9532801	10	9	10.5%									
Cs	9532790	804	801	0.4%	9532801	36.3	36.7	1.1%									
Rb	9532790	2320	2200	5.3%	9532801	278	282	1.4%									
K	9532790	1.15	1.08	6.3%	9532801	0.340	0.322	5.4%									



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Mg	9532790	0.04	0.04	0.0%	9532801	0.12	0.12	0.0%									
Fe	9532790	0.365	0.345	5.6%	9532801	0.507	0.499	1.6%									
P	9532790	0.13	0.13	0.0%	9532801	0.07	0.07	0.0%									
Al	9532790	8.42	8.20	2.6%	9532801	9.35	8.92	4.7%									
Si	9532790	40.1	39.9	0.5%	9532801	37.3	36.3	2.7%									
Be	9532790	99	120	19.2%	9532801	94	95	1.1%									
B	9532790	24	23	4.3%	9532801	< 20	< 20	0.0%									
Mn	9532790	935	879	6.2%	9532801	616	629	2.1%									
Mo	9532790	16	16	0.0%	9532801	11	11	0.0%									
Bi	9532790	4.6	3.2		9532801	3.7	3.7	0.0%									
As	9532790	< 5	< 5	0.0%	9532801	< 5	< 5	0.0%									
Ag	9532790	< 1	< 1	0.0%	9532801	< 1	< 1	0.0%									
Ba	9532790	2.5	2.5	0.0%	9532801	10.3	9.44	8.7%									
Ca	9532790	0.297	0.284	4.5%	9532801	0.877	0.824	6.2%									
Cd	9532790	< 0.2	0.3		9532801	< 0.2	< 0.2	0.0%									
Ce	9532790	< 0.1	< 0.1	0.0%	9532801	1.0	1.0	0.0%									
Co	9532790	1.0	1.0	0.0%	9532801	4.03	4.19	3.9%									
Cr	9532790	0.0242	0.0250	3.3%	9532801	0.018	0.018	0.0%									
Cu	9532790	< 5	< 5	0.0%	9532801	28	27	3.6%									
Dy	9532790	< 0.05	< 0.05	0.0%	9532801	0.27	0.24	11.8%									
Er	9532790	< 0.05	< 0.05	0.0%	9532801	0.147	0.131	11.5%									
Eu	9532790	< 0.05	< 0.05	0.0%	9532801	0.13	0.13	0.0%									
Ga	9532790	45.1	45.2	0.2%	9532801	36.8	38.0	3.2%									
Gd	9532790	< 0.05	< 0.05	0.0%	9532801	0.344	0.357	3.7%									
Ge	9532790	6	7	15.4%	9532801	7	7	0.0%									
Hf	9532790	1	2		9532801	5	5	0.0%									
Ho	9532790	< 0.05	< 0.05	0.0%	9532801	0.05	0.05	0.0%									
In	9532790	< 0.2	< 0.2	0.0%	9532801	< 0.2	< 0.2	0.0%									
La	9532790	< 0.1	< 0.1	0.0%	9532801	0.4	0.4	0.0%									
Lu	9532790	< 0.05	< 0.05	0.0%	9532801	< 0.05	< 0.05	0.0%									
Nd	9532790	< 0.1	< 0.1	0.0%	9532801	1.0	1.0	0.0%									
Ni	9532790	8	10	22.2%	9532801	13	16	20.7%									
Pb	9532790	< 5	< 5	0.0%	9532801	< 5	< 5	0.0%									
Pr	9532790	< 0.05	< 0.05	0.0%	9532801	0.18	0.17	5.7%									



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S	9532790	< 0.01	< 0.01	0.0%	9532801	< 0.01	< 0.01	0.0%											
Sb	9532790	0.7	0.6	15.4%	9532801	0.56	0.65	14.9%											
Sc	9532790	< 5	< 5	0.0%	9532801	< 5	< 5	0.0%											
Sm	9532790	< 0.1	< 0.1	0.0%	9532801	0.26	0.24	8.0%											
Sr	9532790	39.1	37.9	3.1%	9532801	24.1	22.4	7.3%											
Tb	9532790	< 0.05	< 0.05	0.0%	9532801	< 0.05	< 0.05	0.0%											
Th	9532790	5.03	3.84	26.8%	9532801	4.92	5.01	1.8%											
Ti	9532790	< 0.01	< 0.01	0.0%	9532801	0.03	0.03	0.0%											
Tl	9532790	20.3	19.3	5.1%	9532801	1.8	1.8	0.0%											
Tm	9532790	< 0.05	< 0.05	0.0%	9532801	< 0.05	< 0.05	0.0%											
U	9532790	6.71	6.57	2.1%	9532801	5.71	5.68	0.5%											
V	9532790	< 5	< 5	0.0%	9532801	10	10	0.0%											
W	9532790	3	2		9532801	< 1	1												
Y	9532790	< 0.5	< 0.5	0.0%	9532801	1.6	1.6	0.0%											
Yb	9532790	< 0.1	< 0.1	0.0%	9532801	0.1	0.1	0.0%											
Zn	9532790	104	99	4.9%	9532801	19	18	5.4%											
Zr	9532790	9.5	12.4	26.5%	9532801	37.4	39.6	5.7%											



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(201-049) Specific Gravity by Pycnometer

	CRM #1				CRM #2				CRM #3				CRM #4			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.61	98%	95% - 110%	2.65	2.71	102%	95% - 110%	2.65	2.61	98%	95% - 110%	2.65	2.63	99%	95% - 110%
	CRM #5				CRM #6				CRM #7				CRM #8			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.71	102%	95% - 110%	2.65	2.65	100%	95% - 110%	2.65	2.62	98%	95% - 110%
	CRM #9				CRM #10											
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Specific Gravity	2.65	2.67	100%	95% - 110%	2.65	2.68	101%	95% - 110%								

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GBM998-10)				CRM #4 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	40	108%	90% - 110%	47	47	100%	90% - 110%					37	36	98%	90% - 110%
Ta	0.9	0.8	86%	90% - 110%	1.9	1.6	83%	90% - 110%					0.9	0.9	99%	90% - 110%
Nb	13	13	100%	90% - 110%	20	18	90%	90% - 110%					13	13	97%	90% - 110%
Cs	1.5	1.5	99%	90% - 110%									1.5	1.5	99%	90% - 110%
Rb	55	54	98%	90% - 110%	144	141	98%	90% - 110%					55	59	108%	90% - 110%
K	1.37	1.41	103%	90% - 110%	2.55	2.54	99%	90% - 110%					1.37	1.46	107%	90% - 110%
Mg	0.325	0.322	99%	90% - 110%	1.1	1.1	100%	90% - 110%					0.325	0.298	92%	90% - 110%
Fe	4.34	4.04	93%	90% - 110%	3.77	3.85	102%	90% - 110%					4.34	4.61	106%	90% - 110%
Al	10.95	10.57	96%	90% - 110%	8.47	8.33	98%	90% - 110%					10.95	11.64	106%	90% - 110%
Si	23.3	22.5	97%	90% - 110%	28.4	28.9	102%	90% - 110%					23.3	25	107%	90% - 110%
Be	2.6	2.8	109%	90% - 110%	4.0	3.4	85%	90% - 110%					2.6	2.8	108%	90% - 110%
Mn	836	803	96%	90% - 110%	780	754	97%	90% - 110%					836	842	101%	90% - 110%
Mo					14	13	91%	90% - 110%								
As					26	24	91%	90% - 110%	25	28	113%	90% - 110%				
Ba	340	343	101%	90% - 110%	540	516	96%	90% - 110%					340	346	102%	90% - 110%
Ca	5.72	5.67	99%	90% - 110%	0.907	0.919	101%	90% - 110%					5.72	6.11	107%	90% - 110%
Ce	122	122	100%	90% - 110%	98	100	102%	90% - 110%					122	126	103%	90% - 110%
Co	2.8	2.5	88%	90% - 110%	15	14	91%	90% - 110%	1202	1312	109%	90% - 110%	2.8	2.4	87%	90% - 110%
Cu					150	146	98%	90% - 110%	15414	15883	103%	90% - 110%				
Dy	18.2	19.4	107%	90% - 110%									18.2	19.7	108%	90% - 110%
Er	14.2	14.8	105%	90% - 110%	3.7	3.9	106%	90% - 110%					14.2	15.4	108%	90% - 110%



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Eu	2.0	2	102%	90% - 110%									2.0	2.1	106%	90% - 110%
Ga	35	36	103%	90% - 110%									35	38	109%	90% - 110%
Gd	14	15	104%	90% - 110%									14	15	110%	90% - 110%
Hf	10.6	10.9	103%	90% - 110%	11	10	90%	90% - 110%					10.6	11.6	110%	90% - 110%
Ho	4.3	4.4	103%	90% - 110%									4.3	4.6	108%	90% - 110%
La	58	58	100%	90% - 110%	44	45	102%	90% - 110%					58	61	105%	90% - 110%
Lu	2.1	2.1	101%	90% - 110%	0.6	0.6	93%	90% - 110%					2.1	2.2	105%	90% - 110%
Nd	57	61	106%	90% - 110%									57	62	110%	90% - 110%
Ni	9	9	102%	90% - 110%	32	38	119%	90% - 110%	23610	25011	106%	90% - 110%	9	9	104%	90% - 110%
Pb	10	10	96%	90% - 110%	31	31	100%	90% - 110%	41	43	104%	90% - 110%	10	10	96%	90% - 110%
Pr	15.0	15.1	101%	90% - 110%									15.0	15.6	104%	90% - 110%
Sb					0.8	0.8	102%	90% - 110%								
Sc					12	11	93%	90% - 110%								
Sm	12.7	13.1	103%	90% - 110%	7.4	7.9	107%	90% - 110%					12.7	13.6	107%	90% - 110%
Sr	1191	1220	102%	90% - 110%	144	147	102%	90% - 110%					1191	1228	103%	90% - 110%
Tb	2.6	2.7	105%	90% - 110%	1.2	1.2	98%	90% - 110%					2.6	2.9	110%	90% - 110%
Th	1.4	1.3	95%	90% - 110%	18.4	18.6	101%	90% - 110%					1.4	1.4	101%	90% - 110%
Ti	0.172	0.17	99%	90% - 110%	0.527	0.512	97%	90% - 110%					0.172	0.18	105%	90% - 110%
Tm	2.3	2.3	101%	90% - 110%									2.3	2.5	108%	90% - 110%
U	0.8	0.8	103%	90% - 110%	5.7	5.1	90%	90% - 110%								
V	8	6	74%	90% - 110%	77	74	96%	90% - 110%								
W					5	5	98%	90% - 110%								
Y	119	122	103%	90% - 110%	40	37	93%	90% - 110%					119	130	109%	90% - 110%
Yb	14.8	15.6	105%	90% - 110%									14.8	15.8	106%	90% - 110%
Zn	93	92	99%	90% - 110%	130	125	96%	90% - 110%	90	90	101%	90% - 110%	93	97	104%	90% - 110%
Zr	517	540	104%	90% - 110%	390	353	91%	90% - 110%					517	608	118%	90% - 110%
	CRM #5 (ref.Till-2)				CRM #6 (ref.SY-4)				CRM #7 (ref.Till-2)				CRM #8 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	47	51	109%	90% - 110%	37	37	101%	90% - 110%	47	49	105%	90% - 110%	37	40	109%	90% - 110%
Ta	1.9	1.8	93%	90% - 110%	0.9	0.8	84%	90% - 110%	1.9	1.8	97%	90% - 110%	0.9	0.8	92%	90% - 110%
Nb	20	19	96%	90% - 110%	13	14	107%	90% - 110%	20	18	91%	90% - 110%	13	14	106%	90% - 110%
Sn													7.1	9.1	129%	90% - 110%
Rb	144	152	105%	90% - 110%	55	56	102%	90% - 110%	144	148	103%	90% - 110%	55	56	102%	90% - 110%
K	2.55	2.77	109%	90% - 110%	1.37	1.48	108%	90% - 110%	2.55	2.69	105%	90% - 110%	1.37	1.45	106%	90% - 110%



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Mg	1.1	1.2	107%	90% - 110%	0.325	0.334	103%	90% - 110%	1.1	1.2	109%	90% - 110%	0.325	0.326	100%	90% - 110%
Fe	3.77	4.12	109%	90% - 110%	4.34	4.75	110%	90% - 110%	3.77	4.12	109%	90% - 110%	4.34	4.63	107%	90% - 110%
Al	8.47	9.28	110%	90% - 110%	10.95	11.93	109%	90% - 110%	8.47	9.11	108%	90% - 110%	10.95	11.33	103%	90% - 110%
Si	28.4	31.1	109%	90% - 110%	23.3	25.6	110%	90% - 110%	28.4	31.2	110%	90% - 110%	23.3	24.7	106%	90% - 110%
Be	4.0	3.8	95%	90% - 110%	2.6	3.1	119%	90% - 110%	4.0	3.6	90%	90% - 110%	2.6	3	116%	90% - 110%
Mn	780	816	105%	90% - 110%	836	884	106%	90% - 110%	780	829	106%	90% - 110%	836	811	97%	90% - 110%
Mo	14	14	100%	90% - 110%					14	14	99%	90% - 110%				
As	26	25	95%	90% - 110%					26	24	93%	90% - 110%				
Ba	540	563	104%	90% - 110%	340	365	107%	90% - 110%	540	581	108%	90% - 110%	340	345	101%	90% - 110%
Ca	0.907	0.981	108%	90% - 110%	5.72	5.71	100%	90% - 110%	0.907	0.974	107%	90% - 110%	5.72	5.65	99%	90% - 110%
Ce	98	107	109%	90% - 110%	122	127	104%	90% - 110%	98	104	106%	90% - 110%	122	121	99%	90% - 110%
Co	15	15	100%	90% - 110%	2.8	2.6	93%	90% - 110%	15	14	95%	90% - 110%	2.8	2.4	86%	90% - 110%
Cu	150	163	109%	90% - 110%					150	164	109%	90% - 110%				
Dy					18.2	19.7	108%	90% - 110%					18.2	19.2	105%	90% - 110%
Er	3.7	4	109%	90% - 110%	14.2	15.4	108%	90% - 110%	3.7	3.8	104%	90% - 110%	14.2	14.8	104%	90% - 110%
Eu					2.0	2	101%	90% - 110%					2.0	2	99%	90% - 110%
Ga					35	38	108%	90% - 110%					35	36	104%	90% - 110%
Gd					14	15	109%	90% - 110%					14	15	104%	90% - 110%
Hf	11	11	104%	90% - 110%	10.6	11.3	106%	90% - 110%	11	10	94%	90% - 110%	10.6	11.1	105%	90% - 110%
Ho					4.3	4.7	108%	90% - 110%					4.3	4.4	102%	90% - 110%
La	44	48	110%	90% - 110%	58	59	102%	90% - 110%	44	47	107%	90% - 110%	58	58	101%	90% - 110%
Lu	0.6	0.6	97%	90% - 110%	2.1	2.3	109%	90% - 110%	0.6	0.5	91%	90% - 110%	2.1	2.2	102%	90% - 110%
Nd					57	62	109%	90% - 110%					57	59	104%	90% - 110%
Ni	32	38	118%	90% - 110%	9	9	104%	90% - 110%					9	8	87%	90% - 110%
Pb	31	31	101%	90% - 110%	10	10	95%	90% - 110%	31	33	105%	90% - 110%	10	10	99%	90% - 110%
Pr					15.0	15.5	103%	90% - 110%					15.0	14.7	98%	90% - 110%
Sb	0.8	0.7	92%	90% - 110%					0.8	0.8	98%	90% - 110%				
Sc	12	13	104%	90% - 110%					12	13	105%	90% - 110%				
Sm	7.4	8	109%	90% - 110%	12.7	13.3	105%	90% - 110%	7.4	8.1	110%	90% - 110%	12.7	12.8	101%	90% - 110%
Sr	144	157	109%	90% - 110%	1191	1304	109%	90% - 110%	144	157	109%	90% - 110%	1191	1253	105%	90% - 110%
Tb	1.2	1.2	100%	90% - 110%	2.6	2.8	109%	90% - 110%	1.2	1.2	100%	90% - 110%	2.6	2.8	107%	90% - 110%
Th	18.4	20.2	110%	90% - 110%	1.4	1.3	90%	90% - 110%	18.4	19.1	104%	90% - 110%	1.4	1.5	108%	90% - 110%
Ti	0.527	0.574	109%	90% - 110%	0.172	0.183	106%	90% - 110%	0.527	0.569	108%	90% - 110%	0.172	0.178	103%	90% - 110%
Tm					2.3	2.5	108%	90% - 110%					2.3	2.3	100%	90% - 110%



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U	5.7	5.4	95%	90% - 110%	0.8	0.8	101%	90% - 110%	5.7	5.2	92%	90% - 110%	0.8	0.8	105%	90% - 110%	
V	77	81	105%	90% - 110%					77	84	109%	90% - 110%					
W	5	5	109%	90% - 110%					5	5	101%	90% - 110%					
Y	40	40	99%	90% - 110%	119	129	109%	90% - 110%	40	36	91%	90% - 110%	119	123	103%	90% - 110%	
Yb					14.8	16	108%	90% - 110%					14.8	15.6	105%	90% - 110%	
Zn	130	136	105%	90% - 110%	93	100	107%	90% - 110%	130	141	109%	90% - 110%	93	100	107%	90% - 110%	
Zr	390	410	105%	90% - 110%	517	556	107%	90% - 110%	390	369	95%	90% - 110%	517	549	106%	90% - 110%	
	CRM #9 (ref.GBM998-10)				CRM #10 (ref.SY-4)												
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits									
Li					37	40	108%	90% - 110%									
Ta					0.9	0.8	92%	90% - 110%									
Nb					13	14	109%	90% - 110%									
Cs					1.5	1.6	106%	90% - 110%									
Rb					55	56	102%	90% - 110%									
K					1.37	1.50	109%	90% - 110%									
Mg					0.325	0.346	106%	90% - 110%									
Fe					4.34	4.77	110%	90% - 110%									
Al					10.95	11.94	109%	90% - 110%									
Si					23.3	25.5	110%	90% - 110%									
Be					2.6	3	116%	90% - 110%									
Mn					836	862	103%	90% - 110%									
As	25	25	101%	90% - 110%													
Ba					340	370	109%	90% - 110%									
Ca					5.72	6.05	106%	90% - 110%									
Ce					122	123	101%	90% - 110%									
Co	1202	1232	103%	90% - 110%	2.8	2.5	90%	90% - 110%									
Cu	15414	15391	100%	90% - 110%													
Dy					18.2	19.1	105%	90% - 110%									
Er					14.2	15	106%	90% - 110%									
Eu					2.0	1.9	97%	90% - 110%									
Ga					35	36	103%	90% - 110%									
Gd					14	15	105%	90% - 110%									
Hf					10.6	10.5	99%	90% - 110%									
Ho					4.3	4.5	104%	90% - 110%									



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

La					58	59	102%	90% - 110%								
Lu					2.1	2.1	102%	90% - 110%								
Nd					57	60	106%	90% - 110%								
Ni	23610	24493	104%	90% - 110%	9	7	77%	90% - 110%								
Pb	41	42	102%	90% - 110%	10	11	110%	90% - 110%								
Pr					15.0	14.9	99%	90% - 110%								
Sm					12.7	13.3	105%	90% - 110%								
Sr					1191	1307	110%	90% - 110%								
Tb					2.6	2.8	106%	90% - 110%								
Th					1.4	1.5	105%	90% - 110%								
Ti					0.172	0.189	110%	90% - 110%								
Tm					2.3	2.4	103%	90% - 110%								
U					0.8	1	123%	90% - 110%								
Y					119	126	106%	90% - 110%								
Yb					14.8	15.7	106%	90% - 110%								
Zn	90	95	106%	90% - 110%	93	101	109%	90% - 110%								
Zr					517	527	102%	90% - 110%								



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B383094

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B383094

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Brad Boyle

PROJECT:

AGAT WORK ORDER: 18T388647

SOLID ANALYSIS REVIEWED BY: Adel Mina, Mining Chief Chemist

DATE REPORTED: Oct 05, 2018

PAGES (INCLUDING COVER): 48

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564193 (9575885)		2.00
E5564194 (9575886)		0.47
E5564195 (9575887)		1.77
E5564196 (9575888)		0.03
E5564197 (9575889)		1.79
E5564198 (9575890)		0.64
E5564199 (9575891)		0.82
E5564200 (9575892)		0.95
E5564201 (9575893)		2.95
E5564202 (9575894)		2.77
E5564203 (9575895)		2.88
E5564204 (9575896)		3.05
E5564205 (9575897)		2.99
E5564206 (9575898)		2.95
E5564207 (9575899)		1.78
E5564208 (9575900)		1.69
E5564209 (9575901)		1.60
E5564210 (9575902)		1.65
E5564211 (9575903)		0.03
E5564212 (9575904)		1.63
E5564213 (9575905)		1.73
E5564214 (9575906)		1.56
E5564215 (9575907)		1.68
E5564216 (9575908)		1.78
E5564217 (9575909)		1.74
E5564218 (9575910)		1.67
E5564219 (9575911)		0.03
E5564220 (9575912)		1.70
E5564221 (9575913)		1.69
E5564222 (9575914)		1.63
E5564223 (9575915)		1.74

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564224 (9575916)		1.64
E5564225 (9575917)		1.66
E5564226 (9575918)		1.63
E5564227 (9575919)		1.41
E5564228 (9575920)		2.24
E5564229 (9575921)		2.92
E5564230 (9575922)		2.91
E5564231 (9575923)		0.03
E5564232 (9575924)		2.88
E5564233 (9575925)		2.75
E5564234 (9575926)		2.79
E5564235 (9575927)		2.65
E5564236 (9575928)		0.03
E5564237 (9575929)		3.00
E5564238 (9575930)		2.67
E5564239 (9575931)		1.27
E5564240 (9575932)		1.18
E5564241 (9575933)		2.60
E5564242 (9575934)		2.78
E5564243 (9575935)		2.66
E5564244 (9575936)		1.89
E5564245 (9575937)		0.95
E5564246 (9575938)		1.97
E5564247 (9575939)		2.46
E5564248 (9575940)		1.82
E5564249 (9575941)		1.87
E5564250 (9575942)		1.47
E5564251 (9575943)		0.02
E5564252 (9575944)		2.81
E5564253 (9575945)		1.93
E5564254 (9575946)		1.48

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Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564255 (9575947)		1.46
E5564256 (9575948)		1.72
E5564257 (9575949)		1.83
E5564258 (9575950)		2.39
E5564259 (9575951)		0.03
E5564260 (9575952)		2.78
E5564261 (9575953)		2.52
E5564262 (9575954)		3.05
E5564263 (9575955)		2.93
E5564264 (9575956)		2.63
E5564265 (9575957)		2.75
E5564266 (9575958)		1.94
E5564267 (9575959)		0.36
E5564268 (9575960)		1.69
E5564269 (9575961)		2.06
E5564270 (9575962)		0.59
E5564271 (9575963)		0.03
E5564272 (9575964)		1.93
E5564273 (9575965)		2.73
E5564274 (9575966)		2.51
E5564275 (9575967)		2.85
E5564276 (9575968)		0.03
E5564277 (9575969)		2.77
E5564278 (9575970)		2.98
E5564279 (9575971)		1.25
E5564280 (9575972)		1.28
E5564281 (9575973)		1.85
E5564282 (9575974)		2.31
E5564283 (9575975)		1.33
E5564284 (9575976)		1.63
E5564285 (9575977)		1.72

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Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564286 (9575978)		1.66
E5564287 (9575979)		2.47
E5564288 (9575980)		1.89
E5564289 (9575981)		1.70
E5564290 (9575982)		1.63
E5564291 (9575983)		0.03
E5564292 (9575984)		2.43
E5564293 (9575985)		1.43
E5564294 (9575986)		1.29
E5564295 (9575987)		1.27
E5564296 (9575988)		3.04
E5564297 (9575989)		2.85
E5564298 (9575990)		2.81
E5564299 (9575991)		0.03
E5564300 (9575992)		2.71
E5564301 (9575993)		2.66
E5564302 (9575994)		2.64
E5564303 (9575995)		1.99
E5564304 (9575996)		2.60
E5564305 (9575997)		2.79
E5564306 (9575998)		2.83
E5564307 (9575999)		2.79
E5564308 (9576000)		2.74
E5564309 (9576001)		2.91
E5564310 (9576002)		1.49
E5564311 (9576003)		0.03
E5564312 (9576004)		1.46
E5564313 (9576005)		1.74
E5564314 (9576006)		2.22
E5564315 (9576007)		2.85
E5564316 (9576008)		0.03

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AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5564317 (9576009)		2.26
E5564318 (9576010)		1.23
E5564319 (9576011)		1.18
E5564320 (9576012)		1.24
E5564321 (9576013)		2.68
E5564322 (9576014)		2.75
E5564323 (9576015)		2.82
E5564324 (9576016)		1.76

Comments: RDL - Reported Detection Limit

Certified By:



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AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 21, 2018

DATE REPORTED: Oct 05, 2018

SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564193 (9575885)		2.89
E5564194 (9575886)		2.67
E5564195 (9575887)		2.96
E5564196 (9575888)		2.88
E5564197 (9575889)		3.02
E5564198 (9575890)		2.69
E5564199 (9575891)		3.05
E5564200 (9575892)		3.12
E5564201 (9575893)		3.09
E5564202 (9575894)		3.00
E5564203 (9575895)		3.04
E5564204 (9575896)		2.93
E5564205 (9575897)		3.08
E5564206 (9575898)		3.05
E5564207 (9575899)		3.12
E5564208 (9575900)		2.71
E5564209 (9575901)		2.67
E5564210 (9575902)		2.65
E5564211 (9575903)		2.62
E5564212 (9575904)		2.60
E5564213 (9575905)		2.67
E5564214 (9575906)		2.76
E5564215 (9575907)		2.83
E5564216 (9575908)		2.79
E5564217 (9575909)		2.91
E5564218 (9575910)		2.78
E5564219 (9575911)		2.78
E5564220 (9575912)		2.80
E5564221 (9575913)		2.68
E5564222 (9575914)		2.84
E5564223 (9575915)		2.77
E5564224 (9575916)		2.87

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564225 (9575917)		2.77
E5564226 (9575918)		2.70
E5564227 (9575919)		2.67
E5564228 (9575920)		3.08
E5564229 (9575921)		2.99
E5564230 (9575922)		2.98
E5564231 (9575923)		2.71
E5564232 (9575924)		3.16
E5564233 (9575925)		3.04
E5564234 (9575926)		3.13
E5564235 (9575927)		2.98
E5564236 (9575928)		2.98
E5564237 (9575929)		2.96
E5564238 (9575930)		3.00
E5564239 (9575931)		2.94
E5564240 (9575932)		3.00
E5564241 (9575933)		3.05
E5564242 (9575934)		3.08
E5564243 (9575935)		3.06
E5564244 (9575936)		2.72
E5564245 (9575937)		3.00
E5564246 (9575938)		3.14
E5564247 (9575939)		3.01
E5564248 (9575940)		2.72
E5564249 (9575941)		2.73
E5564250 (9575942)		2.72
E5564251 (9575943)		2.70
E5564252 (9575944)		3.10
E5564253 (9575945)		3.29
E5564254 (9575946)		2.73
E5564255 (9575947)		2.64
E5564256 (9575948)		2.65

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564257 (9575949)		2.75
E5564258 (9575950)		3.01
E5564259 (9575951)		2.74
E5564260 (9575952)		3.19
E5564261 (9575953)		2.98
E5564262 (9575954)		3.09
E5564263 (9575955)		3.07
E5564264 (9575956)		2.97
E5564265 (9575957)		3.08
E5564266 (9575958)		2.94
E5564267 (9575959)		2.64
E5564268 (9575960)		3.03
E5564269 (9575961)		3.01
E5564270 (9575962)		2.69
E5564271 (9575963)		2.69
E5564272 (9575964)		3.05
E5564273 (9575965)		2.97
E5564274 (9575966)		2.98
E5564275 (9575967)		3.00
E5564276 (9575968)		2.86
E5564277 (9575969)		3.09
E5564278 (9575970)		3.11
E5564279 (9575971)		3.08
E5564280 (9575972)		3.06
E5564281 (9575973)		3.08
E5564282 (9575974)		2.97
E5564283 (9575975)		2.77
E5564284 (9575976)		2.69
E5564285 (9575977)		2.63
E5564286 (9575978)		2.72
E5564287 (9575979)		2.77
E5564288 (9575980)		2.68

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564289 (9575981)		2.63
E5564290 (9575982)		2.68
E5564291 (9575983)		2.69
E5564292 (9575984)		2.66
E5564293 (9575985)		2.72
E5564294 (9575986)		2.73
E5564295 (9575987)		2.76
E5564296 (9575988)		3.10
E5564297 (9575989)		2.99
E5564298 (9575990)		3.07
E5564299 (9575991)		2.86
E5564300 (9575992)		3.06
E5564301 (9575993)		3.07
E5564302 (9575994)		2.96
E5564303 (9575995)		3.05
E5564304 (9575996)		2.94
E5564305 (9575997)		2.99
E5564306 (9575998)		2.99
E5564307 (9575999)		3.12
E5564308 (9576000)		3.12
E5564309 (9576001)		3.09
E5564310 (9576002)		3.02
E5564311 (9576003)		2.59
E5564312 (9576004)		2.64
E5564313 (9576005)		2.76
E5564314 (9576006)		2.64
E5564315 (9576007)		2.91
E5564316 (9576008)		2.96
E5564317 (9576009)		3.07
E5564318 (9576010)		2.77
E5564319 (9576011)		2.98
E5564320 (9576012)		2.90

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 21, 2018

DATE REPORTED: Oct 05, 2018

SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte:	Specific Gravity
	Unit:	g/cm3
	RDL:	0.01
E5564321 (9576013)		2.80
E5564322 (9576014)		2.99
E5564323 (9576015)		2.92
E5564324 (9576016)		2.91

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564193 (9575885)	541	0.117	<0.5	2	2	67.6	116	0.44	3.15	7.67	0.03	8.23	23.4	<5	
E5564194 (9575886)	382	0.082	115	96	59	236	3260	2.39	0.30	1.04	0.12	10.8	28.7	345	
E5564195 (9575887)	373	0.080	0.8	3	<1	123	219	0.60	2.91	7.08	0.05	8.66	24.2	8	
E5564196 (9575888)	10000	2.16	27.9	6360	3360	346	805	1.36	0.55	3.97	0.10	7.24	29.8	35	
E5564197 (9575889)	421	0.091	0.6	16	15	272	704	0.70	3.33	7.93	0.05	8.40	21.4	<5	
E5564198 (9575890)	59	0.013	375	89	10	18.3	153	0.19	0.06	0.37	0.13	9.00	32.0	144	
E5564199 (9575891)	132	0.028	<0.5	4	2	8.3	37.9	0.22	3.06	7.80	0.03	7.43	21.6	<5	
E5564200 (9575892)	142	0.030	<0.5	3	2	8.9	37.9	0.22	3.18	8.04	0.03	7.66	21.8	<5	
E5564201 (9575893)	144	0.031	<0.5	2	2	5.5	7.5	0.24	3.70	8.20	0.03	7.76	21.5	<5	
E5564202 (9575894)	175	0.038	<0.5	2	<1	38.6	17.5	0.22	3.75	8.26	0.02	7.51	21.1	<5	
E5564203 (9575895)	178	0.038	<0.5	2	1	9.6	11.5	0.21	3.79	7.94	0.03	7.43	22.1	<5	
E5564204 (9575896)	239	0.052	<0.5	2	<1	9.0	17.2	0.23	3.66	7.75	0.02	7.67	21.7	<5	
E5564205 (9575897)	281	0.060	<0.5	2	1	33.6	22.7	0.22	3.89	9.13	0.02	6.34	18.6	<5	
E5564206 (9575898)	306	0.066	<0.5	2	<1	73.1	65.7	0.29	3.98	8.36	0.02	7.25	21.5	<5	
E5564207 (9575899)	367	0.079	<0.5	2	3	13.6	56.8	0.42	3.12	7.24	0.02	7.37	22.0	<5	
E5564208 (9575900)	1570	0.337	53.4	51	27	215	3150	3.26	0.24	0.68	0.07	7.26	34.0	66	
E5564209 (9575901)	389	0.084	16.5	20	12	404	5140	5.84	0.05	0.26	0.07	8.03	32.3	10	
E5564210 (9575902)	733	0.158	19.4	16	5	587	5210	5.84	0.04	0.24	0.07	7.89	31.2	57	
E5564211 (9575903)	17	0.004	<0.5	<1	<1	1.4	1.1	<0.05	<0.01	0.33	<0.01	0.12	45.4	<5	
E5564212 (9575904)	1760	0.379	24.0	28	17	375	3950	4.65	0.11	0.45	0.06	6.72	34.3	325	
E5564213 (9575905)	2910	0.627	45.2	72	43	465	5360	5.36	0.14	0.66	0.06	8.11	31.1	149	
E5564214 (9575906)	4370	0.941	52.5	101	70	373	3500	2.51	0.22	0.99	0.04	7.15	34.3	309	
E5564215 (9575907)	4420	0.951	92.8	103	67	470	3420	2.27	0.26	0.93	0.04	6.83	33.8	759	
E5564216 (9575908)	4260	0.918	59.4	114	78	261	3580	2.33	0.21	0.96	0.04	7.11	33.4	177	
E5564217 (9575909)	10300	2.22	47.2	74	57	439	2520	1.76	0.16	1.00	0.09	7.42	35.0	435	
E5564218 (9575910)	4920	1.06	58.6	78	53	541	3540	2.76	0.15	0.78	0.06	7.58	33.8	62	
E5564219 (9575911)	2300	0.496	16.8	1170	762	243	1260	1.60	0.53	3.09	0.16	4.63	34.8	44	
E5564220 (9575912)	4520	0.972	131	72	37	394	2150	1.41	0.13	0.61	0.04	5.51	36.5	366	
E5564221 (9575913)	7100	1.53	61.0	62	38	335	1930	1.35	0.13	0.76	0.14	6.52	37.2	460	
E5564222 (9575914)	9320	2.01	59.9	67	48	367	2340	1.62	0.20	0.91	0.05	7.30	35.7	531	
E5564223 (9575915)	4020	0.865	75.7	92	58	487	3640	2.49	0.18	0.85	0.07	6.75	33.5	165	
E5564224 (9575916)	3180	0.685	42.2	65	45	488	3930	3.34	0.16	0.76	0.07	7.01	35.8	291	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564225 (9575917)	1060	0.227	85.6	64	37	449	3950	3.30	0.10	0.55	0.09	6.28	34.5	409	
E5564226 (9575918)	4460	0.959	41.1	28	13	494	4070	3.94	0.09	0.37	0.05	7.20	34.4	145	
E5564227 (9575919)	1590	0.342	37.7	38	8	303	2990	2.92	0.06	0.38	0.06	6.81	35.5	210	
E5564228 (9575920)	406	0.087	<0.5	2	<1	61.6	89.3	0.28	3.00	8.38	0.02	7.71	23.3	6	
E5564229 (9575921)	350	0.075	<0.5	2	<1	25.2	23.8	0.18	3.03	8.28	0.03	8.07	23.9	<5	
E5564230 (9575922)	903	0.195	<0.5	2	<1	37.8	24.6	0.23	2.82	7.81	0.03	7.97	23.8	<5	
E5564231 (9575923)	17	0.004	<0.5	<1	<1	0.3	1.5	<0.05	<0.01	0.34	<0.01	0.12	45.4	<5	
E5564232 (9575924)	303	0.065	<0.5	2	<1	8.6	9.6	0.17	2.77	8.09	0.03	7.64	22.6	<5	
E5564233 (9575925)	547	0.118	<0.5	2	<1	38.9	21.9	0.17	2.83	7.30	0.03	8.37	23.9	<5	
E5564234 (9575926)	249	0.054	<0.5	2	<1	6.0	10.0	0.19	2.89	8.19	0.03	8.29	23.5	<5	
E5564235 (9575927)	256	0.055	<0.5	2	<1	3.4	21.0	0.18	2.54	6.97	0.03	7.87	22.9	<5	
E5564236 (9575928)	10400	2.25	29.7	6340	3490	355	818	1.42	0.56	4.14	0.10	7.50	30.8	39	
E5564237 (9575929)	253	0.054	<0.5	10	4	5.2	15.5	0.19	2.88	7.98	0.04	7.61	22.8	6	
E5564238 (9575930)	433	0.093	<0.5	4	<1	93.1	43.9	0.34	2.68	9.07	0.03	8.22	22.5	<5	
E5564239 (9575931)	186	0.040	<0.5	3	<1	6.7	9.8	0.19	2.52	8.12	0.02	7.80	23.5	<5	
E5564240 (9575932)	201	0.043	<0.5	3	<1	15.0	11.7	0.21	2.57	7.91	0.03	7.86	23.3	<5	
E5564241 (9575933)	182	0.039	<0.5	2	<1	2.0	13.4	0.21	2.41	7.89	0.03	8.37	23.8	<5	
E5564242 (9575934)	223	0.048	<0.5	2	<1	3.9	34.0	0.34	2.60	7.87	0.03	8.05	23.6	<5	
E5564243 (9575935)	442	0.095	0.9	2	<1	15.1	93.5	0.67	3.04	8.48	0.03	7.84	23.7	<5	
E5564244 (9575936)	1810	0.390	123	65	273	110	1040	0.92	0.17	0.54	0.17	8.82	31.8	200	
E5564245 (9575937)	1000	0.215	18.5	9	8	640	1090	1.32	3.36	6.57	0.04	8.29	23.4	40	
E5564246 (9575938)	537	0.116	9.2	4	2	8.3	84.1	0.57	2.69	7.99	0.03	8.19	23.7	15	
E5564247 (9575939)	1980	0.426	4.5	3	<1	270	382	0.59	3.35	7.78	0.03	8.49	23.7	12	
E5564248 (9575940)	7200	1.55	231	116	16	406	1210	0.78	0.18	0.63	0.11	8.51	31.8	581	
E5564249 (9575941)	4460	0.961	101	61	5	159	399	0.35	0.07	0.39	0.08	8.08	32.6	277	
E5564250 (9575942)	415	0.089	115	76	3	52.4	208	0.31	0.11	0.35	0.08	7.85	32.9	327	
E5564251 (9575943)	17	0.004	<0.5	1	<1	0.2	0.7	<0.05	<0.01	0.32	<0.01	0.12	45.2	<5	
E5564252 (9575944)	583	0.125	1.1	2	<1	149	497	1.00	3.44	7.75	0.03	7.37	21.5	10	
E5564253 (9575945)	242	0.052	<0.5	2	<1	15.1	25.0	0.11	3.71	7.15	0.03	6.98	20.3	9	
E5564254 (9575946)	2470	0.532	135	106	<1	35.0	152	0.33	0.13	0.39	0.06	7.77	34.8	251	
E5564255 (9575947)	1300	0.281	87.8	70	6	84.8	563	0.64	0.10	0.49	0.05	7.82	33.7	294	
E5564256 (9575948)	120	0.026	107	54	3	81.5	1250	1.52	0.14	0.47	0.08	7.54	34.6	121	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564257 (9575949)	219	0.047	312	90	13	118	1480	1.35	0.29	0.71	0.15	8.95	32.4	207	
E5564258 (9575950)	974	0.210	3.5	3	<1	790	808	1.07	2.75	10.8	0.09	7.83	22.1	24	
E5564259 (9575951)	2310	0.497	17.8	1230	814	248	1290	1.60	0.56	3.12	0.15	4.65	34.6	52	
E5564260 (9575952)	366	0.079	0.6	5	<1	90.0	80.7	0.37	2.47	10.9	0.02	6.14	23.0	13	
E5564261 (9575953)	398	0.086	0.6	3	<1	33.5	77.2	0.55	3.22	7.50	0.04	7.43	21.9	8	
E5564262 (9575954)	273	0.059	<0.5	2	<1	12.8	97.5	0.86	2.45	9.28	0.03	7.78	22.1	<5	
E5564263 (9575955)	307	0.066	<0.5	2	<1	12.6	53.9	0.55	3.34	10.0	0.03	7.65	22.4	<5	
E5564264 (9575956)	492	0.106	<0.5	2	1	21.1	55.8	0.50	4.65	9.46	0.03	7.01	22.7	<5	
E5564265 (9575957)	261	0.056	<0.5	2	<1	69.4	98.0	0.65	2.72	9.22	0.03	8.32	23.4	<5	
E5564266 (9575958)	607	0.131	<0.5	2	<1	78.6	190	0.35	2.70	7.13	0.02	7.38	24.3	7	
E5564267 (9575959)	217	0.047	174	85	23	153	1750	1.26	0.18	0.67	0.14	10.0	29.4	194	
E5564268 (9575960)	758	0.163	1.5	4	<1	92.1	308	0.45	3.05	5.97	0.03	7.57	26.1	<5	
E5564269 (9575961)	270	0.058	0.7	2	<1	14.3	101	0.29	3.43	7.85	0.03	7.86	22.9	<5	
E5564270 (9575962)	88	0.019	381	89	1	16.9	178	0.18	0.08	0.49	0.07	9.79	30.7	191	
E5564271 (9575963)	17	0.004	<0.5	1	<1	0.3	0.9	<0.05	<0.01	0.32	<0.01	0.12	44.6	<5	
E5564272 (9575964)	303	0.065	2.9	3	<1	41.7	155	0.34	3.37	8.90	0.03	8.00	21.4	<5	
E5564273 (9575965)	396	0.085	1.7	3	<1	18.5	43.9	0.36	6.18	10.3	0.03	6.06	19.0	5	
E5564274 (9575966)	159	0.034	<0.5	1	<1	10.6	25.8	0.28	3.42	7.15	0.02	6.60	19.9	<5	
E5564275 (9575967)	155	0.033	<0.5	2	<1	5.2	10.7	0.21	4.31	8.17	0.03	7.20	21.7	<5	
E5564276 (9575968)	10400	2.24	29.2	6290	3480	351	833	1.39	0.55	4.05	0.11	7.51	30.4	40	
E5564277 (9575969)	210	0.045	<0.5	9	7	4.8	12.2	0.19	4.52	8.41	0.03	7.25	22.1	<5	
E5564278 (9575970)	286	0.062	<0.5	4	<1	17.0	15.9	0.20	4.76	8.94	0.03	7.28	22.3	<5	
E5564279 (9575971)	315	0.068	<0.5	3	<1	3.9	7.6	0.16	4.47	8.05	0.02	7.09	21.2	<5	
E5564280 (9575972)	311	0.067	<0.5	2	<1	3.7	7.7	0.17	4.55	8.48	0.02	7.27	22.2	<5	
E5564281 (9575973)	405	0.087	<0.5	2	<1	25.3	15.2	0.15	4.78	8.49	0.02	7.36	22.3	<5	
E5564282 (9575974)	835	0.180	1.0	2	<1	1180	561	0.76	5.49	9.03	0.03	7.20	21.3	7	
E5564283 (9575975)	11400	2.46	35.9	59	45	439	2590	1.88	0.20	0.94	0.03	8.43	32.4	65	
E5564284 (9575976)	4380	0.942	54.0	77	58	822	3340	2.10	0.28	0.86	0.05	7.79	32.2	190	
E5564285 (9575977)	1810	0.389	72.5	103	64	360	3140	2.15	0.20	0.83	0.06	7.81	34.5	30	
E5564286 (9575978)	5250	1.13	67.2	134	82	421	3940	2.53	0.27	1.05	0.07	7.11	34.1	265	
E5564287 (9575979)	5330	1.15	100	79	50	455	2570	1.68	0.14	0.75	0.05	6.65	36.3	285	
E5564288 (9575980)	6530	1.41	138	43	5	238	759	0.64	0.05	0.29	0.09	9.02	32.4	186	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564289 (9575981)	613	0.132	131	99	15	187	1310	0.99	0.04	0.34	0.12	8.26	33.8	426	
E5564290 (9575982)	1910	0.411	114	68	26	631	4120	3.50	0.09	0.42	0.11	8.29	31.7	478	
E5564291 (9575983)	19	0.004	<0.5	1	<1	0.3	1.6	<0.05	<0.01	0.33	<0.01	0.12	45.8	<5	
E5564292 (9575984)	490	0.106	172	51	4	289	2670	2.63	0.02	0.19	0.10	7.76	32.1	73	
E5564293 (9575985)	773	0.166	189	75	1	330	1530	0.69	0.64	1.43	0.19	8.22	31.4	76	
E5564294 (9575986)	12200	2.62	201	51	30	411	1920	1.24	0.09	0.71	0.03	7.30	35.3	60	
E5564295 (9575987)	6810	1.47	59.0	41	13	380	1140	0.85	0.08	0.47	0.14	9.05	30.3	205	
E5564296 (9575988)	1400	0.301	1.4	2	<1	1150	461	0.35	3.16	8.05	0.04	7.94	22.3	<5	
E5564297 (9575989)	245	0.053	<0.5	2	<1	46.4	47.3	0.18	3.44	8.30	0.03	8.09	21.4	<5	
E5564298 (9575990)	261	0.056	1.5	2	1	176	123	0.20	3.77	8.06	0.03	7.60	20.3	6	
E5564299 (9575991)	2310	0.497	16.9	1240	717	228	1200	1.57	0.58	3.06	0.17	4.77	34.3	34	
E5564300 (9575992)	170	0.037	<0.5	6	2	75.3	40.1	0.13	3.06	7.58	0.03	7.43	21.4	<5	
E5564301 (9575993)	143	0.031	<0.5	2	<1	21.7	18.2	0.14	3.00	7.34	0.03	7.49	20.6	<5	
E5564302 (9575994)	139	0.030	<0.5	2	<1	2.1	4.6	0.12	2.91	7.26	0.02	7.90	21.5	<5	
E5564303 (9575995)	123	0.026	<0.5	2	<1	1.7	3.4	0.13	2.84	7.51	0.03	7.76	22.0	<5	
E5564304 (9575996)	177	0.038	<0.5	2	<1	7.6	12.1	0.22	3.38	7.76	0.04	7.76	22.3	<5	
E5564305 (9575997)	179	0.038	<0.5	2	<1	3.2	7.7	0.20	2.94	6.96	0.02	7.09	21.3	<5	
E5564306 (9575998)	187	0.040	<0.5	2	<1	1.9	4.2	0.15	3.05	6.55	0.02	7.07	20.8	<5	
E5564307 (9575999)	255	0.055	<0.5	2	<1	16.5	16.0	0.28	3.31	7.63	0.03	7.27	20.5	<5	
E5564308 (9576000)	237	0.051	<0.5	2	<1	1.3	4.6	0.16	3.09	7.78	0.03	7.65	21.7	<5	
E5564309 (9576001)	243	0.052	<0.5	2	<1	3.0	18.7	0.26	3.58	7.85	0.03	7.44	21.6	<5	
E5564310 (9576002)	459	0.099	13.9	4	<1	43.5	143	1.04	4.00	6.95	0.07	7.92	22.1	11	
E5564311 (9576003)	21	0.004	<0.5	<1	<1	0.2	0.5	<0.05	<0.01	0.33	<0.01	0.12	44.6	<5	
E5564312 (9576004)	1890	0.406	85.0	76	9	155	1390	1.52	0.15	0.52	0.04	7.22	33.8	171	
E5564313 (9576005)	9900	2.13	109	133	10	270	847	0.80	0.10	0.48	0.02	7.21	34.5	443	
E5564314 (9576006)	1580	0.340	113	77	5	75.7	511	0.54	0.10	0.37	0.14	8.05	33.7	130	
E5564315 (9576007)	560	0.121	0.6	2	<1	82.1	147	0.59	3.08	7.53	0.03	8.18	23.7	<5	
E5564316 (9576008)	10300	2.22	28.2	6440	3270	351	825	1.41	0.56	4.05	0.11	7.72	29.8	29	
E5564317 (9576009)	311	0.067	1.0	9	7	36.9	134	0.58	2.89	7.58	0.03	8.24	22.7	<5	
E5564318 (9576010)	179	0.039	122	29	3	25.7	73.0	0.21	1.08	2.68	0.09	4.89	31.4	34	
E5564319 (9576011)	665	0.143	2.5	3	2	6.9	19.4	0.15	3.27	6.88	0.03	8.23	22.5	<5	
E5564320 (9576012)	567	0.122	2.7	3	2	7.6	32.9	0.22	3.23	6.47	0.03	8.72	23.0	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 21, 2018

DATE REPORTED: Oct 05, 2018

SAMPLE TYPE: Other

Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5
E5564321 (9576013)	161	0.035	<0.5	2	<1	2.1	6.7	0.10	2.63	6.29	0.03	7.99	22.1	<5
E5564322 (9576014)	164	0.035	<0.5	2	1	3.1	10.3	0.11	2.73	7.34	0.03	7.33	20.8	<5
E5564323 (9576015)	161	0.035	<0.5	2	3	2.4	8.5	0.12	3.20	8.23	0.03	8.14	22.3	<5
E5564324 (9576016)	131	0.028	<0.5	2	<1	1.9	8.0	0.11	2.87	7.73	0.03	8.05	22.7	<5

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564193 (9575885)	20	1800	<2	0.3	<5	<1	101	6.49	<0.2	7.3	61.2	0.032	184	3.12	
E5564194 (9575886)	<20	1040	9	2.3	<5	<1	29.9	0.99	<0.2	2.6	6.5	0.008	32	0.25	
E5564195 (9575887)	23	1710	2	0.6	<5	<1	105	6.80	<0.2	8.0	59.3	0.034	116	3.28	
E5564196 (9575888)	35	439	12	45.1	147	<1	2640	1.00	1.5	439	8.4	0.010	343	4.71	
E5564197 (9575889)	<20	1530	2	1.4	<5	<1	59.5	7.77	<0.2	8.4	57.8	0.036	89	3.69	
E5564198 (9575890)	<20	1330	3	2.4	<5	<1	9.2	0.83	<0.2	1.3	1.0	0.006	<5	0.06	
E5564199 (9575891)	<20	1670	2	0.4	<5	<1	28.7	10.3	<0.2	7.2	56.4	0.033	155	3.24	
E5564200 (9575892)	<20	1680	<2	0.4	<5	<1	31.8	9.04	<0.2	7.6	59.0	0.034	214	3.49	
E5564201 (9575893)	22	1910	<2	<0.1	<5	<1	41.8	10.4	<0.2	6.8	53.8	0.029	125	3.09	
E5564202 (9575894)	<20	1800	<2	<0.1	<5	<1	39.8	8.56	<0.2	6.9	58.6	0.030	104	3.02	
E5564203 (9575895)	<20	1770	<2	0.1	<5	<1	40.3	9.58	<0.2	7.2	54.6	0.029	145	3.14	
E5564204 (9575896)	24	1770	<2	<0.1	<5	<1	51.0	9.45	<0.2	7.2	57.3	0.030	161	3.15	
E5564205 (9575897)	<20	2210	4	0.2	<5	<1	43.7	11.8	1.3	6.2	52.2	0.026	410	2.86	
E5564206 (9575898)	<20	2010	<2	0.2	<5	<1	55.9	9.78	0.3	7.2	56.1	0.029	129	3.10	
E5564207 (9575899)	22	1690	2	0.4	<5	<1	70.8	9.74	<0.2	7.5	54.0	0.030	185	3.14	
E5564208 (9575900)	22	478	10	2.2	<5	2	93.1	0.33	<0.2	0.4	1.9	0.017	<5	0.10	
E5564209 (9575901)	<20	204	5	0.8	<5	<1	78.7	0.17	<0.2	0.3	0.7	0.007	<5	<0.05	
E5564210 (9575902)	<20	146	7	1.0	<5	2	101	0.17	<0.2	0.4	0.6	0.013	<5	<0.05	
E5564211 (9575903)	<20	29	<2	<0.1	<5	<1	3.6	<0.05	<0.2	2.6	0.5	<0.005	<5	0.17	
E5564212 (9575904)	<20	290	9	0.6	<5	<1	187	0.20	<0.2	0.5	2.3	0.012	<5	0.07	
E5564213 (9575905)	<20	577	9	1.7	<5	<1	66.0	0.16	<0.2	0.4	2.1	0.013	<5	<0.05	
E5564214 (9575906)	22	820	10	2.6	<5	<1	15.9	0.18	<0.2	0.4	2.9	0.015	<5	<0.05	
E5564215 (9575907)	25	889	12	4.6	<5	<1	18.2	0.16	<0.2	0.2	3.1	0.019	<5	<0.05	
E5564216 (9575908)	25	863	10	2.7	<5	<1	10.2	0.17	<0.2	0.2	2.8	0.013	<5	<0.05	
E5564217 (9575909)	21	975	14	2.1	<5	<1	7.4	0.23	<0.2	0.9	2.2	0.025	<5	0.11	
E5564218 (9575910)	20	732	11	6.1	<5	<1	21.8	0.20	<0.2	0.4	2.1	0.017	<5	<0.05	
E5564219 (9575911)	27	387	9	11.7	39	1	1730	1.09	0.7	1210	7.5	0.007	298	8.60	
E5564220 (9575912)	<20	571	12	1.8	<5	<1	7.5	0.14	<0.2	1.5	1.6	0.015	<5	<0.05	
E5564221 (9575913)	22	764	14	2.8	<5	<1	7.0	0.36	<0.2	1.2	2.0	0.024	<5	0.14	
E5564222 (9575914)	24	832	11	3.8	<5	<1	8.3	0.17	<0.2	0.5	1.9	0.015	<5	0.06	
E5564223 (9575915)	22	812	13	23.2	<5	<1	12.8	0.21	<0.2	0.4	2.5	0.021	<5	0.05	
E5564224 (9575916)	<20	672	10	3.7	<5	<1	28.9	0.27	<0.2	0.4	2.3	0.014	<5	<0.05	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564225 (9575917)	<20	579	12	2.1	<5	<1	31.8	0.33	<0.2	0.7	1.5	0.018	<5	0.06	
E5564226 (9575918)	<20	377	10	2.0	<5	<1	43.9	0.15	<0.2	0.3	0.6	0.012	<5	<0.05	
E5564227 (9575919)	<20	326	12	2.2	<5	<1	30.8	0.30	<0.2	0.7	1.1	0.018	<5	0.06	
E5564228 (9575920)	<20	2090	2	0.4	<5	<1	73.5	8.88	<0.2	7.2	56.7	0.032	129	3.21	
E5564229 (9575921)	27	1870	2	0.1	<5	<1	79.8	7.48	<0.2	7.5	59.1	0.035	158	3.45	
E5564230 (9575922)	<20	1730	2	0.1	<5	<1	130	7.16	<0.2	7.4	61.8	0.034	181	3.18	
E5564231 (9575923)	<20	31	<2	<0.1	<5	1	4.0	<0.05	<0.2	2.6	0.7	<0.005	<5	0.23	
E5564232 (9575924)	<20	2100	2	0.1	<5	<1	95.0	8.45	<0.2	7.8	59.9	0.034	169	3.39	
E5564233 (9575925)	<20	1810	<2	0.1	<5	<1	115	7.76	<0.2	8.1	62.7	0.033	144	3.67	
E5564234 (9575926)	<20	2070	<2	0.1	<5	3	70.2	7.97	<0.2	7.6	61.8	0.034	149	3.51	
E5564235 (9575927)	<20	1660	<2	<0.1	<5	<1	61.1	7.76	0.2	8.0	60.8	0.033	165	3.41	
E5564236 (9575928)	33	456	12	46.4	158	1	2620	1.05	1.7	465	9.1	0.010	330	4.89	
E5564237 (9575929)	<20	1930	2	0.8	<5	<1	55.7	8.03	<0.2	7.6	55.5	0.033	188	3.35	
E5564238 (9575930)	<20	2040	<2	0.4	<5	<1	122	7.76	<0.2	7.7	61.5	0.033	218	3.45	
E5564239 (9575931)	<20	1840	<2	0.2	<5	<1	36.3	8.89	<0.2	7.5	60.6	0.033	154	3.33	
E5564240 (9575932)	22	1760	<2	0.2	<5	<1	46.1	8.24	<0.2	7.4	59.7	0.033	159	3.19	
E5564241 (9575933)	<20	1900	<2	0.1	<5	<1	37.7	8.63	<0.2	8.3	60.4	0.034	123	3.39	
E5564242 (9575934)	22	1800	<2	<0.1	<5	<1	78.5	8.75	<0.2	7.9	58.9	0.032	204	3.23	
E5564243 (9575935)	31	1800	3	0.4	<5	<1	141	7.51	<0.2	7.5	57.4	0.035	153	3.52	
E5564244 (9575936)	22	605	4	0.5	<5	<1	80.3	0.68	0.3	1.1	2.3	0.006	9	0.23	
E5564245 (9575937)	38	1590	6	1.5	21	<1	217	6.13	1.4	7.8	51.6	0.031	216	2.83	
E5564246 (9575938)	30	2090	3	0.8	<5	<1	103	7.74	<0.2	7.5	58.1	0.036	100	3.24	
E5564247 (9575939)	<20	1920	3	0.5	5	<1	70.3	6.77	<0.2	7.5	66.0	0.033	91	3.32	
E5564248 (9575940)	259	802	9	2.6	<5	<1	42.3	0.44	<0.2	0.7	2.5	0.014	13	0.09	
E5564249 (9575941)	<20	1280	8	1.2	<5	<1	16.9	0.30	<0.2	0.8	1.1	0.011	<5	0.06	
E5564250 (9575942)	<20	1650	9	0.7	<5	<1	48.0	0.41	<0.2	1.0	1.1	0.013	9	0.09	
E5564251 (9575943)	<20	31	<2	<0.1	<5	<1	2.9	<0.05	<0.2	2.5	0.5	<0.005	<5	0.20	
E5564252 (9575944)	39	2370	3	1.0	<5	<1	169	8.52	0.5	7.1	57.9	0.032	186	3.39	
E5564253 (9575945)	47	2690	6	2.5	<5	<1	15.3	12.5	1.2	8.2	52.3	0.034	164	2.89	
E5564254 (9575946)	<20	1250	7	1.0	<5	1	63.9	0.38	<0.2	1.9	1.5	0.009	8	0.15	
E5564255 (9575947)	<20	448	9	1.7	<5	<1	41.1	0.29	<0.2	0.9	1.3	0.015	<5	0.15	
E5564256 (9575948)	<20	701	6	1.2	<5	<1	17.6	0.36	<0.2	0.7	1.1	0.008	20	0.18	

Certified By:



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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564257 (9575949)	<20	415	6	0.4	<5	<1	9.6	0.78	<0.2	1.7	2.3	0.011	55	0.29	
E5564258 (9575950)	27	2880	3	1.1	<5	<1	183	5.96	<0.2	7.6	53.9	0.032	214	3.13	
E5564259 (9575951)	28	391	9	12.0	41	2	1780	1.10	0.7	1280	8.0	0.007	316	9.25	
E5564260 (9575952)	20	2860	4	1.0	<5	<1	76.6	5.67	<0.2	9.8	62.0	0.032	436	3.34	
E5564261 (9575953)	26	1750	2	0.4	<5	<1	123	8.45	<0.2	10.0	55.0	0.031	137	3.11	
E5564262 (9575954)	39	2770	2	0.4	<5	<1	170	7.37	<0.2	7.9	58.1	0.033	127	3.48	
E5564263 (9575955)	30	2360	<2	0.4	<5	<1	140	6.90	<0.2	10.1	57.6	0.031	45	3.39	
E5564264 (9575956)	28	1730	3	0.4	<5	<1	116	5.13	<0.2	9.2	52.0	0.031	44	2.99	
E5564265 (9575957)	23	2230	<2	0.3	<5	<1	148	6.97	<0.2	7.7	60.9	0.032	141	3.33	
E5564266 (9575958)	<20	1660	3	0.4	<5	<1	40.4	7.12	<0.2	6.7	58.4	0.031	139	2.91	
E5564267 (9575959)	<20	596	6	13.4	<5	<1	14.7	1.07	<0.2	9.0	4.2	0.005	31	1.03	
E5564268 (9575960)	<20	1370	3	0.8	<5	<1	46.7	5.46	<0.2	6.2	58.6	0.033	129	2.80	
E5564269 (9575961)	20	1890	<2	0.4	<5	2	54.9	8.25	<0.2	7.5	57.7	0.032	162	3.54	
E5564270 (9575962)	<20	554	<2	41.5	8	<1	8.1	1.14	<0.2	2.4	2.2	<0.005	27	0.14	
E5564271 (9575963)	<20	29	<2	0.7	<5	<1	3.6	<0.05	<0.2	2.5	<0.5	<0.005	<5	0.24	
E5564272 (9575964)	<20	2180	2	1.8	<5	<1	50.5	8.72	0.3	7.4	58.5	0.032	287	3.36	
E5564273 (9575965)	21	1800	<2	0.6	<5	<1	70.7	7.94	<0.2	11.5	59.6	0.016	223	2.33	
E5564274 (9575966)	<20	1680	<2	0.3	<5	<1	62.5	11.5	<0.2	6.7	52.6	0.023	175	2.85	
E5564275 (9575967)	<20	1550	<2	0.2	<5	<1	29.5	7.92	<0.2	7.3	58.9	0.025	146	3.28	
E5564276 (9575968)	37	448	12	45.7	154	1	2660	1.04	1.6	466	8.7	0.009	331	4.84	
E5564277 (9575969)	<20	1470	<2	0.9	<5	<1	29.8	8.41	<0.2	7.5	58.0	0.025	184	3.24	
E5564278 (9575970)	<20	1430	<2	0.4	<5	<1	25.6	8.26	<0.2	7.4	57.7	0.025	210	3.27	
E5564279 (9575971)	<20	1420	<2	0.2	<5	<1	19.7	7.68	<0.2	7.0	58.2	0.025	169	3.26	
E5564280 (9575972)	<20	1460	<2	0.1	<5	<1	20.0	8.09	<0.2	7.1	56.0	0.025	152	3.06	
E5564281 (9575973)	<20	1400	<2	0.1	<5	<1	16.9	8.10	<0.2	7.1	58.0	0.025	146	3.25	
E5564282 (9575974)	<20	1460	<2	0.9	<5	<1	50.8	7.04	<0.2	6.7	58.0	0.025	346	3.04	
E5564283 (9575975)	<20	815	10	2.3	<5	<1	10.5	0.20	<0.2	0.3	2.4	0.016	<5	0.05	
E5564284 (9575976)	31	770	8	5.2	<5	<1	42.1	0.48	<0.2	0.2	2.7	0.010	<5	<0.05	
E5564285 (9575977)	22	712	8	2.4	<5	<1	15.1	0.36	<0.2	0.1	3.0	0.014	<5	<0.05	
E5564286 (9575978)	<20	1010	8	2.2	<5	<1	15.2	0.21	<0.2	0.3	3.5	0.012	<5	<0.05	
E5564287 (9575979)	<20	741	10	3.8	<5	<1	7.5	0.18	<0.2	0.2	2.1	0.016	<5	<0.05	
E5564288 (9575980)	<20	713	7	1.6	<5	<1	10.3	0.31	<0.2	0.4	0.6	0.009	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564289 (9575981)	<20	1070	7	0.7	<5	<1	5.6	0.38	<0.2	0.7	1.0	0.011	<5	<0.05	
E5564290 (9575982)	<20	555	5	1.4	<5	<1	30.4	0.29	<0.2	0.3	1.3	0.007	<5	0.05	
E5564291 (9575983)	<20	29	<2	<0.1	<5	<1	3.1	<0.05	<0.2	2.4	0.5	<0.005	<5	0.18	
E5564292 (9575984)	<20	547	6	4.8	5	<1	26.0	0.22	<0.2	0.4	0.5	0.011	<5	<0.05	
E5564293 (9575985)	<20	577	4	5.2	<5	<1	18.0	1.55	0.2	1.2	10.3	0.012	144	0.55	
E5564294 (9575986)	<20	850	12	1.0	<5	<1	6.1	0.10	<0.2	0.1	1.3	0.018	<5	<0.05	
E5564295 (9575987)	23	513	9	0.8	<5	<1	10.4	0.42	<0.2	0.5	1.4	0.018	11	0.05	
E5564296 (9575988)	<20	1820	3	0.8	<5	<1	40.4	10.3	<0.2	6.3	52.7	0.032	105	3.05	
E5564297 (9575989)	23	1740	<2	0.3	<5	<1	52.1	9.05	<0.2	6.8	53.5	0.033	160	3.16	
E5564298 (9575990)	<20	1930	<2	0.2	<5	<1	60.7	10.2	<0.2	6.7	52.3	0.031	178	3.13	
E5564299 (9575991)	29	387	8	11.6	38	1	1730	1.08	0.6	1210	6.9	0.007	286	9.08	
E5564300 (9575992)	<20	1690	<2	0.5	<5	<1	35.9	10.2	<0.2	7.3	49.3	0.031	120	2.96	
E5564301 (9575993)	<20	1850	<2	0.2	<5	<1	32.2	12.1	0.2	6.5	49.0	0.029	162	2.86	
E5564302 (9575994)	<20	1850	<2	0.1	<5	<1	32.4	11.8	<0.2	6.7	52.7	0.031	109	3.11	
E5564303 (9575995)	<20	1640	<2	<0.1	<5	<1	29.7	10.6	<0.2	6.8	51.6	0.031	132	3.18	
E5564304 (9575996)	<20	1420	<2	0.1	<5	<1	85.3	8.97	<0.2	23.1	50.0	0.027	132	3.28	
E5564305 (9575997)	<20	1680	<2	<0.1	<5	<1	22.4	11.5	<0.2	6.2	46.3	0.028	196	2.82	
E5564306 (9575998)	<20	1830	<2	<0.1	<5	<1	18.2	12.2	<0.2	6.3	46.4	0.029	124	2.85	
E5564307 (9575999)	<20	1870	3	<0.1	<5	<1	58.6	11.7	<0.2	12.2	47.9	0.027	149	3.03	
E5564308 (9576000)	<20	1690	<2	<0.1	<5	<1	18.7	10.7	<0.2	6.6	52.3	0.031	154	3.08	
E5564309 (9576001)	24	1640	<2	0.1	<5	<1	51.3	9.33	<0.2	6.7	50.3	0.029	130	3.12	
E5564310 (9576002)	31	1580	<2	0.4	<5	<1	305	8.08	<0.2	8.1	46.9	0.027	136	2.91	
E5564311 (9576003)	<20	30	<2	<0.1	<5	<1	3.3	<0.05	<0.2	2.2	<0.5	<0.005	<5	0.18	
E5564312 (9576004)	<20	785	7	0.6	<5	<1	105	0.32	<0.2	1.2	1.4	0.014	<5	0.11	
E5564313 (9576005)	<20	808	12	3.5	8	<1	22.9	0.12	<0.2	0.4	1.0	0.021	<5	<0.05	
E5564314 (9576006)	<20	1130	7	1.4	<5	<1	13.2	0.55	<0.2	1.2	1.1	0.010	8	0.27	
E5564315 (9576007)	28	1910	3	0.2	5	<1	107	7.10	<0.2	6.9	51.9	0.035	192	2.97	
E5564316 (9576008)	31	451	11	46.3	150	<1	2610	1.05	1.5	444	8.1	0.009	317	4.80	
E5564317 (9576009)	25	1930	<2	1.1	<5	<1	168	7.85	<0.2	7.6	56.0	0.034	125	3.39	
E5564318 (9576010)	<20	1120	7	0.5	<5	<1	31.2	7.05	<0.2	2.5	17.4	0.021	35	1.06	
E5564319 (9576011)	<20	1730	<2	0.4	<5	<1	45.2	8.06	<0.2	7.1	63.3	0.033	286	3.37	
E5564320 (9576012)	<20	1660	<2	0.4	<5	<1	62.6	7.03	0.2	7.7	64.0	0.036	246	3.52	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018				SAMPLE TYPE: Other			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
Sample ID (AGAT ID)	RDL:													
E5564321 (9576013)	<20	1780	2	0.1	<5	<1	38.6	10.7	<0.2	7.7	55.2	0.032	192	3.37
E5564322 (9576014)	<20	1890	<2	0.1	<5	<1	39.4	11.2	0.2	6.7	51.1	0.030	191	3.11
E5564323 (9576015)	<20	1870	<2	0.1	<5	<1	34.3	10.3	<0.2	7.2	52.7	0.032	86	3.27
E5564324 (9576016)	<20	1720	<2	0.2	<5	<1	27.0	10.3	<0.2	7.3	55.3	0.032	127	3.32

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DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564193 (9575885)	1.88	0.70	17.5	2.48	2	1	0.62	<0.2	2.7	0.27	5.6	146	5	1.08	
E5564194 (9575886)	0.15	0.09	94.1	0.36	6	3	<0.05	<0.2	0.6	<0.05	1.9	15	<5	0.41	
E5564195 (9575887)	1.92	0.67	18.0	2.59	2	1	0.65	<0.2	2.9	0.29	5.8	154	<5	1.20	
E5564196 (9575888)	1.65	4.14	46.6	11.2	7	5	0.67	9.7	254	0.21	141	35	37	46.8	
E5564197 (9575889)	2.31	0.69	18.0	2.82	2	2	0.77	<0.2	3.1	0.36	6.4	141	<5	1.26	
E5564198 (9575890)	<0.05	<0.05	49.3	0.16	8	3	<0.05	<0.2	0.6	<0.05	0.9	10	<5	0.18	
E5564199 (9575891)	2.13	0.64	15.7	2.49	2	1	0.68	<0.2	2.5	0.32	5.6	124	<5	1.06	
E5564200 (9575892)	2.10	0.70	17.3	2.68	2	1	0.71	<0.2	2.7	0.36	5.9	138	<5	1.14	
E5564201 (9575893)	1.96	0.62	15.5	2.32	2	1	0.63	<0.2	2.5	0.31	5.1	124	<5	1.01	
E5564202 (9575894)	1.96	0.64	16.7	2.41	2	1	0.66	<0.2	2.5	0.29	5.5	132	<5	1.03	
E5564203 (9575895)	2.04	0.62	15.8	2.42	2	1	0.66	<0.2	2.6	0.33	5.4	128	<5	1.04	
E5564204 (9575896)	2.02	0.65	16.0	2.42	2	1	0.67	<0.2	2.6	0.31	5.2	138	<5	1.08	
E5564205 (9575897)	1.83	0.45	14.7	2.15	2	1	0.60	<0.2	2.4	0.30	4.6	113	<5	0.91	
E5564206 (9575898)	1.92	0.61	15.4	2.36	2	1	0.63	<0.2	2.7	0.30	5.3	134	<5	1.06	
E5564207 (9575899)	2.06	0.63	16.0	2.33	2	1	0.64	<0.2	2.8	0.31	5.3	130	<5	1.06	
E5564208 (9575900)	0.05	<0.05	46.7	0.14	5	1	<0.05	<0.2	0.2	<0.05	0.3	9	6	0.07	
E5564209 (9575901)	<0.05	<0.05	33.9	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	0.2	<5	12	<0.05	
E5564210 (9575902)	<0.05	<0.05	29.7	<0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.2	6	13	0.06	
E5564211 (9575903)	0.12	<0.05	0.28	0.19	1	<1	<0.05	<0.2	1.3	<0.05	1.0	7	<5	0.30	
E5564212 (9575904)	<0.05	<0.05	35.3	0.08	5	<1	<0.05	<0.2	0.2	<0.05	0.2	8	9	0.07	
E5564213 (9575905)	<0.05	<0.05	57.6	0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.2	11	10	<0.05	
E5564214 (9575906)	<0.05	<0.05	69.9	<0.05	5	<1	<0.05	<0.2	0.2	<0.05	0.2	9	<5	<0.05	
E5564215 (9575907)	<0.05	<0.05	70.4	<0.05	6	<1	<0.05	<0.2	0.2	<0.05	<0.1	10	<5	<0.05	
E5564216 (9575908)	<0.05	<0.05	78.1	<0.05	5	<1	<0.05	<0.2	0.2	<0.05	<0.1	12	<5	<0.05	
E5564217 (9575909)	<0.05	<0.05	71.6	0.09	6	<1	<0.05	<0.2	0.4	<0.05	0.4	12	<5	0.09	
E5564218 (9575910)	<0.05	<0.05	64.1	0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.2	12	<5	<0.05	
E5564219 (9575911)	2.40	9.51	24.5	26.6	4	5	1.16	2.1	724	0.22	361	21	27	117	
E5564220 (9575912)	<0.05	<0.05	46.6	0.09	7	1	<0.05	<0.2	0.8	<0.05	0.6	9	<5	0.17	
E5564221 (9575913)	0.06	<0.05	55.6	0.12	6	<1	<0.05	<0.2	0.6	<0.05	0.5	13	<5	0.14	
E5564222 (9575914)	<0.05	<0.05	65.5	0.05	6	<1	<0.05	<0.2	0.3	<0.05	0.2	9	<5	0.05	
E5564223 (9575915)	<0.05	<0.05	64.9	<0.05	6	1	<0.05	<0.2	0.3	<0.05	0.2	11	<5	<0.05	
E5564224 (9575916)	<0.05	<0.05	55.4	<0.05	6	<1	<0.05	<0.2	0.2	<0.05	0.2	11	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CLIENT NAME: ARDIDEN LTD

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018						SAMPLE TYPE: Other	
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05
Sample ID (AGAT ID)														
E5564225 (9575917)	<0.05	<0.05	49.0	0.06	6	1	<0.05	<0.2	0.3	<0.05	0.3	9	6	0.08
E5564226 (9575918)	<0.05	<0.05	38.6	0.05	7	1	<0.05	<0.2	0.1	<0.05	0.3	5	8	0.06
E5564227 (9575919)	<0.05	<0.05	33.6	0.14	6	2	<0.05	<0.2	0.2	<0.05	0.7	7	7	0.13
E5564228 (9575920)	2.16	0.65	16.8	2.53	2	1	0.68	<0.2	2.7	0.31	5.7	118	<5	1.11
E5564229 (9575921)	2.00	0.68	16.6	2.57	1	1	0.70	<0.2	2.8	0.31	5.9	142	<5	1.12
E5564230 (9575922)	1.97	0.70	17.4	2.43	1	1	0.61	<0.2	2.6	0.30	5.6	148	<5	1.08
E5564231 (9575923)	0.14	<0.05	0.48	0.19	<1	<1	0.05	<0.2	1.2	<0.05	1.0	8	<5	0.30
E5564232 (9575924)	2.15	0.67	16.7	2.67	2	1	0.73	<0.2	2.9	0.35	5.9	141	<5	1.16
E5564233 (9575925)	2.16	0.80	17.3	2.87	2	1	0.73	<0.2	3.0	0.36	6.2	132	<5	1.24
E5564234 (9575926)	2.17	0.73	17.0	2.60	2	1	0.72	<0.2	2.8	0.34	6.0	140	<5	1.17
E5564235 (9575927)	1.95	0.78	17.0	2.72	2	2	0.71	<0.2	2.9	0.32	6.1	132	34	1.21
E5564236 (9575928)	1.72	4.32	48.8	11.8	8	5	0.74	9.0	267	0.21	148	33	38	49.4
E5564237 (9575929)	1.88	0.66	16.0	2.46	2	1	0.67	<0.2	2.8	0.32	5.9	134	7	1.14
E5564238 (9575930)	2.04	0.71	17.8	2.69	2	1	0.66	<0.2	2.8	0.33	5.9	134	11	1.16
E5564239 (9575931)	2.08	0.61	16.5	2.51	2	1	0.68	<0.2	2.7	0.34	5.7	120	<5	1.12
E5564240 (9575932)	1.97	0.67	16.7	2.51	2	1	0.65	<0.2	2.6	0.33	5.7	121	<5	1.10
E5564241 (9575933)	2.14	0.75	17.5	2.70	2	1	0.69	<0.2	3.1	0.33	6.3	128	<5	1.23
E5564242 (9575934)	2.00	0.75	16.8	2.64	2	1	0.65	<0.2	3.0	0.31	5.7	135	9	1.15
E5564243 (9575935)	2.08	0.74	18.6	2.65	2	1	0.70	<0.2	2.7	0.33	5.8	130	9	1.14
E5564244 (9575936)	0.15	0.13	54.1	0.28	7	3	<0.05	<0.2	0.5	<0.05	0.8	7	<5	0.15
E5564245 (9575937)	1.62	0.67	22.7	2.07	3	1	0.54	<0.2	3.2	0.27	5.0	106	89	1.07
E5564246 (9575938)	2.06	0.71	19.0	2.52	2	1	0.65	<0.2	2.7	0.31	5.7	137	22	1.09
E5564247 (9575939)	2.09	0.87	18.4	2.70	2	2	0.70	<0.2	2.5	0.31	6.0	158	7	1.14
E5564248 (9575940)	<0.05	0.08	54.1	0.09	8	4	<0.05	<0.2	0.4	<0.05	0.3	11	11	0.08
E5564249 (9575941)	<0.05	0.10	42.6	0.12	7	4	<0.05	<0.2	0.4	<0.05	0.5	7	<5	0.10
E5564250 (9575942)	0.06	0.06	37.9	0.16	7	3	<0.05	<0.2	0.4	<0.05	0.7	5	7	0.14
E5564251 (9575943)	0.14	<0.05	0.32	0.17	<1	<1	<0.05	<0.2	1.1	<0.05	1.0	6	<5	0.28
E5564252 (9575944)	2.00	0.67	17.9	2.46	2	1	0.71	<0.2	2.6	0.34	5.5	122	82	1.08
E5564253 (9575945)	1.92	0.63	17.6	2.35	3	1	0.61	<0.2	3.6	0.29	5.5	110	166	1.13
E5564254 (9575946)	0.07	0.06	37.6	0.25	7	6	<0.05	<0.2	0.5	<0.05	1.2	9	<5	0.25
E5564255 (9575947)	0.07	0.05	42.6	0.20	6	2	<0.05	<0.2	0.2	<0.05	0.7	6	<5	0.15
E5564256 (9575948)	0.08	0.06	36.3	0.25	6	2	<0.05	<0.2	0.2	<0.05	0.7	7	<5	0.10

Certified By:



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CLIENT NAME: ARDIDEN LTD

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564257 (9575949)	0.19	0.14	45.6	0.40	8	3	0.06	<0.2	0.7	<0.05	1.3	12	<5	0.26	
E5564258 (9575950)	1.99	0.67	17.5	2.45	3	1	0.65	<0.2	2.9	0.35	5.4	130	<5	1.09	
E5564259 (9575951)	2.69	10.2	25.5	28.6	4	6	1.25	2.1	771	0.25	384	23	30	124	
E5564260 (9575952)	2.31	0.65	13.8	2.69	3	1	0.73	<0.2	4.1	0.36	6.8	138	15	1.38	
E5564261 (9575953)	1.88	0.74	16.1	2.47	2	1	0.62	<0.2	4.0	0.31	6.7	132	<5	1.42	
E5564262 (9575954)	2.16	0.73	16.5	2.64	2	1	0.72	<0.2	3.1	0.33	5.9	134	<5	1.17	
E5564263 (9575955)	2.19	0.77	16.1	2.89	2	1	0.71	<0.2	4.3	0.34	6.9	135	<5	1.41	
E5564264 (9575956)	1.89	0.67	15.7	2.36	2	1	0.62	<0.2	4.0	0.32	6.0	134	<5	1.32	
E5564265 (9575957)	2.12	0.71	16.7	2.58	2	1	0.70	<0.2	2.8	0.33	5.9	140	16	1.18	
E5564266 (9575958)	1.79	0.65	16.3	2.19	2	1	0.58	<0.2	2.4	0.29	4.9	135	<5	0.99	
E5564267 (9575959)	0.46	0.48	66.4	1.64	7	4	0.18	<0.2	2.4	0.05	5.3	12	11	1.17	
E5564268 (9575960)	1.77	0.65	17.7	2.24	1	1	0.62	<0.2	2.1	0.27	5.0	141	<5	0.96	
E5564269 (9575961)	2.06	0.71	16.7	2.54	2	1	0.69	<0.2	2.8	0.33	5.9	128	<5	1.11	
E5564270 (9575962)	0.05	0.08	55.2	0.45	6	5	<0.05	<0.2	1.1	<0.05	1.8	11	<5	0.34	
E5564271 (9575963)	0.13	<0.05	0.28	0.20	<1	<1	<0.05	<0.2	1.2	<0.05	0.9	7	<5	0.29	
E5564272 (9575964)	2.16	0.67	18.5	2.54	2	1	0.71	<0.2	2.7	0.33	5.7	128	<5	1.10	
E5564273 (9575965)	1.43	0.56	15.9	1.94	2	2	0.47	<0.2	4.8	0.24	5.9	94	<5	1.39	
E5564274 (9575966)	1.76	0.56	14.0	2.11	2	1	0.59	<0.2	2.5	0.29	4.9	117	<5	1.01	
E5564275 (9575967)	1.97	0.67	16.1	2.55	2	1	0.67	<0.2	2.6	0.32	5.6	127	<5	1.09	
E5564276 (9575968)	1.68	4.35	48.9	11.8	8	5	0.72	9.1	267	0.19	148	34	38	49.3	
E5564277 (9575969)	1.92	0.64	15.9	2.43	2	1	0.66	<0.2	2.8	0.32	5.6	121	<5	1.09	
E5564278 (9575970)	1.97	0.68	15.4	2.47	2	1	0.68	<0.2	2.6	0.33	5.5	114	<5	1.09	
E5564279 (9575971)	1.94	0.68	15.9	2.50	2	1	0.65	<0.2	2.5	0.33	5.4	120	<5	1.07	
E5564280 (9575972)	1.83	0.69	15.7	2.45	2	1	0.64	<0.2	2.6	0.32	5.5	121	<5	1.08	
E5564281 (9575973)	2.05	0.67	15.9	2.50	2	1	0.66	<0.2	2.4	0.33	5.7	117	<5	1.08	
E5564282 (9575974)	1.90	0.60	16.4	2.34	2	1	0.65	<0.2	2.3	0.31	5.1	116	5	1.01	
E5564283 (9575975)	<0.05	0.05	77.2	0.05	6	<1	<0.05	<0.2	0.1	<0.05	0.2	13	<5	<0.05	
E5564284 (9575976)	<0.05	<0.05	65.4	<0.05	8	<1	<0.05	<0.2	0.1	<0.05	<0.1	9	<5	<0.05	
E5564285 (9575977)	<0.05	<0.05	63.2	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	<0.1	12	6	<0.05	
E5564286 (9575978)	<0.05	<0.05	78.5	<0.05	6	2	<0.05	<0.2	0.2	<0.05	<0.1	11	<5	<0.05	
E5564287 (9575979)	<0.05	<0.05	57.2	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	<0.1	9	<5	<0.05	
E5564288 (9575980)	<0.05	<0.05	48.4	<0.05	8	1	<0.05	<0.2	0.2	<0.05	0.1	5	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564289 (9575981)	<0.05	<0.05	48.7	<0.05	7	2	<0.05	<0.2	0.5	<0.05	0.1	6	<5	0.05	
E5564290 (9575982)	<0.05	<0.05	48.2	<0.05	7	2	<0.05	<0.2	0.2	<0.05	<0.1	5	8	<0.05	
E5564291 (9575983)	0.13	<0.05	0.29	0.20	1	<1	<0.05	<0.2	1.1	<0.05	1.0	7	<5	0.26	
E5564292 (9575984)	<0.05	<0.05	32.4	<0.05	7	2	<0.05	<0.2	0.3	<0.05	0.1	<5	8	<0.05	
E5564293 (9575985)	0.37	0.12	31.2	0.47	6	2	0.12	<0.2	0.5	0.06	0.9	33	5	0.17	
E5564294 (9575986)	<0.05	<0.05	52.8	<0.05	7	2	<0.05	<0.2	0.1	<0.05	<0.1	9	<5	<0.05	
E5564295 (9575987)	<0.05	<0.05	47.5	0.07	7	2	<0.05	<0.2	0.2	<0.05	0.4	9	<5	0.07	
E5564296 (9575988)	1.87	0.59	14.8	2.38	2	1	0.60	<0.2	2.3	0.29	5.2	128	<5	0.91	
E5564297 (9575989)	2.01	0.67	15.4	2.53	2	1	0.63	<0.2	2.4	0.32	5.3	138	<5	0.98	
E5564298 (9575990)	1.85	0.60	14.6	2.39	2	1	0.61	<0.2	2.3	0.31	5.3	132	<5	0.96	
E5564299 (9575991)	2.57	9.82	22.4	26.9	4	5	1.18	1.8	720	0.23	368	24	29	113	
E5564300 (9575992)	1.83	0.56	13.8	2.30	2	1	0.59	<0.2	2.8	0.30	5.5	132	<5	1.05	
E5564301 (9575993)	1.86	0.58	13.7	2.23	2	1	0.57	<0.2	2.3	0.29	4.9	126	<5	0.92	
E5564302 (9575994)	1.82	0.66	14.6	2.43	2	1	0.64	<0.2	2.4	0.32	5.3	127	<5	0.97	
E5564303 (9575995)	2.07	0.61	14.5	2.33	2	1	0.63	<0.2	2.4	0.31	5.2	131	<5	0.96	
E5564304 (9575996)	1.87	0.87	15.1	2.94	2	1	0.61	<0.2	10.2	0.29	12.3	126	<5	2.82	
E5564305 (9575997)	1.75	0.56	14.1	2.19	2	1	0.56	<0.2	2.2	0.29	4.8	118	<5	0.88	
E5564306 (9575998)	1.82	0.60	13.2	2.21	2	1	0.58	<0.2	2.3	0.28	4.8	120	<5	0.90	
E5564307 (9575999)	1.83	0.63	14.6	2.52	2	1	0.60	<0.2	5.0	0.27	7.4	111	<5	1.56	
E5564308 (9576000)	1.89	0.60	14.6	2.47	2	1	0.61	<0.2	2.3	0.29	5.2	132	<5	1.00	
E5564309 (9576001)	1.81	0.64	14.1	2.31	2	1	0.64	<0.2	2.4	0.28	5.1	127	<5	0.96	
E5564310 (9576002)	1.76	0.64	16.1	2.27	2	1	0.56	<0.2	3.6	0.29	5.2	121	<5	1.07	
E5564311 (9576003)	0.10	<0.05	0.28	0.18	<1	<1	<0.05	<0.2	1.0	<0.05	0.9	6	<5	0.22	
E5564312 (9576004)	0.06	<0.05	39.4	0.21	5	3	<0.05	<0.2	0.4	<0.05	1.0	7	<5	0.21	
E5564313 (9576005)	<0.05	<0.05	42.1	<0.05	5	3	<0.05	<0.2	0.3	<0.05	0.2	7	<5	<0.05	
E5564314 (9576006)	0.14	0.08	38.7	0.36	6	5	0.05	<0.2	0.4	<0.05	1.1	6	<5	0.18	
E5564315 (9576007)	1.90	0.71	15.8	2.47	1	1	0.64	<0.2	2.4	0.31	5.6	135	5	1.01	
E5564316 (9576008)	1.73	4.22	45.5	11.7	7	5	0.72	9.7	254	0.21	145	34	39	47.0	
E5564317 (9576009)	2.00	0.74	16.1	2.59	2	1	0.68	<0.2	2.9	0.33	5.9	135	<5	1.15	
E5564318 (9576010)	0.71	0.19	14.3	0.79	3	2	0.21	<0.2	0.9	0.14	1.8	45	<5	0.33	
E5564319 (9576011)	2.05	0.72	16.2	2.59	2	1	0.67	<0.2	2.5	0.32	5.6	131	<5	1.07	
E5564320 (9576012)	2.19	0.77	16.8	2.76	2	2	0.68	<0.2	2.7	0.33	6.0	142	<5	1.16	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018						DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other			
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564321 (9576013)	1.87	0.65	14.9	2.59	2	1	0.65	<0.2	2.8	0.31	5.6	120	<5	1.09	
E5564322 (9576014)	1.93	0.63	14.0	2.49	2	1	0.64	<0.2	2.4	0.30	5.2	121	<5	0.97	
E5564323 (9576015)	1.95	0.62	15.5	2.45	2	1	0.66	<0.2	2.6	0.33	5.6	123	<5	1.06	
E5564324 (9576016)	2.11	0.65	15.7	2.54	2	1	0.67	<0.2	2.6	0.34	5.7	127	<5	1.03	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 21, 2018

DATE REPORTED: Oct 05, 2018

SAMPLE TYPE: Other

Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5
E5564193 (9575885)	0.14	0.1	45	1.9	89.8	0.46	0.4	0.49	1.1	0.30	0.11	285	<1	16.9
E5564194 (9575886)	0.02	<0.1	<5	0.3	56.4	<0.05	6.3	0.04	20.0	<0.05	14.4	19	4	1.5
E5564195 (9575887)	0.08	0.2	43	1.8	101	0.46	0.5	0.49	2.1	0.29	0.44	276	2	18.1
E5564196 (9575888)	0.02	29.7	7	17.6	206	1.33	111	0.33	7.2	0.21	23.8	69	14	18.0
E5564197 (9575889)	0.03	0.6	46	2.1	125	0.55	0.5	0.52	5.6	0.37	0.32	283	<1	21.1
E5564198 (9575890)	<0.01	1.1	<5	0.1	22.2	<0.05	3.8	<0.01	0.9	<0.05	5.70	<5	1	0.5
E5564199 (9575891)	0.11	<0.1	40	1.9	99.4	0.47	0.4	0.47	<0.5	0.30	0.07	258	<1	18.9
E5564200 (9575892)	0.15	0.1	43	1.9	109	0.49	0.4	0.46	<0.5	0.33	0.14	286	<1	20.0
E5564201 (9575893)	0.09	0.2	38	1.7	71.6	0.45	0.3	0.45	<0.5	0.29	0.07	242	4	17.4
E5564202 (9575894)	0.08	0.1	40	1.7	62.0	0.46	0.3	0.44	<0.5	0.29	0.06	255	<1	18.1
E5564203 (9575895)	0.07	<0.1	38	1.7	76.6	0.45	0.3	0.44	<0.5	0.30	0.06	246	<1	18.4
E5564204 (9575896)	0.12	0.2	39	1.8	77.0	0.46	0.3	0.45	<0.5	0.30	0.09	251	<1	18.8
E5564205 (9575897)	0.66	1.0	34	1.5	46.2	0.40	0.2	0.37	0.8	0.29	0.06	220	<1	17.3
E5564206 (9575898)	0.11	0.1	37	1.7	61.5	0.45	0.2	0.42	0.7	0.28	0.06	243	<1	18.0
E5564207 (9575899)	0.10	0.7	39	1.7	81.7	0.44	0.2	0.43	0.5	0.31	0.09	253	5	18.1
E5564208 (9575900)	<0.01	0.4	<5	0.1	47.3	<0.05	2.2	0.01	24.4	<0.05	2.13	<5	2	0.6
E5564209 (9575901)	<0.01	0.2	<5	<0.1	69.5	<0.05	0.9	<0.01	43.7	<0.05	0.68	<5	<1	<0.5
E5564210 (9575902)	<0.01	0.2	<5	<0.1	70.4	<0.05	0.8	<0.01	46.9	<0.05	2.95	<5	1	<0.5
E5564211 (9575903)	<0.01	0.3	<5	0.2	0.9	<0.05	0.7	0.03	<0.5	<0.05	0.16	<5	<1	1.1
E5564212 (9575904)	<0.01	0.2	<5	<0.1	56.7	<0.05	0.9	<0.01	32.5	<0.05	0.87	<5	1	<0.5
E5564213 (9575905)	<0.01	0.3	<5	<0.1	67.5	<0.05	0.8	0.02	43.9	<0.05	1.24	5	3	<0.5
E5564214 (9575906)	<0.01	0.3	<5	<0.1	41.2	<0.05	1.0	0.02	22.1	<0.05	1.49	8	5	<0.5
E5564215 (9575907)	<0.01	0.4	<5	<0.1	37.6	<0.05	1.1	0.02	20.9	<0.05	3.05	8	5	<0.5
E5564216 (9575908)	<0.01	0.4	<5	<0.1	40.0	<0.05	1.0	0.02	21.6	<0.05	1.16	7	6	<0.5
E5564217 (9575909)	<0.01	0.4	<5	<0.1	29.6	<0.05	0.9	0.02	16.2	<0.05	2.09	10	4	0.6
E5564218 (9575910)	<0.01	0.4	<5	<0.1	44.4	<0.05	1.6	0.02	25.9	<0.05	3.21	7	4	<0.5
E5564219 (9575911)	0.01	11.6	9	44.5	279	3.07	88.9	0.44	11.2	0.29	14.5	57	5	28.0
E5564220 (9575912)	<0.01	0.3	<5	<0.1	25.0	<0.05	3.0	0.01	13.7	<0.05	3.15	<5	3	<0.5
E5564221 (9575913)	<0.01	0.5	<5	0.1	25.9	<0.05	2.0	0.01	11.9	<0.05	4.20	5	3	0.9
E5564222 (9575914)	<0.01	0.6	<5	<0.1	27.6	<0.05	1.5	0.01	14.6	<0.05	2.04	7	3	<0.5
E5564223 (9575915)	<0.01	0.4	<5	<0.1	39.8	<0.05	1.2	0.02	24.1	<0.05	1.84	6	5	<0.5
E5564224 (9575916)	<0.01	0.5	<5	<0.1	48.7	<0.05	0.8	0.02	29.4	<0.05	2.41	8	4	<0.5

Certified By:



Certificate of Analysis

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 21, 2018

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SAMPLE TYPE: Other

Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5
E5564225 (9575917)	<0.01	0.4	<5	<0.1	45.9	<0.05	1.6	0.01	30.0	<0.05	3.33	<5	3	<0.5
E5564226 (9575918)	<0.01	0.3	<5	<0.1	50.2	<0.05	2.7	<0.01	36.0	<0.05	3.43	<5	1	<0.5
E5564227 (9575919)	<0.01	0.6	<5	0.1	43.4	<0.05	3.2	<0.01	26.9	<0.05	6.80	<5	1	<0.5
E5564228 (9575920)	0.13	0.9	40	1.8	85.5	0.47	0.6	0.47	1.2	0.31	0.17	251	<1	18.9
E5564229 (9575921)	0.13	<0.1	42	1.9	79.5	0.48	0.4	0.49	<0.5	0.31	0.06	275	<1	19.1
E5564230 (9575922)	0.15	<0.1	40	1.9	73.2	0.46	0.3	0.48	<0.5	0.30	0.07	271	<1	17.8
E5564231 (9575923)	<0.01	0.2	<5	0.2	0.4	<0.05	0.6	0.03	<0.5	<0.05	0.19	<5	<1	1.2
E5564232 (9575924)	0.13	<0.1	42	1.8	64.9	0.49	0.3	0.46	<0.5	0.34	0.07	271	<1	20.7
E5564233 (9575925)	0.07	<0.1	45	2.0	72.5	0.53	0.3	0.51	<0.5	0.31	0.07	282	<1	20.3
E5564234 (9575926)	0.12	<0.1	43	2.1	69.3	0.49	0.3	0.50	<0.5	0.35	0.06	276	3	20.0
E5564235 (9575927)	0.10	<0.1	42	1.9	80.4	0.48	0.3	0.48	<0.5	0.33	0.07	274	<1	19.1
E5564236 (9575928)	0.02	30.8	7	18.5	213	1.41	113	0.35	7.4	0.23	23.7	67	14	18.9
E5564237 (9575929)	0.18	0.1	42	1.9	75.2	0.46	0.4	0.45	<0.5	0.32	0.06	274	24	19.5
E5564238 (9575930)	0.22	0.1	43	2.0	70.6	0.51	0.3	0.50	<0.5	0.32	0.05	278	<1	19.6
E5564239 (9575931)	0.15	<0.1	42	1.9	87.9	0.48	0.3	0.47	<0.5	0.31	0.06	271	5	19.6
E5564240 (9575932)	0.15	0.1	42	1.9	86.0	0.48	0.3	0.48	<0.5	0.30	0.06	269	<1	19.1
E5564241 (9575933)	0.08	0.1	43	2.0	97.2	0.52	0.3	0.51	<0.5	0.33	0.07	281	<1	19.1
E5564242 (9575934)	0.10	0.1	42	2.0	109	0.47	0.3	0.48	<0.5	0.30	0.09	273	<1	18.8
E5564243 (9575935)	0.11	0.5	42	1.9	84.6	0.47	0.3	0.48	0.6	0.30	0.30	276	<1	19.1
E5564244 (9575936)	<0.01	1.5	<5	0.2	28.7	<0.05	6.7	0.01	6.4	<0.05	3.08	<5	2	1.5
E5564245 (9575937)	0.16	4.4	36	1.6	112	0.39	1.1	0.42	10.7	0.26	1.33	229	<1	15.7
E5564246 (9575938)	0.12	0.8	43	1.9	83.5	0.48	0.4	0.48	0.9	0.30	0.22	286	<1	18.9
E5564247 (9575939)	0.07	1.1	42	2.0	98.4	0.51	0.5	0.51	4.9	0.31	1.05	273	<1	20.0
E5564248 (9575940)	<0.01	1.6	<5	<0.1	25.6	<0.05	5.4	0.01	9.2	<0.05	12.6	7	2	0.5
E5564249 (9575941)	<0.01	1.0	<5	<0.1	13.8	<0.05	6.6	<0.01	3.1	<0.05	14.9	<5	1	0.5
E5564250 (9575942)	<0.01	0.7	<5	0.2	17.5	<0.05	7.5	<0.01	1.4	<0.05	6.07	<5	<1	0.7
E5564251 (9575943)	<0.01	0.2	<5	0.2	0.8	<0.05	0.8	0.03	<0.5	<0.05	0.16	<5	<1	1.2
E5564252 (9575944)	0.23	3.4	41	1.7	96.7	0.48	0.5	0.44	4.5	0.31	0.55	269	<1	20.8
E5564253 (9575945)	0.17	3.8	37	1.7	107	0.43	0.3	0.41	<0.5	0.27	0.78	246	1	17.0
E5564254 (9575946)	<0.01	0.6	<5	0.2	17.7	<0.05	9.0	<0.01	1.0	<0.05	7.01	<5	1	1.1
E5564255 (9575947)	<0.01	0.5	<5	0.2	17.8	<0.05	6.5	<0.01	3.7	<0.05	4.85	<5	2	1.0
E5564256 (9575948)	<0.01	0.3	<5	0.2	23.6	<0.05	5.0	<0.01	10.2	<0.05	1.84	<5	2	1.2

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564257 (9575949)	<0.01	0.1	<5	0.4	32.0	0.05	5.1	<0.01	9.0	<0.05	2.36	7	2	1.7	
E5564258 (9575950)	0.45	0.4	38	1.7	72.9	0.46	0.8	0.45	8.2	0.31	0.27	247	63	19.2	
E5564259 (9575951)	0.01	12.1	9	47.1	279	3.17	91.3	0.44	11.6	0.32	15.3	57	5	30.4	
E5564260 (9575952)	1.04	0.8	37	2.0	56.4	0.48	0.8	0.39	1.1	0.33	0.08	228	4	21.4	
E5564261 (9575953)	0.06	<0.1	38	2.0	73.9	0.45	0.4	0.44	0.5	0.29	0.14	245	2	17.7	
E5564262 (9575954)	0.16	<0.1	41	1.8	90.9	0.51	0.3	0.46	<0.5	0.32	0.07	261	1	20.7	
E5564263 (9575955)	0.04	<0.1	41	2.0	80.5	0.49	0.4	0.46	<0.5	0.33	0.25	263	2	20.7	
E5564264 (9575956)	0.03	<0.1	39	1.8	58.6	0.42	0.3	0.40	<0.5	0.27	0.23	242	2	17.3	
E5564265 (9575957)	0.10	0.1	40	1.8	75.2	0.49	0.3	0.48	0.7	0.31	0.07	261	<1	19.5	
E5564266 (9575958)	0.13	0.1	38	1.8	74.3	0.42	0.3	0.42	2.2	0.27	0.24	245	<1	16.5	
E5564267 (9575959)	0.02	0.1	<5	1.2	46.5	0.21	95.8	0.03	11.1	<0.05	48.8	16	2	7.6	
E5564268 (9575960)	0.06	<0.1	34	1.7	101	0.42	1.6	0.43	3.1	0.27	0.34	238	<1	16.0	
E5564269 (9575961)	0.09	0.4	42	1.8	94.1	0.47	0.3	0.47	0.7	0.31	0.11	272	<1	19.7	
E5564270 (9575962)	<0.01	1.5	<5	0.4	16.6	<0.05	7.7	<0.01	1.1	<0.05	8.14	<5	1	1.2	
E5564271 (9575963)	<0.01	0.1	<5	0.2	<0.1	<0.05	0.7	0.03	<0.5	<0.05	0.17	<5	<1	1.2	
E5564272 (9575964)	0.27	0.6	41	1.8	79.4	0.49	0.4	0.47	1.1	0.34	0.78	265	11	20.1	
E5564273 (9575965)	0.75	0.4	26	1.5	37.3	0.34	1.2	0.32	1.2	0.23	0.37	166	1	13.7	
E5564274 (9575966)	0.16	0.1	35	1.6	89.0	0.42	0.2	0.39	<0.5	0.27	0.09	220	<1	16.5	
E5564275 (9575967)	0.08	<0.1	40	1.9	107	0.49	0.3	0.43	<0.5	0.29	0.06	252	<1	19.0	
E5564276 (9575968)	0.02	30.6	7	18.9	211	1.38	111	0.34	7.3	0.23	22.1	70	14	18.8	
E5564277 (9575969)	0.10	<0.1	39	1.8	85.8	0.46	0.4	0.44	<0.5	0.29	0.08	252	<1	18.3	
E5564278 (9575970)	0.11	<0.1	39	1.8	76.9	0.46	0.3	0.44	<0.5	0.31	0.06	247	<1	18.6	
E5564279 (9575971)	0.13	<0.1	40	1.8	74.4	0.48	0.2	0.42	<0.5	0.31	0.06	253	<1	18.7	
E5564280 (9575972)	0.11	<0.1	39	1.7	74.9	0.45	0.2	0.43	<0.5	0.29	0.07	249	<1	18.6	
E5564281 (9575973)	0.09	0.3	40	1.8	85.8	0.49	0.3	0.45	<0.5	0.30	0.05	250	<1	19.0	
E5564282 (9575974)	0.52	0.2	39	1.7	83.7	0.45	0.2	0.43	6.0	0.31	0.09	249	7	18.0	
E5564283 (9575975)	<0.01	0.4	<5	<0.1	31.4	<0.05	0.5	0.02	17.0	<0.05	0.48	6	3	<0.5	
E5564284 (9575976)	<0.01	0.8	<5	<0.1	48.7	<0.05	0.6	0.02	21.5	<0.05	0.99	8	5	<0.5	
E5564285 (9575977)	<0.01	0.6	<5	<0.1	48.7	<0.05	1.9	0.02	20.2	<0.05	0.98	7	5	<0.5	
E5564286 (9575978)	<0.01	0.5	<5	<0.1	43.0	<0.05	9.2	0.03	25.1	<0.05	12.7	8	7	<0.5	
E5564287 (9575979)	<0.01	0.4	<5	<0.1	32.9	<0.05	0.8	0.02	16.6	<0.05	1.33	7	4	<0.5	
E5564288 (9575980)	<0.01	0.5	<5	<0.1	19.6	<0.05	3.8	<0.01	5.8	<0.05	2.77	<5	1	<0.5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564289 (9575981)	<0.01	0.2	<5	<0.1	23.3	<0.05	4.1	<0.01	9.1	<0.05	7.74	<5	2	<0.5	
E5564290 (9575982)	<0.01	0.6	<5	<0.1	58.4	<0.05	6.2	0.01	37.5	<0.05	4.69	<5	3	<0.5	
E5564291 (9575983)	<0.01	0.1	<5	0.3	0.9	<0.05	0.8	0.03	<0.5	<0.05	0.18	<5	<1	1.0	
E5564292 (9575984)	<0.01	0.3	<5	<0.1	41.2	<0.05	2.4	<0.01	26.9	<0.05	4.27	<5	1	<0.5	
E5564293 (9575985)	0.03	1.2	7	0.3	45.5	0.09	4.5	0.08	15.1	0.06	5.97	37	1	3.1	
E5564294 (9575986)	<0.01	0.5	<5	<0.1	22.6	<0.05	2.9	0.01	13.1	<0.05	7.49	<5	3	<0.5	
E5564295 (9575987)	<0.01	0.5	<5	<0.1	25.2	<0.05	3.4	<0.01	8.1	<0.05	3.05	<5	1	<0.5	
E5564296 (9575988)	0.05	1.9	40	1.7	76.5	0.43	0.6	0.45	5.2	0.28	0.36	254	<1	16.0	
E5564297 (9575989)	0.10	1.0	43	1.8	65.4	0.48	0.4	0.45	0.6	0.30	0.08	276	<1	16.7	
E5564298 (9575990)	0.15	0.2	40	1.7	62.5	0.44	0.3	0.43	1.3	0.28	0.08	256	13	16.0	
E5564299 (9575991)	0.02	10.7	9	45.3	277	3.02	90.4	0.43	11.0	0.26	15.4	59	5	25.3	
E5564300 (9575992)	0.09	0.4	39	1.7	74.5	0.42	0.8	0.42	<0.5	0.27	0.06	250	1	15.7	
E5564301 (9575993)	0.12	0.6	38	1.6	71.6	0.43	0.3	0.42	<0.5	0.26	0.06	237	1	15.0	
E5564302 (9575994)	0.08	0.7	40	1.8	80.8	0.45	0.3	0.45	<0.5	0.30	0.07	253	<1	16.1	
E5564303 (9575995)	0.08	0.2	41	1.8	81.0	0.42	0.3	0.44	<0.5	0.30	0.07	256	<1	16.5	
E5564304 (9575996)	0.10	0.1	36	2.6	239	0.48	1.6	0.46	<0.5	0.28	0.37	237	<1	16.4	
E5564305 (9575997)	0.24	0.1	37	1.5	126	0.40	0.3	0.40	<0.5	0.26	0.06	235	<1	15.1	
E5564306 (9575998)	0.12	<0.1	37	1.5	84.2	0.40	0.3	0.40	<0.5	0.26	0.05	238	<1	15.1	
E5564307 (9575999)	0.21	0.1	36	2.0	115	0.44	0.7	0.42	<0.5	0.28	0.16	228	<1	15.6	
E5564308 (9576000)	0.13	0.1	41	1.8	89.2	0.45	0.2	0.43	<0.5	0.27	0.07	255	<1	16.3	
E5564309 (9576001)	0.07	0.1	41	1.7	94.4	0.41	0.3	0.42	<0.5	0.28	0.10	256	<1	16.1	
E5564310 (9576002)	0.04	0.4	37	1.6	123	0.42	0.3	0.42	1.0	0.28	1.30	232	<1	15.6	
E5564311 (9576003)	<0.01	0.1	<5	0.2	<0.1	<0.05	0.5	0.03	<0.5	<0.05	0.16	<5	<1	0.9	
E5564312 (9576004)	<0.01	0.5	<5	0.2	31.5	<0.05	6.4	<0.01	10.0	<0.05	8.90	<5	2	0.7	
E5564313 (9576005)	<0.01	0.8	<5	<0.1	15.1	<0.05	6.9	<0.01	6.6	<0.05	7.47	<5	2	<0.5	
E5564314 (9576006)	<0.01	0.3	<5	0.3	16.7	<0.05	5.0	<0.01	3.5	<0.05	6.77	<5	1	1.7	
E5564315 (9576007)	0.11	0.3	41	1.8	81.2	0.44	0.4	0.48	1.3	0.29	0.25	271	<1	15.9	
E5564316 (9576008)	0.02	29.0	7	18.2	210	1.36	115	0.34	7.3	0.23	24.9	69	14	17.0	
E5564317 (9576009)	0.10	0.5	45	1.8	103	0.47	0.5	0.48	1.3	0.30	0.14	291	<1	17.7	
E5564318 (9576010)	0.06	0.6	12	0.6	47.6	0.15	1.1	0.15	0.6	0.12	2.29	69	<1	5.8	
E5564319 (9576011)	0.36	<0.1	47	2.0	95.1	0.50	0.3	0.48	<0.5	0.29	0.12	283	<1	17.2	
E5564320 (9576012)	0.28	0.1	50	2.2	105	0.52	0.3	0.51	<0.5	0.33	0.10	306	<1	18.4	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018					DATE REPORTED: Oct 05, 2018					SAMPLE TYPE: Other				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5
E5564321 (9576013)		0.27	<0.1	42	1.8	102	0.46	0.3	0.47	<0.5	0.28	0.08	268	<1	17.4
E5564322 (9576014)		0.24	0.1	42	1.8	111	0.43	0.2	0.43	<0.5	0.31	0.06	272	<1	16.7
E5564323 (9576015)		0.10	1.0	43	1.9	114	0.46	0.3	0.47	<0.5	0.31	0.07	284	6	17.8
E5564324 (9576016)		0.10	0.4	45	1.8	95.8	0.46	0.2	0.47	<0.5	0.31	0.08	281	2	17.7

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018	DATE REPORTED: Oct 05, 2018	SAMPLE TYPE: Other
Analyte:	Yb	Zn	Zr
Unit:	ppm	ppm	ppm
RDL:	0.1	5	0.5
Sample ID (AGAT ID)			
E5564193 (9575885)	2.0	112	53.0
E5564194 (9575886)	0.1	168	27.0
E5564195 (9575887)	2.1	80	53.3
E5564196 (9575888)	1.5	347	185
E5564197 (9575889)	2.4	91	57.4
E5564198 (9575890)	<0.1	24	16.1
E5564199 (9575891)	2.1	91	51.6
E5564200 (9575892)	2.2	91	52.7
E5564201 (9575893)	2.1	92	46.3
E5564202 (9575894)	2.1	87	50.7
E5564203 (9575895)	2.0	83	48.5
E5564204 (9575896)	2.0	86	49.7
E5564205 (9575897)	2.0	193	41.0
E5564206 (9575898)	2.0	95	47.6
E5564207 (9575899)	2.0	83	48.9
E5564208 (9575900)	<0.1	88	7.8
E5564209 (9575901)	<0.1	38	1.4
E5564210 (9575902)	<0.1	17	3.0
E5564211 (9575903)	0.1	<5	24.6
E5564212 (9575904)	<0.1	53	1.8
E5564213 (9575905)	<0.1	143	2.0
E5564214 (9575906)	<0.1	212	3.8
E5564215 (9575907)	<0.1	199	2.7
E5564216 (9575908)	<0.1	231	2.9
E5564217 (9575909)	<0.1	158	3.6
E5564218 (9575910)	<0.1	147	7.3
E5564219 (9575911)	1.8	140	232
E5564220 (9575912)	<0.1	113	9.8
E5564221 (9575913)	<0.1	114	7.1
E5564222 (9575914)	<0.1	139	6.6
E5564223 (9575915)	<0.1	169	9.1
E5564224 (9575916)	<0.1	136	2.9

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018	DATE REPORTED: Oct 05, 2018	SAMPLE TYPE: Other	
Analyte:	Yb	Zn	Zr	
Unit:	ppm	ppm	ppm	
RDL:	0.1	5	0.5	
Sample ID (AGAT ID)				
E5564225 (9575917)	<0.1	115	9.8	
E5564226 (9575918)	<0.1	38	8.4	
E5564227 (9575919)	<0.1	45	15.0	
E5564228 (9575920)	2.2	96	50.3	
E5564229 (9575921)	2.1	93	51.1	
E5564230 (9575922)	2.0	83	51.2	
E5564231 (9575923)	0.2	<5	26.8	
E5564232 (9575924)	2.3	93	51.5	
E5564233 (9575925)	2.3	88	56.1	
E5564234 (9575926)	2.3	95	52.5	
E5564235 (9575927)	2.1	128	53.4	
E5564236 (9575928)	1.6	353	191	
E5564237 (9575929)	2.1	103	50.6	
E5564238 (9575930)	2.1	111	56.1	
E5564239 (9575931)	2.3	90	52.0	
E5564240 (9575932)	2.0	89	52.9	
E5564241 (9575933)	2.2	86	55.7	
E5564242 (9575934)	2.1	96	52.7	
E5564243 (9575935)	2.2	82	55.1	
E5564244 (9575936)	0.1	51	20.5	
E5564245 (9575937)	1.7	393	46.4	
E5564246 (9575938)	2.1	106	52.9	
E5564247 (9575939)	2.1	92	56.2	
E5564248 (9575940)	<0.1	87	27.6	
E5564249 (9575941)	<0.1	21	33.3	
E5564250 (9575942)	<0.1	17	20.9	
E5564251 (9575943)	0.2	<5	28.4	
E5564252 (9575944)	2.2	230	50.4	
E5564253 (9575945)	2.0	308	46.1	
E5564254 (9575946)	<0.1	12	47.2	
E5564255 (9575947)	<0.1	28	17.8	
E5564256 (9575948)	<0.1	25	17.0	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018 DATE RECEIVED: Sep 21, 2018 DATE REPORTED: Oct 05, 2018 SAMPLE TYPE: Other

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564257 (9575949)		0.2	38	18.3
E5564258 (9575950)		2.1	85	53.2
E5564259 (9575951)		2.0	149	254
E5564260 (9575952)		2.4	65	47.8
E5564261 (9575953)		2.0	57	48.8
E5564262 (9575954)		2.3	91	50.8
E5564263 (9575955)		2.3	84	52.4
E5564264 (9575956)		2.1	59	47.6
E5564265 (9575957)		2.3	129	53.9
E5564266 (9575958)		1.8	76	49.2
E5564267 (9575959)		0.3	92	35.3
E5564268 (9575960)		1.8	66	49.2
E5564269 (9575961)		2.1	88	51.3
E5564270 (9575962)		<0.1	17	25.9
E5564271 (9575963)		0.2	<5	30.3
E5564272 (9575964)		2.3	178	52.7
E5564273 (9575965)		1.6	74	68.5
E5564274 (9575966)		1.8	67	44.8
E5564275 (9575967)		2.1	88	51.0
E5564276 (9575968)		1.6	345	194
E5564277 (9575969)		2.1	87	50.5
E5564278 (9575970)		2.1	89	49.6
E5564279 (9575971)		2.1	76	50.0
E5564280 (9575972)		2.1	76	49.3
E5564281 (9575973)		2.1	82	51.6
E5564282 (9575974)		2.1	93	49.4
E5564283 (9575975)		<0.1	137	3.1
E5564284 (9575976)		<0.1	171	2.5
E5564285 (9575977)		<0.1	179	5.2
E5564286 (9575978)		<0.1	246	17.6
E5564287 (9575979)		<0.1	152	4.6
E5564288 (9575980)		<0.1	24	9.2

Certified By:



Certificate of Analysis

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CLIENT NAME: ARDIDEN LTD

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 21, 2018	DATE REPORTED: Oct 05, 2018	SAMPLE TYPE: Other	
Analyte:	Yb	Zn	Zr	
Unit:	ppm	ppm	ppm	
RDL:	0.1	5	0.5	
Sample ID (AGAT ID)				
E5564289 (9575981)	<0.1	62	12.9	
E5564290 (9575982)	<0.1	98	13.8	
E5564291 (9575983)	0.1	<5	29.8	
E5564292 (9575984)	<0.1	21	8.6	
E5564293 (9575985)	0.3	56	15.8	
E5564294 (9575986)	<0.1	102	8.3	
E5564295 (9575987)	<0.1	39	17.3	
E5564296 (9575988)	2.0	94	43.2	
E5564297 (9575989)	2.1	94	44.6	
E5564298 (9575990)	2.0	91	42.2	
E5564299 (9575991)	1.8	137	216	
E5564300 (9575992)	1.8	83	42.3	
E5564301 (9575993)	2.0	78	40.8	
E5564302 (9575994)	2.1	77	43.4	
E5564303 (9575995)	2.1	84	44.0	
E5564304 (9575996)	1.9	86	56.2	
E5564305 (9575997)	1.8	70	40.6	
E5564306 (9575998)	1.9	74	40.0	
E5564307 (9575999)	1.8	85	46.2	
E5564308 (9576000)	2.0	84	43.7	
E5564309 (9576001)	2.0	83	42.5	
E5564310 (9576002)	1.9	61	42.6	
E5564311 (9576003)	0.1	<5	21.4	
E5564312 (9576004)	<0.1	36	22.8	
E5564313 (9576005)	<0.1	33	23.4	
E5564314 (9576006)	0.1	26	32.0	
E5564315 (9576007)	2.0	69	46.9	
E5564316 (9576008)	1.6	341	168	
E5564317 (9576009)	2.1	81	49.8	
E5564318 (9576010)	0.8	38	19.5	
E5564319 (9576011)	2.3	127	48.5	
E5564320 (9576012)	2.2	139	53.0	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18T388647

PROJECT:

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CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 21, 2018

DATE REPORTED: Oct 05, 2018

SAMPLE TYPE: Other

Analyte:	Yb	Zn	Zr
Unit:	ppm	ppm	ppm
RDL:	0.1	5	0.5
Sample ID (AGAT ID)			
E5564321 (9576013)	2.1	91	46.6
E5564322 (9576014)	2.0	79	43.5
E5564323 (9576015)	2.2	91	47.3
E5564324 (9576016)	2.1	85	47.6

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9575885	2.89	2.90	0.3%	9575901	2.67	2.64	1.1%	9575910	2.78	2.77	0.4%	9575937	3.00	2.99	0.3%
Parameter	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9575956	2.97	2.95	0.7%	9575974	2.97	3.02	1.7%	9575992	3.06	3.11	1.6%	9576010	2.77	2.81	1.4%

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9575885	541	558	3.1%	9575901	389	376	3.4%	9575910	4920	4830	1.8%	9575919	1590	1550	2.5%
Li2O	9575885	0.117	0.120	2.5%	9575901	0.0837	0.0810	3.3%	9575910	1.06	1.04	1.9%	9575919	0.342	0.334	2.4%
Ta	9575885	< 0.5	< 0.5	0.0%	9575901	16.5	15.0	9.5%	9575910	58.6	51.8	12.3%	9575919	37.7	43.3	13.8%
Nb	9575885	2	2	0.0%	9575901	20	20	0.0%	9575910	78	71	9.4%	9575919	38	40	5.1%
Sn	9575885	2	1	66.7%	9575901	12	12	0.0%	9575910	53	47	12.0%	9575919	8	8	0.0%
Cs	9575885	67.6	65.2	3.6%	9575901	404	418	3.4%	9575910	541	549	1.5%	9575919	303	306	1.0%
Rb	9575885	116	115	0.9%	9575901	5140	5350	4.0%	9575910	3540	3250	8.5%	9575919	2990	2950	1.3%
K	9575885	0.44	0.47	6.6%	9575901	5.84	5.82	0.3%	9575910	2.76	2.49	10.3%	9575919	2.92	2.87	1.7%
Mg	9575885	3.15	3.29	4.3%	9575901	0.047	0.042	11.2%	9575910	0.148	0.132	11.4%	9575919	0.056	0.054	3.6%
Fe	9575885	7.67	7.60	0.9%	9575901	0.26	0.25	3.9%	9575910	0.78	0.71	9.4%	9575919	0.384	0.399	3.8%
P	9575885	0.03	0.03	0.0%	9575901	0.065	0.065	0.0%	9575910	0.06	0.07	15.4%	9575919	0.06	0.06	0.0%
Al	9575885	8.23	8.64	4.9%	9575901	8.03	7.89	1.8%	9575910	7.58	7.09	6.7%	9575919	6.81	6.80	0.1%
Si	9575885	23.4	24.0	2.5%	9575901	32.3	31.9	1.2%	9575910	33.8	33.6	0.6%	9575919	35.5	34.7	2.3%
Be	9575885	< 5	< 5	0.0%	9575901	10	11	9.5%	9575910	62	77		9575919	210	218	3.7%
B	9575885	20	22	9.5%	9575901	< 20	< 20	0.0%	9575910	20	23	14.0%	9575919	< 20	< 20	0.0%
Mn	9575885	1800	1830	1.7%	9575901	204	201	1.5%	9575910	732	624	15.9%	9575919	326	341	4.5%
Mo	9575885	< 2	< 2	0.0%	9575901	5	6	18.2%	9575910	11	13	16.7%	9575919	12	12	0.0%
Bi	9575885	0.3	0.3	0.0%	9575901	0.80	0.87	8.4%	9575910	6.1	7.0	13.7%	9575919	2.20	1.82	18.9%
As	9575885	< 5	< 5	0.0%	9575901	< 5	< 5	0.0%	9575910	< 5	< 5	0.0%	9575919	< 5	< 5	0.0%
Ag	9575885	< 1	< 1	0.0%	9575901	< 1	< 1	0.0%	9575910	< 1	< 1	0.0%	9575919	< 1	< 1	0.0%
Ba	9575885	101	106	4.8%	9575901	78.7	76.7	2.6%	9575910	21.8	23.6	7.9%	9575919	30.8	31.1	1.0%
Ca	9575885	6.49	6.53	0.6%	9575901	0.169	0.163	3.6%	9575910	0.199	0.217	8.7%	9575919	0.30	0.30	0.0%
Cd	9575885	< 0.2	< 0.2	0.0%	9575901	< 0.2	< 0.2	0.0%	9575910	< 0.2	< 0.2	0.0%	9575919	< 0.2	< 0.2	0.0%
Ce	9575885	7.3	7.1	2.8%	9575901	0.26	0.24	8.0%	9575910	0.44	0.46	4.4%	9575919	0.70	0.75	6.9%



CLIENT NAME: ARDIDEN LTD

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Co	9575885	61.2	59.9	2.1%	9575901	0.7	0.8	13.3%	9575910	2.1	2.1	0.0%	9575919	1.14	1.37	18.3%
Cr	9575885	0.0324	0.0338	4.2%	9575901	0.007	0.007	0.0%	9575910	0.0172	0.0221	24.9%	9575919	0.018	0.018	0.0%
Cu	9575885	184	176	4.4%	9575901	< 5	< 5	0.0%	9575910	< 5	< 5	0.0%	9575919	< 5	6	
Dy	9575885	3.12	3.06	1.9%	9575901	< 0.05	< 0.05	0.0%	9575910	< 0.05	< 0.05	0.0%	9575919	0.06	0.07	15.4%
Er	9575885	1.88	1.86	1.1%	9575901	< 0.05	< 0.05	0.0%	9575910	< 0.05	< 0.05	0.0%	9575919	< 0.05	< 0.05	0.0%
Eu	9575885	0.70	0.66	5.9%	9575901	< 0.05	< 0.05	0.0%	9575910	< 0.05	< 0.05	0.0%	9575919	< 0.05	< 0.05	0.0%
Ga	9575885	17.5	17.4	0.6%	9575901	33.9	35.4	4.3%	9575910	64.1	56.2	13.1%	9575919	33.6	34.8	3.5%
Gd	9575885	2.48	2.35	5.4%	9575901	< 0.05	< 0.05	0.0%	9575910	0.050	0.043	15.1%	9575919	0.14	0.15	6.9%
Ge	9575885	2	2	0.0%	9575901	6	6	0.0%	9575910	6	6	0.0%	9575919	6	6	0.0%
Hf	9575885	1	1	0.0%	9575901	< 1	< 1	0.0%	9575910	< 1	1		9575919	2	2	0.0%
Ho	9575885	0.62	0.63	1.6%	9575901	< 0.05	< 0.05	0.0%	9575910	< 0.05	< 0.05	0.0%	9575919	< 0.05	< 0.05	0.0%
In	9575885	< 0.2	< 0.2	0.0%	9575901	< 0.2	< 0.2	0.0%	9575910	< 0.2	< 0.2	0.0%	9575919	< 0.2	< 0.2	0.0%
La	9575885	2.7	2.6	3.8%	9575901	0.1	0.1	0.0%	9575910	0.2	0.2	0.0%	9575919	0.2	0.2	0.0%
Lu	9575885	0.27	0.27	0.0%	9575901	< 0.05	< 0.05	0.0%	9575910	< 0.05	< 0.05	0.0%	9575919	< 0.05	< 0.05	0.0%
Nd	9575885	5.6	5.5	1.8%	9575901	0.15	0.15	0.0%	9575910	0.2	0.2	0.0%	9575919	0.7	0.7	0.0%
Ni	9575885	146	151	3.4%	9575901	< 5	6		9575910	12	13	8.0%	9575919	7	14	
Pb	9575885	5	5	0.0%	9575901	12	12	0.0%	9575910	< 5	< 5	0.0%	9575919	7	7	0.0%
Pr	9575885	1.08	1.04	3.8%	9575901	< 0.05	< 0.05	0.0%	9575910	0.044	0.051	14.7%	9575919	0.129	0.136	5.3%
S	9575885	0.145	0.154	6.0%	9575901	< 0.01	< 0.01	0.0%	9575910	< 0.01	< 0.01	0.0%	9575919	< 0.01	< 0.01	0.0%
Sb	9575885	0.1	0.1	0.0%	9575901	0.2	0.2	0.0%	9575910	0.43	0.56	26.3%	9575919	0.57	0.52	9.2%
Sc	9575885	45	45	0.0%	9575901	< 5	< 5	0.0%	9575910	< 5	< 5	0.0%	9575919	< 5	< 5	0.0%
Sm	9575885	1.86	1.69	9.6%	9575901	< 0.1	< 0.1	0.0%	9575910	< 0.1	< 0.1	0.0%	9575919	0.1	0.2	
Sr	9575885	89.8	92.5	3.0%	9575901	69.5	68.9	0.9%	9575910	44.4	40.1	10.2%	9575919	43.4	43.1	0.7%
Tb	9575885	0.46	0.45	2.2%	9575901	< 0.05	< 0.05	0.0%	9575910	< 0.05	< 0.05	0.0%	9575919	< 0.05	< 0.05	0.0%
Th	9575885	0.38	0.35	8.2%	9575901	0.89	0.80	10.7%	9575910	1.6	2.3		9575919	3.20	2.93	8.8%
Ti	9575885	0.49	0.50	2.0%	9575901	< 0.01	< 0.01	0.0%	9575910	0.015	0.012	22.2%	9575919	< 0.01	< 0.01	0.0%
Tl	9575885	1.06	1.04	1.9%	9575901	43.7	45.8	4.7%	9575910	25.9	23.6	9.3%	9575919	26.9	27.1	0.7%
Tm	9575885	0.296	0.268	9.9%	9575901	< 0.05	< 0.05	0.0%	9575910	< 0.05	< 0.05	0.0%	9575919	< 0.05	< 0.05	0.0%
U	9575885	0.11	0.10	9.5%	9575901	0.68	0.66	3.0%	9575910	3.21	3.77	16.0%	9575919	6.80	6.91	1.6%
V	9575885	285	289	1.4%	9575901	< 5	< 5	0.0%	9575910	7	6	15.4%	9575919	< 5	< 5	0.0%
W	9575885	< 1	< 1	0.0%	9575901	< 1	< 1	0.0%	9575910	4	4	0.0%	9575919	1	1	0.0%
Y	9575885	16.9	16.5	2.4%	9575901	< 0.5	< 0.5	0.0%	9575910	< 0.5	< 0.5	0.0%	9575919	0.5	0.5	0.0%
Yb	9575885	2.0	2.0	0.0%	9575901	< 0.1	< 0.1	0.0%	9575910	< 0.1	< 0.1	0.0%	9575919	< 0.1	< 0.1	0.0%
Zn	9575885	112	120	6.9%	9575901	38	36	5.4%	9575910	147	130	12.3%	9575919	45	45	0.0%



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Zr	9575885	53.0	51.5	2.9%	9575901	1.41	1.46	3.5%	9575910	7.3	9.7		9575919	15.0	13.7	9.1%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9575935	442	441	0.2%	9575937	1000	998	0.2%	9575956	492	495	0.6%	9575960	758	711	6.4%
Li2O	9575935	0.095	0.095	0.0%	9575937	0.215	0.215	0.0%	9575956	0.106	0.106	0.0%	9575960	0.163	0.153	6.3%
Ta	9575935	0.9	0.7	25.0%	9575937	18.5	19.3	4.2%	9575956	< 0.5	< 0.5	0.0%	9575960	1.50	1.76	16.0%
Nb	9575935	2	2	0.0%	9575937	9	10	10.5%	9575956	2	2	0.0%	9575960	4	3	28.6%
Sn	9575935	< 1	< 1	0.0%	9575937	8	7	13.3%	9575956	1	< 1		9575960	< 1	< 1	0.0%
Cs	9575935	15.1	15.3	1.3%	9575937	640	664	3.7%	9575956	21.1	21.8	3.3%	9575960	92.1	92.9	0.9%
Rb	9575935	93.5	91.6	2.1%	9575937	1090	1110	1.8%	9575956	55.8	57.6	3.2%	9575960	308	317	2.9%
K	9575935	0.669	0.612	8.9%	9575937	1.32	1.31	0.8%	9575956	0.50	0.50	0.0%	9575960	0.45	0.48	6.5%
Mg	9575935	3.04	3.07	1.0%	9575937	3.36	3.39	0.9%	9575956	4.65	4.74	1.9%	9575960	3.05	2.98	2.3%
Fe	9575935	8.48	7.84	7.8%	9575937	6.57	6.60	0.5%	9575956	9.46	9.36	1.1%	9575960	5.97	5.98	0.2%
P	9575935	0.03	0.03	0.0%	9575937	0.04	0.04	0.0%	9575956	0.03	0.03	0.0%	9575960	0.03	0.03	0.0%
Al	9575935	7.84	7.49	4.6%	9575937	8.29	8.25	0.5%	9575956	7.01	7.14	1.8%	9575960	7.57	7.77	2.6%
Si	9575935	23.7	23.9	0.8%	9575937	23.4	23.5	0.4%	9575956	22.7	23.0	1.3%	9575960	26.1	25.6	1.9%
Be	9575935	< 5	< 5	0.0%	9575937	40	41	2.5%	9575956	< 5	< 5	0.0%	9575960	< 5	< 5	0.0%
B	9575935	31	25	21.4%	9575937	38	41	7.6%	9575956	28	26	7.4%	9575960	< 20	< 20	0.0%
Mn	9575935	1800	1700	5.7%	9575937	1590	1590	0.0%	9575956	1730	1750	1.1%	9575960	1370	1380	0.7%
Mo	9575935	3	4	28.6%	9575937	6	6	0.0%	9575956	3	3	0.0%	9575960	3	2	
Bi	9575935	0.4	0.4	0.0%	9575937	1.5	1.5	0.0%	9575956	0.4	0.4	0.0%	9575960	0.8	0.5	
As	9575935	< 5	< 5	0.0%	9575937	21	19	10.0%	9575956	< 5	< 5	0.0%	9575960	< 5	6	
Ag	9575935	< 1	< 1	0.0%	9575937	< 1	< 1	0.0%	9575956	< 1	< 1	0.0%	9575960	< 1	< 1	0.0%
Ba	9575935	141	143	1.4%	9575937	217	217	0.0%	9575956	116	116	0.0%	9575960	46.7	50.7	8.2%
Ca	9575935	7.51	7.13	5.2%	9575937	6.13	6.10	0.5%	9575956	5.13	5.07	1.2%	9575960	5.46	5.34	2.2%
Cd	9575935	< 0.2	< 0.2	0.0%	9575937	1.4	1.4	0.0%	9575956	< 0.2	< 0.2	0.0%	9575960	< 0.2	< 0.2	0.0%
Ce	9575935	7.5	6.8	9.8%	9575937	7.8	7.7	1.3%	9575956	9.2	9.6	4.3%	9575960	6.2	6.0	3.3%
Co	9575935	57.4	54.4	5.4%	9575937	51.6	52.7	2.1%	9575956	52.0	52.7	1.3%	9575960	58.6	58.7	0.2%
Cr	9575935	0.035	0.035	0.0%	9575937	0.0306	0.0304	0.7%	9575956	0.031	0.031	0.0%	9575960	0.0327	0.0299	8.9%
Cu	9575935	153	143	6.8%	9575937	216	218	0.9%	9575956	44	45	2.2%	9575960	129	137	6.0%
Dy	9575935	3.52	3.06	14.0%	9575937	2.83	2.62	7.7%	9575956	2.99	2.87	4.1%	9575960	2.80	2.77	1.1%
Er	9575935	2.08	1.81	13.9%	9575937	1.62	1.64	1.2%	9575956	1.89	1.84	2.7%	9575960	1.77	1.72	2.9%
Eu	9575935	0.74	0.65	12.9%	9575937	0.67	0.63	6.2%	9575956	0.671	0.707	5.2%	9575960	0.650	0.613	5.9%
Ga	9575935	18.6	17.3	7.2%	9575937	22.7	23.3	2.6%	9575956	15.7	16.3	3.8%	9575960	17.7	17.1	3.4%



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Gd	9575935	2.65	2.31	13.7%	9575937	2.07	2.07	0.0%	9575956	2.36	2.37	0.4%	9575960	2.24	2.16	3.6%
Ge	9575935	2	2	0.0%	9575937	3	3	0.0%	9575956	2	2	0.0%	9575960	1	1	0.0%
Hf	9575935	1	1	0.0%	9575937	1	2		9575956	1	1	0.0%	9575960	1	1	0.0%
Ho	9575935	0.70	0.62	12.1%	9575937	0.545	0.557	2.2%	9575956	0.62	0.61	1.6%	9575960	0.62	0.56	10.2%
In	9575935	< 0.2	< 0.2	0.0%	9575937	< 0.2	< 0.2	0.0%	9575956	< 0.2	< 0.2	0.0%	9575960	< 0.2	< 0.2	0.0%
La	9575935	2.70	2.51	7.3%	9575937	3.2	3.2	0.0%	9575956	4.0	4.1	2.5%	9575960	2.13	2.03	4.8%
Lu	9575935	0.33	0.31	6.3%	9575937	0.273	0.264	3.4%	9575956	0.32	0.33	3.1%	9575960	0.27	0.27	0.0%
Nd	9575935	5.78	5.25	9.6%	9575937	5.01	5.08	1.4%	9575956	6.0	6.4	6.5%	9575960	5.0	5.0	0.0%
Ni	9575935	130	126	3.1%	9575937	106	105	0.9%	9575956	134	127	5.4%	9575960	141	138	2.2%
Pb	9575935	9	8	11.8%	9575937	89	94	5.5%	9575956	< 5	< 5	0.0%	9575960	< 5	< 5	0.0%
Pr	9575935	1.14	1.02	11.1%	9575937	1.07	1.04	2.8%	9575956	1.32	1.31	0.8%	9575960	0.96	0.93	3.2%
S	9575935	0.111	0.095	15.5%	9575937	0.16	0.16	0.0%	9575956	0.03	0.03	0.0%	9575960	0.06	0.06	0.0%
Sb	9575935	0.5	0.5	0.0%	9575937	4.4	4.5	2.2%	9575956	< 0.1	< 0.1	0.0%	9575960	< 0.1	< 0.1	0.0%
Sc	9575935	42	41	2.4%	9575937	36	36	0.0%	9575956	39	39	0.0%	9575960	34	34	0.0%
Sm	9575935	1.87	1.69	10.1%	9575937	1.6	1.6	0.0%	9575956	1.8	1.8	0.0%	9575960	1.72	1.62	6.0%
Sr	9575935	84.6	80.6	4.8%	9575937	112	110	1.8%	9575956	58.6	58.8	0.3%	9575960	101	104	2.9%
Tb	9575935	0.47	0.45	4.3%	9575937	0.394	0.410	4.0%	9575956	0.423	0.427	0.9%	9575960	0.42	0.41	2.4%
Th	9575935	0.3	0.3	0.0%	9575937	1.06	1.05	0.9%	9575956	0.3	0.3	0.0%	9575960	1.6	0.7	
Ti	9575935	0.48	0.46	4.3%	9575937	0.42	0.42	0.0%	9575956	0.404	0.409	1.2%	9575960	0.433	0.439	1.4%
Tl	9575935	0.6	0.6	0.0%	9575937	10.7	11.1	3.7%	9575956	< 0.5	< 0.5	0.0%	9575960	3.1	3.2	3.2%
Tm	9575935	0.30	0.28	6.9%	9575937	0.261	0.251	3.9%	9575956	0.271	0.300	10.2%	9575960	0.27	0.27	0.0%
U	9575935	0.30	0.32	6.5%	9575937	1.33	1.33	0.0%	9575956	0.234	0.224	4.4%	9575960	0.34	0.39	13.7%
V	9575935	276	268	2.9%	9575937	229	230	0.4%	9575956	242	241	0.4%	9575960	238	233	2.1%
W	9575935	< 1	< 1	0.0%	9575937	< 1	< 1	0.0%	9575956	2	2	0.0%	9575960	< 1	< 1	0.0%
Y	9575935	19.1	17.8	7.0%	9575937	15.7	15.6	0.6%	9575956	17.3	17.6	1.7%	9575960	16.0	16.1	0.6%
Yb	9575935	2.20	1.94	12.6%	9575937	1.7	1.8	5.7%	9575956	2.08	2.05	1.5%	9575960	1.8	1.8	0.0%
Zn	9575935	82	76	7.6%	9575937	393	393	0.0%	9575956	59	58	1.7%	9575960	66	69	4.4%
Zr	9575935	55.1	52.5	4.8%	9575937	46.4	48.2	3.8%	9575956	47.6	48.0	0.8%	9575960	49.2	48.6	1.2%
		REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12		
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9575974	835	832	0.4%	9575985	773	758	2.0%	9575992	170	173	1.7%	9576010	179	178	0.6%
Li2O	9575974	0.180	0.179	0.6%	9575985	0.166	0.163	1.8%	9575992	0.037	0.037	0.0%	9576010	0.0385	0.0383	0.5%
Ta	9575974	0.97	0.91	6.4%	9575985	189	168	11.8%	9575992	< 0.5	< 0.5	0.0%	9576010	122	164	29.4%
Nb	9575974	2	2	0.0%	9575985	75	64	15.8%	9575992	6	3		9576010	29	36	21.5%



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Sn	9575974	< 1	< 1	0.0%	9575985	1	1	0.0%	9575992	2	< 1		9576010	3	4	28.6%
Cs	9575974	1180	1150	2.6%	9575985	330	334	1.2%	9575992	75.3	80.5	6.7%	9576010	25.7	26.5	3.1%
Rb	9575974	561	551	1.8%	9575985	1530	1510	1.3%	9575992	40.1	42.0	4.6%	9576010	73.0	84.1	14.1%
K	9575974	0.76	0.76	0.0%	9575985	0.694	0.664	4.4%	9575992	0.131	0.148	12.2%	9576010	0.209	0.216	3.3%
Mg	9575974	5.49	5.32	3.1%	9575985	0.645	0.695	7.5%	9575992	3.06	3.21	4.8%	9576010	1.08	1.14	5.4%
Fe	9575974	9.03	9.28	2.7%	9575985	1.43	1.44	0.7%	9575992	7.58	7.52	0.8%	9576010	2.68	2.77	3.3%
P	9575974	0.03	0.03	0.0%	9575985	0.19	0.19	0.0%	9575992	0.03	0.03	0.0%	9576010	0.089	0.106	17.4%
Al	9575974	7.20	7.25	0.7%	9575985	8.22	7.84	4.7%	9575992	7.43	7.59	2.1%	9576010	4.89	5.51	11.9%
Si	9575974	21.3	21.3	0.0%	9575985	31.4	29.7	5.6%	9575992	21.4	21.9	2.3%	9576010	31.4	31.0	1.3%
Be	9575974	7	6	15.4%	9575985	76	86	12.3%	9575992	< 5	< 5	0.0%	9576010	34	37	8.5%
B	9575974	17	22	25.6%	9575985	< 20	< 20	0.0%	9575992	< 20	< 20	0.0%	9576010	< 20	< 20	0.0%
Mn	9575974	1460	1460	0.0%	9575985	577	577	0.0%	9575992	1690	1740	2.9%	9576010	1120	1130	0.9%
Mo	9575974	< 2	< 2	0.0%	9575985	4	5	22.2%	9575992	< 2	< 2	0.0%	9576010	7	6	15.4%
Bi	9575974	0.9	1.0	10.5%	9575985	5.2	6.2	17.5%	9575992	0.5	0.3		9576010	0.48	0.45	6.5%
As	9575974	< 5	< 5	0.0%	9575985	< 5	< 5	0.0%	9575992	< 5	< 5	0.0%	9576010	< 5	< 5	0.0%
Ag	9575974	< 1	< 1	0.0%	9575985	< 1	< 1	0.0%	9575992	< 1	< 1	0.0%	9576010	< 1	< 1	0.0%
Ba	9575974	50.8	50.6	0.4%	9575985	18.0	18.6	3.3%	9575992	35.9	34.8	3.1%	9576010	31.2	32.1	2.8%
Ca	9575974	7.04	7.25	2.9%	9575985	1.55	1.53	1.3%	9575992	10.2	10.1	1.0%	9576010	7.05	6.83	3.2%
Cd	9575974	< 0.2	< 0.2	0.0%	9575985	0.2	0.2	0.0%	9575992	< 0.2	< 0.2	0.0%	9576010	< 0.2	< 0.2	0.0%
Ce	9575974	6.67	6.43	3.7%	9575985	1.2	1.2	0.0%	9575992	7.27	6.68	8.5%	9576010	2.5	2.6	3.9%
Co	9575974	58.0	57.3	1.2%	9575985	10.3	10.8	4.7%	9575992	49.3	51.4	4.2%	9576010	17.4	17.9	2.8%
Cr	9575974	0.025	0.025	0.0%	9575985	0.0118	0.0156	27.7%	9575992	0.031	0.031	0.0%	9576010	0.0206	0.0182	12.4%
Cu	9575974	346	342	1.2%	9575985	144	162	11.8%	9575992	120	125	4.1%	9576010	35	34	2.9%
Dy	9575974	3.04	3.13	2.9%	9575985	0.55	0.59	7.0%	9575992	2.96	3.01	1.7%	9576010	1.06	1.04	1.9%
Er	9575974	1.90	1.87	1.6%	9575985	0.37	0.37	0.0%	9575992	1.83	1.97	7.4%	9576010	0.71	0.71	0.0%
Eu	9575974	0.60	0.64	6.5%	9575985	0.12	0.07		9575992	0.562	0.580	3.2%	9576010	0.19	0.18	5.4%
Ga	9575974	16.4	16.2	1.2%	9575985	31.2	31.0	0.6%	9575992	13.8	14.5	4.9%	9576010	14.3	17.2	18.4%
Gd	9575974	2.34	2.36	0.9%	9575985	0.47	0.47	0.0%	9575992	2.30	2.23	3.1%	9576010	0.79	0.84	6.1%
Ge	9575974	2	3		9575985	6	6	0.0%	9575992	2	2	0.0%	9576010	3	4	28.6%
Hf	9575974	1	1	0.0%	9575985	2	2	0.0%	9575992	1	1	0.0%	9576010	2	2	0.0%
Ho	9575974	0.65	0.65	0.0%	9575985	0.124	0.134	7.8%	9575992	0.592	0.599	1.2%	9576010	0.215	0.221	2.8%
In	9575974	< 0.2	< 0.2	0.0%	9575985	< 0.2	< 0.2	0.0%	9575992	< 0.2	< 0.2	0.0%	9576010	< 0.2	< 0.2	0.0%
La	9575974	2.3	2.2	4.4%	9575985	0.5	0.5	0.0%	9575992	2.84	2.45	14.7%	9576010	0.95	1.00	5.1%
Lu	9575974	0.31	0.31	0.0%	9575985	0.06	0.05	18.2%	9575992	0.296	0.289	2.4%	9576010	0.14	0.14	0.0%



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Nd	9575974	5.11	5.17	1.2%	9575985	0.9	0.9	0.0%	9575992	5.45	5.06	7.4%	9576010	1.8	1.9	5.4%
Ni	9575974	116	118	1.7%	9575985	33	34	3.0%	9575992	132	140	5.9%	9576010	45	46	2.2%
Pb	9575974	5	8		9575985	5	5	0.0%	9575992	< 5	< 5	0.0%	9576010	< 5	< 5	0.0%
Pr	9575974	1.01	1.00	1.0%	9575985	0.17	0.19	11.1%	9575992	1.05	0.96	9.0%	9576010	0.33	0.36	8.7%
S	9575974	0.525	0.529	0.8%	9575985	0.03	0.03	0.0%	9575992	0.09	0.09	0.0%	9576010	0.063	0.053	17.2%
Sb	9575974	0.2	0.2	0.0%	9575985	1.2	1.2	0.0%	9575992	0.4	0.4	0.0%	9576010	0.57	0.49	15.1%
Sc	9575974	39	39	0.0%	9575985	7	7	0.0%	9575992	39	40	2.5%	9576010	12	12	0.0%
Sm	9575974	1.69	1.76	4.1%	9575985	0.3	0.3	0.0%	9575992	1.7	1.7	0.0%	9576010	0.6	0.6	0.0%
Sr	9575974	83.7	83.3	0.5%	9575985	45.5	43.6	4.3%	9575992	74.5	76.1	2.1%	9576010	47.6	48.0	0.8%
Tb	9575974	0.446	0.431	3.4%	9575985	0.093	0.097	4.2%	9575992	0.420	0.426	1.4%	9576010	0.15	0.15	0.0%
Th	9575974	0.24	0.25	4.1%	9575985	4.49	3.94	13.0%	9575992	0.8	0.4		9576010	1.09	1.18	7.9%
Ti	9575974	0.43	0.43	0.0%	9575985	0.08	0.08	0.0%	9575992	0.42	0.43	2.4%	9576010	0.150	0.157	4.6%
Tl	9575974	6.02	5.84	3.0%	9575985	15.1	15.0	0.7%	9575992	< 0.5	< 0.5	0.0%	9576010	0.60	0.66	9.5%
Tm	9575974	0.31	0.28	10.2%	9575985	0.060	0.053	12.4%	9575992	0.27	0.29	7.1%	9576010	0.12	0.11	8.7%
U	9575974	0.089	0.083	7.0%	9575985	5.97	6.26	4.7%	9575992	0.06	0.06	0.0%	9576010	2.29	2.83	21.1%
V	9575974	249	248	0.4%	9575985	37	39	5.3%	9575992	250	255	2.0%	9576010	69	68	1.5%
W	9575974	7	6	15.4%	9575985	1	1	0.0%	9575992	1	1	0.0%	9576010	< 1	< 1	0.0%
Y	9575974	18.0	18.1	0.6%	9575985	3.1	3.3	6.3%	9575992	15.7	15.7	0.0%	9576010	5.8	5.8	0.0%
Yb	9575974	2.1	2.0	4.9%	9575985	0.34	0.39	13.7%	9575992	1.84	1.97	6.8%	9576010	0.8	0.8	0.0%
Zn	9575974	93	92	1.1%	9575985	56	58	3.5%	9575992	83	79	4.9%	9576010	38	46	19.0%
Zr	9575974	49.4	47.8	3.3%	9575985	15.8	16.6	4.9%	9575992	42.3	42.8	1.2%	9576010	19.5	22.6	14.7%



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(201-049) Specific Gravity by Pycnometer

Parameter	CRM #1				CRM #2				CRM #3				CRM #4			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.69	101%	95% - 110%	2.65	2.62	98%	95% - 110%	2.65	2.68	101%	95% - 110%	2.65	2.67	100%	95% - 110%
Parameter	CRM #5				CRM #6				CRM #7				CRM #8			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.61	98%	95% - 110%	2.65	2.64	99%	95% - 110%	2.65	2.65	100%	95% - 110%	2.65	2.68	101%	95% - 110%

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GBM998-10)				CRM #4 (ref.SY-4)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	41	110%	90% - 110%	47	48	101%	90% - 110%					37	41	110%	90% - 110%
Ta	0.9	1	107%	90% - 110%	1.9	1.9	99%	90% - 110%					0.9	1	108%	90% - 110%
Nb	13	14	108%	90% - 110%	20	18	88%	90% - 110%					13	13.6	105%	90% - 110%
Sn	7.1	6.22	87%	90% - 110%									7.1	6.73	95%	90% - 110%
Cs	1.5	1.7	113%	90% - 110%									1.5	1.7	111%	90% - 110%
Rb	55	55	100%	90% - 110%	144	146	101%	90% - 110%					55	55.9	102%	90% - 110%
K	1.37	1.43	104%	90% - 110%	2.55	2.46	97%	90% - 110%					1.37	1.4	102%	90% - 110%
Mg	0.325	0.329	101%	90% - 110%	1.1	1.1	97%	90% - 110%					0.325	0.311	96%	90% - 110%
Fe	4.34	4.31	99%	90% - 110%	3.77	3.6	96%	90% - 110%					4.34	4.24	98%	90% - 110%
Al	10.95	10.95	100%	90% - 110%	8.47	7.65	90%	90% - 110%					10.95	10.53	96%	90% - 110%
Si	23.3	24	103%	90% - 110%	28.4	27.5	97%	90% - 110%					23.3	23.2	100%	90% - 110%
Be					4.0	4.4	111%	90% - 110%								
Mn	836	855	102%	90% - 110%	780	744	95%	90% - 110%					836	834	100%	90% - 110%
Mo					14	14	103%	90% - 110%								
As					26	25	97%	90% - 110%	25	29	115%	90% - 110%				
Ba	340	335	99%	90% - 110%	540	488	90%	90% - 110%					340	306	90%	90% - 110%
Ca	5.72	5.84	102%	90% - 110%	0.907	0.867	95%	90% - 110%					5.72	5.74	100%	90% - 110%
Ce	122	127	104%	90% - 110%	98	105	107%	90% - 110%					122	134	110%	90% - 110%
Co	2.8	2.6	94%	90% - 110%	15	15	100%	90% - 110%	1202	1330	110%	90% - 110%	2.8	2.9	102%	90% - 110%
Cu	7	7	98%	90% - 110%	150	154	102%	90% - 110%	15414	15309	99%	90% - 110%				
Dy	18.2	19.8	109%	90% - 110%									18.2	20.0	109%	90% - 110%
Er	14.2	14.2	100%	90% - 110%	3.7	3.8	102%	90% - 110%					14.2	14.8	104%	90% - 110%
Eu	2.0	1.9	94%	90% - 110%	1.0	1.2	120%	90% - 110%					2.0	2.1	106%	90% - 110%
Ga	35	35	101%	90% - 110%									35	38	107%	90% - 110%



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Gd	14	14	101%	90% - 110%									14	15	109%	90% - 110%
Hf	10.6	11.5	109%	90% - 110%	11	10	89%	90% - 110%					10.6	11.3	107%	90% - 110%
Ho	4.3	4.3	100%	90% - 110%									4.3	4.5	104%	90% - 110%
La	58	58	99%	90% - 110%	44	45	101%	90% - 110%					58	61	105%	90% - 110%
Lu	2.1	2.2	103%	90% - 110%	0.6	0.6	94%	90% - 110%					2.1	2.3	110%	90% - 110%
Nd	57	58	101%	90% - 110%									57	60	105%	90% - 110%
Ni	9	9	99%	90% - 110%	32	33	105%	90% - 110%	23610	21564	91%	90% - 110%	9	8	90%	90% - 110%
Pb	10	9	95%	90% - 110%	31	30	98%	90% - 110%	41	41	99%	90% - 110%	10	10	99%	90% - 110%
Pr	15.0	14.9	100%	90% - 110%									15.0	15.9	106%	90% - 110%
Sb					0.8	0.8	98%	90% - 110%								
Sc					12	10	87%	90% - 110%								
Sm	12.7	12.6	99%	90% - 110%	7.4	7.4	101%	90% - 110%					12.7	13.5	106%	90% - 110%
Sr	1191	1206	101%	90% - 110%	144	137	95%	90% - 110%					1191	1153	97%	90% - 110%
Tb	2.6	2.7	106%	90% - 110%	1.2	1.2	97%	90% - 110%					2.6	2.8	107%	90% - 110%
Th	1.4	1.4	101%	90% - 110%	18.4	17.1	93%	90% - 110%					1.4	1.2	88%	90% - 110%
Ti	0.172	0.166	96%	90% - 110%	0.527	0.484	91%	90% - 110%					0.172	0.16	93%	90% - 110%
Tm	2.3	2.3	99%	90% - 110%									2.3	2.4	104%	90% - 110%
U	0.8	0.9	114%	90% - 110%	5.7	5.2	91%	90% - 110%					0.8	0.9	109%	90% - 110%
V	8	6	79%	90% - 110%	77	70	90%	90% - 110%					8	6	71%	90% - 110%
W					5	5	102%	90% - 110%								
Y	119	122	102%	90% - 110%	40	38	94%	90% - 110%					119	130	109%	90% - 110%
Yb	14.8	15.9	107%	90% - 110%									14.8	16.4	110%	90% - 110%
Zn	93	97	105%	90% - 110%	130	125	96%	90% - 110%	90	89	99%	90% - 110%	93	98	105%	90% - 110%
Zr	517	557	107%	90% - 110%	390	407	104%	90% - 110%								
	CRM #5 (ref.Till-2)				CRM #6 (ref.SY-4)				CRM #7 (ref.Till-2)				CRM #8 (ref.GBM998-10)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	47	53	112%	90% - 110%	37	41	110%	90% - 110%	47	50	107%	90% - 110%				
Ta	1.9	2	107%	90% - 110%	0.9	1	106%	90% - 110%	1.9	1.9	100%	90% - 110%				
Nb	20	19.0	95%	90% - 110%	13	13.8	106%	90% - 110%	20	19	93%	90% - 110%				
Sn					7.1	7.06	99%	90% - 110%								
Cs					1.5	1.7	114%	90% - 110%								
Rb	144	151	105%	90% - 110%	55	55.0	100%	90% - 110%	144	141	98%	90% - 110%				
K	2.55	2.43	95%	90% - 110%	1.37	1.35	99%	90% - 110%	2.55	2.38	93%	90% - 110%				
Mg	1.1	1.2	105%	90% - 110%	0.325	0.318	98%	90% - 110%	1.1	1	95%	90% - 110%				



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Fe	3.77	3.71	98%	90% - 110%	4.34	4.14	95%	90% - 110%	3.77	3.6	95%	90% - 110%				
Al	8.47	8.03	95%	90% - 110%	10.95	10.49	96%	90% - 110%	8.47	7.9	93%	90% - 110%				
Si	28.4	28.3	100%	90% - 110%	23.3	22.9	98%	90% - 110%	28.4	27.4	97%	90% - 110%				
Be									4.0	3.5	89%	90% - 110%				
Mn	780	770	99%	90% - 110%	836	819	98%	90% - 110%	780	748	96%	90% - 110%				
Mo	14	15	107%	90% - 110%					14	13	95%	90% - 110%				
As	26	27	103%	90% - 110%					26	24	94%	90% - 110%	25	27	106%	90% - 110%
Ba	540	485	90%	90% - 110%	340	319	94%	90% - 110%	540	488	90%	90% - 110%				
Ca	0.907	0.904	100%	90% - 110%	5.72	5.54	97%	90% - 110%	0.907	0.864	95%	90% - 110%				
Ce	98	103	105%	90% - 110%	122	134	110%	90% - 110%	98	101	103%	90% - 110%				
Co	15	16	108%	90% - 110%	2.8	2.6	94%	90% - 110%	15	14	94%	90% - 110%	1202	1250	104%	90% - 110%
Cu	150	162	108%	90% - 110%					150	152	102%	90% - 110%	15414	14700	95%	90% - 110%
Dy					18.2	20	110%	90% - 110%								
Er	3.7	3.8	103%	90% - 110%	14.2	14.2	100%	90% - 110%	3.7	3.6	98%	90% - 110%				
Eu					2.0	2	101%	90% - 110%	1.0	1.2	123%	90% - 110%				
Ga					35	37	107%	90% - 110%								
Gd					14	15	106%	90% - 110%								
Hf	11	10	93%	90% - 110%	10.6	11.4	107%	90% - 110%	11	10	89%	90% - 110%				
Ho					4.3	4.4	103%	90% - 110%								
La	44	48	110%	90% - 110%	58	60	103%	90% - 110%	44	43	98%	90% - 110%				
Lu	0.6	0.6	97%	90% - 110%	2.1	2.2	104%	90% - 110%	0.6	0.6	92%	90% - 110%				
Nd					57	59	104%	90% - 110%								
Ni	32	34	105%	90% - 110%	9	11	122%	90% - 110%	32	33	104%	90% - 110%	23610	21303	90%	90% - 110%
Pb	31	32	105%	90% - 110%	10	10	97%	90% - 110%	31	32	102%	90% - 110%	41	41	101%	90% - 110%
Pr					15.0	15.3	102%	90% - 110%								
Sb									0.8	0.8	95%	90% - 110%				
Sc	12	11	93%	90% - 110%					12	11	91%	90% - 110%				
Sm	7.4	8.1	110%	90% - 110%	12.7	13.3	104%	90% - 110%	7.4	7.4	99%	90% - 110%				
Sr	144	143	99%	90% - 110%	1191	1130	95%	90% - 110%	144	138	96%	90% - 110%				
Tb	1.2	1.2	104%	90% - 110%	2.6	2.8	107%	90% - 110%	1.2	1.1	94%	90% - 110%				
Th	18.4	17.7	96%	90% - 110%	1.4	1.1	81%	90% - 110%	18.4	17.3	94%	90% - 110%				
Ti	0.527	0.481	91%	90% - 110%	0.172	0.158	92%	90% - 110%	0.527	0.485	92%	90% - 110%				
Tm					2.3	2.3	102%	90% - 110%								
U	5.7	5	88%	90% - 110%	0.8	0.6	81%	90% - 110%	5.7	5.2	91%	90% - 110%				



AGAT Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18T388647

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

V	77	73	95%	90% - 110%					77	70	91%	90% - 110%				
W	5	5	104%	90% - 110%					5	5	107%	90% - 110%				
Y	40	39	97%	90% - 110%	119	130	109%	90% - 110%	40	36	90%	90% - 110%				
Yb					14.8	16.2	109%	90% - 110%								
Zn	130	127	98%	90% - 110%	93	96	103%	90% - 110%	130	127	97%	90% - 110%	90	87	97%	90% - 110%
Zr	390	425	108%	90% - 110%					390	376	96%	90% - 110%				



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18T388647

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18T388647

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Brad Boyle

PROJECT:

AGAT WORK ORDER: 18B398430

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 31, 2018

PAGES (INCLUDING COVER): 53

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564325 (9632212)		1.85
E5564326 (9632213)		1.81
E5564327 (9632214)		0.47
E5564328 (9632215)		1.94
E5564329 (9632216)		1.77
E5564330 (9632217)		1.93
E5564331 (9632218)		0.01
E5564332 (9632219)		1.74
E5564333 (9632220)		1.64
E5564334 (9632221)		1.76
E5564335 (9632222)		1.57
E5564336 (9632223)		2.05
E5564337 (9632224)		2.27
E5564338 (9632225)		2.01
E5564339 (9632226)		0.01
E5564340 (9632227)		1.90
E5564341 (9632228)		1.02
E5564342 (9632229)		1.58
E5564343 (9632230)		2.16
E5564344 (9632231)		2.13
E5564345 (9632232)		2.84
E5564346 (9632233)		2.94
E5564347 (9632234)		3.00
E5564348 (9632235)		2.86
E5564349 (9632236)		2.75
E5564350 (9632237)		3.01
E5564351 (9632238)		0.01
E5564352 (9632239)		2.84
E5564353 (9632240)		1.51
E5564354 (9632241)		1.32
E5564355 (9632242)		1.06

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Certificate of Analysis

AGAT WORK ORDER: 18B398430

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564356 (9632243)		0.01
E5564357 (9632244)		1.33
E5564358 (9632245)		2.61
E5564359 (9632246)		1.09
E5564360 (9632247)		1.13
E5564361 (9632248)		2.08
E5564362 (9632249)		2.64
E5564363 (9632250)		2.66
E5564364 (9632251)		2.40
E5564365 (9632252)		2.99
E5564366 (9632253)		2.70
E5564367 (9632254)		2.99
E5564368 (9632255)		3.08
E5564369 (9632256)		2.78
E5564370 (9632257)		2.61
E5564371 (9632258)		0.01
E5564372 (9632259)		2.73
E5564373 (9632260)		2.45
E5564374 (9632261)		1.32
E5564375 (9632262)		1.77
E5564376 (9632263)		0.93
E5564377 (9632264)		0.94
E5564378 (9632265)		0.72
E5564379 (9632266)		0.01
E5564380 (9632267)		1.48
E5564381 (9632268)		0.98
E5564382 (9632269)		0.81
E5564383 (9632270)		1.31
E5564384 (9632271)		1.34
E5564385 (9632272)		2.05
E5564386 (9632273)		3.05

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Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564387 (9632274)		2.80
E5564388 (9632275)		2.75
E5564389 (9632276)		2.93
E5564390 (9632277)		1.89
E5564391 (9632278)		0.01
E5564392 (9632279)		3.05
E5564393 (9632280)		2.60
E5564394 (9632281)		1.02
E5564395 (9632282)		0.78
E5564396 (9632283)		0.01
E5564397 (9632284)		2.79
E5564398 (9632285)		1.05
E5564399 (9632286)		0.96
E5564400 (9632287)		0.76
E5564401 (9632288)		2.23
E5564402 (9632289)		1.85
E5564403 (9632290)		1.83
E5564404 (9632291)		2.00
E5564405 (9632292)		0.30
E5564406 (9632293)		1.42
E5564407 (9632294)		2.05
E5564408 (9632295)		2.87
E5564409 (9632296)		2.81
E5564410 (9632297)		1.53
E5564411 (9632298)		0.01
E5564412 (9632299)		1.74
E5564413 (9632300)		1.14
E5564414 (9632301)		0.71
E5564415 (9632302)		0.70
E5564416 (9632303)		1.35
E5564417 (9632304)		1.60

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AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564418 (9632305)		1.64
E5564419 (9632306)		0.01
E5564420 (9632307)		1.55
E5564421 (9632308)		1.02
E5564422 (9632309)		1.22
E5564423 (9632310)		2.47
E5564424 (9632311)		2.85
E5564425 (9632312)		2.62
E5564426 (9632313)		2.35
E5564427 (9632314)		2.72
E5564428 (9632315)		2.70
E5564429 (9632316)		2.94
E5564510 (9632317)		2.93
E5564511 (9632318)		0.01
E5564512 (9632319)		2.74
E5564513 (9632320)		2.82
E5564514 (9632321)		2.63
E5564515 (9632322)		1.96
E5564516 (9632323)		0.01
E5564517 (9632324)		1.84
E5564518 (9632325)		0.67
E5564519 (9632326)		0.65
E5564520 (9632327)		0.77
E5564521 (9632328)		0.73
E5564522 (9632329)		0.95
E5564523 (9632330)		1.69
E5564524 (9632331)		1.48
E5564525 (9632332)		1.41
E5564526 (9632333)		1.29
E5564527 (9632334)		1.45
E5564528 (9632335)		1.26

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564529 (9632336)		1.50
E5564530 (9632337)		1.92
E5564531 (9632338)		0.01
E5564532 (9632339)		1.63
E5564533 (9632340)		1.73
E5564534 (9632341)		1.83
E5564535 (9632342)		0.98
E5564536 (9632343)		1.22
E5564537 (9632344)		0.91
E5564538 (9632345)		1.19
E5564539 (9632346)		0.01
E5564540 (9632347)		2.20
E5564541 (9632348)		2.69
E5564542 (9632349)		2.79
E5564543 (9632350)		2.94
E5564544 (9632351)		3.02
E5564545 (9632352)		2.71
E5564546 (9632353)		2.01
E5564547 (9632354)		2.70
E5564548 (9632355)		2.84
E5564549 (9632356)		2.88
E5564550 (9632357)		2.84
E5564551 (9632358)		0.01
E5564552 (9632359)		3.04
E5564553 (9632360)		2.66
E5564554 (9632361)		2.59
E5564555 (9632362)		1.17
E5564556 (9632363)		0.01
E5564557 (9632364)		1.20
E5564558 (9632365)		0.71
E5564559 (9632366)		1.61

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AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Oct 17, 2018

DATE RECEIVED: Oct 16, 2018

DATE REPORTED: Oct 31, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564325 (9632212)		3.05
E5564326 (9632213)		2.90
E5564327 (9632214)		2.72
E5564328 (9632215)		3.00
E5564329 (9632216)		3.06
E5564330 (9632217)		3.11
E5564331 (9632218)		2.72
E5564332 (9632219)		3.12
E5564333 (9632220)		2.68
E5564334 (9632221)		2.72
E5564335 (9632222)		2.71
E5564336 (9632223)		3.19
E5564337 (9632224)		3.16
E5564338 (9632225)		3.14
E5564339 (9632226)		2.84
E5564340 (9632227)		3.17
E5564341 (9632228)		2.71
E5564342 (9632229)		2.70
E5564343 (9632230)		3.14
E5564344 (9632231)		3.13
E5564345 (9632232)		3.12
E5564346 (9632233)		3.09
E5564347 (9632234)		3.29
E5564348 (9632235)		3.16
E5564349 (9632236)		3.25
E5564350 (9632237)		3.16
E5564351 (9632238)		2.71
E5564352 (9632239)		3.08
E5564353 (9632240)		2.72
E5564354 (9632241)		2.82
E5564355 (9632242)		2.75
E5564356 (9632243)		3.00

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Oct 17, 2018

DATE RECEIVED: Oct 16, 2018

DATE REPORTED: Oct 31, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564357 (9632244)		2.68
E5564358 (9632245)		2.92
E5564359 (9632246)		2.96
E5564360 (9632247)		2.98
E5564361 (9632248)		2.89
E5564362 (9632249)		2.87
E5564363 (9632250)		2.84
E5564364 (9632251)		2.94
E5564365 (9632252)		3.06
E5564366 (9632253)		3.09
E5564367 (9632254)		3.16
E5564368 (9632255)		3.09
E5564369 (9632256)		3.11
E5564370 (9632257)		3.01
E5564371 (9632258)		2.68
E5564372 (9632259)		3.14
E5564373 (9632260)		3.15
E5564374 (9632261)		2.78
E5564375 (9632262)		2.72
E5564376 (9632263)		2.66
E5564377 (9632264)		2.70
E5564378 (9632265)		2.74
E5564379 (9632266)		2.81
E5564380 (9632267)		2.63
E5564381 (9632268)		2.65
E5564382 (9632269)		2.78
E5564383 (9632270)		2.65
E5564384 (9632271)		2.65
E5564385 (9632272)		3.04
E5564386 (9632273)		3.04
E5564387 (9632274)		3.12
E5564388 (9632275)		3.05

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Oct 17, 2018

DATE RECEIVED: Oct 16, 2018

DATE REPORTED: Oct 31, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564389 (9632276)		3.11
E5564390 (9632277)		3.10
E5564391 (9632278)		2.74
E5564392 (9632279)		3.16
E5564393 (9632280)		3.14
E5564394 (9632281)		2.77
E5564395 (9632282)		2.68
E5564396 (9632283)		2.94
E5564397 (9632284)		3.16
E5564398 (9632285)		3.17
E5564399 (9632286)		3.14
E5564400 (9632287)		2.76
E5564401 (9632288)		2.98
E5564402 (9632289)		3.17
E5564403 (9632290)		3.03
E5564404 (9632291)		3.16
E5564405 (9632292)		2.72
E5564406 (9632293)		3.11
E5564407 (9632294)		3.13
E5564408 (9632295)		3.15
E5564409 (9632296)		3.07
E5564410 (9632297)		2.63
E5564411 (9632298)		2.67
E5564412 (9632299)		2.61
E5564413 (9632300)		2.70
E5564414 (9632301)		2.67
E5564415 (9632302)		2.63
E5564416 (9632303)		2.77
E5564417 (9632304)		2.63
E5564418 (9632305)		2.73
E5564419 (9632306)		2.79
E5564420 (9632307)		2.59

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Oct 17, 2018

DATE RECEIVED: Oct 16, 2018

DATE REPORTED: Oct 31, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564421 (9632308)		2.72
E5564422 (9632309)		2.68
E5564423 (9632310)		3.00
E5564424 (9632311)		3.12
E5564425 (9632312)		2.92
E5564426 (9632313)		2.90
E5564427 (9632314)		3.08
E5564428 (9632315)		3.06
E5564429 (9632316)		3.04
E5564510 (9632317)		3.03
E5564511 (9632318)		2.67
E5564512 (9632319)		3.09
E5564513 (9632320)		3.12
E5564514 (9632321)		3.20
E5564515 (9632322)		3.14
E5564516 (9632323)		3.06
E5564517 (9632324)		3.08
E5564518 (9632325)		2.68
E5564519 (9632326)		2.73
E5564520 (9632327)		2.64
E5564521 (9632328)		2.77
E5564522 (9632329)		2.58
E5564523 (9632330)		2.69
E5564524 (9632331)		2.87
E5564525 (9632332)		2.73
E5564526 (9632333)		2.87
E5564527 (9632334)		2.77
E5564528 (9632335)		2.68
E5564529 (9632336)		2.90
E5564530 (9632337)		2.93
E5564531 (9632338)		2.66
E5564532 (9632339)		2.78

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Oct 17, 2018

DATE RECEIVED: Oct 16, 2018

DATE REPORTED: Oct 31, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564533 (9632340)		2.89
E5564534 (9632341)		2.82
E5564535 (9632342)		2.73
E5564536 (9632343)		2.82
E5564537 (9632344)		2.71
E5564538 (9632345)		2.65
E5564539 (9632346)		2.80
E5564540 (9632347)		3.04
E5564541 (9632348)		3.07
E5564542 (9632349)		3.19
E5564543 (9632350)		3.09
E5564544 (9632351)		3.02
E5564545 (9632352)		3.12
E5564546 (9632353)		3.13
E5564547 (9632354)		3.03
E5564548 (9632355)		3.11
E5564549 (9632356)		3.13
E5564550 (9632357)		3.17
E5564551 (9632358)		2.71
E5564552 (9632359)		3.05
E5564553 (9632360)		3.06
E5564554 (9632361)		3.11
E5564555 (9632362)		2.79
E5564556 (9632363)		2.93
E5564557 (9632364)		2.59
E5564558 (9632365)		2.70
E5564559 (9632366)		2.66

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564325 (9632212)	312	0.067	<0.5	1	6	16.1	90.6	0.47	3.39	8.10	0.03	6.84	17.3	<5	
E5564326 (9632213)	43	0.009	2.6	3	6	2.8	11.2	0.11	0.97	2.74	0.01	3.32	18.8	<5	
E5564327 (9632214)	373	0.080	<0.5	2	1	34.3	74.7	0.40	5.08	8.76	0.02	7.85	22.7	<5	
E5564328 (9632215)	156	0.034	16.8	26	6	12.6	297	1.43	3.88	6.40	0.13	8.34	22.6	15	
E5564329 (9632216)	277	0.060	<0.5	4	3	20.6	271	1.23	4.83	8.59	0.10	7.39	21.3	<5	
E5564330 (9632217)	144	0.031	<0.5	2	2	5.2	25.4	0.17	3.11	8.26	0.03	7.72	22.3	<5	
E5564331 (9632218)	20	0.004	<0.5	<1	2	0.5	2.0	<0.05	0.06	0.54	<0.01	0.31	47.4	<5	
E5564332 (9632219)	569	0.123	<0.5	2	4	702	220	0.34	4.10	8.70	0.03	7.35	22.4	5	
E5564333 (9632220)	298	0.064	277	75	24	323	2030	1.23	0.13	0.50	0.06	9.14	33.7	25	
E5564334 (9632221)	127	0.027	534	65	34	228	1310	1.25	0.14	0.29	0.07	10.4	28.5	99	
E5564335 (9632222)	265	0.057	479	285	33	511	2650	1.47	0.08	0.36	0.27	10.9	29.1	20	
E5564336 (9632223)	4810	1.04	2.0	3	3	5320	1940	1.09	3.89	7.70	0.03	7.34	21.6	<5	
E5564337 (9632224)	476	0.102	2.9	3	3	144	58.3	0.19	3.67	8.03	0.02	7.44	23.0	<5	
E5564338 (9632225)	189	0.041	0.7	2	6	38.8	40.8	0.21	2.90	7.74	0.03	7.86	22.3	<5	
E5564339 (9632226)	2190	0.472	17.0	1190	766	248	1210	1.60	0.53	3.09	0.16	4.73	35.2	35	
E5564340 (9632227)	320	0.069	0.9	6	4	27.8	145	0.38	2.76	7.74	0.03	8.59	23.6	5	
E5564341 (9632228)	363	0.078	32.4	48	27	358	4800	5.72	0.12	0.51	0.08	9.03	32.2	72	
E5564342 (9632229)	831	0.179	61.7	69	40	234	2750	2.47	0.16	0.73	0.22	6.58	36.1	379	
E5564343 (9632230)	384	0.083	<0.5	2	4	24.9	111	0.43	2.91	8.28	0.03	8.19	23.5	<5	
E5564344 (9632231)	123	0.026	<0.5	2	3	4.7	39.7	0.28	2.42	8.02	0.02	8.47	23.9	<5	
E5564345 (9632232)	263	0.057	<0.5	2	3	17.6	168	0.70	3.13	9.46	0.03	8.13	22.9	<5	
E5564346 (9632233)	266	0.057	<0.5	2	2	10.8	56.8	0.46	2.71	10.4	0.02	8.03	21.9	<5	
E5564347 (9632234)	322	0.069	<0.5	2	2	18.8	66.0	0.42	2.72	11.5	0.03	7.75	21.5	<5	
E5564348 (9632235)	714	0.154	<0.5	2	1	25.8	65.0	0.44	2.42	11.5	0.04	7.09	23.0	<5	
E5564349 (9632236)	532	0.114	<0.5	2	3	51.4	61.5	0.44	2.57	11.2	0.03	8.24	23.2	<5	
E5564350 (9632237)	330	0.071	<0.5	2	4	17.2	52.6	0.38	2.89	10.8	0.03	7.80	22.3	<5	
E5564351 (9632238)	18	0.004	<0.5	<1	2	0.1	0.8	<0.05	<0.01	0.38	<0.01	0.13	46.8	<5	
E5564352 (9632239)	410	0.088	<0.5	2	3	27.6	115	0.61	2.66	9.04	0.03	7.90	24.8	<5	
E5564353 (9632240)	335	0.072	102	71	25	117	1520	1.42	0.09	0.55	0.05	8.49	34.4	214	
E5564354 (9632241)	6270	1.35	85.9	39	17	493	2120	2.37	0.33	0.82	0.06	7.99	35.2	47	
E5564355 (9632242)	3480	0.749	94.8	78	13	340	1540	1.51	0.10	0.47	0.03	7.01	38.1	147	
E5564356 (9632243)	10000	2.15	28.7	6580	3100	377	863	1.47	0.52	4.16	0.11	7.70	31.0	31	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564357 (9632244)	162	0.035	142	71	15	389	2880	3.38	0.15	0.44	0.08	8.47	34.2	38	
E5564358 (9632245)	575	0.124	20.5	12	10	26.8	152	0.67	2.58	6.31	0.06	7.93	26.4	34	
E5564359 (9632246)	476	0.102	<0.5	4	2	57.9	120	0.72	3.82	7.77	0.04	8.28	22.8	<5	
E5564360 (9632247)	452	0.097	<0.5	4	3	42.5	123	0.74	3.83	8.17	0.04	8.44	23.6	<5	
E5564361 (9632248)	674	0.145	<0.5	3	2	65.6	109	0.77	4.41	7.62	0.04	7.93	23.1	<5	
E5564362 (9632249)	821	0.177	<0.5	3	3	42.9	91.0	0.58	4.79	8.79	0.04	7.32	22.7	7	
E5564363 (9632250)	726	0.156	<0.5	3	4	21.7	141	0.61	3.70	8.42	0.04	8.07	23.8	<5	
E5564364 (9632251)	555	0.120	<0.5	2	2	7.6	54.2	0.26	3.77	7.48	0.03	6.26	20.9	<5	
E5564365 (9632252)	407	0.088	<0.5	2	2	12.3	12.9	0.11	4.27	6.73	0.03	8.01	23.1	<5	
E5564366 (9632253)	171	0.037	<0.5	2	3	1.2	10.0	0.24	2.75	7.96	0.02	7.68	22.9	<5	
E5564367 (9632254)	175	0.038	<0.5	2	1	1.2	14.8	0.23	2.55	7.79	0.02	7.56	21.3	<5	
E5564368 (9632255)	151	0.032	8.8	5	3	7.4	177	0.45	2.30	7.14	0.03	8.02	23.4	16	
E5564369 (9632256)	154	0.033	<0.5	2	2	1.3	16.8	0.19	2.69	8.07	0.03	7.88	23.5	<5	
E5564370 (9632257)	199	0.043	<0.5	2	4	2.0	17.0	0.24	3.04	7.25	0.02	7.43	21.9	<5	
E5564371 (9632258)	18	0.004	<0.5	<1	3	<0.1	0.6	<0.05	<0.01	0.36	<0.01	0.11	48.5	<5	
E5564372 (9632259)	184	0.040	<0.5	2	3	2.7	25.4	0.25	3.16	7.58	0.02	7.89	22.3	<5	
E5564373 (9632260)	180	0.039	20.6	4	5	3.7	45.3	0.20	2.72	7.35	0.02	7.78	22.4	11	
E5564374 (9632261)	4760	1.03	80.1	68	53	551	2920	2.54	0.46	1.27	0.23	8.76	32.4	84	
E5564375 (9632262)	2410	0.519	12.6	16	11	261	3060	4.06	0.14	0.44	0.10	8.68	32.1	74	
E5564376 (9632263)	2580	0.555	11.1	25	22	256	3400	4.17	0.10	0.47	0.05	7.62	33.4	73	
E5564377 (9632264)	5220	1.12	45.6	50	42	462	4660	5.02	0.14	0.70	0.04	8.14	33.6	9	
E5564378 (9632265)	3350	0.722	182	134	116	893	5230	3.71	0.32	1.19	0.02	7.67	34.1	140	
E5564379 (9632266)	2290	0.494	16.7	1190	769	244	1230	1.70	0.55	3.19	0.16	4.96	36.0	35	
E5564380 (9632267)	156	0.034	19.3	9	6	757	7360	8.65	0.02	0.21	0.06	8.36	33.1	9	
E5564381 (9632268)	246	0.053	17.8	13	12	676	6770	7.49	0.03	0.24	0.05	7.42	33.0	5	
E5564382 (9632269)	1840	0.397	120	100	87	850	5760	4.81	0.25	0.89	0.04	7.73	34.9	33	
E5564383 (9632270)	147	0.032	58.3	13	5	876	7450	8.93	0.10	0.26	0.06	8.52	32.6	29	
E5564384 (9632271)	792	0.171	67.2	42	13	514	5040	6.20	0.09	0.36	0.08	7.98	33.0	105	
E5564385 (9632272)	1190	0.257	<0.5	2	3	63.7	113	0.48	5.21	8.17	0.02	7.50	22.6	<5	
E5564386 (9632273)	635	0.137	<0.5	2	2	61.9	63.3	0.46	4.99	8.62	0.02	7.65	22.7	<5	
E5564387 (9632274)	436	0.094	<0.5	2	<1	21.5	25.0	0.34	4.88	8.44	0.02	7.88	23.4	<5	
E5564388 (9632275)	410	0.088	<0.5	2	1	30.9	70.1	0.53	5.01	8.55	0.02	7.41	23.7	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564389 (9632276)	229	0.049	<0.5	1	2	12.6	19.0	0.35	4.69	8.13	0.02	7.60	22.5	<5	
E5564390 (9632277)	365	0.079	<0.5	2	<1	26.8	66.0	0.54	5.08	8.68	0.02	7.75	22.4	<5	
E5564391 (9632278)	17	0.004	<0.5	<1	2	0.3	1.3	<0.05	<0.01	0.33	<0.01	0.11	46.5	<5	
E5564392 (9632279)	131	0.028	<0.5	2	3	6.0	43.1	0.31	3.46	8.29	0.02	7.03	22.8	<5	
E5564393 (9632280)	370	0.080	<0.5	3	10	15.2	219	0.66	3.23	8.72	0.03	7.91	23.0	<5	
E5564394 (9632281)	316	0.068	43.9	85	65	192	2550	3.23	0.43	1.78	0.19	9.17	30.5	123	
E5564395 (9632282)	549	0.118	66.4	78	42	205	2770	2.83	0.18	0.67	0.28	8.45	31.7	24	
E5564396 (9632283)	9940	2.14	29.0	6610	3170	370	872	1.45	0.53	4.11	0.11	7.62	31.1	29	
E5564397 (9632284)	338	0.073	<0.5	10	12	35.9	184	0.42	3.22	7.59	0.03	7.97	21.0	<5	
E5564398 (9632285)	320	0.069	1.5	5	5	20.7	130	0.42	3.91	9.18	0.02	7.89	21.5	<5	
E5564399 (9632286)	325	0.070	2.9	5	7	18.9	113	0.42	3.85	8.90	0.02	8.12	21.7	6	
E5564400 (9632287)	922	0.198	68.1	49	37	624	4600	4.62	0.62	1.59	0.10	7.59	31.6	34	
E5564401 (9632288)	279	0.060	3.9	4	3	12.9	84.3	0.32	3.33	7.74	0.03	7.90	22.9	<5	
E5564402 (9632289)	132	0.028	<0.5	2	2	5.9	39.3	0.18	2.58	7.43	0.02	7.43	21.4	<5	
E5564403 (9632290)	520	0.112	<0.5	2	2	36.1	198	0.57	4.96	7.66	0.02	7.45	20.9	<5	
E5564404 (9632291)	372	0.080	<0.5	2	2	58.9	214	0.59	3.76	7.94	0.02	7.98	22.4	<5	
E5564405 (9632292)	173	0.037	85.0	49	7	22.0	94.7	0.28	0.95	1.99	0.04	8.52	29.8	34	
E5564406 (9632293)	573	0.123	1.9	7	4	32.4	111	0.35	3.67	8.08	0.03	7.69	21.7	<5	
E5564407 (9632294)	161	0.035	<0.5	2	3	5.2	27.2	0.14	3.14	7.72	0.02	7.74	22.8	<5	
E5564408 (9632295)	276	0.059	<0.5	2	1	7.1	22.1	0.16	4.89	8.87	0.02	7.16	22.9	<5	
E5564409 (9632296)	166	0.036	<0.5	2	<1	3.5	11.1	0.14	4.75	8.64	0.03	7.10	22.9	<5	
E5564410 (9632297)	61	0.013	26.3	5	3	748	8670	8.38	0.05	0.24	0.06	8.66	31.4	8	
E5564411 (9632298)	17	0.004	<0.5	<1	2	0.6	2.3	<0.05	<0.01	0.33	<0.01	0.12	45.8	<5	
E5564412 (9632299)	1970	0.423	64.4	31	30	622	5800	5.27	0.12	0.53	0.05	6.71	35.4	73	
E5564413 (9632300)	961	0.207	103	56	51	426	5220	4.95	0.20	0.72	0.02	6.75	36.1	11	
E5564414 (9632301)	1180	0.253	320	103	58	408	4200	3.41	0.51	1.00	0.02	5.79	37.8	31	
E5564415 (9632302)	385	0.083	10.3	8	11	973	8850	8.77	0.04	0.26	0.08	8.83	31.3	10	
E5564416 (9632303)	1130	0.244	31.1	49	52	323	2700	2.14	0.21	0.74	0.01	4.11	39.5	38	
E5564417 (9632304)	307	0.066	12.8	13	14	528	7110	7.91	0.11	0.32	0.04	8.20	32.0	402	
E5564418 (9632305)	3420	0.736	42.9	44	47	340	3240	2.72	0.21	0.70	0.03	5.89	36.2	54	
E5564419 (9632306)	2230	0.480	17.0	1250	808	259	1280	1.67	0.56	3.10	0.15	4.74	34.4	37	
E5564420 (9632307)	1480	0.319	189	56	20	236	1340	0.97	0.15	0.40	0.10	8.14	34.3	31	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564421 (9632308)	2690	0.578	122	153	76	500	4020	2.63	0.19	0.91	0.10	7.44	35.0	169	
E5564422 (9632309)	449	0.097	180	121	20	114	1020	0.72	0.09	0.50	0.14	8.57	33.6	121	
E5564423 (9632310)	649	0.140	<0.5	3	1	22.8	161	0.39	5.30	7.80	0.02	7.18	23.0	<5	
E5564424 (9632311)	336	0.072	<0.5	2	3	7.9	28.7	0.24	4.67	8.22	0.02	7.58	22.6	<5	
E5564425 (9632312)	621	0.134	0.5	9	<1	44.8	119	0.68	5.46	7.63	0.09	7.55	24.0	<5	
E5564426 (9632313)	731	0.157	0.8	18	<1	94.4	104	0.82	5.57	6.92	0.17	7.43	23.5	<5	
E5564427 (9632314)	372	0.080	<0.5	2	<1	32.3	71.7	0.40	5.02	8.71	0.02	7.68	22.6	<5	
E5564428 (9632315)	357	0.077	<0.5	1	<1	45.7	57.7	0.29	5.23	8.21	0.02	7.45	22.5	<5	
E5564429 (9632316)	601	0.129	<0.5	2	<1	51.9	37.8	0.24	5.54	8.55	0.02	7.31	22.3	<5	
E5564510 (9632317)	284	0.061	<0.5	2	<1	6.7	22.6	0.21	4.84	8.98	0.02	7.54	22.9	<5	
E5564511 (9632318)	17	0.004	<0.5	<1	<1	0.3	1.0	<0.05	<0.01	0.35	<0.01	0.11	45.9	<5	
E5564512 (9632319)	336	0.072	<0.5	2	1	3.9	10.7	0.14	5.13	8.63	0.02	7.24	21.9	<5	
E5564513 (9632320)	412	0.089	<0.5	2	2	3.9	8.3	0.12	5.17	8.88	0.02	6.81	23.0	<5	
E5564514 (9632321)	529	0.114	<0.5	2	<1	5.7	8.5	0.11	4.82	8.59	0.02	6.27	21.3	<5	
E5564515 (9632322)	594	0.128	<0.5	2	<1	4.8	14.0	0.16	4.80	8.46	0.02	6.88	23.3	<5	
E5564516 (9632323)	10300	2.22	27.4	6200	3150	364	813	1.53	0.53	4.29	0.10	7.87	31.9	27	
E5564517 (9632324)	1480	0.319	<0.5	6	9	232	194	0.32	4.93	8.71	0.03	7.38	23.1	<5	
E5564518 (9632325)	780	0.168	43.5	89	54	674	6960	7.11	0.16	0.67	0.52	9.04	30.1	26	
E5564519 (9632326)	900	0.194	46.4	78	58	784	7420	7.26	0.17	0.69	0.37	9.55	31.4	426	
E5564520 (9632327)	56	0.012	18.5	4	3	738	7480	7.14	<0.01	0.14	0.06	8.94	31.0	<5	
E5564521 (9632328)	8710	1.87	78.0	8	17	781	6060	4.20	0.06	0.37	0.11	7.57	35.1	<5	
E5564522 (9632329)	179	0.039	31.4	3	<1	1960	16000	10.7	<0.01	0.13	0.18	9.40	30.0	<5	
E5564523 (9632330)	5580	1.20	12.4	<1	8	1810	13100	8.80	0.02	0.20	0.16	9.70	32.0	<5	
E5564524 (9632331)	9890	2.13	4.2	<1	17	210	1010	0.82	0.05	0.43	0.02	4.83	41.5	<5	
E5564525 (9632332)	2980	0.640	17.2	1	7	902	6900	4.88	0.03	0.30	0.10	5.56	38.1	<5	
E5564526 (9632333)	10800	2.33	15.0	1	19	733	4940	3.27	0.04	0.36	0.06	7.35	35.6	<5	
E5564527 (9632334)	3790	0.815	27.0	3	16	541	3680	2.51	0.04	0.38	0.05	5.32	39.3	16	
E5564528 (9632335)	530	0.114	33.5	4	4	955	10300	8.71	0.02	0.19	0.08	8.73	32.0	15	
E5564529 (9632336)	13400	2.88	64.6	25	39	530	1890	1.06	0.06	0.66	0.03	7.01	37.3	236	
E5564530 (9632337)	19800	4.26	263	30	52	460	1890	1.04	0.09	0.65	0.03	9.81	34.2	29	
E5564531 (9632338)	21	0.010	<0.5	<1	<1	0.6	2.2	0.06	<0.01	0.33	<0.01	0.13	45.3	<5	
E5564532 (9632339)	4190	0.902	106	51	57	636	4050	2.16	0.08	0.61	0.02	6.01	36.9	49	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018					DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564533 (9632340)	10900	2.34	80.7	43	64	607	3310	1.81	0.10	0.70	0.04	7.51	35.1	221	
E5564534 (9632341)	10900	2.35	113	46	60	417	3070	1.85	0.10	0.76	0.05	7.40	35.1	15	
E5564535 (9632342)	5180	1.12	97.3	29	32	492	4260	3.85	0.05	0.44	0.06	7.81	33.4	32	
E5564536 (9632343)	3850	0.828	55.8	82	63	668	4320	3.34	0.12	0.73	1.37	7.27	31.1	773	
E5564537 (9632344)	268	0.058	261	116	7	114	568	0.39	0.01	0.38	0.12	7.85	32.8	80	
E5564538 (9632345)	135	0.029	219	86	5	53.1	293	0.28	0.03	0.22	0.10	8.37	32.6	66	
E5564539 (9632346)	2280	0.491	18.4	1180	765	249	1190	1.65	0.53	2.99	0.16	4.55	33.9	32	
E5564540 (9632347)	594	0.128	3.6	5	8	15.5	135	0.47	4.86	7.75	0.03	7.40	22.5	10	
E5564541 (9632348)	270	0.058	<0.5	2	6	10.9	73.7	0.48	4.23	8.05	0.02	7.47	22.5	<5	
E5564542 (9632349)	315	0.068	<0.5	2	4	52.2	100	0.66	4.19	7.92	0.02	7.38	22.4	<5	
E5564543 (9632350)	394	0.085	0.6	11	6	42.4	71.2	0.83	4.57	7.53	0.10	7.31	23.1	<5	
E5564544 (9632351)	278	0.060	<0.5	4	<1	28.3	50.1	0.52	4.55	7.80	0.04	7.68	22.6	<5	
E5564545 (9632352)	206	0.044	<0.5	2	<1	7.9	35.8	0.38	4.12	7.85	0.03	7.49	22.2	<5	
E5564546 (9632353)	126	0.027	<0.5	1	<1	6.3	21.9	0.29	3.84	7.81	0.02	7.47	21.9	<5	
E5564547 (9632354)	398	0.086	<0.5	1	<1	22.6	35.2	0.57	5.06	10.2	0.02	7.53	20.7	<5	
E5564548 (9632355)	196	0.042	<0.5	2	3	8.9	29.3	0.52	4.43	11.0	0.03	6.60	19.7	<5	
E5564549 (9632356)	139	0.030	<0.5	2	<1	5.7	32.2	0.44	4.02	10.0	0.04	6.86	21.0	<5	
E5564550 (9632357)	106	0.023	<0.5	1	<1	4.5	25.9	0.33	3.70	8.43	0.02	6.81	19.5	<5	
E5564551 (9632358)	24	0.005	<0.5	<1	<1	0.3	0.7	0.07	0.01	0.35	<0.01	0.12	45.9	<5	
E5564552 (9632359)	132	0.028	<0.5	1	<1	3.9	22.1	0.31	3.49	9.80	0.02	6.74	20.7	<5	
E5564553 (9632360)	184	0.040	<0.5	1	<1	5.3	27.9	0.28	2.96	8.32	0.02	7.15	21.1	<5	
E5564554 (9632361)	304	0.065	<0.5	2	2	18.1	126	0.60	3.63	8.24	0.03	7.90	23.0	<5	
E5564555 (9632362)	1780	0.384	74.1	125	94	401	4900	4.15	0.35	1.28	0.07	8.64	33.7	298	
E5564556 (9632363)	9820	2.07	27.8	6250	3080	369	831	1.48	0.52	4.01	0.10	7.30	29.9	27	
E5564557 (9632364)	99	0.021	28.3	14	19	790	9320	8.74	0.01	0.18	0.07	8.05	31.9	7	
E5564558 (9632365)	902	0.194	262	95	45	500	4330	3.42	0.12	0.55	0.06	6.18	36.7	14	
E5564559 (9632366)	73	0.016	46.0	7	9	848	8270	7.91	<0.01	0.14	0.07	8.78	30.2	8	

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Certificate of Analysis

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564325 (9632212)	21	1620	2	1.3	<5	<1	96.7	13.6	<0.2	7.4	65.2	0.030	520	3.03	
E5564326 (9632213)	<20	700	5	2.7	<5	<1	14.5	20.1	<0.2	6.3	19.1	0.016	146	1.90	
E5564327 (9632214)	<20	1470	<2	0.3	<5	<1	55.5	7.88	<0.2	6.0	58.2	0.030	135	2.95	
E5564328 (9632215)	<20	994	5	1.4	<5	<1	186	9.68	<0.2	94.3	34.2	0.028	42	3.58	
E5564329 (9632216)	<20	1620	<2	0.4	<5	<1	369	6.83	<0.2	74.3	51.9	0.037	25	3.98	
E5564330 (9632217)	<20	1830	<2	0.3	<5	<1	59.4	9.15	<0.2	7.5	55.4	0.034	146	3.07	
E5564331 (9632218)	<20	58	<2	<0.1	<5	<1	5.2	0.17	<0.2	2.2	1.7	<0.005	6	0.26	
E5564332 (9632219)	37	1640	2	0.7	<5	<1	40.8	8.89	<0.2	7.0	52.7	0.029	195	3.08	
E5564333 (9632220)	24	394	6	5.6	<5	<1	18.2	0.70	<0.2	0.9	2.7	0.011	16	0.15	
E5564334 (9632221)	27	178	3	0.6	<5	<1	40.4	2.01	<0.2	1.1	1.7	<0.005	6	0.10	
E5564335 (9632222)	34	592	3	1.3	<5	1	15.8	1.12	<0.2	3.7	1.8	0.005	6	0.38	
E5564336 (9632223)	39	1400	2	0.6	<5	<1	32.6	8.02	<0.2	6.3	53.9	0.031	110	2.98	
E5564337 (9632224)	<20	1370	2	0.3	<5	<1	41.1	8.87	<0.2	6.1	54.9	0.032	102	3.00	
E5564338 (9632225)	<20	1750	2	0.4	<5	<1	65.6	9.33	<0.2	7.3	57.7	0.034	90	3.45	
E5564339 (9632226)	29	350	8	12.0	38	1	1790	1.09	0.4	1060	7.5	0.007	280	9.08	
E5564340 (9632227)	21	1740	3	0.6	<5	<1	63.2	9.41	<0.2	8.1	60.7	0.036	166	3.31	
E5564341 (9632228)	<20	290	5	1.2	<5	<1	76.8	0.45	<0.2	0.3	2.1	0.007	10	0.07	
E5564342 (9632229)	21	744	11	3.1	6	<1	41.7	0.69	<0.2	1.9	2.7	0.018	6	0.30	
E5564343 (9632230)	24	2110	3	0.7	<5	<1	112	8.85	<0.2	7.1	58.6	0.036	84	3.23	
E5564344 (9632231)	26	1950	3	0.3	<5	<1	81.8	9.67	<0.2	7.5	59.2	0.034	48	3.31	
E5564345 (9632232)	22	2230	2	0.3	<5	<1	126	8.14	<0.2	7.4	61.4	0.032	134	3.53	
E5564346 (9632233)	20	2500	2	0.3	<5	<1	116	7.59	0.2	7.3	57.8	0.035	262	3.45	
E5564347 (9632234)	21	2940	3	0.3	<5	<1	89.7	7.59	0.2	7.2	61.2	0.033	157	3.59	
E5564348 (9632235)	36	2890	3	0.3	<5	<1	110	5.79	<0.2	7.1	50.0	0.031	99	3.35	
E5564349 (9632236)	39	2550	4	0.4	<5	<1	122	7.18	<0.2	7.4	60.4	0.035	121	3.47	
E5564350 (9632237)	<20	2500	2	0.3	<5	<1	123	7.42	<0.2	7.6	57.1	0.032	185	3.51	
E5564351 (9632238)	<20	29	<2	<0.1	<5	<1	3.6	<0.05	<0.2	2.5	0.7	<0.005	<5	0.21	
E5564352 (9632239)	27	2130	3	0.4	<5	<1	181	7.05	<0.2	7.0	55.3	0.034	98	3.07	
E5564353 (9632240)	<20	717	6	0.4	<5	<1	9.8	0.40	<0.2	0.7	1.9	0.008	18	0.19	
E5564354 (9632241)	36	785	13	3.8	<5	<1	235	0.33	<0.2	3.2	3.0	0.021	<5	0.13	
E5564355 (9632242)	21	788	13	4.3	<5	<1	80.8	0.20	<0.2	1.1	1.2	0.017	<5	<0.05	
E5564356 (9632243)	37	424	12	47.5	155	1	2690	1.06	<0.2	458	9.2	0.010	337	4.87	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564357 (9632244)	<20	299	8	23.3	<5	<1	103	0.43	<0.2	2.1	1.6	0.014	6	0.13	
E5564358 (9632245)	<20	1320	5	2.4	<5	<1	81.0	4.31	<0.2	10.6	36.2	0.024	48	3.06	
E5564359 (9632246)	<20	1390	3	0.9	<5	<1	93.0	5.48	<0.2	10.8	48.3	0.023	91	3.82	
E5564360 (9632247)	<20	1380	3	0.5	9	<1	97.3	5.80	<0.2	10.7	49.8	0.024	82	4.19	
E5564361 (9632248)	<20	1270	2	4.8	<5	<1	97.4	3.96	<0.2	9.6	50.2	0.022	46	3.44	
E5564362 (9632249)	29	1470	3	3.0	<5	<1	59.8	3.12	<0.2	11.0	50.9	0.024	22	3.07	
E5564363 (9632250)	<20	1570	2	2.9	<5	<1	57.2	2.35	<0.2	14.3	44.1	0.022	20	3.20	
E5564364 (9632251)	<20	1260	4	1.4	<5	<1	16.0	8.95	<0.2	16.4	35.6	0.021	19	3.19	
E5564365 (9632252)	<20	782	4	0.5	10	<1	5.5	8.23	<0.2	17.4	33.6	0.022	12	3.50	
E5564366 (9632253)	<20	1710	16	0.2	<5	<1	46.6	10.3	<0.2	6.3	55.4	0.031	143	2.87	
E5564367 (9632254)	<20	1760	2	0.3	<5	<1	55.4	11.0	<0.2	6.6	59.9	0.033	166	3.19	
E5564368 (9632255)	20	1780	4	0.8	<5	<1	52.1	10.8	<0.2	5.9	52.4	0.033	131	2.78	
E5564369 (9632256)	20	1860	3	0.5	<5	<1	40.5	11.5	<0.2	6.5	59.5	0.032	117	3.00	
E5564370 (9632257)	<20	1650	5	0.2	<5	<1	42.3	10.5	1.0	6.3	56.4	0.032	144	2.92	
E5564371 (9632258)	<20	27	<2	<0.1	<5	<1	3.9	<0.05	<0.2	2.2	0.5	<0.005	<5	0.18	
E5564372 (9632259)	21	1600	3	0.2	<5	<1	48.5	9.50	<0.2	6.8	56.9	0.031	126	2.95	
E5564373 (9632260)	<20	1690	6	2.3	<5	<1	41.2	11.2	0.2	7.3	55.9	0.035	131	2.79	
E5564374 (9632261)	<20	1040	9	2.4	<5	<1	79.5	0.77	<0.2	4.2	5.3	0.013	10	0.54	
E5564375 (9632262)	<20	274	9	0.3	<5	<1	89.5	0.36	<0.2	0.6	1.6	0.016	<5	0.11	
E5564376 (9632263)	<20	298	11	0.4	<5	<1	48.5	0.23	<0.2	0.4	1.4	0.018	<5	<0.05	
E5564377 (9632264)	<20	528	12	1.3	7	<1	48.6	0.16	<0.2	0.3	2.1	0.017	<5	<0.05	
E5564378 (9632265)	30	1190	14	1.6	<5	<1	22.8	0.12	<0.2	0.3	3.7	0.023	<5	<0.05	
E5564379 (9632266)	25	347	8	11.7	37	1	1800	1.12	<0.2	1050	7.3	0.007	280	9.00	
E5564380 (9632267)	<20	62	8	0.6	<5	<1	79.4	0.09	<0.2	0.8	0.6	0.010	<5	<0.05	
E5564381 (9632268)	<20	139	9	0.8	<5	<1	69.6	0.10	<0.2	0.1	0.8	0.015	<5	<0.05	
E5564382 (9632269)	21	916	12	0.9	<5	<1	37.7	0.10	<0.2	0.2	2.7	0.016	<5	0.06	
E5564383 (9632270)	<20	80	7	0.5	<5	<1	110	0.10	<0.2	0.2	1.4	0.012	<5	<0.05	
E5564384 (9632271)	<20	371	9	0.5	<5	<1	64.3	0.24	<0.2	0.5	1.1	0.012	5	0.08	
E5564385 (9632272)	<20	1380	3	0.5	<5	<1	43.8	7.22	<0.2	6.3	53.7	0.031	52	2.95	
E5564386 (9632273)	<20	1390	<2	0.2	<5	<1	39.1	7.64	<0.2	6.3	58.6	0.031	109	3.03	
E5564387 (9632274)	<20	1300	<2	0.3	18	<1	21.2	7.82	<0.2	6.2	58.0	0.032	80	2.97	
E5564388 (9632275)	<20	1380	<2	0.3	<5	<1	41.9	7.63	<0.2	7.7	54.8	0.029	70	2.97	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564389 (9632276)	<20	1320	<2	0.3	<5	<1	30.4	7.65	<0.2	5.6	55.8	0.030	107	2.91	
E5564390 (9632277)	<20	1400	<2	0.4	<5	<1	81.1	7.43	<0.2	6.3	63.4	0.030	322	2.89	
E5564391 (9632278)	<20	27	<2	<0.1	<5	<1	4.0	<0.05	<0.2	2.5	0.6	<0.005	<5	0.20	
E5564392 (9632279)	<20	1970	4	0.1	<5	<1	55.8	8.56	<0.2	6.4	56.0	0.026	116	2.94	
E5564393 (9632280)	<20	2120	4	0.3	<5	<1	83.5	8.30	<0.2	6.9	56.1	0.029	144	3.39	
E5564394 (9632281)	<20	495	6	0.5	<5	<1	49.9	3.76	<0.2	5.6	5.6	0.010	<5	0.47	
E5564395 (9632282)	<20	568	7	0.5	11	<1	35.2	1.06	<0.2	2.6	2.8	0.011	6	0.51	
E5564396 (9632283)	35	434	11	48.0	154	<1	2750	1.04	<0.2	450	8.8	0.010	347	4.88	
E5564397 (9632284)	<20	1780	2	1.8	<5	<1	58.4	8.68	<0.2	7.0	61.0	0.033	147	3.18	
E5564398 (9632285)	<20	1950	<2	0.7	<5	<1	56.9	8.07	<0.2	6.2	63.5	0.033	123	3.07	
E5564399 (9632286)	<20	1840	<2	0.6	<5	<1	51.0	7.97	<0.2	6.1	63.0	0.032	118	3.07	
E5564400 (9632287)	<20	706	7	0.8	<5	<1	79.1	1.06	<0.2	1.2	10.3	0.020	65	0.46	
E5564401 (9632288)	<20	1410	5	1.0	<5	<1	46.7	9.09	<0.2	7.7	50.8	0.033	93	2.81	
E5564402 (9632289)	<20	1700	5	0.4	<5	<1	33.7	10.5	<0.2	6.5	58.0	0.035	135	3.06	
E5564403 (9632290)	<20	1530	3	0.5	<5	<1	119	6.80	<0.2	7.0	56.2	0.032	102	2.94	
E5564404 (9632291)	<20	1560	4	0.6	6	<1	124	9.06	<0.2	6.6	55.8	0.032	131	2.93	
E5564405 (9632292)	<20	572	5	0.2	19	<1	72.6	3.04	<0.2	2.1	19.3	0.016	33	0.96	
E5564406 (9632293)	<20	1730	3	0.4	7	<1	68.0	9.32	<0.2	12.7	56.0	0.030	122	3.21	
E5564407 (9632294)	<20	1570	4	0.2	<5	<1	18.6	9.32	<0.2	6.4	52.7	0.033	93	2.97	
E5564408 (9632295)	<20	1430	2	<0.1	22	<1	18.8	7.19	<0.2	6.8	56.8	0.032	161	3.27	
E5564409 (9632296)	<20	1500	<2	<0.1	7	<1	22.0	7.31	<0.2	6.3	56.4	0.032	158	3.22	
E5564410 (9632297)	<20	57	5	0.4	<5	<1	46.2	0.16	<0.2	0.2	0.9	0.007	<5	<0.05	
E5564411 (9632298)	<20	25	<2	<0.1	<5	<1	4.0	<0.05	<0.2	2.2	0.5	<0.005	<5	0.19	
E5564412 (9632299)	<20	357	13	1.2	<5	<1	30.8	0.20	<0.2	0.3	2.1	0.021	<5	<0.05	
E5564413 (9632300)	<20	460	12	0.5	10	<1	53.0	0.14	<0.2	0.3	2.3	0.016	<5	<0.05	
E5564414 (9632301)	24	538	15	0.6	<5	<1	67.7	0.08	<0.2	0.4	3.6	0.025	<5	0.07	
E5564415 (9632302)	20	134	5	0.4	<5	<1	62.5	0.13	<0.2	0.5	0.7	0.007	<5	<0.05	
E5564416 (9632303)	21	383	17	0.4	<5	<1	20.3	0.08	<0.2	0.2	2.6	0.027	<5	0.05	
E5564417 (9632304)	22	118	8	0.7	<5	<1	70.4	0.16	<0.2	0.3	1.5	0.010	<5	<0.05	
E5564418 (9632305)	24	558	16	14.2	<5	<1	50.5	0.19	<0.2	0.6	2.1	0.027	<5	<0.05	
E5564419 (9632306)	27	346	9	12.6	39	1	1790	1.09	<0.2	1050	7.8	0.007	281	9.24	
E5564420 (9632307)	20	445	8	3.0	<5	<1	40.2	0.25	<0.2	1.6	1.0	0.012	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564421 (9632308)	23	1030	14	1.6	<5	<1	13.1	0.28	<0.2	1.5	2.8	0.021	<5	0.21	
E5564422 (9632309)	<20	710	7	1.0	<5	<1	4.3	0.47	<0.2	1.4	1.3	0.010	<5	0.36	
E5564423 (9632310)	<20	1460	7	2.5	<5	<1	54.5	6.99	<0.2	6.1	55.2	0.032	129	2.69	
E5564424 (9632311)	<20	1450	<2	0.2	<5	<1	29.3	8.13	<0.2	6.8	58.0	0.031	155	2.99	
E5564425 (9632312)	<20	1150	<2	0.6	21	<1	164	5.84	<0.2	28.8	46.9	0.026	99	3.16	
E5564426 (9632313)	<20	951	<2	0.4	<5	<1	321	4.75	<0.2	69.9	43.0	0.021	66	3.92	
E5564427 (9632314)	<20	1460	<2	0.1	<5	<1	53.5	7.82	<0.2	5.7	55.0	0.029	134	2.78	
E5564428 (9632315)	<20	1410	2	0.1	<5	<1	31.9	7.46	0.2	5.6	53.3	0.030	107	2.75	
E5564429 (9632316)	<20	1380	<2	0.1	<5	<1	27.7	6.93	<0.2	5.7	52.4	0.032	147	2.97	
E5564510 (9632317)	<20	1560	3	<0.1	12	<1	32.4	7.55	<0.2	6.3	57.2	0.032	149	3.14	
E5564511 (9632318)	<20	27	<2	<0.1	<5	<1	3.8	<0.05	<0.2	2.1	<0.5	<0.005	<5	0.19	
E5564512 (9632319)	<20	1470	<2	<0.1	<5	<1	16.6	7.19	<0.2	6.1	53.7	0.032	116	3.20	
E5564513 (9632320)	<20	1460	2	<0.1	<5	<1	19.4	7.14	<0.2	8.6	53.3	0.033	241	3.17	
E5564514 (9632321)	<20	1480	<2	<0.1	<5	<1	17.5	6.92	<0.2	6.3	52.2	0.033	152	3.16	
E5564515 (9632322)	<20	1400	<2	<0.1	<5	<1	20.1	7.29	0.2	5.7	51.4	0.033	187	3.11	
E5564516 (9632323)	36	422	11	46.5	141	1	2660	1.08	<0.2	409	8.1	0.009	339	4.66	
E5564517 (9632324)	<20	1470	<2	1.0	<5	<1	23.5	7.42	<0.2	5.9	53.6	0.032	138	3.33	
E5564518 (9632325)	<20	839	4	1.3	<5	<1	44.1	1.23	0.2	4.8	2.4	0.009	<5	0.74	
E5564519 (9632326)	<20	727	5	1.7	<5	<1	47.2	0.90	<0.2	3.0	2.4	0.007	<5	0.46	
E5564520 (9632327)	<20	46	4	1.5	<5	<1	31.7	0.12	<0.2	0.1	0.6	0.008	<5	<0.05	
E5564521 (9632328)	<20	799	14	0.9	<5	<1	13.4	0.10	<0.2	0.1	0.8	0.019	<5	<0.05	
E5564522 (9632329)	<20	29	4	2.2	<5	<1	30.1	0.10	<0.2	0.1	<0.5	0.007	<5	<0.05	
E5564523 (9632330)	<20	143	8	7.4	<5	<1	26.6	0.18	<0.2	0.1	0.6	0.011	<5	<0.05	
E5564524 (9632331)	<20	262	21	1.4	<5	<1	6.4	0.11	<0.2	0.2	1.1	0.037	6	<0.05	
E5564525 (9632332)	<20	216	14	1.6	<5	<1	12.6	0.12	<0.2	0.2	0.7	0.020	<5	<0.05	
E5564526 (9632333)	<20	306	17	4.1	21	<1	11.5	0.09	<0.2	<0.1	1.3	0.030	<5	<0.05	
E5564527 (9632334)	24	460	15	6.6	7	<1	6.8	0.19	<0.2	0.1	0.8	0.022	<5	<0.05	
E5564528 (9632335)	<20	63	6	0.6	12	<1	28.6	0.15	<0.2	<0.1	0.6	0.012	<5	<0.05	
E5564529 (9632336)	<20	902	18	2.7	<5	<1	6.8	0.25	<0.2	<0.1	1.2	0.026	<5	<0.05	
E5564530 (9632337)	<20	974	16	0.8	<5	<1	9.6	0.17	<0.2	<0.1	1.6	0.028	<5	<0.05	
E5564531 (9632338)	<20	26	<2	<0.1	<5	<1	4.0	<0.05	<0.2	2.3	0.5	<0.005	<5	0.16	
E5564532 (9632339)	23	794	15	0.6	<5	<1	4.8	0.15	<0.2	<0.1	1.9	0.025	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564533 (9632340)	20	1110	15	0.4	<5	<1	5.6	0.18	<0.2	<0.1	1.8	0.020	<5	<0.05	
E5564534 (9632341)	21	1110	16	1.5	<5	<1	8.5	0.21	<0.2	<0.1	1.8	0.026	<5	<0.05	
E5564535 (9632342)	<20	644	12	23.8	<5	<1	20.4	0.18	<0.2	<0.1	1.3	0.016	<5	<0.05	
E5564536 (9632343)	<20	2570	9	3.1	<5	<1	14.7	2.80	1.3	13.5	2.1	0.016	<5	1.92	
E5564537 (9632344)	<20	551	7	0.9	<5	<1	3.2	0.29	<0.2	3.2	0.7	0.010	<5	0.14	
E5564538 (9632345)	<20	244	6	0.5	<5	<1	1.8	0.45	0.2	1.1	0.6	0.011	<5	0.20	
E5564539 (9632346)	26	354	8	12.0	34	1	1800	1.04	<0.2	1060	7.4	0.007	287	8.58	
E5564540 (9632347)	<20	1510	3	1.8	<5	<1	69.1	7.06	<0.2	6.9	48.7	0.031	92	2.39	
E5564541 (9632348)	<20	1470	2	0.5	<5	<1	65.3	8.43	<0.2	5.7	54.0	0.030	131	2.84	
E5564542 (9632349)	<20	1390	3	0.7	<5	<1	104	8.71	<0.2	10.8	50.4	0.029	97	2.67	
E5564543 (9632350)	<20	1240	<2	0.6	<5	<1	309	8.38	<0.2	61.2	46.3	0.026	79	3.34	
E5564544 (9632351)	<20	1410	4	0.3	<5	<1	123	7.98	<0.2	16.6	53.9	0.029	149	3.08	
E5564545 (9632352)	24	1450	2	0.3	29	<1	54.8	9.07	<0.2	6.8	55.0	0.029	123	2.77	
E5564546 (9632353)	<20	1540	3	0.8	10	<1	39.2	9.84	<0.2	6.3	54.6	0.030	142	3.06	
E5564547 (9632354)	<20	2230	<2	<0.1	<5	<1	84.6	6.61	<0.2	4.8	48.9	0.030	160	2.73	
E5564548 (9632355)	<20	2430	<2	<0.1	<5	<1	77.7	10.6	0.2	10.8	46.1	0.025	180	2.58	
E5564549 (9632356)	<20	2510	<2	<0.1	<5	<1	80.2	13.2	<0.2	12.5	53.9	0.027	179	2.82	
E5564550 (9632357)	<20	1920	<2	<0.1	<5	<1	67.0	10.5	<0.2	5.5	50.7	0.026	100	2.65	
E5564551 (9632358)	<20	26	<2	<0.1	<5	<1	5.0	0.06	<0.2	2.0	0.5	<0.005	<5	0.26	
E5564552 (9632359)	<20	2100	<2	0.1	<5	<1	60.2	11.1	<0.2	5.5	54.8	0.026	194	2.50	
E5564553 (9632360)	<20	2380	2	0.5	<5	<1	57.1	11.0	<0.2	5.7	52.1	0.029	154	2.63	
E5564554 (9632361)	24	2020	2	0.5	<5	<1	112	7.77	<0.2	5.8	57.4	0.032	156	3.01	
E5564555 (9632362)	22	824	7	3.8	<5	<1	29.5	0.51	<0.2	0.5	4.6	0.011	14	0.11	
E5564556 (9632363)	32	415	10	47.3	140	1	2640	1.02	<0.2	414	7.9	0.010	332	4.64	
E5564557 (9632364)	<20	61	6	5.7	<5	<1	61.7	0.14	<0.2	0.2	0.6	0.008	<5	<0.05	
E5564558 (9632365)	24	506	12	6.1	<5	<1	31.2	0.17	<0.2	0.5	1.3	0.021	<5	<0.05	
E5564559 (9632366)	<20	54	6	1.1	<5	<1	54.3	0.12	<0.2	0.2	0.7	0.009	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018							DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core		
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564325 (9632212)	1.87	0.71	15.3	2.35	2	1	0.64	<0.2	3.2	0.29	5.8	118	<5	1.15	
E5564326 (9632213)	1.17	0.40	11.5	1.49	2	<1	0.43	<0.2	3.4	0.22	4.0	47	<5	0.86	
E5564327 (9632214)	1.83	0.67	15.7	2.29	2	1	0.60	<0.2	2.1	0.28	5.2	150	<5	1.01	
E5564328 (9632215)	1.63	2.18	24.4	6.36	3	3	0.65	<0.2	43.3	0.23	47.0	90	<5	12.1	
E5564329 (9632216)	2.02	1.92	16.6	5.77	2	2	0.79	<0.2	30.1	0.30	38.4	115	<5	10.0	
E5564330 (9632217)	2.02	0.68	15.5	2.60	2	1	0.70	<0.2	2.9	0.31	6.2	129	<5	1.22	
E5564331 (9632218)	0.16	<0.05	0.75	0.20	1	<1	0.06	<0.2	1.1	<0.05	1.0	12	<5	0.25	
E5564332 (9632219)	1.91	0.66	16.4	2.38	3	1	0.68	<0.2	2.8	0.30	5.5	114	<5	1.12	
E5564333 (9632220)	0.08	0.07	46.2	0.13	11	5	<0.05	<0.2	0.4	<0.05	0.5	12	<5	0.13	
E5564334 (9632221)	0.05	<0.05	40.0	0.13	10	1	<0.05	<0.2	0.7	<0.05	0.5	14	<5	0.13	
E5564335 (9632222)	0.19	0.24	61.3	0.65	10	8	0.09	<0.2	1.4	<0.05	2.6	15	<5	0.55	
E5564336 (9632223)	1.95	0.58	17.1	2.39	3	1	0.63	<0.2	2.5	0.31	5.1	125	<5	1.01	
E5564337 (9632224)	1.86	0.63	15.8	2.42	2	1	0.67	<0.2	2.1	0.31	5.1	124	<5	1.05	
E5564338 (9632225)	2.11	0.73	16.2	2.72	2	1	0.73	<0.2	2.8	0.33	5.8	133	<5	1.15	
E5564339 (9632226)	2.53	10.6	24.7	29.2	4	6	1.31	1.7	688	0.25	398	23	28	126	
E5564340 (9632227)	2.10	0.74	16.6	2.84	2	1	0.75	<0.2	3.2	0.35	6.4	133	<5	1.32	
E5564341 (9632228)	0.05	<0.05	50.9	0.06	5	<1	<0.05	<0.2	0.2	<0.05	0.2	8	11	<0.05	
E5564342 (9632229)	0.13	0.06	50.3	0.26	4	<1	0.05	<0.2	0.9	<0.05	0.9	11	<5	0.22	
E5564343 (9632230)	1.99	0.69	17.7	2.56	2	1	0.72	<0.2	2.7	0.34	5.6	140	<5	1.13	
E5564344 (9632231)	2.15	0.72	17.4	2.72	2	1	0.74	<0.2	2.9	0.32	6.5	124	<5	1.25	
E5564345 (9632232)	2.26	0.73	16.9	2.63	2	1	0.77	<0.2	2.9	0.34	6.1	137	<5	1.18	
E5564346 (9632233)	2.25	0.73	16.5	2.78	1	1	0.78	<0.2	2.9	0.37	6.0	129	9	1.17	
E5564347 (9632234)	2.36	0.74	17.1	2.68	1	1	0.80	<0.2	2.8	0.40	6.1	134	6	1.23	
E5564348 (9632235)	2.11	0.74	15.3	2.72	1	1	0.71	<0.2	2.6	0.34	5.9	120	<5	1.17	
E5564349 (9632236)	2.14	0.71	17.7	2.74	2	2	0.74	<0.2	2.8	0.35	6.0	143	<5	1.17	
E5564350 (9632237)	2.20	0.76	16.7	2.80	2	1	0.78	<0.2	3.0	0.38	6.3	126	17	1.23	
E5564351 (9632238)	0.13	<0.05	0.30	0.20	1	<1	<0.05	<0.2	1.2	<0.05	1.0	15	<5	0.29	
E5564352 (9632239)	2.01	0.70	17.3	2.62	2	1	0.69	<0.2	2.7	0.31	5.9	127	7	1.15	
E5564353 (9632240)	0.10	0.05	50.1	0.23	6	2	<0.05	<0.2	0.2	<0.05	0.6	8	<5	0.13	
E5564354 (9632241)	<0.05	0.12	46.1	0.32	6	3	<0.05	<0.2	0.6	<0.05	2.0	9	<5	0.46	
E5564355 (9632242)	<0.05	0.06	36.1	0.15	6	1	<0.05	<0.2	0.5	<0.05	0.8	9	<5	0.17	
E5564356 (9632243)	1.82	4.81	51.8	12.7	7	5	0.79	11.3	274	0.23	163	33	37	53.1	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018						SAMPLE TYPE: Drill Core		
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
Sample ID (AGAT ID)															
E5564357 (9632244)	0.07	0.12	31.1	0.30	6	2	<0.05	<0.2	1.1	<0.05	1.1	8	7	0.25	
E5564358 (9632245)	1.79	0.75	29.5	2.48	3	2	0.65	<0.2	5.0	0.29	7.0	89	<5	1.50	
E5564359 (9632246)	2.44	0.94	20.2	3.38	1	2	0.85	<0.2	4.6	0.38	8.4	105	<5	1.69	
E5564360 (9632247)	2.45	1.04	21.1	3.47	1	2	0.89	<0.2	4.4	0.40	8.3	114	<5	1.71	
E5564361 (9632248)	2.21	0.81	19.8	2.91	1	2	0.77	<0.2	4.3	0.35	6.9	103	<5	1.48	
E5564362 (9632249)	2.04	0.61	18.9	2.78	1	2	0.69	<0.2	4.9	0.32	7.3	93	<5	1.54	
E5564363 (9632250)	1.98	0.80	15.6	2.99	<1	2	0.68	<0.2	7.3	0.30	8.9	95	<5	1.93	
E5564364 (9632251)	2.12	0.97	18.8	2.95	2	1	0.74	<0.2	8.4	0.30	9.4	87	<5	2.18	
E5564365 (9632252)	2.33	0.94	24.4	3.16	3	2	0.79	<0.2	8.6	0.36	10.3	88	<5	2.28	
E5564366 (9632253)	1.93	0.68	15.7	2.55	2	1	0.66	<0.2	2.6	0.31	5.4	145	<5	1.05	
E5564367 (9632254)	1.98	0.69	16.5	2.49	2	1	0.67	<0.2	2.5	0.32	5.8	160	<5	1.09	
E5564368 (9632255)	1.71	0.63	18.6	2.18	2	1	0.60	<0.2	2.2	0.28	4.9	139	<5	1.00	
E5564369 (9632256)	1.94	0.63	16.3	2.34	2	1	0.66	<0.2	2.4	0.30	5.5	153	<5	1.08	
E5564370 (9632257)	1.87	0.60	14.3	2.30	1	1	0.61	<0.2	2.4	0.30	5.1	150	<5	1.07	
E5564371 (9632258)	0.11	<0.05	0.27	0.15	<1	<1	<0.05	<0.2	1.0	<0.05	0.9	8	<5	0.26	
E5564372 (9632259)	1.89	0.79	15.5	2.44	1	1	0.67	<0.2	2.6	0.29	5.7	145	<5	1.12	
E5564373 (9632260)	1.68	0.62	18.4	2.40	3	1	0.60	<0.2	2.9	0.29	5.4	140	5	1.15	
E5564374 (9632261)	0.26	0.20	54.6	0.68	6	2	0.12	<0.2	1.9	<0.05	2.9	17	<5	0.62	
E5564375 (9632262)	<0.05	0.05	39.7	0.11	5	<1	<0.05	<0.2	0.3	<0.05	0.3	8	10	0.07	
E5564376 (9632263)	<0.05	<0.05	43.1	<0.05	5	<1	<0.05	<0.2	0.2	<0.05	0.2	8	8	0.06	
E5564377 (9632264)	<0.05	<0.05	55.4	0.06	5	<1	<0.05	<0.2	0.1	<0.05	0.2	11	8	<0.05	
E5564378 (9632265)	<0.05	<0.05	93.7	0.12	6	2	<0.05	<0.2	0.1	<0.05	0.4	15	<5	0.06	
E5564379 (9632266)	2.54	10.6	24.2	28.2	4	6	1.30	2.0	691	0.23	396	24	28	127	
E5564380 (9632267)	<0.05	<0.05	26.8	<0.05	6	<1	<0.05	<0.2	0.4	<0.05	0.3	7	18	0.09	
E5564381 (9632268)	<0.05	<0.05	29.4	<0.05	6	<1	<0.05	<0.2	<0.1	<0.05	0.1	7	16	<0.05	
E5564382 (9632269)	<0.05	<0.05	74.8	0.07	7	2	<0.05	<0.2	0.1	<0.05	0.2	11	6	<0.05	
E5564383 (9632270)	<0.05	<0.05	27.1	0.05	6	<1	<0.05	<0.2	0.1	<0.05	0.2	8	17	<0.05	
E5564384 (9632271)	<0.05	<0.05	31.2	0.13	6	2	<0.05	<0.2	0.2	<0.05	0.4	9	13	0.08	
E5564385 (9632272)	1.88	0.67	16.1	2.37	2	1	0.67	<0.2	2.4	0.28	5.4	149	<5	1.03	
E5564386 (9632273)	1.92	0.66	16.1	2.54	2	1	0.66	<0.2	2.2	0.31	5.6	147	<5	1.03	
E5564387 (9632274)	1.90	0.70	16.3	2.36	2	1	0.66	<0.2	2.2	0.31	5.5	150	<5	1.08	
E5564388 (9632275)	1.79	0.71	15.7	2.36	2	1	0.64	<0.2	3.3	0.30	6.0	145	<5	1.17	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018						SAMPLE TYPE: Drill Core		
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564389 (9632276)	1.96	0.63	15.3	2.41	2	1	0.66	<0.2	1.9	0.30	5.1	153	6	0.96	
E5564390 (9632277)	1.82	0.69	15.6	2.44	2	1	0.62	<0.2	2.3	0.30	5.3	151	6	1.04	
E5564391 (9632278)	0.10	<0.05	0.29	0.23	<1	<1	<0.05	<0.2	1.2	<0.05	1.2	7	<5	0.30	
E5564392 (9632279)	1.90	0.65	16.2	2.39	2	1	0.67	<0.2	2.4	0.30	5.3	123	<5	1.02	
E5564393 (9632280)	2.04	0.77	22.2	2.74	2	1	0.73	<0.2	2.7	0.34	6.2	122	<5	1.16	
E5564394 (9632281)	0.23	0.16	72.2	0.48	5	1	0.09	<0.2	3.3	<0.05	2.0	15	6	0.62	
E5564395 (9632282)	0.23	0.09	53.6	0.44	5	1	0.09	<0.2	1.2	<0.05	1.4	11	5	0.34	
E5564396 (9632283)	1.82	4.76	49.9	12.2	7	5	0.77	11.1	268	0.24	160	34	38	52.6	
E5564397 (9632284)	1.90	0.63	18.7	2.40	2	1	0.67	<0.2	2.7	0.31	5.7	158	<5	1.09	
E5564398 (9632285)	1.87	0.68	17.6	2.49	2	1	0.67	<0.2	2.1	0.31	5.6	155	<5	1.05	
E5564399 (9632286)	1.91	0.71	17.4	2.43	2	1	0.65	<0.2	2.1	0.31	5.5	153	<5	1.05	
E5564400 (9632287)	0.25	0.08	38.9	0.35	4	<1	0.09	<0.2	0.5	<0.05	0.9	35	7	0.18	
E5564401 (9632288)	1.78	0.62	17.7	2.30	2	1	0.63	<0.2	3.4	0.29	5.8	138	11	1.15	
E5564402 (9632289)	1.90	0.65	16.2	2.47	2	1	0.70	<0.2	2.4	0.29	5.3	145	<5	1.05	
E5564403 (9632290)	1.89	0.69	16.1	2.35	2	1	0.64	<0.2	2.7	0.32	5.5	146	8	1.09	
E5564404 (9632291)	1.81	0.66	16.2	2.43	2	1	0.65	<0.2	2.5	0.29	5.3	153	<5	1.12	
E5564405 (9632292)	0.58	0.21	33.4	0.78	3	2	0.21	<0.2	0.8	0.10	1.8	53	5	0.32	
E5564406 (9632293)	1.97	0.76	15.6	2.71	2	1	0.68	<0.2	5.7	0.31	8.1	143	<5	1.80	
E5564407 (9632294)	1.86	0.65	15.7	2.23	2	1	0.62	<0.2	2.4	0.29	5.3	152	<5	1.05	
E5564408 (9632295)	2.04	0.68	15.7	2.77	2	1	0.72	<0.2	2.5	0.37	5.8	116	<5	1.12	
E5564409 (9632296)	1.89	0.66	15.4	2.45	2	1	0.72	<0.2	2.3	0.32	5.7	105	<5	1.07	
E5564410 (9632297)	<0.05	<0.05	28.3	0.06	6	<1	<0.05	<0.2	<0.1	<0.05	0.1	6	16	<0.05	
E5564411 (9632298)	0.11	<0.05	0.32	0.20	<1	<1	<0.05	<0.2	1.1	<0.05	1.0	10	<5	0.25	
E5564412 (9632299)	<0.05	<0.05	39.9	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	0.2	23	8	<0.05	
E5564413 (9632300)	<0.05	<0.05	54.3	0.06	5	<1	<0.05	<0.2	0.1	<0.05	0.2	10	6	0.06	
E5564414 (9632301)	<0.05	<0.05	58.0	0.07	5	1	<0.05	<0.2	0.1	<0.05	0.2	13	<5	0.06	
E5564415 (9632302)	<0.05	<0.05	33.7	0.06	6	<1	<0.05	<0.2	0.2	<0.05	0.3	5	17	0.07	
E5564416 (9632303)	<0.05	<0.05	45.0	<0.05	4	<1	<0.05	<0.2	<0.1	<0.05	0.2	8	<5	<0.05	
E5564417 (9632304)	<0.05	<0.05	31.9	<0.05	6	<1	<0.05	<0.2	0.1	<0.05	0.1	8	13	<0.05	
E5564418 (9632305)	<0.05	<0.05	53.0	<0.05	5	<1	<0.05	<0.2	0.3	<0.05	0.3	9	<5	0.06	
E5564419 (9632306)	2.65	10.6	25.4	29.3	4	6	1.28	2.0	699	0.26	402	22	29	131	
E5564420 (9632307)	<0.05	<0.05	43.4	0.13	8	1	<0.05	<0.2	0.8	<0.05	0.8	8	<5	0.19	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018							DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core		
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564421 (9632308)	0.09	0.08	77.7	0.24	6	5	<0.05	<0.2	0.6	<0.05	1.0	10	<5	0.23	
E5564422 (9632309)	0.23	0.10	44.7	0.43	7	7	0.09	<0.2	0.5	<0.05	1.1	8	<5	0.22	
E5564423 (9632310)	1.63	0.61	17.0	2.15	2	1	0.58	<0.2	2.4	0.29	5.0	141	<5	1.01	
E5564424 (9632311)	1.90	0.65	16.1	2.51	2	1	0.65	<0.2	2.5	0.32	5.8	147	<5	1.12	
E5564425 (9632312)	1.80	1.22	17.8	3.78	1	2	0.65	<0.2	11.6	0.25	16.3	143	<5	4.11	
E5564426 (9632313)	1.84	1.90	20.2	5.79	2	4	0.68	<0.2	28.4	0.22	38.7	147	<5	9.63	
E5564427 (9632314)	1.85	0.69	15.7	2.32	2	1	0.61	<0.2	2.0	0.29	5.2	147	<5	0.98	
E5564428 (9632315)	1.69	0.60	15.4	2.07	2	1	0.59	<0.2	2.0	0.28	4.9	154	<5	0.93	
E5564429 (9632316)	1.86	0.69	15.6	2.35	2	1	0.62	<0.2	2.1	0.30	4.9	126	<5	0.96	
E5564510 (9632317)	1.97	0.66	15.7	2.47	2	1	0.68	<0.2	2.3	0.30	5.7	139	<5	1.07	
E5564511 (9632318)	0.11	<0.05	0.28	0.18	<1	<1	<0.05	<0.2	1.0	<0.05	0.9	6	<5	0.24	
E5564512 (9632319)	1.95	0.69	15.2	2.59	2	1	0.67	<0.2	2.2	0.30	5.5	124	<5	1.02	
E5564513 (9632320)	2.04	0.73	15.7	2.64	2	1	0.70	<0.2	3.0	0.32	6.4	109	<5	1.25	
E5564514 (9632321)	1.93	0.67	15.4	2.74	2	1	0.72	<0.2	2.1	0.30	5.5	105	<5	1.05	
E5564515 (9632322)	1.97	0.64	15.3	2.51	2	1	0.66	<0.2	1.9	0.31	5.2	102	19	0.94	
E5564516 (9632323)	1.69	4.49	48.1	12.0	7	5	0.75	11.4	242	0.21	147	32	37	47.2	
E5564517 (9632324)	2.05	0.66	16.1	2.55	2	1	0.71	<0.2	2.2	0.33	5.4	116	<5	1.02	
E5564518 (9632325)	0.31	0.14	54.1	0.70	5	<1	0.13	<0.2	2.3	<0.05	2.4	13	12	0.63	
E5564519 (9632326)	0.23	0.10	58.6	0.41	5	<1	0.09	<0.2	1.5	<0.05	1.5	10	12	0.39	
E5564520 (9632327)	<0.05	<0.05	28.7	<0.05	7	<1	<0.05	<0.2	<0.1	<0.05	<0.1	6	14	<0.05	
E5564521 (9632328)	<0.05	<0.05	36.6	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	7	9	<0.05	
E5564522 (9632329)	<0.05	<0.05	21.0	<0.05	14	<1	<0.05	<0.2	<0.1	<0.05	<0.1	5	26	<0.05	
E5564523 (9632330)	<0.05	<0.05	29.4	<0.05	15	<1	<0.05	<0.2	<0.1	<0.05	<0.1	5	20	<0.05	
E5564524 (9632331)	<0.05	<0.05	25.2	<0.05	12	<1	<0.05	<0.2	0.1	<0.05	0.1	9	<5	<0.05	
E5564525 (9632332)	<0.05	<0.05	19.2	<0.05	12	<1	<0.05	<0.2	<0.1	<0.05	<0.1	8	10	<0.05	
E5564526 (9632333)	<0.05	<0.05	34.8	<0.05	14	<1	<0.05	<0.2	<0.1	<0.05	<0.1	11	8	<0.05	
E5564527 (9632334)	<0.05	<0.05	28.5	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	8	<5	<0.05	
E5564528 (9632335)	<0.05	<0.05	25.7	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	14	15	<0.05	
E5564529 (9632336)	<0.05	<0.05	57.1	<0.05	7	<1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05	
E5564530 (9632337)	<0.05	<0.05	72.2	<0.05	10	1	<0.05	<0.2	<0.1	<0.05	<0.1	13	<5	<0.05	
E5564531 (9632338)	0.12	<0.05	0.27	0.17	<1	<1	<0.05	<0.2	1.1	<0.05	1.1	10	<5	0.28	
E5564532 (9632339)	<0.05	<0.05	58.7	<0.05	10	<1	<0.05	<0.2	<0.1	<0.05	<0.1	12	<5	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018					DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564533 (9632340)	<0.05	<0.05	70.0	<0.05	8	<1	<0.05	<0.2	<0.1	<0.05	<0.1	10	<5	<0.05	
E5564534 (9632341)	<0.05	<0.05	72.3	<0.05	6	<1	<0.05	<0.2	<0.1	<0.05	<0.1	11	<5	<0.05	
E5564535 (9632342)	<0.05	<0.05	46.5	<0.05	7	<1	<0.05	<0.2	<0.1	<0.05	<0.1	8	7	<0.05	
E5564536 (9632343)	0.79	0.31	63.5	1.59	5	1	0.31	<0.2	7.0	0.11	5.5	10	8	1.52	
E5564537 (9632344)	0.07	0.09	37.6	0.25	7	11	<0.05	<0.2	1.2	<0.05	1.3	11	<5	0.33	
E5564538 (9632345)	0.11	0.07	37.5	0.27	7	6	<0.05	<0.2	0.4	<0.05	0.8	8	<5	0.16	
E5564539 (9632346)	2.37	10.3	25.1	28.4	4	6	1.23	1.8	645	0.24	375	29	30	117	
E5564540 (9632347)	1.51	0.55	16.9	1.96	2	1	0.52	<0.2	2.9	0.25	4.7	152	<5	1.05	
E5564541 (9632348)	1.77	0.59	15.1	2.30	2	1	0.59	<0.2	2.1	0.28	4.8	154	<5	0.96	
E5564542 (9632349)	1.66	0.60	16.2	2.28	2	1	0.57	<0.2	5.5	0.27	6.2	146	<5	1.41	
E5564543 (9632350)	1.68	1.51	18.3	4.65	2	3	0.64	<0.2	26.2	0.22	31.3	168	<5	8.04	
E5564544 (9632351)	1.79	0.82	15.8	2.73	2	2	0.64	<0.2	6.9	0.28	10.3	163	<5	2.39	
E5564545 (9632352)	1.80	0.66	15.3	2.37	2	1	0.57	<0.2	2.6	0.26	5.4	156	<5	1.12	
E5564546 (9632353)	1.87	0.60	15.9	2.33	2	1	0.65	<0.2	2.3	0.28	5.1	162	<5	0.99	
E5564547 (9632354)	1.66	0.62	15.9	2.19	1	1	0.60	<0.2	1.7	0.25	4.6	133	<5	0.87	
E5564548 (9632355)	1.61	0.65	14.3	2.23	1	1	0.56	<0.2	4.5	0.25	7.2	127	<5	1.55	
E5564549 (9632356)	1.71	0.70	14.5	2.74	2	1	0.64	<0.2	5.1	0.27	8.4	152	5	1.77	
E5564550 (9632357)	1.63	0.61	14.4	2.20	2	1	0.59	<0.2	2.1	0.26	4.8	137	<5	0.87	
E5564551 (9632358)	0.18	<0.05	0.28	0.25	<1	<1	<0.05	<0.2	1.0	<0.05	0.9	10	<5	0.24	
E5564552 (9632359)	1.61	0.54	14.3	2.14	2	1	0.55	<0.2	2.1	0.25	4.5	137	<5	0.89	
E5564553 (9632360)	1.66	0.62	14.0	2.22	1	1	0.59	<0.2	2.2	0.25	4.7	146	<5	0.89	
E5564554 (9632361)	1.89	0.68	15.7	2.32	2	1	0.64	<0.2	2.0	0.30	5.1	162	15	0.98	
E5564555 (9632362)	0.07	<0.05	80.7	0.13	5	<1	<0.05	<0.2	0.2	<0.05	0.3	17	6	0.08	
E5564556 (9632363)	1.67	4.55	48.4	12.0	7	5	0.75	11.5	247	0.19	147	33	37	47.3	
E5564557 (9632364)	<0.05	<0.05	24.6	<0.05	7	<1	<0.05	<0.2	0.1	<0.05	0.1	6	15	<0.05	
E5564558 (9632365)	<0.05	<0.05	46.1	0.12	6	2	<0.05	<0.2	0.2	<0.05	0.6	10	<5	0.10	
E5564559 (9632366)	<0.05	<0.05	29.2	<0.05	7	<1	<0.05	<0.2	<0.1	<0.05	0.1	7	16	<0.05	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018					DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564325 (9632212)	0.30	0.2	37	1.7	149	0.42	0.3	0.43	0.6	0.30	0.12	221	3	16.9	
E5564326 (9632213)	0.13	<0.1	14	1.1	91.0	0.27	0.1	0.16	<0.5	0.19	0.89	93	<1	11.2	
E5564327 (9632214)	0.08	0.2	38	1.7	116	0.43	0.3	0.44	0.6	0.28	0.07	246	<1	16.3	
E5564328 (9632215)	0.05	0.2	21	7.6	242	0.79	6.4	0.36	1.4	0.24	2.93	162	<1	16.8	
E5564329 (9632216)	0.02	<0.1	38	6.4	176	0.78	4.4	0.47	1.4	0.32	1.10	248	1	20.0	
E5564330 (9632217)	0.16	0.5	43	2.0	114	0.48	0.4	0.47	<0.5	0.31	0.11	280	<1	17.9	
E5564331 (9632218)	<0.01	<0.1	<5	0.2	2.2	<0.05	0.6	0.04	<0.5	<0.05	0.18	6	<1	1.5	
E5564332 (9632219)	0.14	0.9	38	1.8	79.0	0.44	0.4	0.45	1.8	0.32	0.32	248	1	17.3	
E5564333 (9632220)	<0.01	<0.1	<5	0.1	36.1	<0.05	5.7	0.01	14.1	<0.05	2.92	6	3	0.8	
E5564334 (9632221)	<0.01	0.3	<5	<0.1	39.0	<0.05	2.8	<0.01	7.7	<0.05	5.97	7	2	0.6	
E5564335 (9632222)	<0.01	0.3	<5	0.6	49.8	0.07	25.8	0.02	19.9	<0.05	12.1	7	4	2.7	
E5564336 (9632223)	0.05	1.6	39	1.5	134	0.45	1.1	0.44	16.8	0.29	1.59	248	1	16.2	
E5564337 (9632224)	0.06	1.4	40	1.6	139	0.44	0.4	0.45	0.7	0.30	0.31	261	9	17.1	
E5564338 (9632225)	0.06	0.9	43	1.9	122	0.48	0.3	0.48	<0.5	0.34	0.36	277	<1	18.7	
E5564339 (9632226)	0.02	10.6	10	46.1	257	3.22	96.1	0.45	11.7	0.32	16.5	60	5	27.5	
E5564340 (9632227)	0.07	0.6	44	1.9	117	0.52	0.8	0.51	1.0	0.33	0.11	282	<1	19.1	
E5564341 (9632228)	<0.01	<0.1	<5	<0.1	69.6	<0.05	0.8	0.02	42.8	<0.05	1.90	6	2	<0.5	
E5564342 (9632229)	<0.01	<0.1	<5	0.2	37.0	<0.05	3.1	0.02	19.8	<0.05	4.20	7	3	1.8	
E5564343 (9632230)	0.08	1.1	46	1.7	110	0.47	0.5	0.50	0.8	0.34	0.32	286	<1	18.5	
E5564344 (9632231)	0.02	1.2	41	2.0	111	0.50	0.4	0.51	<0.5	0.36	0.09	260	<1	18.9	
E5564345 (9632232)	0.17	0.2	43	2.0	91.8	0.50	0.3	0.50	1.0	0.35	0.08	274	<1	20.2	
E5564346 (9632233)	0.40	0.1	47	1.9	85.8	0.51	0.3	0.49	<0.5	0.36	0.14	293	<1	19.8	
E5564347 (9632234)	0.40	0.2	44	2.0	64.7	0.51	0.3	0.47	<0.5	0.38	0.11	277	7	20.6	
E5564348 (9632235)	0.30	<0.1	41	1.8	57.5	0.47	0.3	0.43	0.7	0.34	0.16	249	<1	19.2	
E5564349 (9632236)	0.25	<0.1	45	1.9	89.8	0.51	0.3	0.50	0.5	0.35	0.07	289	<1	18.9	
E5564350 (9632237)	0.38	<0.1	44	1.9	76.1	0.51	0.3	0.47	0.5	0.35	0.22	268	<1	20.9	
E5564351 (9632238)	<0.01	<0.1	<5	0.2	0.6	<0.05	0.6	0.03	<0.5	<0.05	0.20	<5	<1	1.2	
E5564352 (9632239)	0.13	0.2	42	1.7	91.6	0.48	0.3	0.49	1.0	0.32	0.13	273	<1	18.0	
E5564353 (9632240)	<0.01	<0.1	<5	0.2	24.9	<0.05	3.8	0.01	11.1	<0.05	1.71	6	2	1.0	
E5564354 (9632241)	<0.01	0.3	<5	0.3	39.1	<0.05	13.5	<0.01	18.7	<0.05	34.1	5	2	1.0	
E5564355 (9632242)	<0.01	0.2	<5	0.1	25.2	<0.05	6.4	<0.01	12.9	<0.05	4.34	<5	2	<0.5	
E5564356 (9632243)	0.02	29.3	8	19.4	175	1.47	117	0.36	7.6	0.25	25.7	72	14	18.2	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564357 (9632244)	<0.01	<0.1	<5	0.2	42.3	<0.05	3.9	<0.01	28.2	<0.05	5.91	<5	1	1.1	
E5564358 (9632245)	0.06	0.2	34	1.9	101	0.45	1.0	0.57	0.9	0.29	2.95	265	1	15.8	
E5564359 (9632246)	0.04	<0.1	41	2.3	79.7	0.60	0.6	0.72	0.7	0.37	0.87	318	1	21.2	
E5564360 (9632247)	0.04	<0.1	41	2.6	82.1	0.63	0.5	0.72	0.6	0.38	0.69	318	1	22.1	
E5564361 (9632248)	0.09	0.1	41	2.2	64.9	0.51	0.5	0.70	0.7	0.35	2.35	324	2	18.4	
E5564362 (9632249)	0.04	<0.1	39	2.2	46.5	0.47	0.5	0.68	<0.5	0.30	5.24	295	4	17.1	
E5564363 (9632250)	0.03	<0.1	35	2.4	37.9	0.49	0.5	0.72	0.7	0.30	2.09	286	4	16.9	
E5564364 (9632251)	0.02	0.1	31	2.4	118	0.54	0.3	0.51	<0.5	0.32	1.19	243	3	19.1	
E5564365 (9632252)	0.02	0.4	34	2.4	217	0.56	0.5	0.58	<0.5	0.35	0.67	278	3	20.6	
E5564366 (9632253)	0.08	<0.1	38	1.6	137	0.45	0.3	0.44	<0.5	0.31	0.08	241	<1	17.1	
E5564367 (9632254)	0.17	<0.1	41	1.8	87.1	0.45	0.3	0.44	<0.5	0.31	0.08	257	<1	17.5	
E5564368 (9632255)	0.13	0.7	38	1.5	105	0.41	0.5	0.41	1.5	0.26	0.41	240	2	15.6	
E5564369 (9632256)	0.07	1.1	39	1.7	94.4	0.43	0.3	0.45	<0.5	0.28	0.07	251	<1	17.3	
E5564370 (9632257)	0.13	1.3	38	1.7	88.0	0.40	0.3	0.44	<0.5	0.28	0.07	248	<1	16.4	
E5564371 (9632258)	<0.01	<0.1	<5	0.2	0.6	<0.05	0.6	0.03	<0.5	<0.05	0.20	<5	<1	1.0	
E5564372 (9632259)	0.07	1.2	39	1.8	119	0.45	0.3	0.44	<0.5	0.30	0.08	249	<1	16.6	
E5564373 (9632260)	0.13	2.1	36	1.5	102	0.41	0.5	0.42	0.5	0.28	1.30	234	<1	16.0	
E5564374 (9632261)	<0.01	<0.1	<5	0.7	57.2	0.10	7.2	0.09	20.9	<0.05	2.65	21	5	3.1	
E5564375 (9632262)	<0.01	<0.1	<5	<0.1	53.3	<0.05	2.5	<0.01	27.7	<0.05	2.69	<5	<1	0.7	
E5564376 (9632263)	<0.01	<0.1	<5	<0.1	47.1	<0.05	1.3	<0.01	28.6	<0.05	2.24	<5	1	<0.5	
E5564377 (9632264)	<0.01	<0.1	<5	<0.1	51.7	<0.05	0.8	0.01	37.6	<0.05	1.64	5	2	<0.5	
E5564378 (9632265)	<0.01	<0.1	<5	0.1	49.7	<0.05	3.7	0.03	31.7	<0.05	3.92	6	8	<0.5	
E5564379 (9632266)	0.02	10.3	10	46.9	257	3.10	94.7	0.46	11.5	0.31	16.6	60	5	27.3	
E5564380 (9632267)	<0.01	<0.1	<5	<0.1	86.7	<0.05	1.3	<0.01	70.9	<0.05	0.62	<5	<1	<0.5	
E5564381 (9632268)	<0.01	<0.1	<5	<0.1	79.8	<0.05	0.3	<0.01	62.8	<0.05	0.65	<5	<1	<0.5	
E5564382 (9632269)	<0.01	<0.1	<5	<0.1	56.2	<0.05	2.3	0.02	41.6	<0.05	2.52	5	6	<0.5	
E5564383 (9632270)	<0.01	<0.1	<5	<0.1	87.9	<0.05	1.2	<0.01	70.8	<0.05	0.96	<5	<1	<0.5	
E5564384 (9632271)	<0.01	<0.1	<5	0.1	64.8	<0.05	2.4	<0.01	47.4	<0.05	1.91	<5	1	0.7	
E5564385 (9632272)	0.17	0.3	39	1.6	78.7	0.45	0.4	0.43	1.2	0.30	0.47	254	<1	17.1	
E5564386 (9632273)	0.13	0.2	40	1.7	76.6	0.43	0.3	0.44	0.6	0.31	0.40	255	<1	17.7	
E5564387 (9632274)	0.09	<0.1	41	1.9	76.1	0.46	0.4	0.46	<0.5	0.30	0.40	259	<1	17.9	
E5564388 (9632275)	0.05	0.1	38	1.8	66.3	0.43	0.3	0.43	<0.5	0.28	0.50	255	<1	17.3	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564389 (9632276)	0.07	<0.1	39	1.7	71.8	0.42	0.3	0.44	<0.5	0.31	0.09	258	<1	17.3	
E5564390 (9632277)	0.34	<0.1	38	1.5	77.3	0.42	0.3	0.44	0.5	0.30	0.18	243	<1	16.7	
E5564391 (9632278)	<0.01	<0.1	<5	0.2	0.8	<0.05	0.6	0.03	<0.5	<0.05	0.18	<5	<1	1.0	
E5564392 (9632279)	0.05	<0.1	40	1.8	92.5	0.44	0.3	0.41	<0.5	0.32	0.06	257	<1	17.3	
E5564393 (9632280)	0.08	0.3	44	1.9	116	0.49	0.3	0.48	1.5	0.32	0.16	278	<1	19.0	
E5564394 (9632281)	<0.01	0.2	<5	0.4	183	0.08	1.6	0.05	21.2	<0.05	1.74	27	1	3.1	
E5564395 (9632282)	<0.01	<0.1	<5	0.4	41.2	0.08	2.0	0.02	20.0	<0.05	1.59	8	3	2.9	
E5564396 (9632283)	0.02	29.3	7	19.2	179	1.42	119	0.36	7.7	0.25	25.5	73	14	18.7	
E5564397 (9632284)	0.04	0.6	42	1.8	103	0.45	0.7	0.44	1.7	0.30	0.15	269	<1	17.6	
E5564398 (9632285)	0.06	1.0	41	1.9	67.4	0.46	0.4	0.45	1.1	0.30	0.10	262	<1	16.6	
E5564399 (9632286)	0.05	0.9	40	1.8	68.8	0.46	0.3	0.47	0.9	0.31	0.12	255	<1	16.9	
E5564400 (9632287)	<0.01	0.1	6	0.2	71.0	0.07	2.0	0.08	38.0	<0.05	2.98	33	3	2.3	
E5564401 (9632288)	0.03	1.1	36	1.6	102	0.43	0.4	0.42	0.7	0.29	0.44	242	<1	16.6	
E5564402 (9632289)	0.12	1.5	37	1.6	96.2	0.44	0.3	0.42	<0.5	0.29	0.08	237	<1	17.2	
E5564403 (9632290)	0.11	1.4	39	1.7	74.7	0.45	0.3	0.43	1.4	0.32	0.45	250	<1	16.8	
E5564404 (9632291)	0.10	0.8	38	1.6	106	0.43	0.2	0.44	1.7	0.29	0.09	249	<1	16.6	
E5564405 (9632292)	0.03	0.7	12	0.6	67.1	0.15	1.3	0.14	0.8	0.10	1.95	79	<1	5.5	
E5564406 (9632293)	0.07	1.2	36	2.0	121	0.45	0.5	0.42	1.0	0.30	0.69	228	<1	17.1	
E5564407 (9632294)	0.09	1.9	38	1.6	121	0.43	0.3	0.44	<0.5	0.27	0.07	246	<1	16.4	
E5564408 (9632295)	0.08	<0.1	41	1.8	81.2	0.49	0.4	0.46	<0.5	0.33	0.09	260	<1	18.9	
E5564409 (9632296)	0.07	<0.1	41	1.9	77.8	0.47	0.3	0.48	<0.5	0.31	0.07	264	<1	18.1	
E5564410 (9632297)	<0.01	<0.1	<5	<0.1	92.5	<0.05	0.4	<0.01	85.1	<0.05	0.79	<5	<1	<0.5	
E5564411 (9632298)	<0.01	<0.1	<5	0.2	0.2	<0.05	0.6	0.03	<0.5	<0.05	0.16	<5	<1	1.1	
E5564412 (9632299)	<0.01	<0.1	<5	<0.1	61.1	<0.05	0.9	0.01	52.5	<0.05	0.88	<5	2	<0.5	
E5564413 (9632300)	<0.01	<0.1	<5	<0.1	55.8	<0.05	0.5	0.01	41.0	<0.05	1.20	<5	3	<0.5	
E5564414 (9632301)	<0.01	<0.1	<5	<0.1	42.8	<0.05	1.3	0.01	29.8	<0.05	1.36	<5	4	<0.5	
E5564415 (9632302)	<0.01	0.2	<5	<0.1	96.3	<0.05	0.4	<0.01	85.4	<0.05	0.37	<5	1	<0.5	
E5564416 (9632303)	<0.01	<0.1	<5	<0.1	27.5	<0.05	0.7	0.01	18.1	<0.05	0.80	<5	3	<0.5	
E5564417 (9632304)	<0.01	<0.1	<5	<0.1	79.5	<0.05	0.1	<0.01	68.1	<0.05	1.22	<5	<1	<0.5	
E5564418 (9632305)	<0.01	0.1	<5	<0.1	40.7	<0.05	0.7	0.01	25.2	<0.05	1.08	<5	2	<0.5	
E5564419 (9632306)	0.01	11.2	10	47.7	258	3.16	96.7	0.45	11.9	0.32	16.9	59	5	28.8	
E5564420 (9632307)	<0.01	<0.1	<5	0.1	21.8	<0.05	4.4	<0.01	9.1	<0.05	3.25	<5	2	<0.5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018						DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core			
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564421 (9632308)	<0.01	0.2	<5	0.2	40.8	<0.05	3.2	0.02	26.6	<0.05	1.86	<5	6	1.4	
E5564422 (9632309)	<0.01	0.2	<5	0.4	21.6	0.06	7.9	<0.01	6.9	<0.05	3.22	<5	3	2.4	
E5564423 (9632310)	0.06	1.0	37	1.5	100	0.36	0.5	0.41	0.9	0.25	0.24	237	<1	15.7	
E5564424 (9632311)	0.09	0.5	39	1.8	113	0.46	0.4	0.44	<0.5	0.31	0.09	250	<1	17.4	
E5564425 (9632312)	0.04	0.5	29	3.4	319	0.58	2.7	0.67	0.7	0.27	0.98	206	<1	17.1	
E5564426 (9632313)	0.07	0.4	19	6.7	690	0.82	4.5	1.03	0.8	0.24	1.35	169	1	18.3	
E5564427 (9632314)	0.07	0.4	37	1.6	111	0.43	0.3	0.43	0.6	0.28	0.08	237	<1	15.8	
E5564428 (9632315)	0.07	0.3	36	1.6	83.5	0.42	0.3	0.41	0.6	0.27	0.07	231	<1	15.2	
E5564429 (9632316)	0.08	0.2	40	1.7	75.5	0.45	0.3	0.45	<0.5	0.28	0.06	260	<1	16.4	
E5564510 (9632317)	0.13	0.1	40	1.7	88.9	0.46	0.3	0.47	<0.5	0.31	0.07	256	<1	18.3	
E5564511 (9632318)	<0.01	0.2	<5	0.2	<0.1	<0.05	0.6	0.03	<0.5	<0.05	0.18	<5	<1	1.2	
E5564512 (9632319)	0.08	0.1	40	1.8	80.1	0.46	0.3	0.45	<0.5	0.30	0.07	263	<1	17.4	
E5564513 (9632320)	0.21	0.5	42	2.0	83.0	0.49	0.4	0.46	<0.5	0.30	0.09	268	<1	17.3	
E5564514 (9632321)	0.12	1.0	44	1.6	68.1	0.48	0.3	0.43	<0.5	0.31	0.06	279	<1	17.4	
E5564515 (9632322)	0.13	1.4	42	1.8	76.1	0.46	0.3	0.47	<0.5	0.31	0.08	269	<1	17.2	
E5564516 (9632323)	0.02	29.3	7	18.0	170	1.38	113	0.37	7.4	0.24	24.2	69	14	17.6	
E5564517 (9632324)	0.07	1.8	41	1.7	76.0	0.47	0.5	0.50	2.1	0.31	0.14	267	<1	18.0	
E5564518 (9632325)	<0.01	0.2	<5	0.6	89.5	0.14	2.0	0.02	67.2	<0.05	1.03	8	4	4.6	
E5564519 (9632326)	<0.01	0.2	<5	0.4	91.5	0.09	1.6	0.02	70.4	<0.05	1.01	8	4	2.8	
E5564520 (9632327)	<0.01	0.3	<5	<0.1	87.3	<0.05	0.5	<0.01	84.3	<0.05	0.31	<5	<1	<0.5	
E5564521 (9632328)	<0.01	0.6	<5	<0.1	62.7	<0.05	0.2	<0.01	68.0	<0.05	9.70	<5	<1	<0.5	
E5564522 (9632329)	<0.01	1.0	<5	<0.1	171	<0.05	<0.1	<0.01	195	<0.05	1.61	<5	<1	<0.5	
E5564523 (9632330)	<0.01	1.4	<5	<0.1	140	<0.05	<0.1	<0.01	159	<0.05	0.20	<5	<1	<0.5	
E5564524 (9632331)	<0.01	0.5	<5	<0.1	13.4	<0.05	0.2	<0.01	11.8	<0.05	0.43	<5	<1	<0.5	
E5564525 (9632332)	<0.01	0.5	<5	<0.1	77.5	<0.05	0.2	<0.01	81.4	<0.05	1.39	<5	<1	<0.5	
E5564526 (9632333)	<0.01	0.4	<5	<0.1	52.2	<0.05	0.3	<0.01	57.7	<0.05	0.16	<5	<1	<0.5	
E5564527 (9632334)	<0.01	0.4	<5	<0.1	40.9	<0.05	0.3	<0.01	35.8	<0.05	0.69	<5	<1	<0.5	
E5564528 (9632335)	<0.01	0.4	<5	<0.1	113	<0.05	<0.1	<0.01	119	<0.05	0.40	<5	<1	<0.5	
E5564529 (9632336)	<0.01	0.5	<5	<0.1	24.4	<0.05	1.9	<0.01	13.0	<0.05	1.83	<5	2	<0.5	
E5564530 (9632337)	<0.01	0.6	<5	<0.1	26.7	<0.05	2.2	<0.01	12.8	<0.05	3.99	<5	2	<0.5	
E5564531 (9632338)	<0.01	0.2	<5	0.2	0.6	<0.05	0.6	0.03	<0.5	<0.05	0.17	<5	<1	1.0	
E5564532 (9632339)	<0.01	0.4	<5	<0.1	40.1	<0.05	1.4	0.01	27.6	<0.05	2.70	<5	4	<0.5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018					DATE REPORTED: Oct 31, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564533 (9632340)	<0.01	0.4	<5	<0.1	35.9	<0.05	2.2	0.01	23.0	<0.05	1.71	<5	4	<0.5	
E5564534 (9632341)	<0.01	0.4	<5	<0.1	31.6	<0.05	1.2	0.01	20.9	<0.05	3.08	<5	3	<0.5	
E5564535 (9632342)	<0.01	0.4	<5	<0.1	48.8	<0.05	0.9	<0.01	46.0	<0.05	3.15	<5	2	<0.5	
E5564536 (9632343)	<0.01	0.4	<5	1.4	52.6	0.37	7.1	0.02	37.1	0.14	6.08	5	4	11.4	
E5564537 (9632344)	<0.01	0.5	<5	0.2	12.6	<0.05	8.2	<0.01	4.1	<0.05	8.40	<5	2	0.9	
E5564538 (9632345)	<0.01	0.2	<5	0.2	11.8	<0.05	4.7	<0.01	2.3	<0.05	2.86	<5	2	1.4	
E5564539 (9632346)	0.02	10.8	10	44.9	259	3.12	92.7	0.43	11.2	0.30	15.9	59	5	26.8	
E5564540 (9632347)	0.13	0.4	36	1.4	105	0.37	1.0	0.41	0.9	0.24	0.70	237	1	13.7	
E5564541 (9632348)	0.11	0.2	36	1.6	113	0.43	0.4	0.42	0.6	0.29	0.08	231	<1	15.4	
E5564542 (9632349)	0.07	0.3	34	1.6	190	0.42	0.3	0.41	0.9	0.27	0.13	223	<1	15.0	
E5564543 (9632350)	0.09	0.2	25	4.9	612	0.64	2.7	0.78	0.6	0.25	0.65	199	1	16.0	
E5564544 (9632351)	0.11	0.3	36	2.4	248	0.48	0.9	0.49	<0.5	0.28	0.19	234	<1	16.6	
E5564545 (9632352)	0.09	0.5	34	1.5	117	0.41	0.4	0.41	<0.5	0.28	0.09	222	<1	15.4	
E5564546 (9632353)	0.14	0.6	36	1.6	121	0.45	0.3	0.41	<0.5	0.30	0.07	245	<1	16.5	
E5564547 (9632354)	0.02	0.3	38	1.4	44.7	0.40	0.3	0.44	<0.5	0.28	0.06	245	<1	14.7	
E5564548 (9632355)	0.08	0.5	31	2.0	46.3	0.41	0.4	0.38	<0.5	0.26	0.11	208	<1	15.0	
E5564549 (9632356)	0.32	1.2	34	2.0	70.7	0.46	0.3	0.40	<0.5	0.27	0.08	218	<1	16.4	
E5564550 (9632357)	0.09	1.4	34	1.5	81.8	0.41	0.2	0.39	<0.5	0.25	0.06	219	<1	15.4	
E5564551 (9632358)	<0.01	0.2	<5	0.2	0.6	<0.05	0.6	0.03	<0.5	<0.05	0.21	<5	<1	1.5	
E5564552 (9632359)	0.19	1.5	33	1.4	88.9	0.37	0.2	0.39	<0.5	0.24	<0.05	212	<1	14.7	
E5564553 (9632360)	0.26	1.9	35	1.5	73.4	0.39	0.2	0.41	<0.5	0.26	0.06	225	<1	14.6	
E5564554 (9632361)	0.28	1.7	40	1.9	78.5	0.43	0.3	0.46	1.0	0.29	0.11	253	<1	16.6	
E5564555 (9632362)	0.05	0.4	<5	<0.1	56.6	<0.05	0.9	0.04	35.4	<0.05	0.70	16	6	0.7	
E5564556 (9632363)	0.02	28.7	7	17.6	169	1.41	115	0.35	7.4	0.23	24.9	69	14	17.6	
E5564557 (9632364)	<0.01	0.3	<5	<0.1	105	<0.05	0.5	<0.01	93.0	<0.05	0.74	<5	<1	<0.5	
E5564558 (9632365)	<0.01	0.3	<5	0.1	44.0	<0.05	4.9	<0.01	32.5	<0.05	3.78	<5	4	<0.5	
E5564559 (9632366)	<0.01	0.3	<5	<0.1	95.0	<0.05	0.7	<0.01	86.0	<0.05	0.63	<5	<1	<0.5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018

DATE RECEIVED: Oct 16, 2018

DATE REPORTED: Oct 31, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564325 (9632212)		1.8	45	38.8
E5564326 (9632213)		1.3	<5	15.8
E5564327 (9632214)		1.8	100	38.4
E5564328 (9632215)		1.5	24	96.8
E5564329 (9632216)		2.0	70	84.7
E5564330 (9632217)		2.1	84	42.8
E5564331 (9632218)		0.2	6	23.1
E5564332 (9632219)		2.0	87	40.9
E5564333 (9632220)		<0.1	46	15.3
E5564334 (9632221)		<0.1	11	3.9
E5564335 (9632222)		0.2	48	53.6
E5564336 (9632223)		2.0	67	41.0
E5564337 (9632224)		2.0	79	40.7
E5564338 (9632225)		2.2	63	43.9
E5564339 (9632226)		1.9	129	208
E5564340 (9632227)		2.1	69	44.8
E5564341 (9632228)		<0.1	62	2.2
E5564342 (9632229)		0.1	102	4.5
E5564343 (9632230)		2.1	74	43.0
E5564344 (9632231)		2.1	69	43.7
E5564345 (9632232)		2.3	82	45.0
E5564346 (9632233)		2.4	130	44.5
E5564347 (9632234)		2.4	133	43.9
E5564348 (9632235)		2.2	100	40.6
E5564349 (9632236)		2.3	106	48.2
E5564350 (9632237)		2.5	113	43.2
E5564351 (9632238)		0.2	<5	23.2
E5564352 (9632239)		2.1	104	45.6
E5564353 (9632240)		<0.1	60	11.3
E5564354 (9632241)		<0.1	37	25.5
E5564355 (9632242)		<0.1	27	10.7
E5564356 (9632243)		1.6	336	171

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AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564357 (9632244)		<0.1	10	11.2
E5564358 (9632245)		1.8	37	56.0
E5564359 (9632246)		2.5	54	70.9
E5564360 (9632247)		2.6	59	71.7
E5564361 (9632248)		2.3	42	69.7
E5564362 (9632249)		2.0	34	69.4
E5564363 (9632250)		2.0	39	70.3
E5564364 (9632251)		2.0	24	49.0
E5564365 (9632252)		2.3	7	56.6
E5564366 (9632253)		2.0	79	39.1
E5564367 (9632254)		2.0	77	40.0
E5564368 (9632255)		1.8	76	37.1
E5564369 (9632256)		1.8	83	40.1
E5564370 (9632257)		1.9	166	38.3
E5564371 (9632258)		0.1	<5	20.9
E5564372 (9632259)		2.0	85	40.2
E5564373 (9632260)		1.9	83	38.0
E5564374 (9632261)		0.3	96	28.5
E5564375 (9632262)		<0.1	22	6.5
E5564376 (9632263)		<0.1	42	5.4
E5564377 (9632264)		<0.1	84	6.3
E5564378 (9632265)		<0.1	259	14.7
E5564379 (9632266)		1.9	132	204
E5564380 (9632267)		<0.1	7	3.0
E5564381 (9632268)		<0.1	25	1.2
E5564382 (9632269)		<0.1	193	11.6
E5564383 (9632270)		<0.1	9	2.1
E5564384 (9632271)		<0.1	24	13.3
E5564385 (9632272)		2.0	68	39.2
E5564386 (9632273)		2.1	74	40.4
E5564387 (9632274)		2.0	71	41.7
E5564388 (9632275)		1.9	64	38.0

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AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018

DATE RECEIVED: Oct 16, 2018

DATE REPORTED: Oct 31, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564389 (9632276)		1.9	74	39.4
E5564390 (9632277)		1.9	80	40.7
E5564391 (9632278)		0.1	<5	25.2
E5564392 (9632279)		2.0	76	38.6
E5564393 (9632280)		2.2	77	44.7
E5564394 (9632281)		0.2	35	8.3
E5564395 (9632282)		0.2	80	9.1
E5564396 (9632283)		1.6	329	169
E5564397 (9632284)		1.9	84	42.2
E5564398 (9632285)		2.0	90	42.4
E5564399 (9632286)		1.9	92	42.8
E5564400 (9632287)		0.2	89	10.8
E5564401 (9632288)		1.8	57	39.0
E5564402 (9632289)		1.9	69	39.7
E5564403 (9632290)		1.9	84	40.3
E5564404 (9632291)		1.9	92	39.3
E5564405 (9632292)		0.6	39	23.3
E5564406 (9632293)		2.0	72	38.4
E5564407 (9632294)		2.0	57	38.8
E5564408 (9632295)		2.2	74	43.6
E5564409 (9632296)		2.1	80	42.9
E5564410 (9632297)		<0.1	8	1.6
E5564411 (9632298)		0.1	<5	25.5
E5564412 (9632299)		<0.1	71	2.4
E5564413 (9632300)		<0.1	133	2.4
E5564414 (9632301)		<0.1	136	4.9
E5564415 (9632302)		<0.1	29	1.4
E5564416 (9632303)		<0.1	104	1.6
E5564417 (9632304)		<0.1	27	0.5
E5564418 (9632305)		<0.1	99	2.1
E5564419 (9632306)		1.9	128	211
E5564420 (9632307)		<0.1	50	6.3

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AGAT WORK ORDER: 18B398430

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564421 (9632308)		<0.1	200	24.2
E5564422 (9632309)		0.2	43	49.8
E5564423 (9632310)		1.8	68	38.6
E5564424 (9632311)		2.0	74	41.3
E5564425 (9632312)		1.7	67	90.8
E5564426 (9632313)		1.5	62	143
E5564427 (9632314)		1.8	96	38.2
E5564428 (9632315)		1.8	110	35.8
E5564429 (9632316)		1.9	86	40.1
E5564510 (9632317)		2.1	81	41.8
E5564511 (9632318)		0.1	<5	22.6
E5564512 (9632319)		2.0	83	40.3
E5564513 (9632320)		2.1	83	42.6
E5564514 (9632321)		2.0	80	41.3
E5564515 (9632322)		2.0	117	41.4
E5564516 (9632323)		1.5	344	165
E5564517 (9632324)		2.0	93	42.4
E5564518 (9632325)		0.3	94	3.0
E5564519 (9632326)		0.2	106	2.1
E5564520 (9632327)		<0.1	6	0.8
E5564521 (9632328)		<0.1	33	<0.5
E5564522 (9632329)		<0.1	<5	<0.5
E5564523 (9632330)		<0.1	<5	<0.5
E5564524 (9632331)		<0.1	5	0.7
E5564525 (9632332)		<0.1	7	<0.5
E5564526 (9632333)		<0.1	6	<0.5
E5564527 (9632334)		<0.1	43	<0.5
E5564528 (9632335)		<0.1	7	<0.5
E5564529 (9632336)		<0.1	91	1.8
E5564530 (9632337)		<0.1	104	2.7
E5564531 (9632338)		0.1	<5	22.9
E5564532 (9632339)		<0.1	195	3.0

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Oct 17, 2018 DATE RECEIVED: Oct 16, 2018 DATE REPORTED: Oct 31, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564533 (9632340)		<0.1	178	1.4
E5564534 (9632341)		<0.1	169	2.8
E5564535 (9632342)		<0.1	76	2.4
E5564536 (9632343)		0.8	155	8.9
E5564537 (9632344)		<0.1	23	74.9
E5564538 (9632345)		0.1	16	37.8
E5564539 (9632346)		1.8	126	200
E5564540 (9632347)		1.7	65	37.1
E5564541 (9632348)		1.8	74	37.6
E5564542 (9632349)		1.7	78	36.0
E5564543 (9632350)		1.5	95	97.8
E5564544 (9632351)		1.8	80	51.3
E5564545 (9632352)		1.8	77	36.3
E5564546 (9632353)		1.9	74	37.7
E5564547 (9632354)		1.8	68	37.2
E5564548 (9632355)		1.6	86	35.4
E5564549 (9632356)		1.8	86	34.9
E5564550 (9632357)		1.7	71	35.0
E5564551 (9632358)		0.2	<5	19.4
E5564552 (9632359)		1.6	73	33.2
E5564553 (9632360)		1.6	65	35.5
E5564554 (9632361)		2.0	102	40.4
E5564555 (9632362)		<0.1	220	5.1
E5564556 (9632363)		1.6	324	159
E5564557 (9632364)		<0.1	11	1.3
E5564558 (9632365)		<0.1	107	11.0
E5564559 (9632366)		<0.1	10	2.7

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B398430

PROJECT:

5623 McADAM ROAD
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CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 17, 2018	DATE RECEIVED: Oct 16, 2018	DATE REPORTED: Oct 31, 2018	SAMPLE TYPE: Drill Core
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Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5564325 (9632212)		89
E5564344 (9632231)		82
E5564364 (9632251)		88
E5564384 (9632271)		89
E5564404 (9632291)		77
E5564410 (9632297)		94
E5564413 (9632300)		79
E5564424 (9632311)		80
E5564524 (9632331)		79
E5564529 (9632336)		79
E5564544 (9632351)		83

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9632212	3.05	3.07	0.7%	9632227	3.17	3.16	0.3%	9632237	3.16	3.17	0.3%	9632251	2.94	2.95	0.3%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9632262	2.72	2.70	0.7%	9632276	3.11	3.10	0.3%	9632287	2.76	2.75	0.4%	9632301	2.67	2.68	0.4%
	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9632312	2.92	2.93	0.3%	9632326	2.73	2.74	0.4%	9632337	2.93	2.93	0.0%	9632351	3.02	3.03	0.3%
	REPLICATE #13															
Parameter	Sample ID	Original	Replicate	RPD												
Specific Gravity	9632362	2.79	2.79	0.0%												

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9632212	312	299	4.3%	9632227	320	311	2.9%	9632237	330	333	0.9%	9632251	555	570	2.7%
Li2O	9632212	0.0672	0.0643	4.4%	9632227	0.0689	0.0670	2.8%	9632237	0.0709	0.0717	1.1%	9632251	0.120	0.123	2.5%
Ta	9632212	< 0.5	< 0.5	0.0%	9632227	0.92	0.73	23.0%	9632237	< 0.5	< 0.5	0.0%	9632251	< 0.5	< 0.5	0.0%
Nb	9632212	1	1	0.0%	9632227	6	3		9632237	2	2	0.0%	9632251	2	2	0.0%
Sn	9632212	6	5	18.2%	9632227	4	3	28.6%	9632237	4	1		9632251	2	3	
Cs	9632212	16.1	14.7	9.1%	9632227	27.8	27.6	0.7%	9632237	17.2	16.2	6.0%	9632251	7.6	7.2	5.4%
Rb	9632212	90.6	83.5	8.2%	9632227	145	142	2.1%	9632237	52.6	49.1	6.9%	9632251	54.2	54.1	0.2%
K	9632212	0.47	0.47	0.0%	9632227	0.380	0.374	1.6%	9632237	0.38	0.37	2.7%	9632251	0.264	0.272	3.0%
Mg	9632212	3.39	3.20	5.8%	9632227	2.76	2.78	0.7%	9632237	2.89	2.91	0.7%	9632251	3.77	3.97	5.2%
Fe	9632212	8.10	8.09	0.1%	9632227	7.74	7.57	2.2%	9632237	10.8	10.9	0.9%	9632251	7.48	7.66	2.4%
P	9632212	0.03	0.03	0.0%	9632227	0.03	0.03	0.0%	9632237	0.03	0.03	0.0%	9632251	0.03	0.03	0.0%
Al	9632212	6.84	6.93	1.3%	9632227	8.59	8.38	2.5%	9632237	7.80	7.82	0.3%	9632251	6.26	6.34	1.3%
Si	9632212	17.3	17.5	1.1%	9632227	23.6	23.0	2.6%	9632237	22.3	22.5	0.9%	9632251	20.9	21.3	1.9%
Be	9632212	< 5	< 5	0.0%	9632227	5	5	0.0%	9632237	< 5	< 5	0.0%	9632251	< 5	< 5	0.0%
B	9632212	21	23	9.1%	9632227	21	17	21.1%	9632237	< 20	< 20	0.0%	9632251	< 20	< 20	0.0%
Mn	9632212	1620	1590	1.9%	9632227	1740	1740	0.0%	9632237	2500	2540	1.6%	9632251	1260	1290	2.4%
Mo	9632212	2	2	0.0%	9632227	3	3	0.0%	9632237	2	2	0.0%	9632251	4	3	28.6%
Bi	9632212	1.3	1.3	0.0%	9632227	0.6	0.4		9632237	0.3	0.3	0.0%	9632251	1.4	1.4	0.0%



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

As	9632212	< 5	< 5	0.0%	9632227	< 5	< 5	0.0%	9632237	< 5	< 5	0.0%	9632251	< 5	< 5	0.0%
Ag	9632212	< 1	< 1	0.0%	9632227	< 1	< 1	0.0%	9632237	< 1	< 1	0.0%	9632251	< 1	< 1	0.0%
Ba	9632212	96.7	92.1	4.9%	9632227	63.2	63.4	0.3%	9632237	123	125	1.6%	9632251	16.0	16.6	3.7%
Ca	9632212	13.6	13.6	0.0%	9632227	9.41	9.19	2.4%	9632237	7.42	7.57	2.0%	9632251	8.95	9.16	2.3%
Cd	9632212	< 0.2	< 0.2	0.0%	9632227	< 0.2	< 0.2	0.0%	9632237	< 0.2	< 0.2	0.0%	9632251	< 0.2	< 0.2	0.0%
Ce	9632212	7.4	7.3	1.4%	9632227	8.05	7.48	7.3%	9632237	7.6	7.9	3.9%	9632251	16.4	16.9	3.0%
Co	9632212	65.2	63.4	2.8%	9632227	60.7	59.8	1.5%	9632237	57.1	55.0	3.7%	9632251	35.6	36.0	1.1%
Cr	9632212	0.030	0.029	3.4%	9632227	0.036	0.036	0.0%	9632237	0.032	0.032	0.0%	9632251	0.021	0.021	0.0%
Cu	9632212	520	498	4.3%	9632227	166	166	0.0%	9632237	185	189	2.1%	9632251	19	19	0.0%
Dy	9632212	3.03	2.96	2.3%	9632227	3.31	3.29	0.6%	9632237	3.51	3.51	0.0%	9632251	3.19	3.37	5.5%
Er	9632212	1.87	1.80	3.8%	9632227	2.10	2.08	1.0%	9632237	2.20	2.17	1.4%	9632251	2.12	2.20	3.7%
Eu	9632212	0.706	0.649	8.4%	9632227	0.74	0.76	2.7%	9632237	0.757	0.749	1.1%	9632251	0.97	0.85	13.2%
Ga	9632212	15.3	14.6	4.7%	9632227	16.6	17.1	3.0%	9632237	16.7	16.7	0.0%	9632251	18.8	18.7	0.5%
Gd	9632212	2.35	2.37	0.8%	9632227	2.84	2.82	0.7%	9632237	2.80	2.83	1.1%	9632251	2.95	3.01	2.0%
Ge	9632212	2	2	0.0%	9632227	2	2	0.0%	9632237	2	2	0.0%	9632251	2	2	0.0%
Hf	9632212	1	1	0.0%	9632227	1	1	0.0%	9632237	1	1	0.0%	9632251	1	1	0.0%
Ho	9632212	0.64	0.65	1.6%	9632227	0.754	0.724	4.1%	9632237	0.78	0.78	0.0%	9632251	0.743	0.756	1.7%
In	9632212	< 0.2	< 0.2	0.0%	9632227	< 0.2	< 0.2	0.0%	9632237	< 0.2	< 0.2	0.0%	9632251	< 0.2	< 0.2	0.0%
La	9632212	3.2	3.2	0.0%	9632227	3.19	2.94	8.2%	9632237	3.0	3.1	3.3%	9632251	8.39	8.57	2.1%
Lu	9632212	0.285	0.282	1.1%	9632227	0.353	0.325	8.3%	9632237	0.376	0.361	4.1%	9632251	0.30	0.30	0.0%
Nd	9632212	5.77	5.24	9.6%	9632227	6.45	6.25	3.1%	9632237	6.3	6.3	0.0%	9632251	9.44	9.90	4.8%
Ni	9632212	118	113	4.3%	9632227	133	136	2.2%	9632237	126	132	4.7%	9632251	87	85	2.3%
Pb	9632212	< 5	< 5	0.0%	9632227	< 5	< 5	0.0%	9632237	17	13	26.7%	9632251	< 5	< 5	0.0%
Pr	9632212	1.15	1.15	0.0%	9632227	1.32	1.17	12.0%	9632237	1.23	1.21	1.6%	9632251	2.18	2.28	4.5%
S	9632212	0.295	0.263	11.5%	9632227	0.073	0.080	9.2%	9632237	0.38	0.39	2.6%	9632251	0.022	0.026	16.7%
Sb	9632212	0.2	0.2	0.0%	9632227	0.6	0.6	0.0%	9632237	< 0.1	< 0.1	0.0%	9632251	0.1	0.1	0.0%
Sc	9632212	37	37	0.0%	9632227	44	44	0.0%	9632237	44	44	0.0%	9632251	31	32	3.2%
Sm	9632212	1.7	1.7	0.0%	9632227	1.9	2.0	5.1%	9632237	1.91	2.07	8.0%	9632251	2.36	2.28	3.4%
Sr	9632212	149	149	0.0%	9632227	117	117	0.0%	9632237	76.1	75.4	0.9%	9632251	118	123	4.1%
Tb	9632212	0.42	0.42	0.0%	9632227	0.524	0.494	5.9%	9632237	0.51	0.52	1.9%	9632251	0.54	0.49	9.7%
Th	9632212	0.3	0.3	0.0%	9632227	0.8	0.4		9632237	0.3	0.3	0.0%	9632251	0.35	0.36	2.8%
Ti	9632212	0.43	0.43	0.0%	9632227	0.51	0.50	2.0%	9632237	0.467	0.475	1.7%	9632251	0.51	0.52	1.9%
Tl	9632212	0.56	0.54	3.6%	9632227	0.99	0.95	4.1%	9632237	0.5	0.5	0.0%	9632251	< 0.5	< 0.5	0.0%
Tm	9632212	0.30	0.29	3.4%	9632227	0.329	0.336	2.1%	9632237	0.351	0.381	8.2%	9632251	0.315	0.310	1.6%



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U	9632212	0.12	0.11	8.7%	9632227	0.111	0.095	15.5%	9632237	0.22	0.21	4.7%	9632251	1.19	1.21	1.7%
V	9632212	221	217	1.8%	9632227	282	282	0.0%	9632237	268	275	2.6%	9632251	243	250	2.8%
W	9632212	3	4	28.6%	9632227	< 1	< 1	0.0%	9632237	< 1	< 1	0.0%	9632251	3	3	0.0%
Y	9632212	16.9	16.6	1.8%	9632227	19.1	18.8	1.6%	9632237	20.9	20.0	4.4%	9632251	19.1	19.7	3.1%
Yb	9632212	1.84	1.89	2.7%	9632227	2.1	2.1	0.0%	9632237	2.5	2.4	4.1%	9632251	2.0	2.0	0.0%
Zn	9632212	45	44	2.2%	9632227	69	66	4.4%	9632237	113	113	0.0%	9632251	24	23	4.3%
Zr	9632212	38.8	37.3	3.9%	9632227	44.8	43.9	2.0%	9632237	43.2	41.5	4.0%	9632251	49.0	49.0	0.0%
	REPLICATE #5				REPLICATE #6				REPLICATE #7				REPLICATE #8			
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9632262	2410	2510	4.1%	9632276	229	232	1.3%	9632287	922	1020	10.1%	9632301	1180	1120	5.2%
Li2O	9632262	0.519	0.541	4.2%	9632276	0.0492	0.0499	1.4%	9632287	0.198	0.219	10.1%	9632301	0.253	0.240	5.3%
Ta	9632262	12.6	14.3	12.6%	9632276	< 0.5	< 0.5	0.0%	9632287	68.1	70.8	3.9%	9632301	320	360	11.8%
Nb	9632262	16	20	22.2%	9632276	1	2		9632287	49	55	11.5%	9632301	103	107	3.8%
Sn	9632262	11	8		9632276	2	2	0.0%	9632287	37	41	10.3%	9632301	58	56	3.5%
Cs	9632262	261	266	1.9%	9632276	12.6	13.5	6.9%	9632287	624	675	7.9%	9632301	408	392	4.0%
Rb	9632262	3060	3040	0.7%	9632276	19.0	20.6	8.1%	9632287	4600	4970	7.7%	9632301	4200	4170	0.7%
K	9632262	4.06	4.13	1.7%	9632276	0.353	0.358	1.4%	9632287	4.62	4.80	3.8%	9632301	3.41	3.22	5.7%
Mg	9632262	0.141	0.114	21.2%	9632276	4.69	4.94	5.2%	9632287	0.618	0.580	6.3%	9632301	0.508	0.494	2.8%
Fe	9632262	0.437	0.390	11.4%	9632276	8.13	8.20	0.9%	9632287	1.59	1.59	0.0%	9632301	1.00	0.96	4.1%
P	9632262	0.100	0.094	6.2%	9632276	0.02	0.02	0.0%	9632287	0.105	0.117	10.8%	9632301	0.02	0.02	0.0%
Al	9632262	8.68	8.82	1.6%	9632276	7.60	7.77	2.2%	9632287	7.59	7.81	2.9%	9632301	5.79	5.59	3.5%
Si	9632262	32.1	32.7	1.9%	9632276	22.5	22.8	1.3%	9632287	31.6	31.5	0.3%	9632301	37.8	36.6	3.2%
Be	9632262	74	80	7.8%	9632276	< 5	< 5	0.0%	9632287	34	34	0.0%	9632301	31	31	0.0%
B	9632262	< 20	< 20	0.0%	9632276	< 20	< 20	0.0%	9632287	< 20	< 20	0.0%	9632301	24	25	4.1%
Mn	9632262	274	232	16.6%	9632276	1320	1350	2.2%	9632287	706	724	2.5%	9632301	538	529	1.7%
Mo	9632262	9	9	0.0%	9632276	< 2	< 2	0.0%	9632287	7	9	25.0%	9632301	15	15	0.0%
Bi	9632262	0.3	0.2		9632276	0.3	0.3	0.0%	9632287	0.8	1.1		9632301	0.65	0.71	8.8%
As	9632262	< 5	< 5	0.0%	9632276	< 5	< 5	0.0%	9632287	< 5	< 5	0.0%	9632301	< 5	< 5	0.0%
Ag	9632262	< 1	< 1	0.0%	9632276	< 1	< 1	0.0%	9632287	< 1	< 1	0.0%	9632301	< 1	< 1	0.0%
Ba	9632262	89.5	81.1	9.8%	9632276	30.4	30.8	1.3%	9632287	79.1	77.9	1.5%	9632301	67.7	66.2	2.2%
Ca	9632262	0.357	0.295	19.0%	9632276	7.65	7.72	0.9%	9632287	1.06	0.97	8.9%	9632301	0.08	0.07	13.3%
Cd	9632262	< 0.2	< 0.2	0.0%	9632276	< 0.2	< 0.2	0.0%	9632287	< 0.2	< 0.2	0.0%	9632301	< 0.2	0.3	
Ce	9632262	0.56	0.50	11.3%	9632276	5.6	5.9	5.2%	9632287	1.2	1.3	8.0%	9632301	0.37	0.33	11.4%
Co	9632262	1.6	1.1		9632276	55.8	58.3	4.4%	9632287	10.3	10.6	2.9%	9632301	3.6	3.5	2.8%



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Cr	9632262	0.016	0.013	20.7%	9632276	0.030	0.030	0.0%	9632287	0.020	0.020	0.0%	9632301	0.0247	0.0239	3.3%
Cu	9632262	< 5	< 5	0.0%	9632276	107	111	3.7%	9632287	65	64	1.6%	9632301	< 5	< 5	0.0%
Dy	9632262	0.110	0.094	15.7%	9632276	2.91	3.21	9.8%	9632287	0.46	0.46	0.0%	9632301	0.066	0.054	20.0%
Er	9632262	< 0.05	< 0.05	0.0%	9632276	1.96	1.98	1.0%	9632287	0.25	0.26	3.9%	9632301	< 0.05	< 0.05	0.0%
Eu	9632262	0.05	< 0.05		9632276	0.63	0.63	0.0%	9632287	0.08	0.07	13.3%	9632301	< 0.05	< 0.05	0.0%
Ga	9632262	39.7	38.8	2.3%	9632276	15.3	16.2	5.7%	9632287	38.9	42.1	7.9%	9632301	58.0	56.5	2.6%
Gd	9632262	0.106	0.097	8.9%	9632276	2.41	2.42	0.4%	9632287	0.35	0.31	12.1%	9632301	0.068	0.086	23.4%
Ge	9632262	5	5	0.0%	9632276	2	2	0.0%	9632287	4	4	0.0%	9632301	5	5	0.0%
Hf	9632262	< 1	< 1	0.0%	9632276	1	1	0.0%	9632287	< 1	1		9632301	1	< 1	
Ho	9632262	< 0.05	< 0.05	0.0%	9632276	0.66	0.67	1.5%	9632287	0.093	0.097	4.2%	9632301	< 0.05	< 0.05	0.0%
In	9632262	< 0.2	< 0.2	0.0%	9632276	< 0.2	< 0.2	0.0%	9632287	< 0.2	< 0.2	0.0%	9632301	< 0.2	< 0.2	0.0%
La	9632262	0.3	0.3	0.0%	9632276	1.92	2.00	4.1%	9632287	0.50	0.57	13.1%	9632301	0.1	0.1	0.0%
Lu	9632262	< 0.05	< 0.05	0.0%	9632276	0.30	0.31	3.3%	9632287	< 0.05	< 0.05	0.0%	9632301	< 0.05	< 0.05	0.0%
Nd	9632262	0.3	0.3	0.0%	9632276	5.14	5.39	4.7%	9632287	0.9	0.8	11.8%	9632301	0.2	0.2	0.0%
Ni	9632262	8	7	13.3%	9632276	153	153	0.0%	9632287	35	32	9.0%	9632301	13	13	0.0%
Pb	9632262	10	9	10.5%	9632276	6	6	0.0%	9632287	7	11		9632301	< 5	< 5	0.0%
Pr	9632262	0.073	0.078	6.6%	9632276	0.961	1.02	6.0%	9632287	0.181	0.191	5.4%	9632301	0.06	< 0.05	
S	9632262	< 0.01	< 0.01	0.0%	9632276	0.066	0.059	11.2%	9632287	< 0.01	< 0.01	0.0%	9632301	< 0.01	< 0.01	0.0%
Sb	9632262	< 0.1	< 0.1	0.0%	9632276	< 0.1	< 0.1	0.0%	9632287	0.1	< 0.1		9632301	< 0.1	< 0.1	0.0%
Sc	9632262	< 5	< 5	0.0%	9632276	39	39	0.0%	9632287	6	6	0.0%	9632301	< 5	< 5	0.0%
Sm	9632262	< 0.1	< 0.1	0.0%	9632276	1.7	1.7	0.0%	9632287	0.2	0.2	0.0%	9632301	< 0.1	< 0.1	0.0%
Sr	9632262	53.3	47.5	11.5%	9632276	71.8	71.9	0.1%	9632287	71.0	70.1	1.3%	9632301	42.8	41.4	3.3%
Tb	9632262	< 0.05	< 0.05	0.0%	9632276	0.42	0.47	11.2%	9632287	0.07	0.07	0.0%	9632301	< 0.05	< 0.05	0.0%
Th	9632262	2.5	2.1	17.4%	9632276	0.3	0.3	0.0%	9632287	2.0	2.2	9.5%	9632301	1.3	1.4	7.4%
Ti	9632262	< 0.01	< 0.01	0.0%	9632276	0.442	0.450	1.8%	9632287	0.08	0.08	0.0%	9632301	0.01	0.01	0.0%
Tl	9632262	27.7	26.7	3.7%	9632276	< 0.5	< 0.5	0.0%	9632287	38.0	40.9	7.4%	9632301	29.8	29.4	1.4%
Tm	9632262	< 0.05	< 0.05	0.0%	9632276	0.31	0.31	0.0%	9632287	< 0.05	< 0.05	0.0%	9632301	< 0.05	< 0.05	0.0%
U	9632262	2.69	1.89		9632276	0.09	0.08	11.8%	9632287	2.98	2.97	0.3%	9632301	1.36	1.25	8.4%
V	9632262	< 5	< 5	0.0%	9632276	258	261	1.2%	9632287	33	32	3.1%	9632301	< 5	< 5	0.0%
W	9632262	< 1	< 1	0.0%	9632276	< 1	< 1	0.0%	9632287	3	3	0.0%	9632301	4	4	0.0%
Y	9632262	0.67	0.55	19.7%	9632276	17.3	17.6	1.7%	9632287	2.35	2.45	4.2%	9632301	< 0.5	< 0.5	0.0%
Yb	9632262	< 0.1	< 0.1	0.0%	9632276	1.92	1.96	2.1%	9632287	0.2	0.2	0.0%	9632301	< 0.1	< 0.1	0.0%
Zn	9632262	22	19	14.6%	9632276	74	75	1.3%	9632287	89	100	11.6%	9632301	136	136	0.0%
Zr	9632262	6.5	5.4	18.5%	9632276	39.4	42.0	6.4%	9632287	10.8	11.0	1.8%	9632301	4.85	4.46	8.4%



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Parameter	REPLICATE #9				REPLICATE #10				REPLICATE #11				REPLICATE #12			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9632312	621	614	1.1%	9632326	900	885	1.7%	9632337	19800	19800	0.0%	9632351	278	283	1.8%
Li2O	9632312	0.134	0.132	1.5%	9632326	0.194	0.191	1.6%	9632337	4.26	4.26	0.0%	9632351	0.060	0.061	1.7%
Ta	9632312	0.5	0.5	0.0%	9632326	46.4	39.6	15.8%	9632337	263	318	18.9%	9632351	< 0.5	< 0.5	0.0%
Nb	9632312	9	9	0.0%	9632326	78	80	2.5%	9632337	30	35	15.4%	9632351	4	3	28.6%
Sn	9632312	< 1	< 1	0.0%	9632326	58	56	3.5%	9632337	52	54	3.8%	9632351	< 1	< 1	0.0%
Cs	9632312	44.8	44.4	0.9%	9632326	784	782	0.3%	9632337	460	471	2.4%	9632351	28.3	27.8	1.8%
Rb	9632312	119	116	2.6%	9632326	7420	7340	1.1%	9632337	1890	1960	3.6%	9632351	50.1	49.5	1.2%
K	9632312	0.68	0.66	3.0%	9632326	7.26	7.17	1.2%	9632337	1.04	1.07	2.8%	9632351	0.52	0.52	0.0%
Mg	9632312	5.46	5.47	0.2%	9632326	0.166	0.157	5.6%	9632337	0.09	0.08	11.8%	9632351	4.55	4.52	0.7%
Fe	9632312	7.63	7.58	0.7%	9632326	0.689	0.681	1.2%	9632337	0.65	0.65	0.0%	9632351	7.80	7.96	2.0%
P	9632312	0.09	0.09	0.0%	9632326	0.37	0.37	0.0%	9632337	0.03	0.03	0.0%	9632351	0.04	0.04	0.0%
Al	9632312	7.55	7.57	0.3%	9632326	9.55	9.37	1.9%	9632337	9.81	9.81	0.0%	9632351	7.68	7.69	0.1%
Si	9632312	24.0	23.8	0.8%	9632326	31.4	31.0	1.3%	9632337	34.2	33.6	1.8%	9632351	22.6	22.9	1.3%
Be	9632312	< 5	< 5	0.0%	9632326	426	428	0.5%	9632337	29	22	27.5%	9632351	< 5	< 5	0.0%
B	9632312	< 20	< 20	0.0%	9632326	< 20	< 20	0.0%	9632337	< 20	< 20	0.0%	9632351	< 20	< 20	0.0%
Mn	9632312	1150	1140	0.9%	9632326	727	722	0.7%	9632337	974	940	3.6%	9632351	1410	1450	2.8%
Mo	9632312	< 2	< 2	0.0%	9632326	5	5	0.0%	9632337	16	17	6.1%	9632351	4	4	0.0%
Bi	9632312	0.61	0.54	12.2%	9632326	1.7	1.7	0.0%	9632337	0.8	0.8	0.0%	9632351	0.3	0.3	0.0%
As	9632312	21	6		9632326	< 5	< 5	0.0%	9632337	< 5	< 5	0.0%	9632351	< 5	< 5	0.0%
Ag	9632312	< 1	< 1	0.0%	9632326	< 1	< 1	0.0%	9632337	< 1	< 1	0.0%	9632351	< 1	< 1	0.0%
Ba	9632312	164	161	1.8%	9632326	47.2	47.2	0.0%	9632337	9.6	9.2	4.3%	9632351	123	126	2.4%
Ca	9632312	5.84	5.82	0.3%	9632326	0.90	0.88	2.2%	9632337	0.17	0.19	11.1%	9632351	7.98	8.12	1.7%
Cd	9632312	< 0.2	< 0.2	0.0%	9632326	< 0.2	< 0.2	0.0%	9632337	< 0.2	< 0.2	0.0%	9632351	< 0.2	0.2	
Ce	9632312	28.8	29.0	0.7%	9632326	3.03	3.10	2.3%	9632337	< 0.1	< 0.1	0.0%	9632351	16.6	17.0	2.4%
Co	9632312	46.9	46.1	1.7%	9632326	2.4	2.4	0.0%	9632337	1.6	1.6	0.0%	9632351	53.9	53.7	0.4%
Cr	9632312	0.0255	0.0244	4.4%	9632326	0.007	0.007	0.0%	9632337	0.028	0.024	15.4%	9632351	0.0291	0.0296	1.7%
Cu	9632312	99	100	1.0%	9632326	< 5	< 5	0.0%	9632337	< 5	< 5	0.0%	9632351	149	155	3.9%
Dy	9632312	3.16	3.27	3.4%	9632326	0.460	0.509	10.1%	9632337	< 0.05	< 0.05	0.0%	9632351	3.08	3.14	1.9%
Er	9632312	1.80	1.76	2.2%	9632326	0.232	0.204	12.8%	9632337	< 0.05	< 0.05	0.0%	9632351	1.79	1.86	3.8%
Eu	9632312	1.22	1.19	2.5%	9632326	0.100	0.107	6.8%	9632337	< 0.05	< 0.05	0.0%	9632351	0.82	0.78	5.0%
Ga	9632312	17.8	17.9	0.6%	9632326	58.6	59.2	1.0%	9632337	72.2	73.5	1.8%	9632351	15.8	15.6	1.3%
Gd	9632312	3.78	3.69	2.4%	9632326	0.41	0.53	25.5%	9632337	< 0.05	< 0.05	0.0%	9632351	2.73	2.75	0.7%



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Ge	9632312	1	2		9632326	5	5	0.0%	9632337	10	10	0.0%	9632351	2	2	0.0%
Hf	9632312	2	3		9632326	< 1	< 1	0.0%	9632337	1	4		9632351	2	2	0.0%
Ho	9632312	0.65	0.65	0.0%	9632326	0.09	0.09	0.0%	9632337	< 0.05	< 0.05	0.0%	9632351	0.642	0.659	2.6%
In	9632312	< 0.2	< 0.2	0.0%	9632326	< 0.2	< 0.2	0.0%	9632337	< 0.2	< 0.2	0.0%	9632351	< 0.2	< 0.2	0.0%
La	9632312	11.6	11.4	1.7%	9632326	1.51	1.55	2.6%	9632337	< 0.1	< 0.1	0.0%	9632351	6.9	7.2	4.3%
Lu	9632312	0.25	0.25	0.0%	9632326	< 0.05	< 0.05	0.0%	9632337	< 0.05	< 0.05	0.0%	9632351	0.28	0.28	0.0%
Nd	9632312	16.3	16.8	3.0%	9632326	1.5	1.5	0.0%	9632337	< 0.1	< 0.1	0.0%	9632351	10.3	10.1	2.0%
Ni	9632312	143	141	1.4%	9632326	10	8	22.2%	9632337	13	14	7.4%	9632351	163	167	2.4%
Pb	9632312	< 5	< 5	0.0%	9632326	12	12	0.0%	9632337	< 5	< 5	0.0%	9632351	< 5	< 5	0.0%
Pr	9632312	4.11	4.03	2.0%	9632326	0.39	0.36	8.0%	9632337	< 0.05	< 0.05	0.0%	9632351	2.39	2.39	0.0%
S	9632312	0.038	0.035	8.2%	9632326	< 0.01	< 0.01	0.0%	9632337	< 0.01	< 0.01	0.0%	9632351	0.112	0.120	6.9%
Sb	9632312	0.5	0.5	0.0%	9632326	0.25	0.27	7.7%	9632337	0.6	0.6	0.0%	9632351	0.3	0.4	28.6%
Sc	9632312	29	29	0.0%	9632326	< 5	< 5	0.0%	9632337	< 5	< 5	0.0%	9632351	36	36	0.0%
Sm	9632312	3.36	3.32	1.2%	9632326	0.4	0.4	0.0%	9632337	< 0.1	< 0.1	0.0%	9632351	2.36	2.32	1.7%
Sr	9632312	319	322	0.9%	9632326	91.5	90.2	1.4%	9632337	26.7	26.4	1.1%	9632351	248	247	0.4%
Tb	9632312	0.578	0.569	1.6%	9632326	0.087	0.083	4.7%	9632337	< 0.05	< 0.05	0.0%	9632351	0.48	0.49	2.1%
Th	9632312	2.66	2.50	6.2%	9632326	1.64	1.88	13.6%	9632337	2.21	1.83	18.8%	9632351	0.86	0.80	7.2%
Ti	9632312	0.673	0.676	0.4%	9632326	0.02	0.02	0.0%	9632337	< 0.01	< 0.01	0.0%	9632351	0.490	0.495	1.0%
Tl	9632312	0.73	0.77	5.3%	9632326	70.4	69.7	1.0%	9632337	12.8	13.7	6.8%	9632351	< 0.5	< 0.5	0.0%
Tm	9632312	0.27	0.26	3.8%	9632326	< 0.05	< 0.05	0.0%	9632337	< 0.05	< 0.05	0.0%	9632351	0.278	0.259	7.1%
U	9632312	0.983	0.973	1.0%	9632326	1.01	0.994	1.6%	9632337	3.99	4.31	7.7%	9632351	0.19	0.18	5.4%
V	9632312	206	204	1.0%	9632326	8	8	0.0%	9632337	< 5	< 5	0.0%	9632351	234	238	1.7%
W	9632312	< 1	< 1	0.0%	9632326	4	4	0.0%	9632337	2	2	0.0%	9632351	< 1	< 1	0.0%
Y	9632312	17.1	17.2	0.6%	9632326	2.8	2.8	0.0%	9632337	< 0.5	< 0.5	0.0%	9632351	16.6	16.3	1.8%
Yb	9632312	1.67	1.63	2.4%	9632326	0.2	0.2	0.0%	9632337	< 0.1	< 0.1	0.0%	9632351	1.8	1.8	0.0%
Zn	9632312	67	65	3.0%	9632326	106	105	0.9%	9632337	104	106	1.9%	9632351	80	82	2.5%
Zr	9632312	90.8	90.7	0.1%	9632326	2.13	2.35	9.8%	9632337	2.7	10.9		9632351	51.3	49.9	2.8%

REPLICATE #13

Parameter	Sample ID	Original	Replicate	RPD												
Li	9632362	1780	1830	2.8%												
Li2O	9632362	0.384	0.393	2.3%												
Ta	9632362	74.1	81.3	9.3%												
Nb	9632362	125	127	1.6%												
Sn	9632362	94	101	7.2%												



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Cs	9632362	401	401	0.0%															
Rb	9632362	4900	5090	3.8%															
K	9632362	4.15	4.20	1.2%															
Mg	9632362	0.346	0.311	10.7%															
Fe	9632362	1.28	1.21	5.6%															
P	9632362	0.07	0.07	0.0%															
Al	9632362	8.64	8.47	2.0%															
Si	9632362	33.7	32.6	3.3%															
Be	9632362	298	249	17.9%															
B	9632362	22	21	4.7%															
Mn	9632362	824	791	4.1%															
Mo	9632362	7	9	25.0%															
Bi	9632362	3.77	3.96	4.9%															
As	9632362	< 5	< 5	0.0%															
Ag	9632362	< 1	< 1	0.0%															
Ba	9632362	29.5	29.3	0.7%															
Ca	9632362	0.51	0.37																
Cd	9632362	< 0.2	< 0.2	0.0%															
Ce	9632362	0.48	0.44	8.7%															
Co	9632362	4.56	4.32	5.4%															
Cr	9632362	0.011	0.015																
Cu	9632362	14	12	15.4%															
Dy	9632362	0.11	0.11	0.0%															
Er	9632362	0.065	0.062	4.7%															
Eu	9632362	< 0.05	< 0.05	0.0%															
Ga	9632362	80.7	83.3	3.2%															
Gd	9632362	0.13	0.10	26.1%															
Ge	9632362	5	5	0.0%															
Hf	9632362	< 1	1																
Ho	9632362	< 0.05	< 0.05	0.0%															
In	9632362	< 0.2	< 0.2	0.0%															
La	9632362	0.2	0.2	0.0%															
Lu	9632362	< 0.05	< 0.05	0.0%															
Nd	9632362	0.3	0.3	0.0%															



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Ni	9632362	17	19	11.1%														
Pb	9632362	6	6	0.0%														
Pr	9632362	0.075	0.066	12.8%														
S	9632362	0.05	0.03															
Sb	9632362	0.4	0.4	0.0%														
Sc	9632362	< 5	< 5	0.0%														
Sm	9632362	< 0.1	< 0.1	0.0%														
Sr	9632362	56.6	55.5	2.0%														
Tb	9632362	< 0.05	< 0.05	0.0%														
Th	9632362	0.9	0.8	11.8%														
Ti	9632362	0.04	0.04	0.0%														
Tl	9632362	35.4	36.4	2.8%														
Tm	9632362	< 0.05	< 0.05	0.0%														
U	9632362	0.702	0.772	9.5%														
V	9632362	16	15	6.5%														
W	9632362	6	7	15.4%														
Y	9632362	0.7	0.6	15.4%														
Yb	9632362	< 0.1	< 0.1	0.0%														
Zn	9632362	220	219	0.5%														
Zr	9632362	5.1	5.1	0.0%														



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(201-049) Specific Gravity by Pychnometer

	CRM #1				CRM #2				CRM #3				CRM #4			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.66	2.64	99%	95% - 110%	2.65	2.68	101%	95% - 110%
	CRM #5				CRM #6				CRM #7				CRM #8			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.67	100%	95% - 110%	2.65	2.64	99%	95% - 110%	2.65	2.68	101%	95% - 110%
	CRM #9				CRM #10				CRM #11				CRM #12			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.67	100%	95% - 110%	2.65	2.65	100%	95% - 110%
	CRM #13															
Parameter	Expect	Actual	Recovery	Limits												
Specific Gravity	2.65	2.67	100%	95% - 110%												

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GBM998-10)				CRM #4 (ref.SY-4)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	39	105%	90% - 110%	47	48	101%	90% - 110%					37	40	109%	90% - 110%
Ta	0.9	0.7	82%	90% - 110%	1.9	1.5	81%	90% - 110%								
Nb	13	14	107%	90% - 110%	20	20	99%	90% - 110%					13	14	109%	90% - 110%
Sn													7.1	7.6	108%	90% - 110%
Cs	1.5	1.63	108%	90% - 110%									1.5	1.64	109%	90% - 110%
Rb	55	57	103%	90% - 110%	144	150	104%	90% - 110%					55	58	106%	90% - 110%
K	1.37	1.41	103%	90% - 110%	2.55	2.52	99%	90% - 110%					1.37	1.42	103%	90% - 110%
Mg	0.325	0.306	94%	90% - 110%	1.1	1.1	100%	90% - 110%					0.325	0.304	93%	90% - 110%
Fe	4.34	4.15	96%	90% - 110%	3.77	3.72	99%	90% - 110%					4.34	4.15	96%	90% - 110%
Al	10.95	10.56	96%	90% - 110%	8.47	8.23	97%	90% - 110%					10.95	10.64	97%	90% - 110%
Si	23.3	23	99%	90% - 110%	28.4	29.6	104%	90% - 110%					23.3	23.6	101%	90% - 110%
Be	2.6	3.3	125%	90% - 110%	4.0	3.8	95%	90% - 110%					2.6	3.4	130%	90% - 110%
Mn	836	783	94%	90% - 110%	780	734	94%	90% - 110%					836	785	94%	90% - 110%
Mo					14	14	102%	90% - 110%								
As					26	25	96%	90% - 110%	25	24	97%	90% - 110%				
Ba	340	319	94%	90% - 110%	540	502	93%	90% - 110%					340	316	93%	90% - 110%
Ca	5.72	5.53	97%	90% - 110%	0.907	0.91	100%	90% - 110%					5.72	5.66	99%	90% - 110%
Ce	122	121	99%	90% - 110%	98	106	108%	90% - 110%					122	126	103%	90% - 110%



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Co	2.8	2.7	95%	90% - 110%	15	16	104%	90% - 110%	1202	1320	110%	90% - 110%	2.8	2.8	99%	90% - 110%
Cu					150	150	100%	90% - 110%	15414	14165	92%	90% - 110%				
Dy	18.2	19.6	108%	90% - 110%									18.2	19.5	107%	90% - 110%
Er	14.2	14.7	103%	90% - 110%	3.7	3.9	107%	90% - 110%					14.2	14.7	103%	90% - 110%
Eu	2.0	2.1	104%	90% - 110%									2.0	2	102%	90% - 110%
Ga	35	36	103%	90% - 110%									35	38	108%	90% - 110%
Gd	14	15	109%	90% - 110%									14	15	107%	90% - 110%
Hf	10.6	10.7	101%	90% - 110%	11	10	92%	90% - 110%					10.6	11.7	110%	90% - 110%
Ho	4.3	4.6	107%	90% - 110%									4.3	4.6	108%	90% - 110%
La	58	56	97%	90% - 110%	44	48	110%	90% - 110%					58	59	102%	90% - 110%
Lu	2.1	2.3	108%	90% - 110%	0.6	0.6	100%	90% - 110%					2.1	2.2	105%	90% - 110%
Nd	57	60	106%	90% - 110%									57	62	109%	90% - 110%
Ni	9	9	101%	90% - 110%	32	35	110%	90% - 110%	23610	21450	91%	90% - 110%	9	11	120%	90% - 110%
Pb	10	10	96%	90% - 110%	31	32	102%	90% - 110%	41	41	100%	90% - 110%	10	11	110%	90% - 110%
Pr	15.0	15.7	105%	90% - 110%									15.0	16.1	107%	90% - 110%
Sb					0.8	0.6	76%	90% - 110%								
Sc					12	12	97%	90% - 110%								
Sm	12.7	12.3	97%	90% - 110%	7.4	8.1	109%	90% - 110%					12.7	13	102%	90% - 110%
Sr	1191	1133	95%	90% - 110%	144	138	96%	90% - 110%					1191	1104	93%	90% - 110%
Tb	2.6	2.8	108%	90% - 110%	1.2	1.3	106%	90% - 110%					2.6	2.8	109%	90% - 110%
Th	1.4	1.3	92%	90% - 110%	18.4	19.1	104%	90% - 110%					1.4	1.4	96%	90% - 110%
Ti	0.172	0.165	96%	90% - 110%	0.527	0.499	95%	90% - 110%					0.172	0.164	95%	90% - 110%
Tm	2.3	2.5	108%	90% - 110%									2.3	2.4	105%	90% - 110%
U	0.8	0.9	113%	90% - 110%	5.7	5.6	97%	90% - 110%								
V	8	6	72%	90% - 110%	77	77	100%	90% - 110%								
W					5	5	105%	90% - 110%								
Y	119	122	103%	90% - 110%	40	38	95%	90% - 110%					119	122	102%	90% - 110%
Yb	14.8	15.6	105%	90% - 110%									14.8	15.9	107%	90% - 110%
Zn	93	92	99%	90% - 110%	130	119	92%	90% - 110%	90	82	91%	90% - 110%	93	92	99%	90% - 110%
Zr	517	551	107%	90% - 110%	390	371	95%	90% - 110%					517	570	110%	90% - 110%
	CRM #5 (ref.Till-2)				CRM #6 (ref.SY-4)				CRM #7 (ref.Till-2)				CRM #8 (ref.GBM998-10)			
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	47	53	114%	90% - 110%	37	38	102%	90% - 110%	47	51	108%	90% - 110%				
Ta	1.9	1.4	71%	90% - 110%					1.9	1.6	85%	90% - 110%				



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Nb	20	19	94%	90% - 110%	13	14	107%	90% - 110%	20	18	90%	90% - 110%				
Sn					7.1	8.1	114%	90% - 110%								
Cs					1.5	1.62	108%	90% - 110%								
Rb	144	149	104%	90% - 110%	55	58	106%	90% - 110%	144	143	99%	90% - 110%				
K	2.55	2.59	102%	90% - 110%	1.37	1.41	103%	90% - 110%	2.55	2.55	100%	90% - 110%				
Mg	1.1	1.1	99%	90% - 110%	0.325	0.295	91%	90% - 110%	1.1	1.1	101%	90% - 110%				
Fe	3.77	3.76	100%	90% - 110%	4.34	4.09	94%	90% - 110%	3.77	3.68	98%	90% - 110%				
Al	8.47	8.25	97%	90% - 110%	10.95	10.25	94%	90% - 110%	8.47	7.87	93%	90% - 110%				
Si	28.4	29.3	103%	90% - 110%	23.3	22.9	98%	90% - 110%	28.4	28.1	99%	90% - 110%				
Be	4.0	3.7	93%	90% - 110%	2.6	3	117%	90% - 110%	4.0	3.6	90%	90% - 110%				
Mn	780	735	94%	90% - 110%	836	764	91%	90% - 110%	780	729	93%	90% - 110%				
Mo	14	13	96%	90% - 110%					14	13	94%	90% - 110%				
As	26	25	96%	90% - 110%					26	24	92%	90% - 110%	25	26	105%	90% - 110%
Ba	540	501	93%	90% - 110%	340	309	91%	90% - 110%	540	499	92%	90% - 110%				
Ca	0.907	0.914	101%	90% - 110%	5.72	5.46	95%	90% - 110%	0.907	0.894	99%	90% - 110%				
Ce	98	101	103%	90% - 110%	122	127	104%	90% - 110%	98	95	97%	90% - 110%				
Co	15	15	103%	90% - 110%	2.8	2.7	95%	90% - 110%	15	15	99%	90% - 110%	1202	1300	108%	90% - 110%
Cu	150	149	99%	90% - 110%					150	152	101%	90% - 110%	15414	14124	92%	90% - 110%
Dy					18.2	19.5	107%	90% - 110%								
Er	3.7	4	107%	90% - 110%	14.2	14.7	103%	90% - 110%	3.7	4.1	109%	90% - 110%				
Eu					2.0	2.1	106%	90% - 110%								
Ga					35	37	106%	90% - 110%								
Gd					14	15	110%	90% - 110%								
Hf	11	10	94%	90% - 110%	10.6	11.5	109%	90% - 110%	11	10	90%	90% - 110%				
Ho					4.3	4.7	110%	90% - 110%								
La	44	45	102%	90% - 110%	58	59	102%	90% - 110%	44	42	96%	90% - 110%				
Lu	0.6	0.6	99%	90% - 110%	2.1	2.3	110%	90% - 110%	0.6	0.6	102%	90% - 110%				
Nd					57	63	110%	90% - 110%								
Ni	32	35	111%	90% - 110%	9	9	95%	90% - 110%	32	36	112%	90% - 110%	23610	21384	91%	90% - 110%
Pb	31	32	102%	90% - 110%	10	10	101%	90% - 110%	31	32	104%	90% - 110%	41	42	101%	90% - 110%
Pr					15.0	16.4	109%	90% - 110%								
Sb	0.8	0.6	77%	90% - 110%					0.8	0.8	105%	90% - 110%				
Sc	12	12	97%	90% - 110%					12	11	92%	90% - 110%				
Sm	7.4	7.7	104%	90% - 110%	12.7	13.1	103%	90% - 110%	7.4	7.9	106%	90% - 110%				



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Sr	144	134	93%	90% - 110%	1191	1074	90%	90% - 110%	144	134	93%	90% - 110%				
Tb	1.2	1.2	104%	90% - 110%	2.6	2.8	109%	90% - 110%	1.2	1.2	104%	90% - 110%				
Th	18.4	17.9	97%	90% - 110%	1.4	1.3	95%	90% - 110%	18.4	17.9	97%	90% - 110%				
Ti	0.527	0.504	96%	90% - 110%	0.172	0.163	95%	90% - 110%	0.527	0.491	93%	90% - 110%				
Tm					2.3	2.5	109%	90% - 110%								
U	5.7	5.4	95%	90% - 110%	0.8	0.9	109%	90% - 110%	5.7	5.4	95%	90% - 110%				
V	77	76	99%	90% - 110%					77	75	97%	90% - 110%				
W	5	5	103%	90% - 110%					5	5	100%	90% - 110%				
Y	40	39	97%	90% - 110%	119	125	105%	90% - 110%	40	38	96%	90% - 110%				
Yb					14.8	16	108%	90% - 110%								
Zn	130	118	91%	90% - 110%	93	87	93%	90% - 110%	130	118	91%	90% - 110%	90	86	96%	90% - 110%
Zr	390	367	94%	90% - 110%	517	567	110%	90% - 110%	390	353	91%	90% - 110%				
CRM #9 (ref.SY-4)																
Parameter	Expect	Actual	Recovery	Limits												
Li	37	41	110%	90% - 110%												
Ta	0.9	0.7	75%	90% - 110%												
Nb	13	13	102%	90% - 110%												
Sn	7.1	6.2	87%	90% - 110%												
Rb	55	54	99%	90% - 110%												
K	1.37	1.41	103%	90% - 110%												
Mg	0.325	0.299	92%	90% - 110%												
Fe	4.34	3.98	92%	90% - 110%												
Al	10.95	9.9	90%	90% - 110%												
Si	23.3	22.6	97%	90% - 110%												
Be	2.6	3	114%	90% - 110%												
Mn	836	796	95%	90% - 110%												
Ba	340	318	94%	90% - 110%												
Ca	5.72	5.37	94%	90% - 110%												
Ce	122	117	96%	90% - 110%												
Co	2.8	2.5	89%	90% - 110%												
Dy	18.2	18.9	104%	90% - 110%												
Er	14.2	14.2	100%	90% - 110%												
Eu	2.0	2	101%	90% - 110%												
Ga	35	36	104%	90% - 110%												



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Gd	14	15	106%	90% - 110%																
Hf	10.6	11.5	108%	90% - 110%																
Ho	4.3	4.4	102%	90% - 110%																
La	58	54	94%	90% - 110%																
Lu	2.1	2.2	104%	90% - 110%																
Nd	57	59	104%	90% - 110%																
Ni	9	8	94%	90% - 110%																
Pb	10	10	104%	90% - 110%																
Pr	15.0	15	100%	90% - 110%																
Sm	12.7	12.8	101%	90% - 110%																
Sr	1191	1085	91%	90% - 110%																
Tb	2.6	2.8	108%	90% - 110%																
Th	1.4	1.3	96%	90% - 110%																
Ti	0.172	0.156	91%	90% - 110%																
Tm	2.3	2.4	104%	90% - 110%																
U	0.8	0.8	102%	90% - 110%																
V	8	6	76%	90% - 110%																
Y	119	116	97%	90% - 110%																
Yb	14.8	15.5	105%	90% - 110%																
Zn	93	87	93%	90% - 110%																
Zr	517	566	110%	90% - 110%																

Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B398430

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B398430

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



CLIENT NAME: ARDIDEN LTD
Level 1, Suite 12, 11 Ventnor Ave
West Perth, West Australia

ATTENTION TO: Brad Boyle

PROJECT:

AGAT WORK ORDER: 18B404778

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 14, 2018

PAGES (INCLUDING COVER): 32

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2018 DATE RECEIVED: Oct 30, 2018 DATE REPORTED: Nov 14, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564430 (9670322)		2.79
E5564431 (9670323)		0.01
E5564432 (9670324)		2.77
E5564433 (9670325)		2.89
E5564434 (9670326)		2.62
E5564435 (9670327)		3.03
E5564436 (9670328)		0.01
E5564437 (9670329)		2.86
E5564438 (9670330)		1.58
E5564439 (9670331)		0.54
E5564440 (9670332)		0.57
E5564441 (9670333)		1.44
E5564442 (9670334)		1.76
E5564443 (9670335)		1.31
E5564444 (9670336)		1.12
E5564445 (9670337)		1.25
E5564446 (9670338)		1.82
E5564447 (9670339)		2.49
E5564448 (9670340)		2.77
E5564449 (9670341)		1.89
E5564450 (9670342)		0.93
E5564451 (9670343)		0.01
E5564452 (9670344)		2.94
E5564453 (9670345)		2.90
E5564454 (9670346)		2.84
E5564455 (9670347)		2.39
E5564456 (9670348)		2.88
E5564457 (9670349)		2.57
E5564458 (9670350)		2.77
E5564459 (9670351)		0.01
E5564460 (9670352)		2.49

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2018 DATE RECEIVED: Oct 30, 2018 DATE REPORTED: Nov 14, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
E5564461 (9670353)		2.74
E5564462 (9670354)		2.04
E5564463 (9670355)		1.05
E5564464 (9670356)		2.05
E5564465 (9670357)		2.08
E5564466 (9670358)		0.96
E5564467 (9670359)		1.31
E5564468 (9670360)		0.72
E5564469 (9670361)		1.15
E5564470 (9670362)		1.08
E5564471 (9670363)		0.01
E5564472 (9670364)		0.95
E5564473 (9670365)		1.46
E5564474 (9670366)		0.66
E5564475 (9670367)		1.81
E5564476 (9670368)		0.01
E5564477 (9670369)		2.88
E5564478 (9670370)		2.41
E5564479 (9670371)		0.43
E5564480 (9670372)		0.33
E5564481 (9670373)		0.96
E5564482 (9670374)		1.59
E5564483 (9670375)		2.40
E5564484 (9670376)		2.95
E5564485 (9670377)		1.96
E5564486 (9670378)		2.37
E5564487 (9670379)		2.53
E5564488 (9670380)		1.94
E5564489 (9670381)		1.95
E5564490 (9670382)		1.97
E5564491 (9670383)		0.01

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2018 DATE RECEIVED: Oct 30, 2018 DATE REPORTED: Nov 14, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
E5564492 (9670384)		2.04
E5564493 (9670385)		1.64
E5564494 (9670386)		1.15
E5564495 (9670387)		1.38
E5564496 (9670388)		1.61
E5564497 (9670389)		2.02
E5564498 (9670390)		1.78
E5564499 (9670391)		0.01
E5564500 (9670392)		1.72
E5564501 (9670393)		0.92
E5564502 (9670394)		1.71
E5564503 (9670395)		1.75

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Nov 01, 2018 DATE RECEIVED: Oct 30, 2018 DATE REPORTED: Nov 14, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564430 (9670322)		3.09
E5564431 (9670323)		2.70
E5564432 (9670324)		3.10
E5564433 (9670325)		3.03
E5564434 (9670326)		3.07
E5564435 (9670327)		3.09
E5564436 (9670328)		2.95
E5564437 (9670329)		3.09
E5564438 (9670330)		2.91
E5564439 (9670331)		2.80
E5564440 (9670332)		2.84
E5564441 (9670333)		2.94
E5564442 (9670334)		2.81
E5564443 (9670335)		2.83
E5564444 (9670336)		2.68
E5564445 (9670337)		2.66
E5564446 (9670338)		3.05
E5564447 (9670339)		3.15
E5564448 (9670340)		3.13
E5564449 (9670341)		3.23
E5564450 (9670342)		3.00
E5564451 (9670343)		2.69
E5564452 (9670344)		3.08
E5564453 (9670345)		3.09
E5564454 (9670346)		3.09
E5564455 (9670347)		2.94
E5564456 (9670348)		3.20
E5564457 (9670349)		3.04
E5564458 (9670350)		2.93
E5564459 (9670351)		2.85
E5564460 (9670352)		3.07
E5564461 (9670353)		3.15

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Nov 01, 2018 DATE RECEIVED: Oct 30, 2018 DATE REPORTED: Nov 14, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Specific Gravity g/cm3 0.01
E5564462 (9670354)		3.00
E5564463 (9670355)		2.69
E5564464 (9670356)		3.00
E5564465 (9670357)		2.65
E5564466 (9670358)		2.62
E5564467 (9670359)		2.73
E5564468 (9670360)		2.74
E5564469 (9670361)		2.69
E5564470 (9670362)		2.72
E5564471 (9670363)		2.65
E5564472 (9670364)		2.98
E5564473 (9670365)		2.94
E5564474 (9670366)		2.74
E5564475 (9670367)		3.14
E5564476 (9670368)		2.97
E5564477 (9670369)		3.09
E5564478 (9670370)		3.14
E5564479 (9670371)		2.64
E5564480 (9670372)		2.59
E5564481 (9670373)		2.67
E5564482 (9670374)		3.11
E5564483 (9670375)		2.97
E5564484 (9670376)		3.10
E5564485 (9670377)		3.01
E5564486 (9670378)		3.04
E5564487 (9670379)		3.02
E5564488 (9670380)		2.96
E5564489 (9670381)		3.08
E5564490 (9670382)		3.15
E5564491 (9670383)		2.67
E5564492 (9670384)		3.07
E5564493 (9670385)		2.69

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

DATE SAMPLED: Nov 01, 2018 DATE RECEIVED: Oct 30, 2018 DATE REPORTED: Nov 14, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Specific Gravity
	Unit:	g/cm3
	RDL:	0.01
E5564494 (9670386)		3.03
E5564495 (9670387)		2.77
E5564496 (9670388)		2.98
E5564497 (9670389)		3.04
E5564498 (9670390)		3.07
E5564499 (9670391)		2.81
E5564500 (9670392)		3.07
E5564501 (9670393)		2.71
E5564502 (9670394)		2.81
E5564503 (9670395)		2.83

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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TEL (905)501-9998
FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564430 (9670322)	308	0.066	<0.5	2	4	4.5	5.0	0.15	5.43	9.10	0.03	7.90	23.7	<5	
E5564431 (9670323)	20	0.004	<0.5	<1	3	0.2	0.8	<0.05	0.01	0.35	<0.01	0.12	48.7	<5	
E5564432 (9670324)	335	0.072	<0.5	2	2	7.1	7.4	0.12	5.34	8.71	0.03	8.12	23.6	<5	
E5564433 (9670325)	438	0.094	<0.5	2	2	8.9	15.5	0.18	5.57	9.27	0.03	8.39	24.4	<5	
E5564434 (9670326)	505	0.109	<0.5	2	2	16.8	52.5	0.34	5.62	9.22	0.03	8.02	24.0	<5	
E5564435 (9670327)	549	0.118	<0.5	10	6	17.0	28.9	0.25	5.31	8.92	0.03	8.07	23.7	<5	
E5564436 (9670328)	9900	2.13	27.4	6140	3280	346	762	1.42	0.54	4.29	0.12	7.82	33.1	28	
E5564437 (9670329)	1820	0.391	<0.5	16	10	98.3	188	0.40	5.70	8.95	0.03	8.14	23.5	<5	
E5564438 (9670330)	1630	0.351	11.5	13	13	2400	3650	1.59	2.23	3.93	0.18	8.67	30.0	27	
E5564439 (9670331)	1320	0.285	158	93	53	268	2230	1.64	0.17	0.70	0.17	10.2	33.5	698	
E5564440 (9670332)	2780	0.599	203	81	46	500	1820	1.38	0.23	0.72	0.08	9.26	34.6	1770	
E5564441 (9670333)	3220	0.693	<0.5	2	<1	11.0	46.5	4.21	0.29	1.50	1.57	8.75	31.1	<5	
E5564442 (9670334)	4850	1.04	468	46	36	526	2670	1.52	0.12	0.67	0.44	6.69	38.7	88	
E5564443 (9670335)	10400	2.24	76.1	57	47	563	2060	1.23	0.09	0.74	0.07	7.72	37.7	89	
E5564444 (9670336)	1460	0.313	182	97	27	152	1130	0.81	0.06	0.43	0.20	8.93	35.0	500	
E5564445 (9670337)	184	0.040	145	80	14	104	546	0.48	0.04	0.32	0.21	8.66	36.2	289	
E5564446 (9670338)	1070	0.230	<0.5	3	3	48.5	240	0.54	6.17	8.18	0.03	8.05	22.3	8	
E5564447 (9670339)	442	0.095	<0.5	2	3	9.9	17.2	0.16	4.86	8.17	0.03	7.27	22.3	<5	
E5564448 (9670340)	266	0.057	1.3	2	3	5.2	30.4	0.13	4.88	9.07	0.03	8.20	24.5	7	
E5564449 (9670341)	394	0.085	<0.5	2	<1	57.2	40.3	0.18	5.66	9.45	0.03	8.12	23.5	<5	
E5564450 (9670342)	263	0.057	<0.5	2	<1	10.5	44.3	0.24	3.42	7.09	0.02	7.15	25.4	<5	
E5564451 (9670343)	16	0.003	<0.5	<1	1	0.3	0.9	<0.05	0.01	0.37	<0.01	0.13	48.0	<5	
E5564452 (9670344)	213	0.046	<0.5	2	<1	4.9	14.9	0.17	3.93	8.70	0.03	7.91	24.1	<5	
E5564453 (9670345)	169	0.036	<0.5	2	1	1.5	4.9	0.15	4.89	8.96	0.03	8.02	24.3	<5	
E5564454 (9670346)	155	0.033	<0.5	2	7	2.5	7.9	0.16	5.00	8.71	0.03	7.81	24.1	<5	
E5564455 (9670347)	68	0.015	<0.5	5	5	5.9	57.2	1.18	1.45	5.81	0.06	6.71	30.3	<5	
E5564456 (9670348)	138	0.030	<0.5	3	5	8.1	45.6	1.04	3.81	11.3	0.06	7.16	22.2	<5	
E5564457 (9670349)	132	0.028	1.2	3	3	17.0	84.7	1.10	3.44	10.4	0.06	7.78	24.1	<5	
E5564458 (9670350)	216	0.046	7.6	5	2	61.5	192	1.29	2.80	7.75	0.06	8.02	25.9	12	
E5564459 (9670351)	2370	0.510	17.2	1220	817	254	1230	1.75	0.58	3.54	0.17	5.38	39.7	38	
E5564460 (9670352)	148	0.032	<0.5	6	3	7.6	82.3	0.92	3.56	9.50	0.05	7.77	23.4	<5	
E5564461 (9670353)	177	0.038	<0.5	4	2	4.9	47.4	0.62	3.99	10.7	0.05	7.27	22.4	<5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564462 (9670354)	261	0.056	<0.5	8	2	7.2	80.1	0.91	4.17	10.0	0.06	7.54	24.0	9	
E5564463 (9670355)	33	0.007	96.8	47	5	140	2490	4.36	0.07	0.51	0.11	8.37	34.5	83	
E5564464 (9670356)	282	0.061	18.9	9	2	54.5	239	0.97	3.08	8.15	0.09	8.29	24.8	20	
E5564465 (9670357)	27	0.006	150	66	7	206	1960	2.74	0.05	0.52	0.07	8.11	36.2	99	
E5564466 (9670358)	2820	0.608	214	82	12	225	1180	1.61	0.06	0.49	0.07	8.39	36.4	375	
E5564467 (9670359)	2580	0.555	189	67	22	199	1530	2.52	0.27	0.66	0.04	8.32	35.9	53	
E5564468 (9670360)	3040	0.654	121	57	18	79.7	481	1.14	0.15	0.55	0.05	7.78	37.6	56	
E5564469 (9670361)	27	0.006	70.7	60	6	61.9	704	1.24	0.01	0.29	0.12	8.00	37.0	97	
E5564470 (9670362)	1310	0.281	258	102	19	73.1	966	2.08	0.03	0.48	0.13	8.56	35.4	207	
E5564471 (9670363)	13	0.003	<0.5	1	<1	0.6	1.4	<0.05	<0.01	0.35	<0.01	0.12	49.3	<5	
E5564472 (9670364)	995	0.214	17.4	6	2	370	860	2.17	4.78	7.57	0.07	8.13	23.5	21	
E5564473 (9670365)	588	0.127	143	35	13	286	791	2.43	3.01	5.92	0.17	8.94	24.2	34	
E5564474 (9670366)	328	0.071	164	57	6	243	779	1.88	0.87	1.93	0.30	7.00	35.9	81	
E5564475 (9670367)	355	0.077	9.1	6	4	77.2	223	1.17	3.90	7.69	0.08	8.06	24.4	13	
E5564476 (9670368)	9770	2.10	28.8	6540	3300	376	862	1.42	0.55	4.30	0.12	7.90	32.7	31	
E5564477 (9670369)	348	0.075	0.5	8	10	61.5	157	1.04	4.16	8.46	0.05	7.79	25.3	<5	
E5564478 (9670370)	563	0.121	<0.5	5	3	27.3	92.6	0.73	4.12	9.10	0.04	7.53	24.4	6	
E5564479 (9670371)	42	0.009	89.5	35	3	226	1950	2.77	0.12	0.54	0.16	9.08	35.0	35	
E5564480 (9670372)	15	0.003	55.8	24	3	248	2620	3.68	0.04	0.34	0.12	8.51	34.5	48	
E5564481 (9670373)	1470	0.316	236	66	17	333	532	0.45	0.18	0.67	0.18	8.29	35.3	84	
E5564482 (9670374)	903	0.194	0.8	3	2	540	797	0.98	4.34	7.85	0.04	7.88	23.5	11	
E5564483 (9670375)	357	0.077	<0.5	2	2	27.6	154	0.96	4.17	7.56	0.03	7.88	24.8	<5	
E5564484 (9670376)	285	0.061	<0.5	2	<1	16.3	81.9	0.98	4.40	7.74	0.03	8.64	23.3	<5	
E5564485 (9670377)	300	0.064	<0.5	4	<1	23.9	81.3	1.41	4.06	6.73	0.08	8.23	24.2	<5	
E5564486 (9670378)	320	0.069	<0.5	2	<1	38.5	86.6	1.18	4.16	7.68	0.04	8.72	23.6	<5	
E5564487 (9670379)	373	0.080	<0.5	2	1	29.5	83.5	1.19	4.27	7.78	0.03	9.28	23.9	<5	
E5564488 (9670380)	275	0.059	<0.5	2	1	11.7	62.4	0.90	4.46	7.44	0.03	8.81	23.2	<5	
E5564489 (9670381)	319	0.069	<0.5	2	<1	9.5	56.2	0.72	4.49	7.34	0.03	8.72	23.2	<5	
E5564490 (9670382)	289	0.062	<0.5	2	<1	13.2	73.5	0.97	4.43	7.37	0.03	8.37	23.8	<5	
E5564491 (9670383)	16	0.004	<0.5	1	3	0.4	1.0	<0.05	0.02	0.37	<0.01	0.14	48.8	<5	
E5564492 (9670384)	505	0.109	<0.5	2	1	44.7	155	0.90	4.13	6.90	0.03	8.35	23.8	<5	
E5564493 (9670385)	1180	0.255	91.3	76	11	242	607	0.71	0.22	0.85	0.09	8.48	34.7	179	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018		DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Li	Li2O	Ta	Nb	Sn	Cs	Rb	K	Mg	Fe	P	Al	Si	Be	
Unit:	ppm	%	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	
RDL:	10	0.001	0.5	1	1	0.1	0.2	0.05	0.01	0.01	0.01	0.01	0.01	5	
E5564494 (9670386)	646	0.139	0.6	6	5	415	682	1.45	3.42	9.42	0.06	7.55	24.7	20	
E5564495 (9670387)	369	0.080	130	66	2	186	489	0.78	1.14	4.47	0.12	8.28	31.9	49	
E5564496 (9670388)	406	0.087	<0.5	5	<1	77.2	194	0.98	2.72	8.90	0.07	7.38	26.8	<5	
E5564497 (9670389)	189	0.041	<0.5	4	<1	6.2	60.0	0.77	3.38	8.52	0.05	7.45	25.2	<5	
E5564498 (9670390)	344	0.074	<0.5	6	<1	155	414	0.92	2.71	10.3	0.06	7.52	25.3	<5	
E5564499 (9670391)	2180	0.468	16.9	1230	815	250	1240	1.61	0.58	3.22	0.18	5.01	36.8	39	
E5564500 (9670392)	271	0.058	1.4	5	<1	45.8	115	0.81	2.83	8.56	0.05	8.16	24.8	<5	
E5564501 (9670393)	188	0.040	17.1	19	<1	145	690	1.81	0.68	2.55	0.09	7.72	34.6	55	
E5564502 (9670394)	336	0.072	<0.5	6	<1	47.7	160	3.50	2.05	3.87	0.07	7.28	33.1	<5	
E5564503 (9670395)	219	0.047	<0.5	7	2	13.0	130	4.32	1.02	3.16	0.07	7.59	32.9	<5	

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(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564430 (9670322)	<20	1540	2	<0.1	<5	<1	25.2	7.81	<0.2	6.3	57.1	0.036	186	2.84	
E5564431 (9670323)	<20	30	<2	<0.1	<5	<1	4.6	<0.05	<0.2	2.2	1.2	<0.005	<5	0.19	
E5564432 (9670324)	<20	1510	<2	<0.1	<5	<1	25.7	7.73	<0.2	6.3	54.7	0.034	123	2.74	
E5564433 (9670325)	<20	1650	<2	0.2	<5	<1	34.1	7.86	<0.2	6.4	57.8	0.033	169	2.79	
E5564434 (9670326)	25	1630	<2	1.1	<5	<1	79.7	7.85	0.3	6.5	57.1	0.034	169	2.90	
E5564435 (9670327)	<20	1630	<2	4.0	<5	<1	51.8	7.82	<0.2	6.5	55.9	0.034	164	2.66	
E5564436 (9670328)	37	459	11	47.3	140	<1	2920	1.07	1.3	418	8.2	0.010	342	4.42	
E5564437 (9670329)	21	1450	5	1.2	<5	<1	86.7	7.50	0.2	6.4	53.7	0.033	207	2.67	
E5564438 (9670330)	44	968	8	4.4	<5	<1	698	3.20	0.4	118	19.4	0.012	136	2.45	
E5564439 (9670331)	23	738	10	1.6	<5	2	39.9	0.74	<0.2	2.3	3.8	0.011	5	0.11	
E5564440 (9670332)	33	555	9	2.4	<5	<1	119	0.48	<0.2	1.9	2.8	0.013	<5	0.07	
E5564441 (9670333)	<20	3190	3	0.2	<5	<1	17.7	3.12	0.3	5.4	41.9	0.019	<5	2.18	
E5564442 (9670334)	29	1450	12	3.7	<5	<1	10.9	0.82	0.3	3.2	2.0	0.023	<5	0.43	
E5564443 (9670335)	<20	988	14	11.1	<5	<1	20.7	0.19	<0.2	0.2	1.6	0.027	<5	<0.05	
E5564444 (9670336)	<20	973	6	2.4	<5	<1	4.7	0.47	<0.2	1.6	1.3	0.010	<5	0.16	
E5564445 (9670337)	<20	427	6	1.3	<5	<1	3.9	0.72	<0.2	1.4	1.1	0.013	<5	0.11	
E5564446 (9670338)	21	1410	3	6.5	<5	<1	78.2	6.01	<0.2	11.9	48.2	0.034	44	3.04	
E5564447 (9670339)	22	1420	<2	0.1	6	<1	22.7	7.45	0.2	5.6	54.4	0.032	197	2.61	
E5564448 (9670340)	<20	1710	<2	<0.1	<5	<1	24.3	8.39	0.3	5.8	54.2	0.034	157	2.79	
E5564449 (9670341)	96	1590	<2	<0.1	<5	<1	28.2	7.45	0.4	5.5	54.8	0.035	162	2.64	
E5564450 (9670342)	<20	1210	4	<0.1	<5	<1	57.4	9.79	<0.2	5.5	44.1	0.029	100	2.12	
E5564451 (9670343)	<20	31	<2	<0.1	<5	<1	4.3	<0.05	<0.2	2.3	0.7	<0.005	<5	0.16	
E5564452 (9670344)	37	1560	3	<0.1	<5	<1	35.1	8.56	<0.2	6.3	57.0	0.034	156	2.93	
E5564453 (9670345)	<20	1570	<2	<0.1	<5	<1	26.7	8.32	<0.2	6.1	55.5	0.031	166	2.77	
E5564454 (9670346)	<20	1650	<2	<0.1	<5	<1	25.6	8.24	<0.2	6.5	56.9	0.032	160	2.76	
E5564455 (9670347)	<20	1450	6	0.4	<5	<1	114	3.71	<0.2	19.4	20.5	0.011	176	2.07	
E5564456 (9670348)	22	2870	<2	0.7	<5	<1	83.8	5.86	0.2	10.7	57.9	0.019	128	3.85	
E5564457 (9670349)	<20	2910	<2	0.9	<5	<1	147	7.24	0.3	11.4	82.0	0.021	148	3.49	
E5564458 (9670350)	<20	2010	2	0.9	<5	<1	249	5.36	<0.2	12.6	69.3	0.020	95	3.25	
E5564459 (9670351)	29	434	8	12.1	35	1	1990	1.23	0.6	1200	7.8	0.007	298	8.46	
E5564460 (9670352)	22	2650	<2	0.8	<5	<1	99.0	8.20	<0.2	11.6	48.2	0.023	59	3.89	
E5564461 (9670353)	23	2850	<2	0.6	<5	<1	56.8	8.78	<0.2	11.1	50.4	0.019	75	3.70	

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018						DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core			
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564462 (9670354)	<20	2620	<2	1.2	<5	<1	125	7.57	<0.2	17.5	54.8	0.027	58	4.19	
E5564463 (9670355)	<20	350	5	0.8	<5	<1	33.5	0.50	<0.2	0.7	1.6	0.007	<5	0.06	
E5564464 (9670356)	<20	2000	<2	1.4	<5	<1	123	6.45	<0.2	12.2	40.6	0.022	21	3.71	
E5564465 (9670357)	<20	1520	6	0.5	<5	<1	18.3	0.28	<0.2	1.3	1.2	0.010	<5	0.08	
E5564466 (9670358)	<20	1680	9	0.5	<5	<1	27.1	0.25	<0.2	0.9	1.3	0.016	<5	0.08	
E5564467 (9670359)	<20	722	7	0.3	<5	<1	219	0.18	<0.2	0.6	3.2	0.012	<5	0.07	
E5564468 (9670360)	<20	532	11	0.7	<5	<1	139	0.13	<0.2	0.5	2.1	0.021	<5	<0.05	
E5564469 (9670361)	<20	130	6	0.5	<5	<1	23.2	0.31	<0.2	0.9	0.8	0.009	5	<0.05	
E5564470 (9670362)	<20	344	8	0.5	6	<1	45.1	0.57	<0.2	1.1	0.8	0.016	61	<0.05	
E5564471 (9670363)	<20	34	<2	<0.1	<5	<1	4.5	<0.05	<0.2	2.5	0.8	<0.005	<5	0.18	
E5564472 (9670364)	25	2060	3	0.7	<5	<1	426	7.43	0.2	21.6	48.8	0.024	35	3.79	
E5564473 (9670365)	<20	1740	3	1.1	<5	<1	359	6.26	<0.2	18.1	37.1	0.021	84	2.92	
E5564474 (9670366)	<20	490	8	0.8	<5	<1	177	1.92	<0.2	2.2	11.7	0.016	52	0.59	
E5564475 (9670367)	20	1760	3	0.9	<5	<1	177	6.83	<0.2	11.7	53.9	0.024	136	4.17	
E5564476 (9670368)	38	462	12	49.0	157	<1	2900	1.08	1.4	433	9.3	0.011	343	4.56	
E5564477 (9670369)	22	1930	<2	1.4	<5	<1	405	6.94	<0.2	10.8	54.3	0.021	101	3.87	
E5564478 (9670370)	<20	1630	3	2.4	<5	<1	184	7.98	<0.2	9.1	56.5	0.030	107	3.86	
E5564479 (9670371)	<20	231	4	1.0	<5	<1	76.2	0.64	<0.2	1.0	2.3	0.008	16	0.05	
E5564480 (9670372)	<20	183	6	0.6	<5	<1	47.7	0.46	<0.2	0.5	1.2	0.013	<5	<0.05	
E5564481 (9670373)	22	1930	7	10.7	<5	<1	48.0	0.86	<0.2	0.8	2.8	0.013	17	0.12	
E5564482 (9670374)	23	1430	3	1.3	<5	<1	471	7.85	<0.2	7.4	56.7	0.027	105	3.02	
E5564483 (9670375)	<20	1300	3	0.7	<5	<1	504	6.88	<0.2	6.7	52.7	0.030	145	2.65	
E5564484 (9670376)	21	1410	<2	0.5	<5	<1	715	7.08	<0.2	7.2	54.9	0.033	138	2.80	
E5564485 (9670377)	<20	1290	<2	0.4	<5	<1	1200	6.41	<0.2	53.9	47.0	0.032	106	3.29	
E5564486 (9670378)	20	1320	<2	0.3	<5	<1	1300	7.28	<0.2	8.1	53.5	0.047	113	3.16	
E5564487 (9670379)	21	1300	<2	0.3	<5	<1	687	7.62	<0.2	6.9	51.2	0.031	76	2.45	
E5564488 (9670380)	22	1320	<2	0.4	<5	<1	473	7.91	<0.2	6.5	56.0	0.040	68	2.70	
E5564489 (9670381)	<20	1270	<2	0.3	<5	<1	264	8.31	<0.2	6.2	47.1	0.054	92	2.59	
E5564490 (9670382)	32	1410	<2	0.4	<5	<1	184	7.69	<0.2	6.1	41.8	0.056	108	2.64	
E5564491 (9670383)	<20	34	<2	<0.1	<5	<1	5.0	<0.05	<0.2	2.4	0.7	<0.005	<5	0.18	
E5564492 (9670384)	22	1430	2	0.5	12	<1	159	8.31	<0.2	6.0	43.6	0.059	109	2.55	
E5564493 (9670385)	<20	1600	6	0.4	<5	<1	45.5	1.17	<0.2	1.2	2.8	0.010	7	0.24	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	B	Mn	Mo	Bi	As	Ag	Ba	Ca	Cd	Ce	Co	Cr	Cu	Dy	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
RDL:	20	10	2	0.1	5	1	0.5	0.05	0.2	0.1	0.5	0.005	5	0.05	
E5564494 (9670386)	29	1980	4	1.2	<5	<1	275	5.51	<0.2	10.7	44.3	0.011	107	4.85	
E5564495 (9670387)	22	1160	5	1.6	<5	<1	88.6	3.18	<0.2	7.2	23.4	0.009	78	2.88	
E5564496 (9670388)	<20	1880	4	0.9	<5	<1	175	5.77	0.2	14.3	46.5	0.009	108	4.67	
E5564497 (9670389)	24	1700	3	1.3	<5	<1	112	7.90	<0.2	10.5	54.8	0.020	73	3.86	
E5564498 (9670390)	<20	2160	8	0.9	<5	<1	73.0	6.50	0.2	15.3	54.5	0.009	128	4.99	
E5564499 (9670391)	30	402	8	12.0	35	<1	1990	1.11	0.5	1180	8.0	0.008	297	8.12	
E5564500 (9670392)	21	1720	3	0.7	<5	<1	112	5.92	<0.2	13.1	48.8	0.025	110	3.85	
E5564501 (9670393)	<20	509	7	0.2	<5	<1	106	1.78	<0.2	18.3	9.7	0.017	28	1.32	
E5564502 (9670394)	46	674	5	<0.1	<5	<1	515	1.85	<0.2	33.9	12.9	0.012	8	1.43	
E5564503 (9670395)	27	675	6	0.3	<5	<1	685	2.46	<0.2	34.6	11.4	0.017	6	1.38	

Certified By:



Certificate of Analysis

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564430 (9670322)	1.79	0.63	15.1	2.41	2	1	0.69	<0.2	2.3	0.28	5.2	179	<5	1.00	
E5564431 (9670323)	0.13	<0.05	0.39	0.19	<1	<1	0.06	<0.2	1.0	<0.05	1.0	10	<5	0.25	
E5564432 (9670324)	1.81	0.64	14.9	2.21	2	1	0.67	<0.2	2.2	0.29	5.0	172	<5	0.99	
E5564433 (9670325)	1.85	0.69	15.0	2.35	2	1	0.66	<0.2	2.3	0.25	5.5	173	13	1.03	
E5564434 (9670326)	1.87	0.68	14.7	2.34	2	1	0.69	<0.2	2.4	0.28	5.2	173	64	0.96	
E5564435 (9670327)	1.65	0.64	13.9	2.40	2	1	0.64	<0.2	2.3	0.28	5.4	182	6	1.03	
E5564436 (9670328)	1.67	4.26	43.7	11.3	7	5	0.75	8.0	248	0.20	141	43	38	47.2	
E5564437 (9670329)	1.68	0.74	15.1	2.24	2	1	0.68	<0.2	2.6	0.27	5.1	169	15	0.98	
E5564438 (9670330)	1.20	1.29	20.7	4.06	3	4	0.44	<0.2	58.2	0.19	44.2	50	25	13.3	
E5564439 (9670331)	0.06	0.18	62.5	0.15	7	2	<0.05	<0.2	1.0	<0.05	1.2	16	8	0.30	
E5564440 (9670332)	<0.05	0.13	55.4	0.18	7	2	<0.05	<0.2	0.9	<0.05	1.0	21	<5	0.25	
E5564441 (9670333)	1.39	0.50	13.1	1.77	2	<1	0.48	<0.2	2.4	0.21	4.1	28	47	0.81	
E5564442 (9670334)	0.23	0.07	40.9	0.35	8	2	0.07	<0.2	1.6	<0.05	1.4	24	<5	0.37	
E5564443 (9670335)	<0.05	<0.05	62.3	<0.05	7	<1	<0.05	<0.2	0.2	<0.05	<0.1	16	<5	<0.05	
E5564444 (9670336)	0.06	0.06	49.5	0.10	8	3	<0.05	<0.2	0.9	<0.05	0.5	19	<5	0.15	
E5564445 (9670337)	0.06	<0.05	36.2	0.09	7	5	<0.05	<0.2	0.6	<0.05	0.6	19	<5	0.16	
E5564446 (9670338)	2.02	0.74	16.7	2.46	3	1	0.69	<0.2	6.1	0.30	6.8	165	<5	1.62	
E5564447 (9670339)	1.72	0.62	14.3	2.17	2	1	0.59	<0.2	2.0	0.23	4.5	163	23	0.90	
E5564448 (9670340)	1.74	0.61	14.8	2.06	2	1	0.67	<0.2	2.2	0.26	4.8	169	49	0.97	
E5564449 (9670341)	1.78	0.59	13.9	2.19	2	1	0.59	<0.2	1.8	0.27	4.7	178	27	0.90	
E5564450 (9670342)	1.36	0.54	14.4	1.81	2	<1	0.50	<0.2	2.4	0.22	4.1	137	48	0.83	
E5564451 (9670343)	0.13	<0.05	0.31	0.19	<1	<1	<0.05	<0.2	1.1	<0.05	1.0	11	<5	0.26	
E5564452 (9670344)	1.88	0.64	15.0	2.26	2	1	0.64	<0.2	2.5	0.29	5.1	176	<5	0.99	
E5564453 (9670345)	1.68	0.69	15.0	2.16	2	1	0.66	<0.2	2.3	0.25	4.8	169	<5	1.01	
E5564454 (9670346)	1.76	0.65	15.5	2.15	2	1	0.70	<0.2	2.4	0.28	4.8	175	<5	0.98	
E5564455 (9670347)	1.32	0.64	18.8	1.97	2	3	0.47	<0.2	8.4	0.19	9.4	62	9	2.44	
E5564456 (9670348)	2.39	0.79	16.8	3.24	3	2	0.89	<0.2	4.0	0.36	7.8	127	9	1.61	
E5564457 (9670349)	2.26	0.86	18.1	2.99	3	2	0.81	<0.2	4.8	0.36	7.6	198	11	1.72	
E5564458 (9670350)	2.18	0.80	19.8	2.78	3	2	0.75	<0.2	5.5	0.30	8.1	160	11	1.71	
E5564459 (9670351)	2.61	10.7	22.2	26.6	4	6	1.30	1.9	681	0.24	378	40	29	123	
E5564460 (9670352)	2.38	0.99	19.1	3.12	3	2	0.89	<0.2	5.0	0.37	8.2	123	6	1.72	
E5564461 (9670353)	2.38	0.86	18.8	3.25	3	2	0.92	<0.2	4.8	0.38	8.2	122	8	1.66	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
Sample ID (AGAT ID)															
E5564462 (9670354)	2.41	1.14	17.8	3.51	3	2	0.87	<0.2	6.8	0.39	11.7	138	8	2.61	
E5564463 (9670355)	0.05	0.10	30.5	0.10	5	2	<0.05	<0.2	0.3	<0.05	0.5	18	17	0.09	
E5564464 (9670356)	2.52	1.03	22.1	2.98	3	2	0.85	<0.2	5.0	0.40	8.4	111	9	1.75	
E5564465 (9670357)	<0.05	<0.05	33.2	0.12	6	3	<0.05	<0.2	0.6	<0.05	0.9	20	14	0.19	
E5564466 (9670358)	<0.05	0.05	41.0	0.13	6	2	<0.05	<0.2	0.4	<0.05	0.6	16	9	0.13	
E5564467 (9670359)	<0.05	0.06	41.7	0.17	6	1	<0.05	<0.2	0.2	<0.05	0.5	20	9	0.09	
E5564468 (9670360)	<0.05	<0.05	42.4	0.10	6	1	<0.05	<0.2	0.2	<0.05	0.4	18	<5	0.07	
E5564469 (9670361)	<0.05	0.05	38.1	0.15	6	<1	<0.05	<0.2	0.4	<0.05	0.8	15	5	0.13	
E5564470 (9670362)	<0.05	<0.05	41.3	0.10	7	2	<0.05	<0.2	0.5	<0.05	0.7	15	13	0.17	
E5564471 (9670363)	0.15	<0.05	0.29	0.22	<1	<1	0.05	<0.2	1.1	<0.05	0.9	12	<5	0.29	
E5564472 (9670364)	2.44	1.02	24.6	3.39	3	2	0.89	<0.2	11.4	0.40	11.5	136	10	2.77	
E5564473 (9670365)	1.92	0.72	39.0	2.60	6	3	0.72	<0.2	10.2	0.32	9.0	99	11	2.17	
E5564474 (9670366)	0.31	0.10	24.4	0.47	4	2	0.14	<0.2	1.1	<0.05	1.3	37	10	0.30	
E5564475 (9670367)	2.76	0.99	19.6	3.31	3	2	0.93	<0.2	4.6	0.39	8.7	119	9	1.77	
E5564476 (9670368)	1.79	4.60	49.5	11.5	8	5	0.77	9.3	255	0.22	150	44	39	49.4	
E5564477 (9670369)	2.41	0.92	18.2	3.31	2	2	0.90	<0.2	4.0	0.39	8.1	123	7	1.68	
E5564478 (9670370)	2.23	0.91	18.0	3.17	3	2	0.88	<0.2	3.3	0.36	7.3	126	10	1.42	
E5564479 (9670371)	<0.05	<0.05	34.9	0.09	7	1	<0.05	<0.2	0.6	<0.05	0.6	14	13	0.12	
E5564480 (9670372)	<0.05	0.05	31.5	<0.05	7	<1	<0.05	<0.2	0.3	<0.05	0.2	16	16	0.05	
E5564481 (9670373)	0.10	0.06	40.6	0.17	8	2	<0.05	<0.2	0.4	<0.05	0.5	20	6	0.11	
E5564482 (9670374)	1.78	0.70	16.6	2.51	3	1	0.70	<0.2	2.8	0.30	5.9	160	7	1.14	
E5564483 (9670375)	1.67	0.68	15.7	2.06	2	1	0.63	<0.2	2.7	0.24	5.5	155	7	1.03	
E5564484 (9670376)	1.65	0.75	16.2	2.11	2	1	0.64	<0.2	2.9	0.26	5.7	165	8	1.09	
E5564485 (9670377)	1.69	1.50	18.7	4.13	2	3	0.69	<0.2	25.2	0.24	27.1	133	10	6.83	
E5564486 (9670378)	1.85	0.84	18.8	2.51	2	1	0.72	<0.2	3.1	0.27	6.5	135	10	1.26	
E5564487 (9670379)	1.50	0.73	16.6	1.99	2	1	0.54	<0.2	2.7	0.24	5.4	154	8	1.07	
E5564488 (9670380)	1.84	0.74	17.2	2.18	2	1	0.66	<0.2	2.4	0.29	5.5	160	8	1.06	
E5564489 (9670381)	1.69	0.61	15.3	2.09	2	1	0.60	<0.2	2.3	0.27	5.2	137	6	0.99	
E5564490 (9670382)	1.67	0.69	15.6	2.08	2	1	0.59	<0.2	2.3	0.26	4.8	100	6	0.98	
E5564491 (9670383)	0.09	<0.05	0.37	0.14	1	<1	<0.05	<0.2	1.1	<0.05	1.0	11	<5	0.29	
E5564492 (9670384)	1.62	0.69	15.8	2.28	2	1	0.63	<0.2	2.3	0.25	4.9	99	7	0.90	
E5564493 (9670385)	0.20	0.07	35.6	0.18	6	2	0.06	<0.2	0.6	<0.05	0.5	15	8	0.12	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018						DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Er	Eu	Ga	Gd	Ge	Hf	Ho	In	La	Lu	Nd	Ni	Pb	Pr	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.05	0.05	0.01	0.05	1	1	0.05	0.2	0.1	0.05	0.1	5	5	0.05	
E5564494 (9670386)	3.08	1.05	21.2	3.79	3	2	1.15	<0.2	3.5	0.51	8.8	58	9	1.84	
E5564495 (9670387)	1.71	0.63	31.2	2.30	5	3	0.66	<0.2	2.7	0.28	5.6	26	9	1.14	
E5564496 (9670388)	3.00	1.24	21.3	4.47	2	3	1.14	<0.2	5.2	0.46	11.2	44	9	2.17	
E5564497 (9670389)	2.57	0.97	20.1	3.29	3	2	0.92	<0.2	3.9	0.36	8.0	75	9	1.62	
E5564498 (9670390)	3.20	1.26	21.3	4.28	2	3	1.19	<0.2	6.0	0.51	11.8	57	10	2.28	
E5564499 (9670391)	2.46	9.84	23.5	25.8	4	6	1.29	1.6	657	0.21	370	32	29	117	
E5564500 (9670392)	2.34	1.05	21.2	3.58	2	2	0.94	<0.2	5.6	0.37	9.3	77	8	1.92	
E5564501 (9670393)	0.63	0.48	22.9	1.40	3	2	0.27	<0.2	8.6	0.10	7.9	38	8	2.17	
E5564502 (9670394)	0.73	0.87	17.4	2.09	1	3	0.29	<0.2	16.4	0.11	14.3	44	<5	3.95	
E5564503 (9670395)	0.65	0.87	18.3	2.03	1	4	0.29	<0.2	17.3	0.08	14.1	41	<5	4.00	

Certified By:



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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564430 (9670322)	0.12	0.2	43	1.7	73.8	0.38	0.3	0.45	<0.5	0.29	0.09	262	<1	16.4	
E5564431 (9670323)	<0.01	0.1	<5	0.2	2.3	<0.05	0.6	0.03	<0.5	<0.05	0.19	<5	<1	1.3	
E5564432 (9670324)	0.05	0.4	43	1.7	80.0	0.40	0.3	0.45	<0.5	0.30	0.11	263	<1	15.4	
E5564433 (9670325)	0.05	0.8	44	1.6	85.9	0.42	0.3	0.48	<0.5	0.30	0.14	271	<1	16.6	
E5564434 (9670326)	0.06	0.8	43	1.5	83.9	0.44	0.3	0.47	<0.5	0.30	0.10	268	<1	16.1	
E5564435 (9670327)	0.06	1.0	44	1.7	100	0.41	0.4	0.46	<0.5	0.27	0.19	272	<1	16.2	
E5564436 (9670328)	0.02	27.3	8	17.0	230	1.25	112	0.36	7.2	0.24	24.6	74	14	16.7	
E5564437 (9670329)	0.03	1.6	43	1.7	105	0.39	0.4	0.46	2.0	0.29	0.07	268	<1	15.8	
E5564438 (9670330)	0.08	1.0	12	5.6	558	0.51	17.2	0.27	38.6	0.18	5.44	93	1	11.8	
E5564439 (9670331)	<0.01	0.4	<5	0.2	81.1	<0.05	2.3	0.02	15.7	<0.05	2.43	<5	4	0.8	
E5564440 (9670332)	<0.01	0.4	<5	0.2	61.9	<0.05	1.9	0.01	12.3	<0.05	2.71	<5	3	<0.5	
E5564441 (9670333)	<0.01	1.9	<5	1.3	82.7	0.30	0.3	0.04	<0.5	0.20	0.05	10	<1	12.2	
E5564442 (9670334)	<0.01	0.3	<5	0.4	43.6	0.07	2.8	0.01	22.0	<0.05	3.70	<5	3	2.4	
E5564443 (9670335)	<0.01	0.6	<5	<0.1	31.9	<0.05	3.5	0.01	15.5	<0.05	4.01	<5	3	<0.5	
E5564444 (9670336)	<0.01	0.6	<5	0.1	23.5	<0.05	4.2	<0.01	7.9	<0.05	7.61	<5	3	0.8	
E5564445 (9670337)	<0.01	0.6	<5	0.1	24.8	<0.05	6.7	<0.01	3.8	<0.05	7.51	<5	2	0.7	
E5564446 (9670338)	<0.01	1.1	43	1.7	79.2	0.44	0.5	0.45	1.7	0.29	1.34	268	3	17.6	
E5564447 (9670339)	0.09	1.7	37	1.4	81.8	0.38	0.4	0.41	<0.5	0.28	0.08	231	<1	15.2	
E5564448 (9670340)	0.05	0.8	42	1.4	101	0.40	0.3	0.46	<0.5	0.27	0.09	263	<1	15.2	
E5564449 (9670341)	0.04	1.6	45	1.5	80.3	0.40	0.3	0.46	0.6	0.27	0.07	272	<1	16.0	
E5564450 (9670342)	<0.01	1.8	33	1.2	68.4	0.32	0.2	0.35	<0.5	0.21	0.05	210	<1	13.1	
E5564451 (9670343)	<0.01	0.2	<5	0.1	1.4	<0.05	0.6	0.03	<0.5	<0.05	0.19	<5	<1	1.0	
E5564452 (9670344)	0.07	1.5	43	1.6	110	0.38	0.3	0.45	<0.5	0.31	0.07	262	<1	16.2	
E5564453 (9670345)	0.06	1.0	41	1.5	93.7	0.37	0.2	0.43	<0.5	0.24	0.07	254	<1	15.5	
E5564454 (9670346)	0.06	0.8	42	1.5	93.2	0.40	0.3	0.44	<0.5	0.29	0.11	257	<1	16.0	
E5564455 (9670347)	0.50	<0.1	14	1.9	114	0.35	2.2	0.29	<0.5	0.19	0.91	117	<1	13.4	
E5564456 (9670348)	0.42	0.1	40	2.4	141	0.57	0.5	0.59	<0.5	0.39	0.66	310	<1	22.5	
E5564457 (9670349)	0.51	0.2	38	2.2	194	0.53	0.8	0.60	0.8	0.35	0.40	293	<1	21.5	
E5564458 (9670350)	0.21	0.3	36	2.1	197	0.48	1.4	0.57	1.6	0.31	0.71	276	<1	19.1	
E5564459 (9670351)	0.01	11.6	10	45.4	318	2.89	94.9	0.51	11.6	0.31	16.3	63	5	27.3	
E5564460 (9670352)	0.22	0.2	43	2.5	329	0.55	0.7	0.63	0.5	0.37	0.72	334	1	22.3	
E5564461 (9670353)	0.24	0.4	40	2.2	300	0.54	0.5	0.61	<0.5	0.40	0.61	315	1	23.0	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
E5564462 (9670354)	0.07	0.4	42	3.5	228	0.64	0.7	0.63	0.6	0.37	0.47	301	1	22.9	
E5564463 (9670355)	<0.01	0.3	<5	0.1	43.5	<0.05	3.3	<0.01	21.2	<0.05	2.64	<5	<1	<0.5	
E5564464 (9670356)	<0.01	0.4	42	2.3	238	0.56	0.9	0.65	1.9	0.37	1.53	314	2	22.2	
E5564465 (9670357)	<0.01	0.2	<5	0.1	33.4	<0.05	3.7	<0.01	17.1	<0.05	3.56	<5	<1	<0.5	
E5564466 (9670358)	<0.01	0.3	<5	0.1	22.6	<0.05	3.6	<0.01	10.0	<0.05	3.12	<5	<1	<0.5	
E5564467 (9670359)	<0.01	0.1	<5	<0.1	29.6	<0.05	3.2	<0.01	13.0	<0.05	2.51	<5	<1	<0.5	
E5564468 (9670360)	<0.01	<0.1	<5	<0.1	14.3	<0.05	2.7	<0.01	3.7	<0.05	1.47	<5	<1	<0.5	
E5564469 (9670361)	<0.01	0.1	<5	0.1	14.8	<0.05	2.3	<0.01	5.5	<0.05	1.64	<5	<1	<0.5	
E5564470 (9670362)	<0.01	0.2	<5	0.1	22.0	<0.05	3.8	<0.01	8.2	<0.05	3.48	<5	<1	<0.5	
E5564471 (9670363)	<0.01	0.2	<5	0.3	0.6	<0.05	0.8	0.03	<0.5	<0.05	0.18	<5	<1	1.2	
E5564472 (9670364)	0.10	0.8	43	2.6	180	0.58	0.7	0.64	8.1	0.38	1.69	326	<1	22.9	
E5564473 (9670365)	0.30	1.2	32	2.0	248	0.48	1.4	0.50	6.8	0.32	4.01	258	1	18.4	
E5564474 (9670366)	0.11	0.7	7	0.4	95.8	0.07	1.7	0.11	6.4	0.07	2.94	61	<1	3.3	
E5564475 (9670367)	0.22	0.5	43	2.5	130	0.60	0.7	0.66	1.9	0.39	0.55	324	<1	23.3	
E5564476 (9670368)	0.02	30.8	8	18.0	227	1.35	116	0.37	7.7	0.24	25.1	75	14	18.5	
E5564477 (9670369)	0.10	0.4	43	2.5	148	0.58	0.5	0.64	1.4	0.37	0.42	321	<1	22.7	
E5564478 (9670370)	0.04	0.4	45	2.2	102	0.58	0.4	0.64	0.9	0.39	0.50	317	<1	22.4	
E5564479 (9670371)	<0.01	0.8	<5	0.2	41.2	<0.05	1.5	0.02	17.8	<0.05	2.49	7	<1	0.6	
E5564480 (9670372)	<0.01	0.7	<5	<0.1	43.1	<0.05	1.4	<0.01	25.0	<0.05	2.02	<5	<1	<0.5	
E5564481 (9670373)	<0.01	1.4	<5	0.1	28.6	<0.05	5.2	0.02	4.2	<0.05	7.03	10	2	0.9	
E5564482 (9670374)	0.08	0.6	39	1.8	120	0.40	0.3	0.52	7.1	0.30	0.72	273	<1	17.6	
E5564483 (9670375)	0.06	0.4	34	1.5	128	0.39	0.3	0.46	1.2	0.25	0.31	242	<1	15.3	
E5564484 (9670376)	0.10	0.2	36	1.8	134	0.39	0.3	0.48	0.6	0.27	0.18	249	<1	16.2	
E5564485 (9670377)	0.13	0.2	31	4.7	424	0.60	4.3	0.51	0.5	0.24	1.07	220	<1	16.7	
E5564486 (9670378)	0.11	0.2	42	1.8	140	0.46	0.3	0.50	0.6	0.30	0.40	269	<1	18.0	
E5564487 (9670379)	0.07	0.2	33	1.5	148	0.36	0.2	0.45	0.5	0.24	0.18	233	<1	14.2	
E5564488 (9670380)	0.15	0.2	36	1.7	143	0.41	0.2	0.45	<0.5	0.30	0.13	244	<1	16.3	
E5564489 (9670381)	0.15	0.3	39	1.4	137	0.41	0.2	0.45	<0.5	0.29	0.09	249	<1	15.2	
E5564490 (9670382)	0.05	0.1	46	1.6	116	0.37	0.2	0.47	<0.5	0.26	0.12	275	<1	14.8	
E5564491 (9670383)	<0.01	0.2	<5	0.3	1.0	<0.05	0.7	0.03	<0.5	<0.05	0.19	<5	<1	1.1	
E5564492 (9670384)	0.06	0.2	46	1.5	123	0.42	0.3	0.48	1.2	0.24	0.36	270	<1	15.5	
E5564493 (9670385)	<0.01	0.6	<5	0.2	52.7	<0.05	4.1	0.03	4.9	<0.05	5.05	15	1	1.5	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Nov 14, 2018					SAMPLE TYPE: Drill Core				
Analyte:	S	Sb	Sc	Sm	Sr	Tb	Th	Ti	Tl	Tm	U	V	W	Y	
Unit:	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	0.01	0.1	5	0.1	0.1	0.05	0.1	0.01	0.5	0.05	0.05	5	1	0.5	
Sample ID (AGAT ID)															
E5564494 (9670386)	0.39	0.7	54	3.0	139	0.72	0.6	0.81	6.4	0.48	1.20	370	2	29.2	
E5564495 (9670387)	0.30	1.2	24	1.8	83.4	0.42	3.2	0.43	4.6	0.27	5.59	179	2	16.3	
E5564496 (9670388)	0.50	0.5	52	3.3	129	0.73	0.6	1.06	1.7	0.49	0.34	419	2	27.7	
E5564497 (9670389)	0.26	0.4	50	2.6	162	0.56	0.4	0.74	<0.5	0.38	0.18	360	1	22.2	
E5564498 (9670390)	0.27	0.6	56	3.3	130	0.73	0.6	0.96	4.0	0.48	0.31	470	2	27.6	
E5564499 (9670391)	0.01	11.4	10	44.3	290	2.84	92.8	0.47	11.2	0.28	16.7	64	5	27.4	
E5564500 (9670392)	0.26	0.4	53	2.6	175	0.62	0.5	0.82	0.9	0.40	0.53	402	1	22.6	
E5564501 (9670393)	0.14	0.3	8	1.5	92.8	0.23	2.0	0.21	5.4	0.10	1.64	59	<1	6.2	
E5564502 (9670394)	<0.01	0.1	8	2.5	83.9	0.30	2.7	0.27	0.7	0.11	0.78	58	<1	7.8	
E5564503 (9670395)	<0.01	<0.1	8	2.3	105	0.29	2.8	0.28	<0.5	0.10	0.81	59	<1	7.3	

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AGAT WORK ORDER: 18B404778

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Nov 14, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564430 (9670322)		1.8	90	38.7
E5564431 (9670323)		0.2	<5	24.5
E5564432 (9670324)		1.7	83	36.7
E5564433 (9670325)		1.8	87	40.3
E5564434 (9670326)		1.8	134	39.1
E5564435 (9670327)		1.8	84	38.1
E5564436 (9670328)		1.4	359	153
E5564437 (9670329)		1.8	105	37.6
E5564438 (9670330)		1.1	132	144
E5564439 (9670331)		<0.1	134	9.0
E5564440 (9670332)		<0.1	118	9.9
E5564441 (9670333)		1.4	364	28.3
E5564442 (9670334)		0.2	126	6.8
E5564443 (9670335)		<0.1	111	4.1
E5564444 (9670336)		<0.1	72	22.1
E5564445 (9670337)		<0.1	26	37.3
E5564446 (9670338)		1.9	47	39.1
E5564447 (9670339)		1.7	103	36.0
E5564448 (9670340)		1.7	121	35.7
E5564449 (9670341)		1.7	170	36.8
E5564450 (9670342)		1.4	118	30.8
E5564451 (9670343)		0.1	<5	20.4
E5564452 (9670344)		1.8	89	38.8
E5564453 (9670345)		1.6	85	35.6
E5564454 (9670346)		1.7	84	37.0
E5564455 (9670347)		1.3	73	113
E5564456 (9670348)		2.4	117	56.8
E5564457 (9670349)		2.2	136	61.9
E5564458 (9670350)		1.8	94	64.1
E5564459 (9670351)		1.7	157	209
E5564460 (9670352)		2.3	90	58.8
E5564461 (9670353)		2.3	105	58.0

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AGAT WORK ORDER: 18B404778

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Nov 14, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564462 (9670354)		2.4	99	59.5
E5564463 (9670355)		<0.1	<5	12.9
E5564464 (9670356)		2.3	65	60.5
E5564465 (9670357)		<0.1	6	18.2
E5564466 (9670358)		<0.1	8	8.8
E5564467 (9670359)		<0.1	25	7.7
E5564468 (9670360)		<0.1	8	6.4
E5564469 (9670361)		<0.1	<5	4.4
E5564470 (9670362)		<0.1	14	10.9
E5564471 (9670363)		0.1	5	20.2
E5564472 (9670364)		2.5	117	61.4
E5564473 (9670365)		1.8	90	51.1
E5564474 (9670366)		0.3	42	17.0
E5564475 (9670367)		2.5	114	66.2
E5564476 (9670368)		1.4	356	170
E5564477 (9670369)		2.3	96	60.8
E5564478 (9670370)		2.2	95	56.8
E5564479 (9670371)		<0.1	<5	6.2
E5564480 (9670372)		<0.1	<5	2.8
E5564481 (9670373)		0.1	69	11.5
E5564482 (9670374)		1.9	92	44.8
E5564483 (9670375)		1.5	80	38.3
E5564484 (9670376)		1.7	66	40.5
E5564485 (9670377)		1.5	77	89.4
E5564486 (9670378)		1.8	60	43.6
E5564487 (9670379)		1.5	61	34.5
E5564488 (9670380)		1.7	63	39.4
E5564489 (9670381)		1.5	75	36.7
E5564490 (9670382)		1.6	77	36.0
E5564491 (9670383)		0.1	5	21.8
E5564492 (9670384)		1.6	78	36.8
E5564493 (9670385)		0.1	49	11.9

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Nov 14, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Yb ppm 0.1	Zn ppm 5	Zr ppm 0.5
E5564494 (9670386)		3.0	90	72.8
E5564495 (9670387)		1.8	57	59.1
E5564496 (9670388)		2.9	92	97.2
E5564497 (9670389)		2.5	79	67.1
E5564498 (9670390)		3.0	113	83.5
E5564499 (9670391)		1.6	141	207
E5564500 (9670392)		2.4	79	68.6
E5564501 (9670393)		0.5	27	84.8
E5564502 (9670394)		0.7	91	134
E5564503 (9670395)		0.6	40	136

Comments: RDL - Reported Detection Limit

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 18B404778

PROJECT:

5623 McADAM ROAD
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CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 01, 2018 DATE RECEIVED: Oct 30, 2018 DATE REPORTED: Nov 14, 2018 SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
E5564430 (9670322)		83
E5564449 (9670341)		89
E5564469 (9670361)		85
E5564489 (9670381)		79

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

(201-049) Specific Gravity by Pycnometer

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Specific Gravity	9670322	3.09	3.10	0.3%	9670336	2.68	2.68	0.0%	9670347	2.94	2.95	0.3%	9670361	2.69	2.67	0.7%
	REPLICATE #5				REPLICATE #6											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Specific Gravity	9670373	2.67	2.67	0.0%	9670386	3.03	3.03	0.0%								

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Li	9670322	308	306	0.7%	9670336	1460	1440	1.4%	9670347	68	68	0.0%	9670361	27	24	11.8%
Li2O	9670322	0.066	0.066	0.0%	9670336	0.313	0.309	1.3%	9670347	0.015	0.015	0.0%	9670361	0.0059	0.0051	14.5%
Ta	9670322	< 0.5	< 0.5	0.0%	9670336	182	196	7.4%	9670347	< 0.5	< 0.5	0.0%	9670361	70.7	80.6	13.1%
Nb	9670322	2	2	0.0%	9670336	97	103	6.0%	9670347	5	5	0.0%	9670361	60	64	6.5%
Sn	9670322	4	3	28.6%	9670336	27	24	11.8%	9670347	5	3		9670361	6	4	
Cs	9670322	4.47	4.40	1.6%	9670336	152	138	9.7%	9670347	5.93	6.98	16.3%	9670361	61.9	61.5	0.6%
Rb	9670322	5.0	5.1	2.0%	9670336	1130	1040	8.3%	9670347	57.2	61.9	7.9%	9670361	704	686	2.6%
K	9670322	0.15	0.15	0.0%	9670336	0.811	0.828	2.1%	9670347	1.18	1.20	1.7%	9670361	1.24	1.24	0.0%
Mg	9670322	5.43	5.13	5.7%	9670336	0.06	0.06	0.0%	9670347	1.45	1.45	0.0%	9670361	0.01	0.01	0.0%
Fe	9670322	9.10	9.15	0.5%	9670336	0.43	0.43	0.0%	9670347	5.81	5.92	1.9%	9670361	0.294	0.301	2.4%
P	9670322	0.03	0.03	0.0%	9670336	0.20	0.20	0.0%	9670347	0.056	0.054	3.6%	9670361	0.12	0.12	0.0%
Al	9670322	7.90	7.80	1.3%	9670336	8.93	8.99	0.7%	9670347	6.71	6.86	2.2%	9670361	8.00	8.08	1.0%
Si	9670322	23.7	23.3	1.7%	9670336	35.0	35.3	0.9%	9670347	30.3	30.5	0.7%	9670361	37.0	37.5	1.3%
Be	9670322	< 5	< 5	0.0%	9670336	500	450	10.5%	9670347	< 5	< 5	0.0%	9670361	97	93	4.2%
B	9670322	< 20	< 20	0.0%	9670336	< 20	< 20	0.0%	9670347	< 20	< 20	0.0%	9670361	< 20	< 20	0.0%
Mn	9670322	1540	1540	0.0%	9670336	973	955	1.9%	9670347	1450	1480	2.0%	9670361	130	136	4.5%
Mo	9670322	2	2	0.0%	9670336	6	6	0.0%	9670347	6	6	0.0%	9670361	6	6	0.0%
Bi	9670322	< 0.1	< 0.1	0.0%	9670336	2.4	2.0	18.2%	9670347	0.45	0.51	12.5%	9670361	0.54	0.56	3.6%
As	9670322	< 5	< 5	0.0%	9670336	< 5	< 5	0.0%	9670347	< 5	< 5	0.0%	9670361	< 5	< 5	0.0%
Ag	9670322	< 1	< 1	0.0%	9670336	< 1	< 1	0.0%	9670347	< 1	< 1	0.0%	9670361	< 1	< 1	0.0%
Ba	9670322	25.2	23.7	6.1%	9670336	4.72	5.00	5.8%	9670347	114	111	2.7%	9670361	23.2	22.5	3.1%
Ca	9670322	7.81	7.66	1.9%	9670336	0.467	0.486	4.0%	9670347	3.71	3.72	0.3%	9670361	0.306	0.303	1.0%
Cd	9670322	< 0.2	< 0.2	0.0%	9670336	< 0.2	< 0.2	0.0%	9670347	< 0.2	0.3		9670361	< 0.2	< 0.2	0.0%
Ce	9670322	6.3	6.4	1.6%	9670336	1.57	1.41	10.7%	9670347	19.4	20.3	4.5%	9670361	0.91	0.98	7.4%



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Co	9670322	57.1	57.0	0.2%	9670336	1.3	1.1	16.7%	9670347	20.5	20.9	1.9%	9670361	0.75	0.73	2.7%
Cr	9670322	0.0355	0.0322	9.7%	9670336	0.010	0.010	0.0%	9670347	0.011	0.012	8.7%	9670361	0.009	0.009	0.0%
Cu	9670322	186	180	3.3%	9670336	< 5	< 5	0.0%	9670347	176	181	2.8%	9670361	5	6	18.2%
Dy	9670322	2.84	2.67	6.2%	9670336	0.16	0.16	0.0%	9670347	2.07	2.16	4.3%	9670361	< 0.05	< 0.05	0.0%
Er	9670322	1.79	1.77	1.1%	9670336	0.06	< 0.05		9670347	1.32	1.42	7.3%	9670361	< 0.05	< 0.05	0.0%
Eu	9670322	0.632	0.602	4.9%	9670336	0.06	< 0.05		9670347	0.64	0.75	15.8%	9670361	0.05	< 0.05	
Ga	9670322	15.1	15.0	0.7%	9670336	49.5	44.3	11.1%	9670347	18.8	19.4	3.1%	9670361	38.1	37.4	1.9%
Gd	9670322	2.41	2.21	8.7%	9670336	0.101	0.094	7.2%	9670347	1.97	2.21	11.5%	9670361	0.15	0.12	22.2%
Ge	9670322	2	2	0.0%	9670336	8	7	13.3%	9670347	2	2	0.0%	9670361	6	6	0.0%
Hf	9670322	1	1	0.0%	9670336	3	3	0.0%	9670347	3	3	0.0%	9670361	< 1	< 1	0.0%
Ho	9670322	0.69	0.67	2.9%	9670336	< 0.05	< 0.05	0.0%	9670347	0.47	0.55	15.7%	9670361	< 0.05	< 0.05	0.0%
In	9670322	< 0.2	< 0.2	0.0%	9670336	< 0.2	< 0.2	0.0%	9670347	< 0.2	< 0.2	0.0%	9670361	< 0.2	< 0.2	0.0%
La	9670322	2.3	2.4	4.3%	9670336	0.91	0.83	9.2%	9670347	8.43	9.21	8.8%	9670361	0.4	0.4	0.0%
Lu	9670322	0.28	0.30	6.9%	9670336	< 0.05	< 0.05	0.0%	9670347	0.19	0.21	10.0%	9670361	< 0.05	< 0.05	0.0%
Nd	9670322	5.2	5.0	3.9%	9670336	0.5	0.4	22.2%	9670347	9.4	9.8	4.2%	9670361	0.8	0.8	0.0%
Ni	9670322	179	173	3.4%	9670336	19	20	5.1%	9670347	62	55	12.0%	9670361	15	17	12.5%
Pb	9670322	< 5	< 5	0.0%	9670336	< 5	< 5	0.0%	9670347	9	9	0.0%	9670361	5	6	18.2%
Pr	9670322	1.00	1.00	0.0%	9670336	0.15	0.13	14.3%	9670347	2.44	2.52	3.2%	9670361	0.131	0.138	5.2%
S	9670322	0.118	0.101	15.5%	9670336	< 0.01	< 0.01	0.0%	9670347	0.50	0.47	6.2%	9670361	< 0.01	< 0.01	0.0%
Sb	9670322	0.15	0.12	22.2%	9670336	0.6	0.5	18.2%	9670347	< 0.1	< 0.1	0.0%	9670361	0.1	< 0.1	
Sc	9670322	43	42	2.4%	9670336	< 5	< 5	0.0%	9670347	14	14	0.0%	9670361	< 5	< 5	0.0%
Sm	9670322	1.7	1.7	0.0%	9670336	0.1	0.1	0.0%	9670347	1.9	1.9	0.0%	9670361	0.1	0.1	0.0%
Sr	9670322	73.8	73.6	0.3%	9670336	23.5	24.6	4.6%	9670347	114	116	1.7%	9670361	14.8	14.5	2.0%
Tb	9670322	0.383	0.401	4.6%	9670336	< 0.05	< 0.05	0.0%	9670347	0.35	0.37	5.6%	9670361	< 0.05	< 0.05	0.0%
Th	9670322	0.3	0.3	0.0%	9670336	4.2	3.8	10.0%	9670347	2.2	2.2	0.0%	9670361	2.29	2.36	3.0%
Ti	9670322	0.45	0.45	0.0%	9670336	< 0.01	< 0.01	0.0%	9670347	0.292	0.302	3.4%	9670361	< 0.01	< 0.01	0.0%
Tl	9670322	< 0.5	< 0.5	0.0%	9670336	7.9	6.8	15.0%	9670347	< 0.5	< 0.5	0.0%	9670361	5.52	5.71	3.4%
Tm	9670322	0.287	0.248	14.6%	9670336	< 0.05	< 0.05	0.0%	9670347	0.19	0.22	14.6%	9670361	< 0.05	< 0.05	0.0%
U	9670322	0.091	0.097	6.4%	9670336	7.61	6.97	8.8%	9670347	0.912	1.01	10.2%	9670361	1.64	1.71	4.2%
V	9670322	262	260	0.8%	9670336	< 5	< 5	0.0%	9670347	117	118	0.9%	9670361	< 5	< 5	0.0%
W	9670322	< 1	< 1	0.0%	9670336	3	2		9670347	< 1	< 1	0.0%	9670361	< 1	< 1	0.0%
Y	9670322	16.4	15.8	3.7%	9670336	0.84	0.74	12.7%	9670347	13.4	13.9	3.7%	9670361	< 0.5	< 0.5	0.0%
Yb	9670322	1.8	1.8	0.0%	9670336	< 0.1	< 0.1	0.0%	9670347	1.3	1.3	0.0%	9670361	< 0.1	< 0.1	0.0%
Zn	9670322	90	90	0.0%	9670336	72	70	2.8%	9670347	73	84	14.0%	9670361	< 5	< 5	0.0%



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Zr	9670322	38.7	39.2	1.3%	9670336	22.1	19.6	12.0%	9670347	113	117	3.5%	9670361	4.4	3.5	22.8%
	REPLICATE #5				REPLICATE #6											
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Li	9670373	1470	1580	7.2%	9670386	646	661	2.3%								
Li2O	9670373	0.316	0.339	7.0%	9670386	0.139	0.142	2.1%								
Ta	9670373	236	244	3.3%	9670386	0.6	0.6	0.0%								
Nb	9670373	66	66	0.0%	9670386	6	6	0.0%								
Sn	9670373	17	19	11.1%	9670386	5	6	18.2%								
Cs	9670373	333	381	13.4%	9670386	415	417	0.5%								
Rb	9670373	532	580	8.6%	9670386	682	687	0.7%								
K	9670373	0.45	0.50	10.5%	9670386	1.45	1.47	1.4%								
Mg	9670373	0.177	0.186	5.0%	9670386	3.42	3.50	2.3%								
Fe	9670373	0.667	0.572	15.3%	9670386	9.42	9.41	0.1%								
P	9670373	0.18	0.18	0.0%	9670386	0.06	0.06	0.0%								
Al	9670373	8.29	8.37	1.0%	9670386	7.55	7.72	2.2%								
Si	9670373	35.3	35.2	0.3%	9670386	24.7	24.9	0.8%								
Be	9670373	84	73	14.0%	9670386	20	20	0.0%								
B	9670373	22	19	14.6%	9670386	29	33	12.9%								
Mn	9670373	1930	1850	4.2%	9670386	1980	2010	1.5%								
Mo	9670373	7	6	15.4%	9670386	4	4	0.0%								
Bi	9670373	10.7	8.2	26.5%	9670386	1.24	1.29	4.0%								
As	9670373	< 5	< 5	0.0%	9670386	< 5	< 5	0.0%								
Ag	9670373	< 1	< 1	0.0%	9670386	< 1	< 1	0.0%								
Ba	9670373	48.0	49.3	2.7%	9670386	275	277	0.7%								
Ca	9670373	0.86	0.86	0.0%	9670386	5.51	5.51	0.0%								
Cd	9670373	< 0.2	< 0.2	0.0%	9670386	< 0.2	< 0.2	0.0%								
Ce	9670373	0.76	0.72	5.4%	9670386	10.7	10.4	2.8%								
Co	9670373	2.82	3.28	15.1%	9670386	44.3	44.8	1.1%								
Cr	9670373	0.013	0.013	0.0%	9670386	0.011	0.011	0.0%								
Cu	9670373	17	9		9670386	107	105	1.9%								
Dy	9670373	0.12	0.12	0.0%	9670386	4.85	4.60	5.3%								
Er	9670373	0.10	0.10	0.0%	9670386	3.08	2.93	5.0%								
Eu	9670373	0.060	0.045	28.6%	9670386	1.05	1.26	18.2%								
Ga	9670373	40.6	41.2	1.5%	9670386	21.2	21.1	0.5%								



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Gd	9670373	0.17	0.12		9670386	3.79	3.71	2.1%									
Ge	9670373	8	7	13.3%	9670386	3	3	0.0%									
Hf	9670373	2	2	0.0%	9670386	2	2	0.0%									
Ho	9670373	< 0.05	< 0.05	0.0%	9670386	1.15	1.13	1.8%									
In	9670373	< 0.2	< 0.2	0.0%	9670386	< 0.2	< 0.2	0.0%									
La	9670373	0.4	0.4	0.0%	9670386	3.47	3.66	5.3%									
Lu	9670373	< 0.05	< 0.05	0.0%	9670386	0.506	0.500	1.2%									
Nd	9670373	0.46	0.42	9.1%	9670386	8.8	9.5	7.7%									
Ni	9670373	20	26	26.1%	9670386	58	55	5.3%									
Pb	9670373	6	5	18.2%	9670386	9	9	0.0%									
Pr	9670373	0.11	0.11	0.0%	9670386	1.84	1.82	1.1%									
S	9670373	< 0.01	< 0.01	0.0%	9670386	0.39	0.41	5.0%									
Sb	9670373	1.4	1.3	7.4%	9670386	0.7	0.7	0.0%									
Sc	9670373	< 5	< 5	0.0%	9670386	54	53	1.9%									
Sm	9670373	0.1	< 0.1		9670386	3.0	3.0	0.0%									
Sr	9670373	28.6	28.2	1.4%	9670386	139	138	0.7%									
Tb	9670373	< 0.05	< 0.05	0.0%	9670386	0.72	0.74	2.7%									
Th	9670373	5.2	3.7		9670386	0.61	0.51	17.9%									
Ti	9670373	0.025	0.026	3.9%	9670386	0.81	0.82	1.2%									
Tl	9670373	4.2	4.6	9.1%	9670386	6.4	6.3	1.6%									
Tm	9670373	< 0.05	< 0.05	0.0%	9670386	0.480	0.496	3.3%									
U	9670373	7.03	7.03	0.0%	9670386	1.20	1.12	6.9%									
V	9670373	10	11	9.5%	9670386	370	370	0.0%									
W	9670373	2	2	0.0%	9670386	2	2	0.0%									
Y	9670373	0.9	0.9	0.0%	9670386	29.2	28.9	1.0%									
Yb	9670373	0.1	0.1	0.0%	9670386	3.04	3.18	4.5%									
Zn	9670373	69	74	7.0%	9670386	90	172										
Zr	9670373	11.5	12.4	7.5%	9670386	72.8	73.1	0.4%									



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(201-049) Specific Gravity by Pycnometer

Parameter	CRM #1				CRM #2				CRM #3				CRM #4			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Specific Gravity	2.65	2.64	99%	95% - 110%	2.65	2.66	100%	95% - 110%	2.65	2.64	99%	95% - 110%	2.65	2.67	100%	95% - 110%
Parameter	CRM #5				CRM #6											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Specific Gravity	2.65	2.66	100%	95% - 110%	2.65	2.66	100%	95% - 110%								

(201-378) Ardiden Lithium - Sodium Peroxide Fusion - ICP-OES/ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GBM998-10)				CRM #4 (ref.SY-4)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Li	37	39	104%	90% - 110%	47	52	110%	90% - 110%					37	40	107%	90% - 110%
Ta	0.9	0.7	80%	90% - 110%	1.9	1.6	84%	90% - 110%					0.9	0.7	80%	90% - 110%
Nb	13	13	102%	90% - 110%	20	20	99%	90% - 110%					13	14	105%	90% - 110%
Cs	1.5	1.7	111%	90% - 110%												
Rb	55	51	92%	90% - 110%	144	149	104%	90% - 110%					55	60	109%	90% - 110%
K	1.37	1.45	106%	90% - 110%	2.55	2.59	101%	90% - 110%					1.37	1.34	98%	90% - 110%
Mg	0.325	0.315	97%	90% - 110%	1.1	1.2	105%	90% - 110%					0.325	0.316	97%	90% - 110%
Fe	4.34	4.35	100%	90% - 110%	3.77	3.92	104%	90% - 110%					4.34	4.19	96%	90% - 110%
Al	10.95	11.23	103%	90% - 110%	8.47	8.55	101%	90% - 110%					10.95	10.72	98%	90% - 110%
Si	23.3	24.7	106%	90% - 110%	28.4	30.8	108%	90% - 110%					23.3	23.6	101%	90% - 110%
Be	2.6	2.9	110%	90% - 110%	4.0	3.7	92%	90% - 110%								
Mn	836	844	101%	90% - 110%	780	790	101%	90% - 110%					836	807	96%	90% - 110%
Mo					14	13	92%	90% - 110%								
As					26	26	99%	90% - 110%	25	24	95%	90% - 110%				
Ba	340	345	101%	90% - 110%	540	555	103%	90% - 110%					340	336	99%	90% - 110%
Ca	5.72	5.89	103%	90% - 110%	0.907	0.964	106%	90% - 110%					5.72	5.55	97%	90% - 110%
Ce	122	122	100%	90% - 110%	98	107	110%	90% - 110%					122	131	108%	90% - 110%
Co	2.8	2.8	100%	90% - 110%	15	15	102%	90% - 110%	1202	1320	110%	90% - 110%	2.8	3	107%	90% - 110%
Cu					150	164	109%	90% - 110%	15414	14390	93%	90% - 110%				
Dy	18.2	18.7	103%	90% - 110%									18.2	19.9	109%	90% - 110%
Er	14.2	14	98%	90% - 110%	3.7	4	109%	90% - 110%					14.2	15.1	106%	90% - 110%
Eu	2.0	2.1	103%	90% - 110%									2.0	2.2	109%	90% - 110%
Ga	35	33	96%	90% - 110%									35	38	110%	90% - 110%
Gd	14	14	100%	90% - 110%									14	16	112%	90% - 110%



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Hf	10.6	10.9	103%	90% - 110%	11	11	98%	90% - 110%					10.6	12.6	119%	90% - 110%
Ho	4.3	4.6	108%	90% - 110%									4.3	5.1	118%	90% - 110%
La	58	57	98%	90% - 110%	44	48	109%	90% - 110%					58	61	106%	90% - 110%
Lu	2.1	2.1	98%	90% - 110%	0.6	0.6	100%	90% - 110%					2.1	2.3	110%	90% - 110%
Nd	57	56	98%	90% - 110%									57	62	109%	90% - 110%
Ni									23610	22518	95%	90% - 110%				
Pb	10	10	102%	90% - 110%	31	33	105%	90% - 110%	41	45	109%	90% - 110%	10	11	108%	90% - 110%
Pr	15.0	15	100%	90% - 110%									15.0	16.4	109%	90% - 110%
Sb					0.8	0.7	85%	90% - 110%								
Sc					12	13	108%	90% - 110%								
Sm	12.7	11.8	93%	90% - 110%	7.4	8.1	109%	90% - 110%					12.7	12.9	101%	90% - 110%
Sr	1191	1239	104%	90% - 110%	144	156	109%	90% - 110%					1191	1167	98%	90% - 110%
Tb	2.6	2.7	103%	90% - 110%	1.2	1.2	100%	90% - 110%					2.6	2.8	109%	90% - 110%
Th	1.4	1.5	106%	90% - 110%	18.4	18.8	102%	90% - 110%					1.4	1.5	104%	90% - 110%
Ti	0.172	0.17	99%	90% - 110%	0.527	0.523	99%	90% - 110%					0.172	0.161	94%	90% - 110%
Tm	2.3	2.4	105%	90% - 110%									2.3	2.5	110%	90% - 110%
U	0.8	0.8	102%	90% - 110%	5.7	5.8	102%	90% - 110%					0.8	0.9	109%	90% - 110%
V					77	84	109%	90% - 110%								
W					5	5	102%	90% - 110%								
Y	119	111	93%	90% - 110%	40	39	97%	90% - 110%					119	130	109%	90% - 110%
Yb	14.8	14.6	99%	90% - 110%									14.8	16.1	109%	90% - 110%
Zn	93	97	105%	90% - 110%	130	136	105%	90% - 110%	90	88	97%	90% - 110%	93	94	101%	90% - 110%
Zr	517	506	98%	90% - 110%	390	373	96%	90% - 110%					517	618	119%	90% - 110%
CRM #5 (ref.Till-2)																
Parameter	Expect	Actual	Recovery	Limits												
Li	47	47	100%	90% - 110%												
Ta	1.9	1.5	79%	90% - 110%												
Nb	20	20	100%	90% - 110%												
Rb	144	149	103%	90% - 110%												
K	2.55	2.46	96%	90% - 110%												
Mg	1.1	1.1	104%	90% - 110%												
Fe	3.77	3.8	101%	90% - 110%												
Al	8.47	8.34	98%	90% - 110%												
Si	28.4	30.5	108%	90% - 110%												



CLIENT NAME: ARDIDEN LTD

ATTENTION TO: Brad Boyle

Be	4.0	4.2	106%	90% - 110%																
Mn	780	785	101%	90% - 110%																
Mo	14	14	98%	90% - 110%																
As	26	24	92%	90% - 110%																
Ba	540	547	101%	90% - 110%																
Ca	0.907	0.91	100%	90% - 110%																
Ce	98	98	100%	90% - 110%																
Co	15	15	102%	90% - 110%																
Cu	150	159	106%	90% - 110%																
Er	3.7	3.7	100%	90% - 110%																
Hf	11	10	89%	90% - 110%																
La	44	43	99%	90% - 110%																
Lu	0.6	0.6	94%	90% - 110%																
Pb	31	32	103%	90% - 110%																
Sb	0.8	0.8	103%	90% - 110%																
Sc	12	13	107%	90% - 110%																
Sm	7.4	7.2	97%	90% - 110%																
Sr	144	150	104%	90% - 110%																
Tb	1.2	1.1	91%	90% - 110%																
Th	18.4	17.1	93%	90% - 110%																
Ti	0.527	0.507	96%	90% - 110%																
U	5.7	5.2	91%	90% - 110%																
V	77	83	108%	90% - 110%																
W	5	5	98%	90% - 110%																
Y	40	38	94%	90% - 110%																
Zn	130	132	102%	90% - 110%																
Zr	390	352	90%	90% - 110%																



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B404778

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Specific Gravity	MIN-200-12024	ASTM D5550-06	Pycnometer
Li	MIN-200-12001		ICP/OES
Li ₂ O	MIN-200-12001		ICP/OES
Ta	MIN-200-12001		ICP-MS
Nb	MIN-200-12001		ICP-MS
Sn	MIN-200-12001		ICP/MS
Cs	MIN-200-12001		ICP-MS
Rb	MIN-200-12001		ICP/MS
K	MIN-200-12001		ICP/OES
Mg	MIN-200-12001		ICP/OES
Fe	MIN-200-12001		ICP/OES
P			ICP/OES
Al	MIN-200-12001		ICP/OES
Si	MIN-200-12001		ICP/OES
Be	MIN-200-12001		ICP/OES
B	MIN-200-12001		ICP/OES
Mn	MIN-200-12001		ICP/OES
Mo	MIN-200-12001		ICP/MS
Bi	MIN-200-12001		ICP-MS
As	MIN-200-12001		ICP/MS
Ag			ICP/MS
Ba	MIN-200-12001		ICP/OES
Ca	MIN-200-12001		ICP/OES
Cd	MIN-200-12001		ICP-MS
Ce	MIN-200-12001		ICP-MS
Co	MIN-200-12001		ICP/MS
Cr	MIN-200-12001		ICP/OES
Cu	MIN-200-12001		ICP/OES
Dy	MIN-200-12001		ICP-MS
Er	MIN-200-12001		ICP-MS
Eu	MIN-200-12001		ICP-MS
Ga	MIN-200-12001		ICP-MS
Gd	MIN-200-12001		ICP-MS
Ge	MIN-200-12001		ICP-MS
Hf	MIN-200-12001		ICP-MS
Ho	MIN-200-12001		ICP-MS
In	MIN-200-12001		ICP-MS
La	MIN-200-12001		ICP-MS
Lu	MIN-200-12001		ICP-MS
Nd	MIN-200-12001		ICP-MS
Ni	MIN-200-12001		ICP/OES
Pb	MIN-200-12001		ICP/MS
Pr	MIN-200-12001		ICP-MS
S	MIN-200-12001		ICP/OES
Sb	MIN-200-12001		ICP-MS
Sc	MIN-200-12001		ICP/OES
Sm	MIN-200-12001		ICP-MS
Sr	MIN-200-12001		ICP-OES



Method Summary

CLIENT NAME: ARDIDEN LTD

AGAT WORK ORDER: 18B404778

PROJECT:

ATTENTION TO: Brad Boyle

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Tb	MIN-200-12001		ICP-MS
Th	MIN-200-12001		ICP-MS
Ti	MIN-200-12001		ICP/OES
Tl	MIN-200-12001		ICP-MS
Tm	MIN-200-12001		ICP-MS
U	MIN-200-12001		ICP-MS
V	MIN-200-12001		ICP/OES
W	MIN-200-12001		ICP-MS
Y	MIN-200-12001		ICP-MS
Yb	MIN-200-12001		ICP-MS
Zn	MIN-200-12001		ICP/OES
Zr	MIN-200-12001		ICP-MS
Pass %			BALANCE



Date Submitted: 15-Mar-18
Invoice No.: A18-03269
Invoice Date: 18-Apr-18
Your Reference: Jackpot (ILI)

Caracle Creek International
1545 Maley Drive, Suite 2018,
Sudbury ON P3A 4R7 Canada

ATTN: Scott Jobin-Bevans

CERTIFICATE OF ANALYSIS

94 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

REPORT **A18-03269**

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.

Footnote: Insuff material for LOI:588640

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with a large 'E' and 'S'.

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: A18-03269

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
588551	54.81	20.37	4.02	0.263	2.04	4.49	4.51	4.20	0.208	0.72	3.94	99.57	10	55	87	160	12	50	20	220	78	4	< 5
588552	68.39	16.52	0.92	0.084	0.17	2.90	8.18	0.33	0.022	1.23	0.45	99.20	1	89	6	20	1	< 20	40	< 30	36	5	< 5
588553	47.51	15.32	12.46	0.222	6.22	14.54	1.85	0.34	0.779	0.06	1.03	100.3	43	< 1	258	310	49	180	140	90	15	2	< 5
588554	47.77	15.75	12.05	0.227	5.69	14.35	1.44	0.39	0.799	0.05	1.22	99.72	44	2	263	300	50	170	120	90	15	2	< 5
588555	69.43	17.18	0.54	0.034	0.10	0.76	8.64	1.49	0.017	0.22	0.28	98.69	< 1	162	5	< 20	< 1	< 20	< 10	< 30	40	5	< 5
588556	70.90	16.66	0.39	0.020	0.05	0.58	8.75	1.70	0.008	0.22	0.21	99.49	< 1	48	< 5	< 20	< 1	< 20	< 10	< 30	38	6	< 5
588557	47.76	15.80	12.10	0.230	5.48	14.70	1.29	0.43	0.791	0.06	1.68	100.3	44	3	257	290	48	170	160	90	15	2	< 5
588558	48.42	15.39	12.74	0.200	7.00	12.94	2.08	0.31	0.771	0.05	0.51	100.4	43	< 1	255	300	49	180	160	90	15	1	< 5
588559	47.31	15.00	12.37	0.222	6.54	13.98	1.91	0.32	0.765	0.06	1.74	100.2	42	1	250	330	50	190	180	120	15	1	< 5
588560	73.74	14.07	0.69	0.607	0.03	0.75	0.62	6.52	0.052	< 0.01	2.12	99.22	13	5	< 5	110	< 1	< 20	170	520	29	6	46
588561	47.64	14.24	11.91	0.209	7.94	12.47	0.65	1.59	0.756	0.07	2.99	100.5	39	17	255	330	45	180	30	80	17	3	< 5
588562	73.95	13.82	1.76	0.115	0.62	0.76	3.39	2.79	0.065	0.07	1.44	98.78	3	56	16	30	3	< 20	< 10	150	52	4	< 5
588563	74.46	14.42	1.52	0.082	0.43	0.67	4.84	1.98	0.040	0.10	0.86	99.40	2	66	10	30	2	< 20	< 10	90	39	4	< 5
588564	72.79	15.47	1.51	0.096	0.55	0.87	4.95	2.54	0.044	0.17	1.23	100.2	2	147	12	20	2	< 20	< 10	110	48	4	< 5
588565	66.35	14.20	1.40	0.089	0.46	5.08	4.61	2.21	0.038	0.10	4.12	98.64	2	150	9	< 20	2	< 20	< 10	100	43	4	< 5
588566	71.06	15.40	2.04	0.121	0.89	0.64	3.94	2.96	0.051	0.18	1.56	98.84	2	50	13	20	4	< 20	< 10	130	56	4	< 5
588567	72.34	15.54	1.77	0.112	0.49	0.65	4.75	2.65	0.055	0.08	1.09	99.52	2	94	13	30	3	< 20	< 10	130	51	4	< 5
588568	72.78	16.44	1.02	0.061	0.25	0.90	6.70	1.47	0.027	0.09	0.78	100.5	1	39	7	< 20	1	< 20	< 10	60	40	4	< 5
588569	77.63	13.21	1.22	0.066	0.27	0.73	4.70	1.31	0.026	0.08	0.68	99.91	1	230	7	30	1	< 20	< 10	60	35	4	< 5
588570	98.41	0.51	0.85	0.011	0.02	0.07	0.11	0.05	0.022	< 0.01	-0.07	100.0	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
588571	72.85	15.32	1.21	0.079	0.30	0.76	5.34	1.66	0.035	0.09	0.81	98.45	2	30	8	20	2	< 20	< 10	90	41	4	< 5
588572	70.56	18.25	1.11	0.064	0.28	0.87	6.60	1.43	0.026	0.10	0.88	100.2	1	184	6	< 20	< 1	< 20	< 10	60	43	4	< 5
588573	73.65	13.85	1.78	0.106	0.52	1.09	3.70	2.35	0.041	0.41	1.12	98.61	2	65	11	60	2	< 20	< 10	100	41	3	< 5
588574	66.50	17.46	1.26	0.057	1.08	2.16	4.31	3.49	0.019	0.25	2.84	99.43	< 1	155	8	< 20	1	< 20	< 10	40	39	3	< 5
588575	73.98	15.32	1.01	0.064	0.27	0.90	5.73	1.37	0.022	0.20	0.66	99.53	1	94	6	< 20	1	< 20	< 10	50	35	4	< 5
588576	73.37	15.26	1.10	0.071	0.30	0.93	5.52	1.40	0.023	0.21	0.75	98.93	1	184	6	40	< 1	40	< 10	60	38	4	< 5
588577	71.33	15.25	1.23	0.054	0.81	2.15	4.28	2.52	0.019	0.13	2.36	100.1	< 1	68	5	< 20	1	< 20	< 10	40	34	3	< 5
588578	73.28	15.28	1.01	0.062	0.30	0.99	5.83	1.49	0.024	0.15	0.74	99.17	1	93	7	< 20	1	< 20	< 10	60	36	4	< 5
588579	70.65	14.15	2.62	0.216	1.02	1.13	0.87	4.61	0.093	0.63	2.14	98.13	4	92	23	30	6	< 20	< 10	260	77	3	< 5
588580	74.07	12.88	0.69	0.591	0.04	0.72	0.57	6.10	0.053	0.01	2.07	97.81	12	5	5	110	< 1	< 20	170	520	30	6	48
588581	74.47	13.68	1.58	0.094	0.49	0.48	3.87	2.20	0.043	0.04	1.09	98.03	2	1193	11	20	2	< 20	< 10	110	46	3	< 5
588582	75.46	13.46	1.64	0.111	0.55	0.51	3.27	2.50	0.050	0.08	1.20	98.82	2	133	13	20	3	< 20	< 10	130	50	4	< 5
588583	77.86	12.54	1.32	0.085	0.38	0.55	4.16	1.76	0.030	0.05	0.83	99.58	2	230	9	20	2	< 20	< 10	80	38	4	< 5
588584	73.78	14.68	1.07	0.017	0.64	0.86	6.23	2.07	0.002	0.11	0.69	100.2	< 1	93	< 5	< 20	2	< 20	20	< 30	26	3	< 5
588585	49.44	14.90	12.88	0.207	6.67	12.25	1.43	0.70	0.820	0.06	1.28	100.6	43	3	272	260	48	130	80	80	15	2	< 5
588586	48.46	13.90	12.78	0.222	6.91	11.82	2.31	0.59	0.758	0.06	2.12	99.94	41	2	263	240	48	140	230	80	14	2	< 5
588587	73.51	14.46	1.27	0.050	0.35	1.16	6.09	3.11	0.038	0.19	0.51	100.7	2	31	13	< 20	2	< 20	20	< 30	29	5	< 5
588588	70.54	14.61	1.58	0.059	0.34	1.40	4.83	5.10	0.100	0.56	0.44	99.57	2	43	15	< 20	2	< 20	60	< 30	26	4	< 5
588589	48.73	14.88	13.44	0.293	5.34	9.06	3.56	1.40	1.122	0.10	1.44	99.35	42	2	314	200	45	120	110	80	17	2	< 5
588590	98.00	0.45	0.94	0.011	0.02	0.04	0.12	0.06	0.015	< 0.01	-0.11	99.53	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
588591	53.95	14.75	11.30	0.261	3.61	6.86	3.79	2.08	0.933	0.12	1.39	99.04	34	6	270	160	33	70	110	60	21	2	< 5

Results

Activation Laboratories Ltd.

Report: A18-03269

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
588592	44.36	12.20	18.83	0.484	6.55	12.12	1.86	0.66	0.983	0.09	1.81	99.95	37	24	324	160	41	110	20	90	25	4	< 5
588593	46.39	13.30	15.89	0.379	4.99	14.11	1.22	0.85	0.823	0.09	2.37	100.4	31	53	287	130	39	80	30	60	39	6	< 5
588594	74.49	15.40	0.75	0.060	0.10	0.28	4.65	3.21	0.009	0.10	0.26	99.31	< 1	187	< 5	< 20	< 1	< 20	< 10	< 30	39	4	< 5
588595	72.36	15.97	1.02	0.082	0.15	0.25	4.34	3.60	0.012	0.05	0.23	98.07	< 1	465	6	< 20	< 1	< 20	< 10	< 30	40	4	< 5
588596	73.36	15.56	0.77	0.103	0.10	0.16	4.51	3.78	0.005	0.08	0.15	98.57	< 1	320	< 5	< 20	< 1	< 20	< 10	< 30	38	4	< 5
588597	73.19	15.47	0.61	0.072	0.02	0.27	7.53	1.81	0.004	0.13	0.07	99.17	< 1	77	< 5	< 20	< 1	< 20	< 10	60	35	4	< 5
588598	76.12	13.14	1.25	0.065	0.28	0.76	4.56	1.31	0.025	0.08	0.20	97.78	1	238	6	< 20	< 1	< 20	< 10	< 30	45	5	< 5
588599	76.37	14.14	1.11	0.095	0.07	0.22	2.08	2.29	0.010	0.05	0.13	96.57	< 1	51	< 5	< 20	< 1	< 20	< 10	< 30	39	5	< 5
588600	74.07	13.65	0.69	0.606	0.03	0.75	0.58	6.29	0.056	< 0.01	1.99	98.72	12	5	< 5	110	< 1	< 20	170	530	28	6	46
588601	74.54	15.69	0.83	0.072	0.10	0.22	4.08	3.14	0.009	0.07	0.32	99.07	< 1	152	< 5	< 20	< 1	< 20	< 10	< 30	36	4	< 5
588602	74.06	14.79	0.72	0.074	0.08	0.29	5.59	2.47	0.011	0.07	0.26	98.44	< 1	154	< 5	< 20	< 1	< 20	< 10	< 30	35	4	< 5
588603	73.11	14.99	0.81	0.069	0.47	0.39	3.88	3.16	0.006	0.05	0.99	97.93	< 1	181	< 5	< 20	< 1	< 20	< 10	< 30	37	4	< 5
588604	73.46	15.44	0.87	0.071	0.12	0.42	4.67	3.90	0.007	0.03	0.42	99.42	< 1	124	< 5	30	< 1	< 20	< 10	< 30	35	5	< 5
588605	77.13	13.55	0.73	0.064	0.14	0.36	4.55	1.93	0.005	0.06	0.36	98.88	< 1	238	< 5	30	< 1	< 20	< 10	< 30	33	6	< 5
588606	73.24	15.76	0.87	0.086	0.05	0.21	3.23	5.61	0.007	0.03	0.13	99.22	< 1	248	< 5	30	< 1	< 20	< 10	< 30	32	5	< 5
588607	72.11	14.87	1.09	0.060	0.67	1.00	2.99	4.34	0.008	0.04	1.80	98.97	< 1	98	8	30	1	< 20	< 10	< 30	36	6	< 5
588608	72.01	15.91	0.92	0.075	0.19	0.25	3.52	3.99	0.008	0.07	0.34	97.29	< 1	84	< 5	< 20	< 1	< 20	< 10	< 30	36	5	< 5
588609	75.49	13.45	0.96	0.091	0.33	0.32	4.32	2.28	0.012	0.03	0.60	97.85	< 1	191	< 5	< 20	< 1	< 20	< 10	< 30	31	4	< 5
588610	97.44	0.92	1.60	0.017	0.03	0.04	0.24	0.16	0.027	< 0.01	-0.15	100.3	< 1	1	< 5	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
588611	73.91	15.53	1.41	0.079	0.59	0.30	2.72	2.58	0.008	0.09	0.73	97.96	1	239	< 5	< 20	2	< 20	< 10	< 30	41	5	< 5
588612	71.74	17.39	1.02	0.090	0.13	0.30	3.99	1.84	0.007	0.06	0.26	96.83	< 1	153	< 5	< 20	< 1	< 20	< 10	< 30	45	5	< 5
588613	71.98	15.97	0.85	0.068	0.17	0.45	4.86	3.49	0.009	0.08	0.48	98.40	< 1	318	< 5	< 20	< 1	< 20	< 10	< 30	37	5	< 5
588614	71.53	16.84	0.62	0.043	0.09	0.39	4.28	5.04	0.005	0.05	0.49	99.39	1	294	< 5	< 20	< 1	< 20	< 10	< 30	34	5	< 5
588615	73.19	15.24	1.22	0.057	0.36	0.75	4.51	2.86	0.044	0.09	0.46	98.78	2	299	11	20	2	< 20	20	< 30	34	5	< 5
588616	73.69	15.23	1.38	0.061	0.40	0.80	4.05	3.34	0.050	0.09	0.49	99.58	3	206	16	40	3	< 20	20	40	34	6	< 5
588617	48.89	16.23	11.49	0.165	7.27	10.46	2.52	0.88	0.814	0.05	0.83	99.60	32	< 1	237	270	49	150	90	80	15	2	< 5
588618	48.68	16.37	11.91	0.211	6.37	10.62	2.12	1.17	0.865	0.09	1.59	100.0	35	3	255	400	45	130	170	80	19	2	< 5
588619	72.33	17.64	1.25	0.135	0.08	0.29	3.19	2.54	0.013	0.07	0.13	97.66	< 1	135	< 5	< 20	< 1	< 20	< 10	< 30	48	5	< 5
588620	74.38	13.85	0.68	0.587	0.03	0.70	0.58	6.22	0.052	0.10	1.92	99.09	12	5	6	120	< 1	< 20	160	580	28	7	53
588621	76.71	14.30	0.78	0.067	0.04	0.27	4.38	2.42	0.007	0.04	0.14	99.16	< 1	180	< 5	40	< 1	< 20	< 10	< 30	32	5	< 5
588622	72.83	15.66	0.87	0.071	0.06	0.24	3.04	4.48	0.007	0.05	0.17	97.46	< 1	58	< 5	< 20	< 1	< 20	< 10	< 30	34	4	< 5
588623	73.06	16.88	1.01	0.126	0.05	0.16	1.90	2.25	0.011	0.04	0.25	95.74	1	313	< 5	30	< 1	< 20	< 10	< 30	48	5	< 5
588624	73.38	17.04	1.23	0.134	0.06	0.23	2.40	1.30	0.010	0.03	0.12	95.93	2	214	6	20	< 1	< 20	< 10	< 30	49	5	< 5
588625	74.24	16.42	0.96	0.095	0.04	0.34	2.84	0.79	0.008	0.02	0.36	96.11	3	362	6	20	< 1	< 20	< 10	< 30	49	5	< 5
588626	72.93	15.85	1.11	0.140	0.14	0.96	4.07	1.39	0.027	0.14	0.51	97.25	2	166	10	30	1	< 20	< 10	< 30	41	5	< 5
588627	49.18	16.03	9.74	0.220	6.11	10.30	1.15	2.10	0.821	0.10	3.53	99.27	43	49	272	500	46	90	130	90	22	3	< 5
588628	72.89	15.72	0.88	0.082	0.07	0.37	3.17	3.54	0.010	0.06	0.24	97.04	1	89	< 5	20	< 1	< 20	< 10	< 30	38	5	< 5
588629	73.91	14.76	0.77	0.062	0.04	0.47	4.31	2.45	0.005	0.07	0.40	97.23	< 1	330	< 5	< 20	< 1	< 20	< 10	< 30	34	5	< 5
588630	97.08	0.46	2.41	0.025	0.02	0.03	0.09	0.06	0.021	< 0.01	-0.04	100.1	< 1	2	< 5	< 20	1	< 20	< 10	< 30	1	< 1	< 5
588631	77.58	12.80	1.02	0.034	0.04	0.44	4.11	3.52	0.004	0.08	0.35	99.99	< 1	426	< 5	< 20	< 1	< 20	< 10	< 30	26	4	< 5
588632	73.68	15.39	1.43	0.130	0.20	0.56	4.84	1.53	0.026	0.06	0.61	98.45	2	86	8	< 20	1	< 20	10	70	44	5	< 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
588633	53.11	13.27	10.66	0.244	5.63	8.47	2.95	1.47	1.056	0.08	2.28	99.24	46	10	311	130	30	60	110	80	18	2	< 5
588634	52.59	14.39	11.35	0.273	4.05	10.38	3.53	0.87	1.269	0.10	1.71	100.5	52	4	361	70	39	50	220	70	21	2	< 5
588635	51.61	13.69	14.09	0.308	3.67	7.83	3.71	1.51	1.339	0.10	1.35	99.22	56	2	367	40	48	60	240	90	19	2	< 5
588636	51.76	14.01	14.06	0.310	3.80	8.02	3.79	1.48	1.371	0.12	1.38	100.1	56	1	367	40	44	50	220	90	20	2	< 5
588637	73.40	15.05	0.73	0.110	0.05	0.25	6.04	4.08	0.009	0.11	0.27	100.1	< 1	386	< 5	< 20	< 1	< 20	< 10	< 30	35	5	< 5
588638	66.24	17.11	0.79	0.014	0.18	0.84	5.12	8.77	0.016	0.29	0.51	99.88	< 1	147	9	< 20	2	< 20	40	< 30	29	4	< 5
588639	74.32	14.71	0.75	0.120	0.10	0.47	7.65	1.57	0.023	0.11	0.54	100.4	< 1	143	< 5	< 20	< 1	< 20	< 10	< 30	42	5	< 5
588640	76.54	12.45	0.69	0.603	0.03	0.69	0.62	6.66	0.056	0.01	0.00	98.35	13	5	< 5	110	< 1	< 20	170	520	29	6	42
588641	71.86	15.19	1.55	0.103	0.81	1.21	7.97	0.53	0.041	0.18	1.06	100.5	2	144	16	30	5	30	20	40	46	4	< 5
588642	70.05	15.67	1.46	0.043	0.25	1.15	3.55	6.72	0.094	0.16	0.77	99.91	2	104	15	30	3	< 20	< 10	40	32	3	< 5
588643	73.79	15.83	0.99	0.205	0.15	0.65	5.73	1.57	0.033	0.30	0.89	100.1	< 1	115	6	< 20	1	< 20	< 10	< 30	43	5	< 5
588644	75.76	12.88	2.76	0.109	0.68	1.50	3.15	1.65	0.178	0.22	1.05	99.95	3	178	26	40	4	< 20	< 10	40	28	3	< 5

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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
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
588551	3880	84	3	35	152	< 2	2.4	< 0.2	89	< 0.5	281	84	< 0.4	1.9	79.2	39	21.0	< 5	2.1	1.3	0.22	0.48
588552	149	44	3	19	19	< 2	< 0.5	< 0.2	4	< 0.5	28.7	17	3.4	1.3	46.6	1	1.0	8	3.9	6.1	0.01	0.02
588553	25	130	16	42	2	4	< 0.5	< 0.2	< 1	< 0.5	2.1	36	< 0.4	1.0	0.2	< 1	0.3	< 5	0.2	< 0.1	0.03	0.06
588554	140	115	16	44	2	< 2	< 0.5	< 0.2	< 1	< 0.5	101	48	0.6	1.0	0.4	2	1.2	< 5	0.2	< 0.1	0.06	0.13
588555	802	21	< 2	13	121	< 2	< 0.5	< 0.2	10	< 0.5	89.8	17	0.4	1.9	876	3	5.4	14	7.0	9.8	< 0.01	< 0.01
588556	870	21	< 2	12	45	< 2	< 0.5	< 0.2	8	< 0.5	82.1	14	0.9	1.6	390	2	6.0	10	4.5	6.9	< 0.01	< 0.01
588557	127	111	16	43	2	2	< 0.5	< 0.2	< 1	< 0.5	51.6	49	< 0.4	0.9	3.3	< 1	1.0	< 5	0.2	< 0.1	0.03	0.07
588558	12	116	16	41	1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.0	32	< 0.4	0.8	0.5	3	0.2	< 5	0.2	< 0.1	0.03	0.05
588559	16	129	15	41	3	4	< 0.5	< 0.2	< 1	0.6	7.2	48	0.5	0.8	0.3	< 1	0.2	< 5	0.2	0.4	0.02	0.03
588560	2040	26	14	82	63	5	3.5	0.3	12	17.4	58.7	93	28.9	4.8	9.3	98	12.6	416	21.4	41.5	0.27	0.58
588561	1300	162	14	42	4	< 2	< 0.5	< 0.2	2	< 0.5	707	75	2.3	0.9	1.6	< 1	11.7	< 5	0.3	1.0	0.10	0.22
588562	2430	55	< 2	4	49	< 2	< 0.5	< 0.2	38	< 0.5	236	42	0.5	0.2	38.4	7	15.2	< 5	1.0	0.7	0.15	0.32
588563	1410	57	< 2	9	30	< 2	< 0.5	< 0.2	21	< 0.5	167	49	< 0.4	0.4	35.1	5	8.8	< 5	0.6	1.1	0.10	0.20
588564	1830	61	< 2	14	42	< 2	< 0.5	< 0.2	29	< 0.5	204	59	0.5	0.9	43.5	3	11.6	< 5	1.2	1.4	0.11	0.24
588565	1600	58	< 2	14	40	< 2	< 0.5	< 0.2	27	< 0.5	159	34	0.4	0.9	28.7	3	10.5	< 5	1.5	0.9	0.09	0.20
588566	2270	56	< 2	10	43	< 2	< 0.5	< 0.2	34	< 0.5	223	51	< 0.4	0.5	42.7	5	14.2	< 5	2.7	1.6	0.14	0.30
588567	2100	62	< 2	13	43	< 2	< 0.5	< 0.2	32	< 0.5	188	52	< 0.4	0.6	34.9	4	13.4	< 5	0.9	0.8	0.13	0.28
588568	1050	66	< 2	9	48	< 2	< 0.5	< 0.2	15	< 0.5	126	33	0.4	0.5	70.9	2	7.1	5	1.3	2.9	0.08	0.16
588569	1030	57	< 2	14	22	< 2	< 0.5	< 0.2	15	< 0.5	163	48	< 0.4	0.8	22.1	< 1	6.5	< 5	0.7	1.2	0.18	0.39
588570	4	5	3	53	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	0.6	10	< 0.4	1.2	0.6	< 1	< 0.1	< 5	1.3	0.5	< 0.01	< 0.01
588571	1400	59	< 2	12	32	< 2	< 0.5	< 0.2	19	< 0.5	173	35	< 0.4	0.7	50.5	2	10.0	< 5	1.4	1.6	0.09	0.20
588572	1150	63	< 2	8	29	< 2	< 0.5	< 0.2	16	< 0.5	176	36	< 0.4	0.4	31.1	2	8.1	< 5	0.4	1.5	0.21	0.45
588573	1850	54	< 2	20	29	3	< 0.5	< 0.2	22	< 0.5	234	45	< 0.4	1.2	32.0	5	12.4	< 5	2.5	1.4	0.11	0.23
588574	1230	60	< 2	16	23	< 2	< 0.5	< 0.2	12	< 0.5	294	97	0.4	1.1	39.6	2	7.0	< 5	2.5	6.0	0.06	0.12
588575	1030	66	< 2	31	20	< 2	< 0.5	< 0.2	13	< 0.5	172	39	< 0.4	2.0	36.4	5	7.4	< 5	1.4	2.4	0.09	0.19
588576	1140	63	< 2	33	22	< 2	< 0.5	< 0.2	14	< 0.5	199	34	< 0.4	2.0	27.1	2	8.3	5	1.4	1.8	0.11	0.23
588577	1010	54	< 2	15	19	< 2	< 0.5	< 0.2	12	< 0.5	191	149	< 0.4	0.7	19.9	11	6.1	< 5	1.0	8.8	0.05	0.12
588578	1010	61	< 2	22	25	< 2	< 0.5	< 0.2	16	< 0.5	142	33	< 0.4	1.2	23.3	2	6.6	< 5	0.6	2.0	0.06	0.13
588579	4320	58	2	7	118	< 2	< 0.5	< 0.2	86	< 0.5	326	64	0.6	0.4	57.7	8	27.3	< 5	1.1	1.3	0.25	0.54
588580	2060	25	13	82	61	5	3.7	0.3	12	16.2	60.5	88	51.5	5.3	10.0	101	13.5	436	22.9	43.2	0.28	0.60
588581	1830	50	< 2	27	47	< 2	< 0.5	< 0.2	34	< 0.5	329	45	< 0.4	1.8	35.6	11	12.0	< 5	0.9	1.2	0.12	0.27
588582	2170	55	< 2	14	59	< 2	< 0.5	< 0.2	41	< 0.5	256	46	0.6	0.9	36.2	9	14.9	< 5	0.6	0.8	0.16	0.35
588583	1340	46	< 2	26	37	< 2	< 0.5	< 0.2	24	< 0.5	169	44	< 0.4	1.8	30.3	3	9.0	< 5	0.4	1.6	0.09	0.20
588584	379	43	< 2	8	15	< 2	< 0.5	< 0.2	1	< 0.5	48.6	165	0.4	0.8	25.1	4	3.6	< 5	2.1	2.4	< 0.01	0.02
588585	72	130	17	47	2	4	< 0.5	< 0.2	< 1	< 0.5	15.0	93	0.4	1.0	0.4	< 1	0.8	< 5	0.2	0.1	0.03	0.07
588586	47	98	16	45	2	2	< 0.5	< 0.2	< 1	< 0.5	22.2	60	0.4	1.1	0.6	3	0.5	< 5	0.3	0.1	0.03	0.06
588587	1190	45	< 2	11	32	< 2	< 0.5	< 0.2	3	< 0.5	234	53	2.2	1.1	118	3	10.9	10	2.3	2.6	< 0.01	0.02
588588	1720	44	3	43	40	< 2	< 0.5	< 0.2	3	0.7	129	56	1.7	1.9	120	< 1	13.9	13	3.4	4.1	0.01	0.03
588589	86	132	21	67	3	< 2	< 0.5	< 0.2	< 1	< 0.5	10.9	125	0.6	1.5	0.4	3	0.7	7	0.4	0.3	0.02	0.05
588590	4	4	2	42	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	0.7	10	< 0.4	0.9	0.5	5	< 0.1	< 5	1.3	0.5	< 0.01	< 0.01
588591	506	109	17	60	13	< 2	< 0.5	< 0.2	2	< 0.5	54.6	145	1.0	1.6	39.3	< 1	4.1	8	1.0	1.2	0.02	0.05

Results

Activation Laboratories Ltd.

Report: A18-03269

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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
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
588592	65	213	20	58	4	< 2	< 0.5	< 0.2	3	< 0.5	6.6	30	1.7	1.4	3.3	1	0.6	7	0.4	2.1	0.03	0.06
588593	201	434	18	51	11	< 2	< 0.5	< 0.2	10	0.5	18.3	42	3.6	1.3	29.0	3	1.9	12	0.8	5.1	0.02	0.04
588594	1600	35	< 2	14	61	< 2	< 0.5	< 0.2	14	< 0.5	170	58	0.4	1.8	168	4	14.4	12	5.2	6.2	0.48	1.04
588595	1950	42	< 2	18	74	< 2	< 0.5	< 0.2	11	< 0.5	245	85	1.9	2.2	183	3	18.7	14	5.7	7.4	0.51	1.10
588596	2180	43	< 2	20	79	< 2	< 0.5	< 0.2	11	< 0.5	253	73	0.7	2.4	177	1	19.5	13	4.8	7.9	0.42	0.90
588597	821	21	< 2	18	78	< 2	< 0.5	< 0.2	3	< 0.5	75.9	23	< 0.4	2.4	191	4	7.4	11	4.0	4.5	0.01	0.02
588598	815	56	< 2	12	67	< 2	< 0.5	< 0.2	17	< 0.5	140	45	2.3	2.5	134	4	6.9	8	4.4	5.0	1.02	2.19
588599	1390	30	< 2	7	26	< 2	< 0.5	< 0.2	14	< 0.5	140	45	0.5	0.5	74.9	< 1	11.9	9	2.6	3.0	1.06	2.29
588600	2160	25	14	81	43	5	3.2	0.3	11	14.8	62.6	90	30.1	4.9	10.6	112	14.2	485	23.0	43.8	0.27	0.58
588601	1770	39	< 2	7	24	< 2	< 0.5	< 0.2	9	< 0.5	191	54	1.1	0.4	65.6	< 1	15.1	10	2.3	2.7	0.58	1.25
588602	1450	32	< 2	11	36	< 2	< 0.5	< 0.2	7	< 0.5	172	45	0.7	0.8	93.9	< 1	11.7	9	5.6	2.5	0.22	0.47
588603	1190	46	< 2	7	27	< 2	< 0.5	< 0.2	9	< 0.5	174	248	0.5	0.6	84.8	< 1	9.3	7	2.7	4.7	0.35	0.75
588604	2250	58	< 2	11	72	4	< 0.5	< 0.2	6	< 0.5	249	148	0.5	1.0	110	< 1	18.5	13	4.1	5.6	0.29	0.62
588605	1220	32	< 2	14	39	< 2	< 0.5	< 0.2	4	< 0.5	186	45	0.8	1.4	73.0	< 1	10.8	13	4.7	6.6	0.41	0.87
588606	3650	63	< 2	8	32	< 2	< 0.5	< 0.2	5	< 0.5	411	106	0.4	0.6	63.2	11	31.6	16	2.4	3.1	0.43	0.93
588607	1680	49	< 2	13	28	< 2	< 0.5	< 0.2	10	< 0.5	280	581	< 0.4	1.4	81.2	< 1	14.8	11	3.9	6.5	0.23	0.49
588608	2220	44	< 2	9	29	< 2	< 0.5	< 0.2	9	< 0.5	263	99	< 0.4	0.7	67.5	< 1	19.4	11	2.9	2.0	0.56	1.20
588609	969	27	< 2	9	19	< 2	< 0.5	< 0.2	8	< 0.5	139	212	< 0.4	0.6	57.6	< 1	7.3	5	1.7	2.2	0.30	0.65
588610	14	5	4	54	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.7	28	< 0.4	1.1	0.6	< 1	0.2	< 5	1.6	0.5	< 0.01	< 0.01
588611	1050	26	< 2	14	32	< 2	< 0.5	< 0.2	10	< 0.5	298	233	0.4	1.3	81.0	< 1	8.4	7	5.2	3.7	0.81	1.74
588612	1090	26	< 2	9	80	< 2	< 0.5	< 0.2	10	< 0.5	281	43	< 0.4	0.7	135	< 1	10.2	9	3.2	4.1	1.02	2.20
588613	2010	45	< 2	6	38	< 2	< 0.5	< 0.2	10	< 0.5	362	106	< 0.4	0.4	123	< 1	16.9	13	5.9	9.1	0.33	0.71
588614	2550	49	< 2	6	30	< 2	< 0.5	< 0.2	5	< 0.5	365	117	< 0.4	0.5	69.6	< 1	23.1	12	2.5	2.7	0.40	0.86
588615	1800	45	< 2	9	30	< 2	< 0.5	< 0.2	6	< 0.5	365	88	0.4	0.5	90.2	< 1	16.2	11	1.8	5.5	0.34	0.74
588616	2270	49	< 2	11	37	< 2	< 0.5	< 0.2	5	0.5	390	108	1.2	1.0	66.9	< 1	20.9	13	2.3	5.2	0.36	0.77
588617	158	111	14	43	2	< 2	< 0.5	< 0.2	< 1	< 0.5	91.1	589	0.6	0.9	0.3	< 1	1.8	7	0.2	0.4	0.09	0.18
588618	490	116	18	58	8	< 2	< 0.5	< 0.2	3	< 0.5	258	593	0.7	1.3	4.4	< 1	4.8	10	0.3	1.9	0.19	0.40
588619	1390	30	< 2	11	62	< 2	< 0.5	< 0.2	18	< 0.5	126	34	< 0.4	1.1	110	< 1	11.9	14	3.3	4.2	1.18	2.54
588620	2160	25	13	88	70	5	1.6	0.3	12	15.7	59.2	90	56.8	5.7	10.2	105	15.0	462	23.5	41.6	0.26	0.56
588621	1490	31	< 2	10	20	3	< 0.5	< 0.2	4	< 0.5	174	39	0.8	0.6	33.0	2	13.2	11	2.1	4.0	0.50	1.08
588622	2440	49	< 2	4	19	< 2	< 0.5	< 0.2	7	< 0.5	204	69	< 0.4	0.2	33.7	< 1	20.8	13	1.8	3.8	0.64	1.38
588623	1370	26	< 2	6	16	< 2	< 0.5	< 0.2	16	< 0.5	184	37	0.6	0.5	30.4	< 1	11.7	12	1.5	2.8	1.53	3.29
588624	847	19	< 2	6	16	< 2	< 0.5	< 0.2	15	< 0.5	182	21	0.6	0.5	33.5	< 1	7.0	9	1.9	2.5	1.53	3.28
588625	517	19	< 2	12	37	< 2	< 0.5	< 0.2	12	< 0.5	181	19	0.6	1.0	91.7	< 1	4.4	17	3.5	7.5	1.41	3.02
588626	842	37	< 2	13	33	< 2	< 0.5	< 0.2	10	< 0.5	217	48	0.7	1.2	99.6	< 1	7.1	17	3.8	7.7	0.86	1.86
588627	1890	151	14	42	6	< 2	< 0.5	< 0.2	5	0.8	1470	79	6.2	0.8	7.4	< 1	16.3	8	0.3	3.0	0.49	1.04
588628	1960	42	< 2	9	32	< 2	< 0.5	< 0.2	8	< 0.5	195	65	< 0.4	0.6	81.3	< 1	16.5	14	2.5	4.6	0.83	1.78
588629	1420	38	< 2	10	37	< 2	< 0.5	< 0.2	5	< 0.5	204	56	1.6	0.7	90.8	< 1	12.5	15	6.6	4.3	0.57	1.24
588630	6	3	3	45	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.0	16	< 0.4	1.0	0.6	< 1	< 0.1	< 5	1.7	0.7	< 0.01	< 0.01
588631	1910	42	< 2	22	18	< 2	< 0.5	< 0.2	3	< 0.5	242	127	1.3	2.3	82.6	< 1	17.4	16	2.4	5.0	0.16	0.34
588632	1150	34	< 2	26	44	< 2	< 0.5	< 0.2	13	< 0.5	233	57	4.9	1.9	88.2	1	8.6	13	6.1	5.6	0.73	1.57
588633	839	173	19	62	4	< 2	< 0.5	< 0.2	2	< 0.5	411	154	0.9	1.4	5.2	< 1	7.0	6	0.4	1.1	0.07	0.14

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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	
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-MS	FUS-Na2O2	FUS-Na2O2
588634	64	268	23	76	3	< 2	< 0.5	< 0.2	< 1	< 0.5	27.7	112	1.1	1.6	0.4	< 1	0.6	12	0.3	0.9	0.03	0.05	
588635	83	132	26	84	3	< 2	< 0.5	< 0.2	< 1	< 0.5	40.9	139	0.7	1.9	0.4	< 1	0.7	13	0.4	0.6	0.03	0.07	
588636	81	138	26	83	3	< 2	< 0.5	< 0.2	< 1	< 0.5	37.4	125	0.6	1.8	0.8	< 1	0.6	13	0.4	0.6	0.03	0.07	
588637	2410	43	< 2	12	49	< 2	< 0.5	< 0.2	5	< 0.5	239	48	1.2	1.3	147	< 1	20.9	15	3.9	3.4	0.17	0.36	
588638	2100	104	< 2	11	40	< 2	< 0.5	< 0.2	< 1	0.8	76.3	134	< 0.4	1.6	240	< 1	13.9	10	2.1	2.8	< 0.01	< 0.01	
588639	549	31	< 2	17	34	2	< 0.5	< 0.2	8	< 0.5	39.7	34	< 0.4	1.3	53.4	< 1	3.3	14	3.8	7.8	< 0.01	0.02	
588640	2190	26	14	82	66	5	2.9	0.3	13	17.0	63.6	94	23.8	5.1	11.0	112	14.0	455	23.6	46.2	0.28	0.61	
588641	433	34	2	30	73	< 2	< 0.5	< 0.2	12	< 0.5	24.8	74	< 0.4	2.6	96.0	< 1	2.3	6	4.1	5.3	< 0.01	0.02	
588642	1940	75	2	31	34	2	< 0.5	< 0.2	5	< 0.5	99.9	126	5.7	0.7	30.7	< 1	12.9	12	1.4	2.2	< 0.01	0.02	
588643	1030	37	< 2	19	64	< 2	< 0.5	< 0.2	22	< 0.5	49.5	24	1.0	1.6	190	< 1	5.9	5	4.6	4.1	< 0.01	< 0.01	
588644	797	93	3	55	40	< 2	< 0.5	< 0.2	15	< 0.5	142	130	< 0.4	1.8	114	< 1	5.6	32	3.9	4.6	0.01	0.02	

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	11.68	1.91	0.74	0.010	0.35	42.96	0.90	0.56	0.120	30.19					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	47.13	18.67	9.89	0.150	10.23	11.29	1.93	0.22	0.490	0.07			31		151	280	60	240	110	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	71.05	12.91	3.19	0.141	0.14	0.59	2.48	5.47	0.279	0.04			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	32	60	40	140			24
LKSD-3 Cert																87.0	30.0	47.0	35.0	152			27.0
TDB-1 Meas																250		100	330	170			
TDB-1 Cert																251		92	323	155			
W-2a Meas	52.81	15.99	11.04	0.170	6.48	11.06	2.25	0.63	1.120	0.17			36	< 1	275	90	44	80	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	0.140			36.0	1.30	262	92.0	43.0	70.0	110	80.0	17.0	1.00	
DTS-2b Meas																16200	127	3490					
DTS-2b Cert																15500	120	3780					
SY-4 Meas	50.32	20.46	6.16	0.110	0.52	8.09	6.95	1.67	0.280	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																	3		60	40			
CTA-AC-1 Cert																	2.72		54.0	38.0			
BIR-1a Meas	47.99	15.19	11.38	0.170	9.60	13.49	1.80	0.02	0.950	0.02			43	< 1	327	390	56	180	140		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		16		
ZW-C Meas																							
ZW-C Cert																							
NCS DC70009 (GBW07241) Meas																	4		1020	110	17	10	65
NCS DC70009 (GBW07241) Cert																	3.7		960	100	16.5	11.2	69.9
OREAS 100a (Fusion) Meas																	18		180				
OREAS 100a (Fusion) Cert																	18.1		169				
OREAS 101a (Fusion) Meas																	50		450				
OREAS 101a (Fusion) Cert																	48.8		430				
OREAS 101b (Fusion) Meas																	45		420				
OREAS 101b (Fusion) Cert																	47		420				
JR-1 Meas																		< 20	< 10		17	2	16
JR-1 Cert																		1.67	2.68		16.1	1.88	16.3
NCS DC86303 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 DC86314 Meas																							
NCS DC86314 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																							
588557 Orig																							
588557 Dup																							
588565 Orig	66.48	14.14	1.38	0.088	0.45	5.09	4.50	2.16	0.038	0.10	4.12	98.56	2	148	8	< 20	2	< 20	< 10	100	43	4	< 5
588565 Dup	66.21	14.26	1.41	0.089	0.46	5.07	4.71	2.26	0.039	0.09	4.12	98.72	2	151	10	< 20	2	< 20	< 10	100	43	3	< 5
588579 Orig																							
588579 Dup																							
588582 Orig	75.47	13.52	1.63	0.110	0.54	0.51	3.25	2.47	0.049	0.08	1.20	98.83	2	134	12	20	3	< 20	< 10	130	50	3	< 5
588582 Dup	75.44	13.40	1.65	0.111	0.55	0.51	3.29	2.52	0.051	0.08	1.20	98.80	3	132	14	30	3	< 20	< 10	130	50	4	< 5
588587 Orig																							
588587 Dup																							
588601 Orig																< 20	< 1	< 20	< 10	< 30	36	4	< 5
588601 Split PREP DUP	74.65	15.15	0.77	0.067	0.10	0.21	3.83	2.89	0.008	0.06	0.41	98.15	< 1	149	< 5	< 20	< 1	< 20	< 10	< 30	36	5	< 5
588601 Orig																							
588601 Dup																							
588609 Orig																							
588609 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
588613 Orig	71.82	15.97	0.83	0.067	0.16	0.44	4.98	3.40	0.009	0.08	0.48	98.24	< 1	317	< 5	< 20	< 1	< 20	< 10	30	37	5	< 5
588613 Dup	72.14	15.97	0.87	0.068	0.17	0.46	4.74	3.57	0.010	0.08	0.48	98.56	< 1	319	< 5	< 20	< 1	< 20	< 10	< 30	37	5	< 5
588623 Orig																							
588623 Dup																							
588630 Orig	96.51	0.46	2.42	0.025	0.02	0.03	0.09	0.06	0.022	< 0.01	-0.04	99.60	< 1	2	< 5	< 20	1	< 20	< 10	< 30	1	< 1	< 5
588630 Dup	97.64	0.45	2.41	0.025	0.02	0.03	0.09	0.06	0.020	< 0.01	-0.04	100.7	< 1	2	< 5	< 20	1	< 20	< 10	< 30	1	< 1	< 5
588631 Orig																							
588631 Dup																							
588641 Orig																							
588641 Dup																							
Method Blank	< 0.01	< 0.01	0.01	0.002	< 0.01	0.01	< 0.01	< 0.01	0.001	0.01			< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
Method Blank	< 0.01	0.01	0.02	0.002	< 0.01	0.01	< 0.01	< 0.01	0.001	< 0.01			< 1	< 1	< 5								
Method Blank	< 0.01	< 0.01	0.01	0.002	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01			< 1	< 1	< 5								
Method Blank	< 0.01	0.01	0.01	0.002	< 0.01	0.01	< 0.01	< 0.01	0.001	< 0.01			< 1	< 1	< 5								
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	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
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
NIST 694 Meas																						
NIST 694 Cert																						
DNC-1 Meas	4	145	16	37						0.9		106										
DNC-1 Cert	5	144.0	18.0	38						0.96		118										
GBW 07113 Meas		42	46	398								506										
GBW 07113 Cert		43.0	43.0	403								506										
LKSD-3 Meas	80					< 2	2.8		2	1.2	2.2			4.3	0.7				11.5	4.8		
LKSD-3 Cert	78.0					2.00	2.70		3.00	1.30	2.30			4.80	0.700				11.4	4.60		
TDB-1 Meas	22																			2.7		
TDB-1 Cert	23																			2.7		
W-2a Meas	20	202	20	93	8	< 2				0.8		176	< 0.4	2.5	0.5	< 1	< 0.1		2.2	0.5		
W-2a Cert	21.0	190	24.0	94.0	7.90	0.600				0.790		182	0.0300	2.60	0.500	0.300	0.200		2.40	0.530		
DTS-2b Meas																						
DTS-2b Cert																						
SY-4 Meas		1188	118	529								348										
SY-4 Cert		1191	119	517								340										
CTA-AC-1 Meas																					4.3	
CTA-AC-1 Cert																					4.4	
BIR-1a Meas		107	14	15								7		0.6								
BIR-1a Cert		110	16	18								6		0.60								
ZW-C Meas	9040																					
ZW-C Cert	8500																					
NCS DC70009 (GBW07241) Meas	510								1590		41.9					2110	1.9					
NCS DC70009 (GBW07241) Cert	500								1700		41					2200	1.8					
OREAS 100a (Fusion) Meas						22													54.7	139		
OREAS 100a (Fusion) Cert						24.1													51.6	135		
OREAS 101a (Fusion) Meas						20													38.5	463		
OREAS 101a (Fusion) Cert						21.9													36.6	422		
OREAS 101b (Fusion) Meas						20													35.2	390		
OREAS 101b (Fusion) Cert						21													37.1	396		
JR-1 Meas	249				14	3		< 0.2	3	1.2	19.8		0.4	4.4	1.8			21	28.2	9.7		
JR-1 Cert	257				15.2	3.25		0.028	2.86	1.19	20.8		0.56	4.51	1.86			19.3	26.7	8.88		
NCS DC86303 Meas																					0.21	0.46
NCS DC86303																					0.21	0.460

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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
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
Cert																						
NCS DC86303 Meas																					0.21	0.44
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	0.45
NCS DC86303 Cert																					0.21	0.460
NCS DC86303 Meas																					0.21	0.45
NCS DC86303 Cert																					0.21	0.460
NCS DC86304 Meas																					1.10	2.38
NCS DC86304 Cert																					1.06	2.29
NCS DC86304 Meas																					1.03	2.23
NCS DC86304 Cert																					1.06	2.29
NCS DC86304 Meas																					1.04	2.24
NCS DC86304 Cert																					1.06	2.29
NCS DC86304 Meas																					1.08	2.33
NCS DC86304 Cert																					1.06	2.29
NCS DC86314 Meas																					1.81	3.89
NCS DC86314 Cert																					1.81	3.89
NCS DC86314 Meas																					1.80	3.88
NCS DC86314 Cert																					1.81	3.89
NCS DC86314 Meas																					1.83	3.93
NCS DC86314 Cert																					1.81	3.89
NCS DC86314 Meas																					1.92	4.14

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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		
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		
NCS DC86314 Cert																						1.81	3.89	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.21	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.27	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																							8.27	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																							8	
588557 Orig																							0.03	0.07
588557 Dup																							0.03	0.07
588565 Orig	1580	56	< 2	14	39	< 2	< 0.5	< 0.2	27	< 0.5	158	33	0.5	0.9	28.6	4	10.5	< 5	1.5	0.9	0.09	0.20		
588565 Dup	1610	59	< 2	14	40	< 2	< 0.5	< 0.2	27	< 0.5	160	34	0.4	0.9	28.8	2	10.5	< 5	1.5	0.9	0.09	0.19		
588579 Orig																							0.25	0.53
588579 Dup																							0.26	0.56
588582 Orig	2160	54	< 2	13	57	< 2	< 0.5	< 0.2	40	< 0.5	255	46	0.7	0.9	34.6	8	15.0	< 5	0.6	0.7				
588582 Dup	2180	55	< 2	16	60	< 2	< 0.5	< 0.2	42	< 0.5	256	46	0.5	1.0	37.8	9	14.9	< 5	0.6	0.8				
588587 Orig																							< 0.01	0.02
588587 Dup																							< 0.01	0.02
588601 Orig	1770				24	< 2	< 0.5	< 0.2	9	< 0.5	191		1.1	0.4	65.6	< 1	15.1	10	2.3	2.7				
588601 Split PREP DUP	1790	38	< 2	8	41	< 2	< 0.5	< 0.2	11	< 0.5	196	51	0.9	0.7	71.9	< 1	15.8	10	2.7	2.6	0.60	1.29		
588601 Orig																							0.58	1.26
588601 Dup																							0.58	1.24
588609 Orig																							0.31	0.67
588609 Dup																							0.30	0.64
588613 Orig	2010	44	< 2	6	38	< 2	< 0.5	< 0.2	11	< 0.5	363	105	< 0.4	0.4	125	10	17.2	13	5.9	9.1				
588613 Dup	2000	47	< 2	7	37	< 2	< 0.5	< 0.2	8	< 0.5	360	107	< 0.4	0.4	121	< 1	16.6	12	5.9	9.0				
588623 Orig																							1.53	3.30

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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
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
588623 Dup																					1.53	3.29
588630 Orig	6	3	3	45	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.0	16	< 0.4	1.0	0.6	< 1	0.1	< 5	1.7	0.7		
588630 Dup	6	3	3	46	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	1.1	16	< 0.4	1.0	0.6	< 1	< 0.1	< 5	1.6	0.7		
588631 Orig																					0.16	0.34
588631 Dup																					0.16	0.33
588641 Orig																					< 0.01	0.02
588641 Dup																					< 0.01	0.02
Method Blank	< 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		
Method Blank		< 2	< 2	< 4								< 3										
Method Blank		< 2	< 2	< 4								< 3										
Method Blank		< 2	< 2	< 4								< 3										
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: 23-Apr-18
Invoice No.: A18-05173 (i)
Invoice Date: 29-May-18
Your Reference: Seymour (Ardiden Ltd)

Caracle Creek International
1545 Maley Drive, Suite 2018
Sudbury ON P3A 4R7
Canada

ATTN: Scott Jobin-Bevans

CERTIFICATE OF ANALYSIS

46 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

REPORT **A18-05173 (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:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with some loops and is written over a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

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
588646	97.48	0.44	1.12	0.013	0.09	0.13	0.06	0.07	0.022	< 0.01	0.04	99.47	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
588647	48.38	14.03	11.41	0.271	7.07	11.71	2.65	1.02	0.807	0.10	2.78	100.2	41	6	284	440	58	190	170	100	17	2	< 5
588648	71.41	16.69	1.09	0.116	0.07	0.56	5.97	3.67	0.016	0.20	0.29	100.1	< 1	182	< 5	20	< 1	< 20	20	< 30	36	5	< 5
588649	48.54	12.59	19.86	0.439	3.72	8.51	2.60	0.69	0.869	0.08	2.33	100.2	36	5	287	160	47	110	110	100	17	2	< 5
588650	98.43	0.39	1.07	0.021	0.03	0.02	0.06	0.04	0.025	< 0.01	0.06	100.2	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	1	< 1	< 5
588651	52.44	14.53	13.48	0.245	2.46	10.00	2.70	0.57	0.868	0.11	3.01	100.4	30	9	253	200	42	130	90	50	21	3	< 5
588652	99.06	0.28	0.60	0.007	0.02	0.12	0.04	0.03	0.019	< 0.01	0.19	100.4	< 1	< 1	< 5	100	< 1	< 20	< 10	< 30	1	< 1	< 5
588653	70.83	14.32	0.73	0.018	0.05	0.59	3.79	7.07	0.009	0.22	0.46	98.09	< 1	17	8	20	< 1	< 20	< 10	< 30	23	3	< 5
588654	68.33	16.05	1.11	0.314	0.12	0.78	6.03	5.09	0.015	0.16	0.60	98.60	< 1	28	5	< 20	1	< 20	< 10	< 30	31	4	< 5
588655	55.82	15.57	9.95	0.175	3.49	6.42	2.77	3.36	0.937	0.16	1.92	100.6	31	7	251	160	37	70	40	70	20	2	< 5
588656	69.06	12.76	5.72	0.134	1.82	4.29	2.45	2.50	0.466	0.10	1.20	100.5	9	4	81	50	17	40	60	80	16	1	< 5
588657	46.19	14.20	14.38	0.318	5.57	15.15	1.51	0.37	0.659	0.07	2.23	100.7	36	13	240	270	50	140	620	190	18	2	< 5
588658	99.03	0.33	0.59	0.007	0.02	0.04	0.04	0.03	0.017	< 0.01	0.07	100.2	< 1	< 1	< 5	120	< 1	< 20	< 10	< 30	1	< 1	< 5
588659	72.28	14.27	2.10	0.062	0.57	1.47	3.82	4.41	0.075	0.04	0.81	99.92	3	328	23	50	4	< 20	20	30	29	5	< 5
588660	74.51	14.16	0.68	0.597	0.04	0.76	0.59	6.39	0.054	< 0.01	2.31	100.1	12	5	< 5	120	< 1	< 20	170	550	30	6	46
588661	67.59	17.23	1.11	0.049	0.33	0.52	3.89	7.50	0.051	0.04	0.76	99.07	2	64	16	40	3	< 20	< 10	< 30	27	7	< 5
588662	71.33	14.40	1.91	0.080	0.64	1.22	3.59	4.22	0.066	0.02	1.09	98.58	3	476	19	50	4	< 20	< 10	40	29	5	< 5
588663	75.68	15.65	1.13	0.094	0.06	0.40	3.53	1.82	0.008	< 0.01	0.52	98.88	< 1	69	< 5	40	< 1	< 20	< 10	30	44	7	< 5
588664	70.95	18.38	1.15	0.129	0.10	0.38	2.99	4.09	0.016	< 0.01	0.98	99.17	< 1	175	< 5	30	< 1	< 20	< 10	80	56	7	< 5
588665	68.25	15.78	1.89	0.295	0.43	3.40	3.05	4.41	0.074	1.49	1.39	100.4	3	340	17	60	5	< 20	< 10	140	45	6	< 5
588666	56.45	20.69	3.57	0.254	1.17	4.20	4.97	3.83	0.223	1.09	3.03	99.48	11	540	63	100	13	50	10	190	50	6	< 5
588667	44.88	14.23	10.69	0.248	4.20	17.19	0.27	2.03	0.655	0.05	5.69	100.1	36	50	232	280	42	130	40	80	18	5	< 5
588668	48.06	15.19	12.25	0.215	5.85	13.75	2.07	0.71	0.780	0.05	1.47	100.4	41	2	266	310	51	160	140	80	16	1	< 5
588669	74.04	14.08	0.69	0.600	0.04	0.76	0.59	6.32	0.055	< 0.01	2.00	99.18	12	5	< 5	120	< 1	< 20	170	520	30	5	45
588670	98.03	0.56	0.66	0.009	0.04	0.04	0.09	0.07	0.029	< 0.01	0.12	99.66	< 1	2	< 5	70	< 1	< 20	< 10	< 30	2	< 1	< 5
588671	66.12	18.09	1.06	0.150	0.41	2.49	8.12	1.24	0.040	1.54	0.96	100.2	2	222	14	30	3	< 20	20	70	46	4	< 5
588672	47.98	14.64	12.08	0.200	8.05	10.77	2.05	1.00	0.746	0.06	2.66	100.2	40	4	258	300	50	140	150	80	16	2	< 5
588673	62.90	17.53	2.52	0.282	1.18	4.45	7.33	0.52	0.119	2.02	1.55	100.4	6	30	39	50	9	30	60	70	48	4	< 5
588674	47.67	14.36	11.98	0.201	8.42	11.66	2.02	0.80	0.692	0.06	2.35	100.2	37	1	245	250	52	200	130	80	15	2	< 5
588675	47.84	15.31	12.44	0.298	4.66	15.93	0.58	0.37	0.790	0.05	2.23	100.5	43	4	266	240	47	140	110	100	19	1	< 5
588676	47.62	15.41	12.43	0.292	4.63	15.86	0.59	0.36	0.782	0.06	2.30	100.3	42	5	263	230	49	130	180	120	19	1	< 5
588677	99.53	0.42	0.59	0.007	0.03	0.04	0.07	0.04	0.023	< 0.01	0.06	100.8	< 1	< 1	< 5	70	< 1	< 20	< 10	< 30	1	< 1	< 5
588678	74.78	14.49	0.80	0.078	0.05	0.46	5.48	1.38	0.013	0.21	0.89	98.64	< 1	364	< 5	30	< 1	< 20	< 10	60	47	6	< 5
588679	47.88	15.03	13.55	0.241	5.89	13.01	1.56	0.50	0.750	0.06	1.84	100.3	42	2	267	230	49	140	200	90	16	2	< 5
588680	74.90	13.50	0.68	0.596	0.04	0.76	0.59	6.30	0.051	< 0.01	1.96	99.38	12	5	< 5	120	< 1	< 20	170	520	30	5	46
588681	45.83	13.12	12.85	0.228	8.23	7.87	0.68	3.12	0.997	0.06	7.05	100.0	37	9	277	180	53	110	160	80	18	2	< 5
588682	99.06	0.31	0.53	0.006	0.02	0.01	0.03	0.05	0.018	< 0.01	-0.01	100.0	< 1	< 1	< 5	140	< 1	< 20	< 10	< 30	1	< 1	< 5
588683	62.96	17.68	2.46	0.074	1.07	3.62	8.62	0.84	0.141	0.91	1.56	99.94	5	80	42	30	6	< 20	50	< 30	34	6	< 5
588684	74.04	13.63	0.69	0.586	0.03	0.75	0.61	6.35	0.052	< 0.01	2.00	98.74	12	5	< 5	120	< 1	< 20	170	540	30	6	46
588685	45.92	15.00	16.46	0.403	5.40	9.67	1.83	0.96	1.045	0.09	3.52	100.3	47	5	339	210	46	100	120	90	21	2	< 5
588686	49.22	14.98	12.43	0.223	6.70	8.27	3.34	1.23	1.097	0.20	2.55	100.2	39	16	307	180	41	110	60	90	20	3	< 5

Results

Activation Laboratories Ltd.

Report: A18-05173

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
588687	98.77	0.38	0.89	0.009	0.03	0.03	0.06	0.05	0.024	< 0.01	0.06	100.3	< 1	< 1	< 5	40	< 1	< 20	< 10	< 30	1	< 1	< 5
588688	71.04	15.60	0.89	0.079	0.08	0.55	7.72	2.07	0.010	0.37	0.24	98.65	< 1	169	8	< 20	< 1	< 20	20	< 30	41	6	< 5
588689	71.40	17.00	0.80	0.359	0.06	0.36	9.22	0.81	0.005	0.30	0.11	100.4	< 1	64	< 5	< 20	< 1	< 20	10	< 30	40	7	< 5
588690	74.64	14.02	0.68	0.588	0.04	0.74	0.59	6.35	0.053	< 0.01	2.00	99.70	12	5	< 5	120	< 1	< 20	170	520	29	6	45
588691	37.99	13.14	26.11	0.338	9.20	2.64	0.83	3.97	0.994	0.08	4.74	100.1	46	4	437	180	56	110	160	100	27	2	< 5

Results

Activation Laboratories Ltd.

Report: A18-05173

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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
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
588646	2	3	3	39	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	17	< 0.4	1.3	0.1	< 1	< 0.1	< 5	1.6	0.5	< 0.01	< 0.01
588647	122	202	16	42	6	< 2	< 0.5	< 0.2	1	< 0.5	21.2	97	0.9	1.4	0.8	< 1	0.7	11	0.5	0.5	0.03	0.07
588648	1780	42	< 2	10	76	< 2	< 0.5	< 0.2	7	< 0.5	95.1	34	< 0.4	1.5	118	2	13.6	12	3.4	6.2	0.25	0.54
588649	87	133	25	69	3	< 2	< 0.5	< 0.2	< 1	< 0.5	12.8	64	1.9	1.9	0.4	3	1.5	45	0.8	1.1	0.03	0.06
588650	2	2	2	37	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	11	< 0.4	1.2	0.2	< 1	0.2	< 5	1.5	0.5	< 0.01	< 0.01
588651	60	394	17	86	3	< 2	< 0.5	< 0.2	1	< 0.5	20.4	70	1.1	2.3	0.5	< 1	0.5	9	1.4	1.1	0.02	0.04
588652	< 2	2	3	44	< 1	4	< 0.5	< 0.2	< 1	< 0.5	< 0.5	7	< 0.4	1.5	0.1	< 1	< 0.1	8	1.7	0.5	< 0.01	< 0.01
588653	2350	42	< 2	< 4	18	< 2	< 0.5	< 0.2	3	< 0.5	89.0	33	< 0.4	0.4	59.6	9	15.5	16	1.3	1.9	< 0.01	< 0.01
588654	1540	34	< 2	16	43	< 2	< 0.5	< 0.2	4	1.1	58.1	42	< 0.4	3.3	223	3	12.2	14	8.3	10.0	< 0.01	< 0.01
588655	374	128	18	81	9	< 2	< 0.5	< 0.2	1	< 0.5	57.9	445	1.0	2.5	28.2	< 1	3.5	14	1.6	1.5	0.02	0.05
588656	111	88	9	100	4	2	< 0.5	< 0.2	1	< 0.5	26.4	207	0.4	2.6	2.1	< 1	1.1	10	3.3	1.2	0.01	0.03
588657	47	91	15	36	4	8	< 0.5	< 0.2	1	< 0.5	14.2	28	1.0	1.2	17.1	5	0.8	13	0.4	0.5	0.01	0.03
588658	< 2	< 2	3	40	< 1	3	< 0.5	< 0.2	< 1	< 0.5	< 0.5	10	< 0.4	1.5	0.1	2	0.1	< 5	1.5	0.6	< 0.01	< 0.01
588659	3470	67	< 2	5	24	2	< 0.5	< 0.2	4	< 0.5	302	29	1.5	0.3	110	< 1	29.1	12	7.2	5.5	0.02	0.03
588660	2130	24	13	68	60	5	1.4	0.3	12	13.9	63.2	87	38.5	5.9	10.8	106	14.1	413	25.7	48.8	0.27	0.58
588661	6770	99	< 2	8	28	< 2	< 0.5	< 0.2	3	< 0.5	798	24	1.8	1.1	130	3	63.1	17	15.1	6.6	0.04	0.08
588662	3430	67	< 2	7	32	< 2	< 0.5	< 0.2	3	< 0.5	323	41	1.3	0.7	112	1	33.9	47	1.2	4.2	0.06	0.13
588663	1840	39	< 2	< 4	45	2	< 0.5	< 0.2	4	< 0.5	204	14	< 0.4	0.4	152	1	17.3	6	0.5	1.7	0.82	1.77
588664	4070	62	< 2	< 4	34	< 2	< 0.5	< 0.2	7	< 0.5	389	30	< 0.4	0.2	89.0	4	35.3	38	0.4	1.6	0.69	1.49
588665	5040	98	3	13	27	< 2	< 0.5	< 0.2	12	< 0.5	913	68	2.1	2.3	141	4	43.2	16	2.6	9.4	0.09	0.20
588666	6300	109	4	20	38	< 2	< 0.5	< 0.2	15	< 0.5	1780	104	8.2	2.1	105	8	45.9	21	2.1	5.6	0.19	0.41
588667	3180	119	14	34	4	< 2	< 0.5	< 0.2	2	< 0.5	3910	36	7.2	1.2	6.4	3	34.9	16	0.3	0.8	0.18	0.38
588668	165	139	16	39	2	3	< 0.5	< 0.2	1	< 0.5	20.4	93	0.6	1.3	0.4	< 1	3.4	6	0.2	< 0.1	0.02	0.05
588669	2150	25	14	70	57	6	1.5	0.3	12	13.2	65.0	87	41.0	6.3	11.0	100	14.0	402	26.0	48.0	0.27	0.57
588670	17	4	3	49	< 1	3	< 0.5	< 0.2	< 1	< 0.5	4.4	13	< 0.4	1.7	0.3	8	1.3	< 5	1.7	0.5	< 0.01	< 0.01
588671	931	49	3	32	66	< 2	< 0.5	< 0.2	20	< 0.5	99.1	21	0.4	3.8	72.5	3	5.7	6	3.0	3.3	0.05	0.10
588672	297	95	15	39	2	2	< 0.5	< 0.2	1	< 0.5	69.8	77	0.5	1.3	1.3	< 1	2.3	< 5	0.2	0.2	0.04	0.09
588673	359	79	5	35	85	< 2	< 0.5	< 0.2	25	< 0.5	89.6	20	0.4	3.6	66.9	2	2.7	9	2.4	3.0	0.03	0.06
588674	272	98	14	35	2	< 2	< 0.5	< 0.2	< 1	< 0.5	114	49	0.4	1.2	0.5	< 1	2.2	< 5	0.2	0.2	0.08	0.18
588675	366	102	16	42	8	< 2	< 0.5	< 0.2	9	< 0.5	61.9	30	0.8	1.5	2.9	< 1	2.6	15	0.6	0.5	0.03	0.06
588676	323	102	16	44	15	< 2	< 0.5	< 0.2	8	< 0.5	49.0	27	1.1	1.5	8.3	< 1	2.3	35	2.8	0.7	0.03	0.06
588677	3	< 2	4	50	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	8	< 0.4	1.8	0.2	< 1	0.2	< 5	1.8	0.5	< 0.01	< 0.01
588678	1610	27	< 2	15	83	< 2	< 0.5	< 0.2	26	< 0.5	179	5	1.1	2.0	154	2	9.7	5	9.3	5.4	0.03	0.06
588679	396	93	16	39	3	< 2	< 0.5	< 0.2	< 1	< 0.5	146	66	< 0.4	1.3	1.6	< 1	4.3	< 5	0.5	0.6	0.08	0.18
588680	2130	24	13	70	66	6	1.7	0.3	13	14.1	63.7	87	50.2	6.5	11.2	102	13.0	405	26.0	46.9	0.26	0.57
588681	956	75	15	57	6	< 2	< 0.5	< 0.2	2	0.9	757	494	0.6	1.7	2.7	4	9.9	< 5	0.4	3.6	0.09	0.20
588682	3	< 2	4	47	< 1	3	< 0.5	< 0.2	< 1	< 0.5	0.8	13	< 0.4	1.6	0.2	< 1	0.9	7	1.4	0.6	< 0.01	< 0.01
588683	328	49	5	18	28	< 2	< 0.5	< 0.2	8	< 0.5	275	53	0.9	1.9	110	1	3.0	< 5	4.8	3.0	0.02	0.04
588684	2180	24	14	70	66	6	1.7	0.3	13	14.2	65.0	88	44.1	6.3	11.0	100	13.2	435	25.7	47.3	0.26	0.57
588685	221	134	24	56	3	< 2	< 0.5	< 0.2	2	< 0.5	163	116	0.7	1.7	2.8	1	2.9	18	0.5	1.5	0.17	0.37
588686	578	416	22	79	5	< 2	< 0.5	< 0.2	9	0.6	205	161	1.3	2.3	3.4	2	4.5	9	2.4	1.0	0.05	0.11

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	Li	Li2O
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
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-MS	FUS-MS
588687	2	< 2	4	47	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	0.6	10	< 0.4	1.5	< 0.1	< 1	0.4	< 5	1.5	0.5	< 0.01	< 0.01
588688	1080	31	< 2	12	64	< 2	< 0.5	< 0.2	12	0.7	82.7	25	4.3	2.2	194	9	9.3	7	9.0	3.7	< 0.01	< 0.01
588689	248	18	< 2	9	59	< 2	< 0.5	< 0.2	16	< 0.5	28.5	17	1.7	1.8	261	12	2.4	< 5	3.0	3.0	< 0.01	< 0.01
588690	2170	24	14	68	71	6	1.5	0.3	14	14.1	64.3	88	47.1	6.3	11.1	109	12.7	400	25.9	47.2	0.27	0.58
588691	425	176	18	59	4	< 2	< 0.5	< 0.2	1	< 0.5	173	938	0.6	1.8	0.5	2	4.6	6	0.4	0.8	0.11	0.24

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	11.31	1.83	0.65	0.012	0.34	41.86	0.83	0.50	0.102	30.19					1548									
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	47.46	18.95	9.93	0.148	10.20	11.63	1.92	0.22	0.487	0.06			31		154	270	59	270	110	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	71.49	13.38	3.24	0.140	0.16	0.66	2.53	5.49	0.290	0.05			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	32	50	40	150			26	
LKSD-3 Cert																87.0	30.0	47.0	35.0	152			27.0	
TDB-1 Meas																240		90	330	150				
TDB-1 Cert																251		92	323	155				
W-2a Meas	52.87	15.42	11.01	0.170	6.34	11.05	2.23	0.62	1.070	0.13			36	< 1	269	90	44	70	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	0.140			36.0	1.30	262	92.0	43.0	70.0	110	80.0	17.0	1.00	1.20	
W-2a Meas	53.12	15.38	10.77	0.166	6.31	11.30	2.24	0.61	1.063	0.13			35	< 1	277									
W-2a Cert	52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.140			36.0	1.30	262									
SY-4 Meas	50.05	20.17	5.89	0.104	0.51	8.20	6.99	1.65	0.285	0.12			1	3	6									
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	47.73	15.75	11.47	0.174	9.65	13.77	1.82	0.01	0.962	0.01			43	< 1	331	390	54	180	130	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																								
NCS DC70009 (GBW07241) Meas																	4		1050	100	17	10	66	
NCS DC70009 (GBW07241) Cert																	3.7		960	100	16.5	11.2	69.9	
OREAS 100a (Fusion) Meas																	18		180					
OREAS 100a (Fusion) Cert																	18.1		169					
OREAS 101a (Fusion) Meas																	50		450					
OREAS 101a (Fusion) Cert																	48.8		430					
OREAS 101b (Fusion) Meas																	44	< 20	410					
OREAS 101b (Fusion) Cert																	47	9	420					
JR-1 Meas																			< 20		30	17	2	15
JR-1 Cert																			1.67		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 DC86303 Meas																							
NCS DC86303 Cert																							
NCS DC86304 Meas																							
NCS DC86304 Cert																							
NCS DC86304 Meas																							
NCS DC86304 Cert																							
NCS DC86314 Meas																							
NCS DC86314 Cert																							
NCS DC86314 Meas																							
NCS DC86314 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																							
588652 Orig																							
588652 Dup																							
588660 Orig	74.58	14.17	0.68	0.598	0.04	0.76	0.59	6.38	0.052	< 0.01	2.31	100.1	12	5	< 5	120	< 1	< 20	160	550	30	6	45
588660 Dup	74.43	14.14	0.68	0.596	0.03	0.76	0.59	6.40	0.055	< 0.01	2.31	100.0	12	5	< 5	130	< 1	< 20	180	550	29	6	46
588674 Orig																							
588674 Dup																							
588677 Orig	99.49	0.42	0.59	0.007	0.03	0.04	0.07	0.04	0.024	< 0.01	0.06	100.8	< 1	< 1	< 5	70	< 1	< 20	< 10	< 30	1	< 1	< 5
588677 Dup	99.57	0.42	0.58	0.007	0.03	0.04	0.07	0.04	0.023	< 0.01	0.06	100.8	< 1	< 1	< 5	70	< 1	< 20	< 10	< 30	1	< 1	< 5
588682 Orig																							
588682 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
588691 Orig																							
588691 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	0.01	< 0.01	0.01	0.002	0.01	< 0.01	< 0.01	< 0.01	0.001	< 0.01			< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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
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
NIST 694 Meas																						
NIST 694 Cert																						
DNC-1 Meas	4	144	16	33	3					1.0		105										
DNC-1 Cert	5	144.0	18.0	38	3					0.96		118										
GBW 07113 Meas		42	45	361								502										
GBW 07113 Cert		43.0	43.0	403								506										
LKSD-3 Meas	75					< 2	2.7		2		2.2			4.5					11.6	4.9		
LKSD-3 Cert	78.0					2.00	2.70		3.00		2.30			4.80					11.4	4.60		
TDB-1 Meas																				2.7		
TDB-1 Cert																				2.7		
W-2a Meas	20	195	19	86	7	< 2						174	< 0.4		0.4	< 1	< 0.1		2.2	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		
W-2a Meas		193	19	84								174										
W-2a Cert		190	24.0	94.0								182										
SY-4 Meas		1203	116	530								343										
SY-4 Cert		1191	119	517								340										
CTA-AC-1 Meas															2.6				20.8	4.5		
CTA-AC-1 Cert															2.65				21.8	4.4		
BIR-1a Meas		107	13	13								7	0.6									
BIR-1a Cert		110	16	18								6	0.58		0.60							
NCS DC86312 Meas																				23.6		
NCS DC86312 Cert																				23.6		
NCS DC70009 (GBW07241) Meas	501						2.0	1.0	1730	3.0	41.7					2220	1.9		31.0			
NCS DC70009 (GBW07241) Cert	500						1.8	1.3	1700	3.1	41					2200	1.8		28.3			
OREAS 100a (Fusion) Meas						23													52.0	133		
OREAS 100a (Fusion) Cert						24.1													51.6	135		
OREAS 101a (Fusion) Meas						20													39.0	462		
OREAS 101a (Fusion) Cert						21.9													36.6	422		
OREAS 101b (Fusion) Meas						20													36.1	398		
OREAS 101b (Fusion) Cert						21													37.1	396		
JR-1 Meas	243				15	4		< 0.2	3	1.2	20.0		0.5	4.3		2		19	27.0	8.9		
JR-1 Cert	257				15.2	3.25		0.028	2.86	1.19	20.8		0.56	4.51		1.59		19.3	26.7	8.88		
NCS DC86303																					0.21	0.44

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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	
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-MS	FUS-MS	
Meas																							
NCS DC86303 Cert																						0.21	0.460
NCS DC86304 Meas																						1.02	2.21
NCS DC86304 Cert																						1.06	2.29
NCS DC86304 Meas																						1.09	2.34
NCS DC86304 Cert																						1.06	2.29
NCS DC86314 Meas																						1.75	3.77
NCS DC86314 Cert																						1.81	3.89
NCS DC86314 Meas																						1.86	4.00
NCS DC86314 Cert																						1.81	3.89
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						7.98	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
Lithium Tetraborate FX-LT 100 lot#220610B Meas																						8.81	
Lithium Tetraborate FX-LT 100 lot#220610B Cert																						8	
588652 Orig																						< 0.01	< 0.01
588652 Dup																						< 0.01	< 0.01
588660 Orig	2130	24	13	69	61	5	1.3	0.3	12	13.5	63.2	87	41.2	5.9	10.4	102	14.3	422	25.3	47.3	0.27	0.58	
588660 Dup	2130	25	14	68	59	5	1.5	0.3	12	14.2	63.1	87	35.8	6.0	11.2	110	13.9	404	26.1	50.3	0.27	0.58	
588674 Orig																						0.08	0.18
588674 Dup																						0.08	0.18
588677 Orig	3	< 2	3	49	< 1	2	< 0.5	< 0.2	< 1	< 0.5	0.5	8	< 0.4	1.7	0.2	< 1	0.3	< 5	1.9	0.5			
588677 Dup	3	< 2	4	51	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	8	< 0.4	1.8	0.2	< 1	0.1	17	1.8	0.5			
588682 Orig																						< 0.01	< 0.01
588682 Dup																						< 0.01	< 0.01
588691 Orig																						0.11	0.24

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	Hf	Ta	W	Tl	Pb	Th	U	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	
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-MS	FUS-Na2O2	FUS-Na2O2
588691 Dup																						0.11	0.24
Method Blank																						< 0.01	< 0.01
Method Blank																						< 0.01	< 0.01
Method Blank																						< 0.01	< 0.01
Method Blank	< 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			



Date Submitted: 25-May-18
Invoice No.: A18-06899
Invoice Date: 11-Jun-18
Your Reference: Seymour Lake

Ardiden Ltd.
Level 1, 981 Wellington St.,
West Perth, 6005, Western Australia
Perth 6005
Australia

ATTN: Peter Spitalny

CERTIFICATE OF ANALYSIS

21 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-7 Sodium Peroxide Fusion (ICP & ICPMS)

REPORT **A18-06899**

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:

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and flourishes.

Emmanuel Esemé , Ph.D.
Quality Control

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TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
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Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
781001	9.65	6	< 10	8	3	< 2	0.13	< 2	< 0.8	0.8	< 30	1260	< 2	< 0.3	< 0.1	< 0.1	0.23	29.0	< 0.1	5.0	< 0.2	< 10	< 0.2
781002	16.9	< 5	20	18	21	< 2	0.14	11	< 0.8	5.8	< 30	592	3	< 0.3	< 0.1	< 0.1	2.23	19.0	< 0.1	1.8	< 0.2	< 10	1.0
781003	9.67	5	< 10	32	< 3	< 2	0.08	< 2	< 0.8	0.3	< 30	651	< 2	< 0.3	< 0.1	< 0.1	0.17	28.9	< 0.1	2.2	< 0.2	< 10	0.2
781004	15.5	< 5	10	< 3	5	< 2	0.07	11	< 0.8	1.2	120	77.2	20	< 0.3	< 0.1	< 0.1	1.33	75.7	0.1	2.5	< 0.2	30	0.3
781005	15.3	< 5	< 10	12	< 3	< 2	0.04	8	< 0.8	2.2	170	278	31	< 0.3	< 0.1	< 0.1	0.86	68.6	0.1	4.7	< 0.2	30	0.3
781006	6.77	< 5	< 10	3	61	< 2	0.08	< 2	< 0.8	1.3	40	67.8	< 2	< 0.3	< 0.1	< 0.1	0.47	29.5	< 0.1	3.3	< 0.2	< 10	< 0.2
781007	8.74	7	< 10	8	< 3	< 2	0.10	< 2	< 0.8	< 0.2	< 30	135	< 2	< 0.3	< 0.1	< 0.1	0.28	31.7	0.1	< 0.7	< 0.2	< 10	< 0.2
781008	9.61	< 5	< 10	16	< 3	< 2	0.06	< 2	1.4	0.3	< 30	158	4	< 0.3	< 0.1	< 0.1	0.17	31.6	0.1	< 0.7	< 0.2	< 10	0.2
781009	16.4	15	< 10	< 3	< 3	< 2	0.07	< 2	< 0.8	< 0.2	< 30	< 0.1	< 2	< 0.3	< 0.1	< 0.1	2.48	13.9	< 0.1	< 0.7	< 0.2	< 10	< 0.2
781010	7.95	11	< 10	27	< 3	< 2	0.13	< 2	3.3	1.7	60	81.6	7	1.7	1.8	0.1	0.41	29.0	0.6	< 0.7	0.4	< 10	< 0.2
781011	15.8	12	< 10	< 3	< 3	< 2	0.04	< 2	< 0.8	< 0.2	< 30	< 0.1	< 2	< 0.3	< 0.1	< 0.1	3.53	18.9	< 0.1	< 0.7	< 0.2	< 10	< 0.2
781012	10.4	< 5	< 10	33	< 3	< 2	0.06	8	< 0.8	0.8	90	161	26	< 0.3	< 0.1	< 0.1	0.22	26.2	< 0.1	< 0.7	< 0.2	30	0.2
781013	13.9	< 5	100	31	16	> 5000	0.11	< 2	3.0	2.1	150	3680	2	0.7	0.1	< 0.1	0.82	114	1.5	9.3	< 0.2	< 10	< 0.2
781014	12.2	< 5	10	11	< 3	106	0.02	6	< 0.8	1.1	110	59.1	24	< 0.3	< 0.1	< 0.1	0.87	83.5	0.1	7.3	< 0.2	20	0.2
781015	8.78	51	120	89	< 3	34	0.21	< 2	3.7	1.4	50	21.2	7	4.5	4.2	0.2	0.28	31.7	1.8	< 0.7	1.2	< 10	< 0.2
781016	9.15	< 5	< 10	26	< 3	6	0.13	< 2	1.1	1.8	240	10.3	5	0.8	0.4	0.1	0.31	25.0	0.5	< 0.7	< 0.2	< 10	< 0.2
781017	9.59	< 5	< 10	39	< 3	5	0.08	< 2	< 0.8	4.5	680	8.4	< 2	< 0.3	< 0.1	0.1	0.21	26.1	< 0.1	< 0.7	< 0.2	< 10	< 0.2
781018	9.57	< 5	< 10	65	< 3	4	0.10	< 2	< 0.8	0.2	< 30	15.1	< 2	< 0.3	0.1	0.2	0.14	28.5	< 0.1	< 0.7	< 0.2	< 10	< 0.2
781019	9.64	< 5	< 10	5	< 3	11	0.10	< 2	3.5	< 0.2	160	18.2	< 2	0.3	0.2	< 0.1	0.22	18.8	0.2	< 0.7	< 0.2	< 10	< 0.2
781020	8.56	< 5	< 10	4	< 3	2	0.04	< 2	4.6	< 0.2	< 30	30.6	< 2	0.3	0.2	< 0.1	0.24	24.4	0.4	< 0.7	< 0.2	< 10	< 0.2
781021	8.50	111	20	3070	28	46	1.09	160	421	8.4	340	389	327	4.9	1.7	4.5	4.32	28.0	14.0	5.4	0.7	< 10	22.1

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	0.8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	
781001	10.7	< 0.4	218	< 0.01	664	< 1	< 2.4	< 0.4	< 10	12.9	< 0.1	> 5000	< 0.01	< 2	< 0.8	> 30.0	0.1	< 0.5	14	2.0	< 0.1	< 6	< 0.1
781002	8.1	< 0.4	4210	0.42	3340	< 1	259.0	< 0.4	< 10	< 0.8	0.1	> 5000	< 0.01	< 2	< 0.8	21.5	< 0.1	263	4	112	< 0.1	< 6	0.1
781003	10.0	< 0.4	68	< 0.01	28	< 1	< 2.4	< 0.4	< 10	9.4	< 0.1	> 5000	< 0.01	< 2	< 0.8	> 30.0	< 0.1	0.6	16	2.1	< 0.1	< 6	0.1
781004	0.4	< 0.4	> 10000	0.11	870	25	4.5	0.5	40	< 0.8	0.1	201	< 0.01	< 2	< 0.8	> 30.0	0.1	60.9	4	4.8	< 0.1	< 6	< 0.1
781005	0.4	< 0.4	> 10000	0.06	686	29	3.8	0.4	40	2.5	0.1	162	< 0.01	< 2	< 0.8	> 30.0	0.1	34.7	< 3	10.2	< 0.1	< 6	0.1
781006	0.1	< 0.4	2420	< 0.01	118	< 1	< 2.4	< 0.4	10	3.2	< 0.1	61.0	< 0.01	< 2	< 0.8	> 30.0	< 0.1	4.1	7	< 0.2	< 0.1	< 6	< 0.1
781007	7.4	0.6	36	< 0.01	35	< 1	4.9	< 0.4	< 10	27.1	0.1	1940	0.04	< 2	< 0.8	> 30.0	0.1	4.9	3	1.8	< 0.1	< 6	0.4
781008	9.6	1.6	9	< 0.01	28	< 1	< 2.4	< 0.4	< 10	48.2	0.2	2870	0.02	< 2	< 0.8	> 30.0	0.1	2.5	4	2.1	< 0.1	< 6	0.2
781009	8.2	< 0.4	< 3	0.45	< 3	< 1	< 2.4	< 0.4	< 10	< 0.8	< 0.1	< 0.4	< 0.01	< 2	< 0.8	21.3	< 0.1	< 0.5	< 3	< 0.2	< 0.1	< 6	< 0.1
781010	7.4	3.0	32	0.01	208	3	8.7	1.0	40	101	0.3	1010	< 0.01	< 2	43.6	> 30.0	0.3	2.7	8	3.2	0.2	< 6	1.4
781011	8.4	< 0.4	< 3	0.50	< 3	< 1	< 2.4	< 0.4	< 10	< 0.8	< 0.1	> 5000	< 0.01	< 2	< 0.8	20.4	< 0.1	< 0.5	< 3	< 0.2	< 0.1	< 6	< 0.1
781012	11.5	< 0.4	4	< 0.01	46	25	3.9	< 0.4	30	31.2	0.1	3050	< 0.01	< 2	37.3	> 30.0	0.1	0.7	15	0.3	< 0.1	< 6	< 0.1
781013	6.0	5.0	5700	0.03	6080	23	30.7	3.8	30	17.4	1.1	> 5000	< 0.01	< 2	< 0.8	25.1	2.2	5.6	6	126	0.2	< 6	0.1
781014	0.3	1.8	> 10000	0.02	819	22	18.3	< 0.4	30	< 0.8	0.1	172	< 0.01	< 2	< 0.8	27.9	0.1	4.5	5	47.0	< 0.1	< 6	0.2
781015	8.9	2.5	92	< 0.01	477	2	12.4	1.5	20	66.2	0.4	990	< 0.01	< 2	22.1	> 30.0	0.9	0.5	36	1.8	0.5	< 6	3.5
781016	9.9	0.7	9	< 0.01	32	32	4.4	0.5	< 10	60.5	0.2	686	< 0.01	< 2	2.1	> 30.0	0.4	< 0.5	25	1.0	0.1	< 6	2.0
781017	10.4	0.5	5	< 0.01	40	119	< 2.4	< 0.4	20	77.3	0.1	865	< 0.01	< 2	< 0.8	> 30.0	< 0.1	< 0.5	16	0.3	< 0.1	< 6	< 0.1
781018	10.1	0.5	< 3	< 0.01	14	< 1	< 2.4	< 0.4	< 10	41.4	< 0.1	842	< 0.01	< 2	16.1	> 30.0	< 0.1	< 0.5	23	< 0.2	< 0.1	< 6	0.1
781019	8.8	3.2	9	< 0.01	48	12	4.4	0.8	< 10	65.7	0.3	909	< 0.01	< 2	< 0.8	> 30.0	0.2	2.2	< 3	0.8	< 0.1	< 6	0.2
781020	8.8	3.2	< 3	< 0.01	46	< 1	9.1	1.5	< 10	62.6	0.5	1520	< 0.01	< 2	< 0.8	> 30.0	0.5	1.3	< 3	6.0	0.1	< 6	1.3
781021	2.5	278	> 10000	0.59	469	43	> 5000.0	157	40	27.1	50.9	844	0.04	31	< 0.8	> 30.0	19.4	2960	223	28.5	1.2	< 6	115

Analyte Symbol	Ti	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
781001	< 0.01	137	< 0.1	0.4	< 5	< 0.7	< 0.1	< 0.1	< 30
781002	0.10	66.0	< 0.1	< 0.1	< 5	13.7	< 0.1	< 0.1	690
781003	< 0.01	93.7	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
781004	0.01	1.3	< 0.1	0.5	< 5	< 0.7	1.0	0.1	70
781005	< 0.01	1.3	< 0.1	1.3	< 5	< 0.7	0.7	< 0.1	< 30
781006	< 0.01	0.5	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
781007	< 0.01	11.8	< 0.1	< 0.1	< 5	0.7	0.4	0.1	< 30
781008	< 0.01	19.0	< 0.1	< 0.1	< 5	< 0.7	0.2	< 0.1	< 30
781009	0.22	< 0.1	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
781010	< 0.01	6.9	0.4	0.7	< 5	< 0.7	16.6	3.6	< 30
781011	0.09	< 0.1	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
781012	< 0.01	22.9	< 0.1	0.4	< 5	< 0.7	0.3	< 0.1	< 30
781013	< 0.01	72.4	< 0.1	75.2	< 5	8.3	5.3	0.2	400
781014	< 0.01	1.5	< 0.1	1.1	< 5	< 0.7	0.2	< 0.1	< 30
781015	< 0.01	5.5	0.8	2.6	< 5	0.8	39.7	6.5	380
781016	< 0.01	4.1	0.1	1.7	7	1.2	3.2	0.4	< 30
781017	< 0.01	5.1	< 0.1	0.5	6	4.2	< 0.1	0.1	< 30
781018	< 0.01	5.2	< 0.1	< 0.1	< 5	< 0.7	1.0	0.2	< 30
781019	< 0.01	5.4	< 0.1	0.5	< 5	0.7	2.8	0.3	< 30
781020	< 0.01	8.6	< 0.1	0.3	< 5	< 0.7	2.5	0.2	< 30
781021	0.39	7.3	0.2	23.5	57	13.2	18.3	1.7	330

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
GXR-1 Meas		411	10	733	< 3	1410		4	173	7.8	< 30	1.0	1080	4.4		0.7		13.2	4.3			< 10	0.8
GXR-1 Cert		427	15.0	750	1.22	1380		3.30	17.0	8.20	12.0	3.00	1110	4.30		0.690		13.8	4.20			0.960	0.770
PTM-1a Meas		1960								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
FK-N Meas																							
FK-N Cert																							
NIST 696 Meas	> 25.0																						
NIST 696 Cert	28.9																						
NIST 696 Meas	> 25.0																						
NIST 696 Cert	28.9																						
GBW 07239 (NCS DC 70007) Meas		< 5				< 2			57.7	12.6			48					33.3		12.2			
GBW 07239 (NCS DC 70007) Cert		1				1			60.3	13.5			49					23.1		12.4			
Oreas 74a (Fusion) Meas																	13.6						
Oreas 74a (Fusion) Cert																	13.7						
OREAS 131a (Fusion) Meas		102		844				77		23.9			307				5.92						
OREAS 131a (Fusion) Cert		91.0		865				80		25			324				5.90						
OREAS 131a (Fusion) Meas																	5.79						
OREAS 131a (Fusion) Cert																	5.90						
OREAS 134b (Fusion) Meas				1510				589		105			1270				12.1						
OREAS 134b (Fusion) Cert				1490				569		104			1340				12.69						
MP-1b Meas		> 10000				924	2.35						> 10000				8.09						547
MP-1b Cert		23000.00				954.00	2.47						30700				8.19						565.00
MP-1b Meas							2.49										8.10						
MP-1b Cert							2.47										8.19						
OREAS 101a (Fusion) Meas									1370	52.2			441	35.9	20.1	8.8	11.2		50.3		6.6		
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06	11.06		43.4		6.46		
NCS DC73304 (GBW 07106) Meas																							
NCS DC73304																							

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
(GBW 07106) Cert																							
OREAS 13b (fusion) Meas	8.32			686			5.34				> 10000						8.47						
OREAS 13b (fusion) Cert	8.41			694			5.57				10800.00						8.41						
OREAS 13b (fusion) Meas	8.20						5.59										8.33						
OREAS 13b (fusion) Cert	8.41						5.57										8.41						
NCS DC86303 Meas												357											
NCS DC86303 Cert												350											
NCS DC86314 Meas												2930											
NCS DC86314 Cert												2830											
CZN-4 Meas	0.07	339						2610		92.3			4000										
CZN-4 Cert	0.0715	356.0000						2604.0000		93.5			4030.0000										
OREAS 922 (Peroxide Fusion) Meas	7.39			481		11	0.49		91.5	19.6	100	6.0	2170	5.7	3.1	1.5	5.70	23.6	6.2		1.1	< 10	0.4
OREAS 922 (Peroxide Fusion) Cert	7.59			481		11	0.49		88.0	20.9	90	7.5	2220	5.75	3.38	1.52	5.71	21.2	6.94		1.20	5.93	0.3
OREAS 922 (Peroxide Fusion) Meas	7.19			461		11	0.50		82.1	21.1	80	5.0	2090	5.7	3.2	1.4	5.65	23.6	6.0		1.0	< 10	0.4
OREAS 922 (Peroxide Fusion) Cert	7.59			481		11	0.49		88.0	20.9	90	7.5	2220	5.75	3.38	1.52	5.71	21.2	6.94		1.20	5.93	0.3
OREAS 621 (Peroxide Fusion) Meas	6.52	86		2570	< 3	4	1.94	285	49.8	29.4	40	3.5	3600				3.70	25.1					1.8
OREAS 621 (Peroxide Fusion) Cert	6.63	85		2610	2	4	2.00	295	52.0	31.4	50	3.6	3680				3.71	26.5					1.9
OREAS 621 (Peroxide Fusion) Meas	6.41	87		2560	< 3	4	1.90	278	47.7	30.8	50	4.0	3510				3.70	26.7					1.7
OREAS 621 (Peroxide Fusion) Cert	6.63	85		2610	2	4	2.00	295	52.0	31.4	50	3.6	3680				3.71	26.5					1.9
781009 Orig	16.1	11	10	6	7	< 2	0.06	14	1.5	1.5	< 30	103	15	2.6	2.6	< 0.1	2.43	10.2	1.0	< 0.7	0.6	< 10	4.4

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2
781009 Dup	16.6	14	10	7	7	< 2	0.08	20	1.6	2.0	60	114	25	2.8	3.0	< 0.1	2.53	21.5	1.0	< 0.7	0.7	20	4.5
781011 Orig	16.1	7	< 10	19	18	< 2	0.02	27	< 0.8	1.9	60	103	18	< 0.3	< 0.1	< 0.1	3.57	23.4	0.1	< 0.7	< 0.2	20	1.8
781011 Dup	15.4	11	< 10	19	17	< 2	0.05	24	< 0.8	1.4	< 30	102	11	< 0.3	< 0.1	< 0.1	3.50	23.2	0.1	< 0.7	< 0.2	< 10	1.8
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.2	< 30	< 0.1	< 2	< 0.3	< 0.1	< 0.1	< 0.05	0.4	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	< 0.2	< 30	< 0.1	< 2	< 0.3	< 0.1	< 0.1	< 0.05	10.1	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01						0.02										< 0.05						
Method Blank	< 0.01						0.03										0.05						

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	0.8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	0.01
Method Code	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2
GXR-1 Meas		7.4	6		821	19	< 2.4	18.3	40	693		13.4		14.8		2.9	49.7	277	< 0.2	0.7	13	2.4	
GXR-1 Cert		7.50	8.20		852	18.0	0.800	18.0	41.0	730		14.0		16.6		2.70	54.0	275	0.175	0.830	13.0	2.44	
PTM-1a Meas									> 10000				23.6										
PTM-1a Cert									474400.00				22.4										
FK-N Meas													0.01										
FK-N Cert													0.00600										
NIST 696 Meas																							
NIST 696 Cert																							
NIST 696 Meas																							
NIST 696 Cert																							
GBW 07239 (NCS DC 70007) Meas		35.5			> 10000	1140		29.4	20	24.5	7.6						27.3						
GBW 07239 (NCS DC 70007) Cert		37.4			11500	1100		29.8	20.9	26.1	7.40						33.2						
Oreas 74a (Fusion) Meas													7.32		15.4								
Oreas 74a (Fusion) Cert													7.25		15.14								
OREAS 131a (Fusion) Meas										> 5000			4.66										
OREAS 131a (Fusion) Cert										17400.00			4.82										
OREAS 131a (Fusion) Meas													4.60										
OREAS 131a (Fusion) Cert													4.82										
OREAS 134b (Fusion) Meas													20.2										
OREAS 134b (Fusion) Cert													20.74										
MP-1b Meas				0.03		292				> 5000			14.0		16.7		> 10000						
MP-1b Cert				0.024		285				20900			13.79		16.79		16100						
MP-1b Meas				0.02									13.4		17.1								
MP-1b Cert				0.024									13.79		16.79								
OREAS 101a (Fusion) Meas	2.3	912		1.21	954	20		436			146					48.6			6.0		37.8	0.39	
OREAS 101a (Fusion) Cert	2.34	816		1.23	964	21.9		403			134					48.8			5.92		36.6	0.395	
NCS DC73304 (GBW 07106) Meas													0.10		> 30.0								0.16
NCS DC73304 (GBW 07106)													0.086		42.24								0.16

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	0.8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	0.01
Method Code	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-Na2O2
Cert																							
OREAS 13b (fusion) Meas	2.4			3.11	1190								1.19		21.9			523					0.72
OREAS 13b (fusion) Cert	2.30			3.01	1300.000								1.19		22.9			537					0.711
OREAS 13b (fusion) Meas	2.3			2.99									1.18		23.9								0.70
OREAS 13b (fusion) Cert	2.30			3.01									1.19		22.9								0.711
NCS DC86303 Meas			2080									1310											
NCS DC86303 Cert			2100									1330											
NCS DC86314 Meas			> 10000									> 5000					151						
NCS DC86314 Cert			18100.00									11400					152						
CZN-4 Meas										1880			> 25.0	90.4									
CZN-4 Cert										1861.0000			33.07	86.7									
OREAS 922 (Peroxide Fusion) Meas	2.6	45.4	27	1.63	889		15.9	39.8	60	60.3	10.3	169	0.39		28.9	7.2	9.6	60	1.2	1.0		17.1	0.44
OREAS 922 (Peroxide Fusion) Cert	2.60	45.6	29	1.61	880		15.2	38.9	40	64.0	10.6	167	0.389		30.51	7.31	10	58.0	1.3	1.02		17.7	0.439
OREAS 922 (Peroxide Fusion) Meas	2.5	43.1	27	1.63	874		13.4	37.1	50	61.6	10.2	170	0.38		> 30.0	6.9	8.5	59	1.1	0.9		17.4	0.44
OREAS 922 (Peroxide Fusion) Cert	2.60	45.6	29	1.61	880		15.2	38.9	40	64.0	10.6	167	0.389		30.51	7.31	10	58.0	1.3	1.02		17.7	0.439
OREAS 621 (Peroxide Fusion) Meas	2.2	26.9		0.51	513	15	8.8	21.9		> 5000	5.9	87.9	4.56		28.0			104				8.1	0.18
OREAS 621 (Peroxide Fusion) Cert	2.23	26.1		0.516	554	14	10.4	24.2		13300	6.64	89.0	4.51		28.1			101				8.6	0.181
OREAS 621 (Peroxide Fusion) Meas	2.2	26.1		0.49	524	9	9.2	21.8		> 5000	5.9	89.0	4.26		27.5			95				8.3	0.18
OREAS 621 (Peroxide Fusion) Cert	2.23	26.1		0.516	554	10	10.4	24.2		13300	6.64	89.0	4.51		28.1			101				8.6	0.181
781009 Orig	8.0	0.8	1550	0.43	714	< 1	218.5	0.8	< 10	1.4	0.2	2380	< 0.01	24.1	21.0	0.6	266	< 3	52.8	0.3	< 6	1.3	0.22
781009 Dup	8.3	0.9	1580	0.46	738	2	221.2	1.1	20	19.7	0.3	2340	< 0.01	7.8	21.6	0.5	272	3	53.9	0.3	< 6	1.4	0.23

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	0.8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	0.01
Method Code	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- MS- Na2O2	FUS- Na2O2
781011 Orig	8.7	< 0.4	1830	0.51	848	106	479.1	< 0.4	30	< 0.8	0.1	4910	< 0.01	19.5	20.8	0.1	434	< 3	59.7	< 0.1	< 6	0.2	0.09
781011 Dup	8.2	< 0.4	1840	0.48	853	6	485.2	< 0.4	10	< 0.8	0.1	> 5000	< 0.01	23.8	20.1	0.1	424	< 3	60.1	< 0.1	< 6	0.2	0.09
Method Blank	< 0.1	< 0.4	< 3	< 0.01	< 3	< 1	< 2.4	< 0.4	< 10	< 0.8	0.1	< 0.4	< 0.01	< 0.8	< 0.01	< 0.1	< 0.5	< 3	< 0.2	< 0.1	< 6	< 0.1	< 0.01
Method Blank	< 0.1	< 0.4	< 3	< 0.01	< 3	1	< 2.4	< 0.4	< 10	< 0.8	< 0.1	< 0.4	< 0.01	< 0.8	< 0.01	< 0.1	< 0.5	< 3	< 0.2	< 0.1	< 6	< 0.1	< 0.01
Method Blank	< 0.1			0.01									< 0.01		< 0.01								< 0.01
Method Blank	< 0.1			< 0.01									< 0.01		< 0.01								< 0.01

Analyte Symbol	Tl	Tm	U	V	W	Y	Yb	Zn	Sb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	5	0.7	0.1	0.1	30	2
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
GXR-1 Meas	0.4	0.4	33.9	78	156	32.2	1.3	7500	128
GXR-1 Cert	0.390	0.430	34.9	80.0	164	32.0	1.90	760	122
PTM-1a Meas									
PTM-1a Cert									
FK-N Meas									
FK-N Cert									
NIST 696 Meas									
NIST 696 Cert									
NIST 696 Meas									
NIST 696 Cert									
GBW 07239 (NCS DC 70007) Meas					960	37.5		140	
GBW 07239 (NCS DC 70007) Cert					1000.00	34.2		120	
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 131a (Fusion) Meas								> 10000	46
OREAS 131a (Fusion) Cert								28400.00	49
OREAS 131a (Fusion) Meas									
OREAS 131a (Fusion) Cert									
OREAS 134b (Fusion) Meas								> 10000	116
OREAS 134b (Fusion) Cert								181200.00	111
MP-1b Meas					965			> 10000	
MP-1b Cert					1100.00			167000	
MP-1b Meas									
MP-1b Cert									
OREAS 101a (Fusion) Meas		2.9	420	77		190	17.1		
OREAS 101a (Fusion) Cert		2.90	422	83		183	17.5		
NCS DC73304 (GBW 07106) Meas									
NCS DC73304 (GBW 07106)									

Analyte Symbol	Tl	Tm	U	V	W	Y	Yb	Zn	Sb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	5	0.7	0.1	0.1	30	2
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
Cert									
OREAS 13b (fusion) Meas									
OREAS 13b (fusion) Cert									
OREAS 13b (fusion) Meas									
OREAS 13b (fusion) Cert									
NCS DC86303 Meas					7.5				
NCS DC86303 Cert					8.9				
NCS DC86314 Meas					75.9				
NCS DC86314 Cert					79.0				
CZN-4 Meas								> 10000	
CZN-4 Cert								550700.00	
OREAS 922 (Peroxide Fusion) Meas	0.9	0.5	3.2	84		30.5	3.2	270	
OREAS 922 (Peroxide Fusion) Cert	0.9	0.510	3.6	92.0		31.1	3.17	280	
OREAS 922 (Peroxide Fusion) Meas	0.8	0.4	3.5	89		31.8	3.0	250	
OREAS 922 (Peroxide Fusion) Cert	0.9	0.510	3.6	92.0		31.1	3.17	280	
OREAS 621 (Peroxide Fusion) Meas	2.0		2.6	35	2.3	13.1	1.0	> 10000	142
OREAS 621 (Peroxide Fusion) Cert	2.0		3.0	36.3	2.6	13.9	1.03	52200	146
OREAS 621 (Peroxide Fusion) Meas	2.0		2.5	34	2.4	13.0	1.1	> 10000	139
OREAS 621 (Peroxide Fusion) Cert	2.0		3.0	36.3	2.6	13.9	1.03	52200	146
781009 Orig	9.0	0.5	2.1	< 5	16.7	31.3	4.3	180	< 2
781009 Dup	8.9	0.6	2.4	< 5	16.7	34.0	4.9	170	< 2

Analyte Symbol	Tl	Tm	U	V	W	Y	Yb	Zn	Sb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	5	0.7	0.1	0.1	30	2
Method Code	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2	FUS-MS-Na2O2
781011 Orig	21.3	< 0.1	0.4	93	11.4	0.1	0.1	400	< 2
781011 Dup	21.8	< 0.1	0.3	96	11.0	< 0.1	< 0.1	410	< 2
Method Blank	< 0.1	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	< 30	< 2
Method Blank	< 0.1	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	< 30	< 2
Method Blank									
Method Blank									

APPENDIX III: DRILL LOGS

Project:	Seymour Lake		
Prospect:	Aubry		
Claim #:			
Hole ID:	ASD001		
Start Date:	14 July 2018		
End Date:	16 July 2018		
EOH Depth:	158		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585210.21	m
	UTM East:	397033.75	m
	Elevation:	399.21	m
	Dip:	-90	at setup
	Az:	n/a	at setup
	Collar Survey Method:	iSxBlue RTN	
	Surveyed by:	Carlos Munoz	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	158	BTW	
Drill comments (issues, casing, gear in hole): 2m casing + shoe left in hole			
Geology comments: Final collar survey pending			

GEOLOGICAL CORE LOG

Date Logged: 16-17 July 2018

EDH called by: AJR

EDH Reason: Beyond target depth

Geologist: Adam Richardson

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments
AS0001	0.00	0.10	0.10																		
AS0001	0.10	78.78	78.68		gm	MBBp	PL							CH	Ptv	W					fine grained muscovite to coarse plagioclase volcanic. Fine grained calcic alteration throughout lower contact zone.
AS0001	78.78	79.58	0.80		LT	FIGPmu	PGC														microcline and muscovite pegmatite with ~2% greenish spodumene
AS0001	79.58	89.07	9.49		LT	FIGPsp	PGC					5									fine gr. muscovite quartz pegmatite with light greenish spodumene
AS0001	89.07	101.58	12.51		GRN	MBBp	PL							CH	Ptv	W					weak pervasively altered plagioclase volcanic. Sharp upper and lower contacts
AS0001	101.58	104.45	2.87		WHT	FIGPsp	PGC					3									Microcline pegmatite with ~2% greenish spodumene
AS0001	104.45	123.53	19.08		GRN	MBBp	PL							CH	Ptv	W					Weak pervasively chlorite altered plagioclase volcanic. Sharp upper and lower contacts
AS0001	123.53	128.05	4.52		LT	FIGPsp	PGC					4									fine gr. muscovite quartz pegmatite with coarse greenish spodumene
AS0001	128.05	129.13	1.08		WHT	FIGPsp	PGC			APT											White spilitic with coarse microcline and rare bluish apatite
AS0001	129.13	148.44	19.31		GRN	MBBp	PL							CH	Ptv	W					greenish weakly chlorite altered plagioclase volcanic
AS0001	148.44	150.15	1.71		PKK	FIGPsp	PGC					1									pinkish microcline dominated pegmatite. ~1% light greenish spodumene
AS0001	150.15	158	7.85		GRN	MBBp	PL							CH	Ptv	W					greenish weakly chlorite altered plagioclase volcanic

ASD001					
ASD001					
ASD001					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD001	2	5	3.00	3.03	101.00	2.87	94.72	5
ASD001	5	8	3.00	3.26	108.67	2.99	91.72	11
ASD001	8	11	3.00	2.99	99.67	2.90	96.99	3
ASD001	11	14	3.00	3.03	101.00	2.87	94.72	4
ASD001	14	17	3.00	3.04	101.33	2.79	91.78	5
ASD001	17	20	3.00	2.94	98.00	2.93	99.66	4
ASD001	20	23	3.00	3.07	102.33	3.07	100.00	5
ASD001	23	26	3.00	2.95	98.33	2.87	97.29	6
ASD001	26	29	3.00	3.08	102.67	3.02	98.05	4
ASD001	29	32	3.00	2.73	91.00	2.64	96.70	2
ASD001	32	35	3.00	3.30	110.00	2.96	89.70	7
ASD001	35	38	3.00	3.17	105.67	3.03	95.58	4
ASD001	38	41	3.00	2.95	98.33	2.80	94.92	8
ASD001	41	44	3.00	3.00	100.00	2.98	99.26	13
ASD001	44	47	3.00	3.02	100.67	2.95	97.68	6
ASD001	47	50	3.00	2.94	98.00	2.76	93.88	6
ASD001	50	53	3.00	3.00	100.00	2.85	95.00	3
ASD001	53	56	3.00	3.03	101.00	2.69	88.78	3
ASD001	56	59	3.00	3.03	101.00	2.69	88.78	4
ASD001	59	62	3.00	3.05	101.67	2.80	91.80	4
ASD001	62	65	3.00	3.08	102.67	2.99	97.08	3
ASD001	65	68	3.00	3.02	100.67	2.75	91.06	5
ASD001	68	71	3.00	2.73	91.00	2.49	91.21	5
ASD001	71	74	3.00	2.85	95.00	2.68	94.04	4
ASD001	74	77	3.00	3.24	108.00	2.70	83.33	7
ASD001	77	80	3.00	3.29	109.67	2.63	79.94	9
ASD001	80	83	3.00	2.98	99.33	2.86	95.97	3
ASD001	83	86	3.00	3.02	100.67	2.84	94.04	3
ASD001	86	89	3.00	3.02	100.67	3.02	100.00	4
ASD001	89	92	3.00	3.06	102.00	3.06	100.00	3
ASD001	92	95	3.00	3.03	101.00	2.94	97.03	3
ASD001	95	98	3.00	3.05	101.67	2.96	97.05	4
ASD001	98	101	3.00	3.04	101.33	2.89	95.07	6
ASD001	101	104	3.00	3.03	101.00	3.03	100.00	2
ASD001	104	107	3.00	2.90	96.67	2.29	78.97	10
ASD001	107	110	3.00	3.17	105.67	3.05	96.21	5
ASD001	110	113	3.00	2.98	99.33	2.60	87.25	7
ASD001	113	116	3.00	3.00	100.00	2.87	95.67	4
ASD001	116	119	3.00	2.99	99.67	2.97	99.33	1
ASD001	119	122	3.00	3.07	102.33	3.07	100.00	4
ASD001	122	125	3.00	2.96	98.67	2.54	85.81	8
ASD001	125	128	3.00	3.01	100.33	2.54	84.39	5
ASD001	128	131	3.00	2.96	98.67	2.35	79.39	6
ASD001	131	134	3.00	3.10	103.33	2.76	89.03	4

ASD001	134	137	3.00
ASD001	137	140	3.00
ASD001	140	143	3.00
ASD001	143	146	3.00
ASD001	146	149	3.00
ASD001	149	152	3.00
ASD001	152	155	3.00
ASD001	155	158	3.00

2.93	97.67
2.44	81.33
3.39	113.00
3.04	101.33
2.89	96.33
3.00	100.00
3.00	100.00
1.87	62.33

2.28	77.82	10
1.09	44.67	11
3.34	98.53	4
2.70	88.82	8
2.54	87.89	6
2.83	94.33	4
3.00	100.00	3
1.62	86.63	4

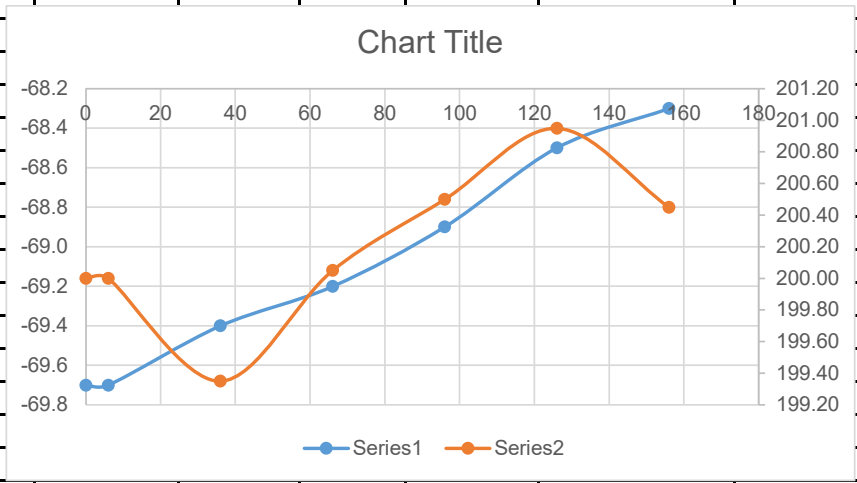
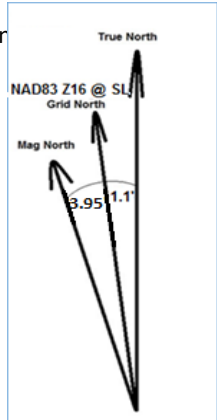
ARDIDEN LIMITED

Hole No.	ASD01					Date:	15 July 2018			
Geologist: AJR					Core Box Intervals					
Box #	From	To		Box #	From	To		Box #	From	To
1	0.1	4.30		45				89		
2	4.3	8.60		46				90		
3	8.6	12.85		47				91		
4	12.9	17.22		48				92		
5	17.2	21.62		49				93		
6	21.6	26.12		50				94		
7	26.1	30.56		51				95		
8	30.6	34.99		52				96		
9	35.0	39.33		53				97		
10	39.3	43.65		54				98		
11	43.7	47.99		55				99		
12	48.0	52.28		56				100		
13	52.3	56.39		57				101		
14	56.4	60.65		58				102		
15	60.7	65.07		59				103		
16	65.1	69.23		60				104		
17	69.2	73.54		61				105		
18	73.5	77.64		62				106		
19	77.6	82.67		63				107		
20	82.7	86.20		64				108		
21	86.2	90.55		65				109		
22	90.6	94.65		66				110		
23	94.7	98.67		67				111		
24	98.7	103.00		68				112		
25	103.0	107.18		69				113		
26	107.2	111.20		70				114		
27	111.2	115.50		71				115		
28	115.5	119.70		72				116		
29	119.7	124.00		73				117		
30	124.0	128.05		74				118		
31	128.1	132.26		75				119		
32	132.3	136.60		76				120		
33	136.6	140.00		77				121		
34	140.0	144.18		78				122		
35	144.2	148.30		79				123		
36	148.3	152.33		80				124		
37	152.3	156.81		81				125		
38	156.8	158.00		82				126		
39				83				127		
40				84				128		
41				85				129		
42				86				130		
43				87				131		
44				88				132		

SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:			Sampled by:			DATE:						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
389601	ASD001	68.78	70.00	1.22								
389602	ASD001	70.00	71.50	1.50								
389603	ASD001	71.50	73.00	1.50								
389604	ASD001	73.00	74.50	1.50								
389605	ASD001	74.50	76.00	1.50								
389606	ASD001	76.00	77.50	1.50								
389607	ASD001	77.50	78.78	1.28								
389608	ASD001	78.78	79.50	0.72								
389609	ASD001	79.50	80.60	1.10								
389610	ASD001	80.60	81.61	1.01								
389611	ASD001			0.00	Blank							
389612	ASD001	81.61	82.83	1.22								
389613	ASD001	82.83	83.81	0.98								
389614	ASD001	83.81	84.70	0.89								
389615	ASD001	84.70	85.70	1.00								
389616	ASD001	85.70	86.70	1.00								
389617	ASD001	86.70	87.30	0.60								
389618	ASD001	87.30	88.00	0.70								
389619	ASD001			0.00	STD	Oreas 149						
389620	ASD001	88.00	89.07	1.07								
389621	ASD001	89.07	90.55	1.48								
389622	ASD001	90.55	92.00	1.45								
389623	ASD001	92.00	93.50	1.50								
389624	ASD001	93.50	95.00	1.50								
389625	ASD001	95.00	96.50	1.50								
389626	ASD001	96.50	98.00	1.50								
389627	ASD001	98.00	99.00	1.00								
389628	ASD001	99.00	100.50	1.50								
389629	ASD001	100.50	101.58	1.08								
389630	ASD001	101.58	102.50	0.92								
389631	ASD001			0.00	Blank							
389632	ASD001	102.50	103.50	1.00								
389633	ASD001	103.50	104.45	0.95								
389634	ASD001	104.45	106.00	1.55								
389635	ASD001	106.00	107.50	1.50								
389636	ASD001	120.50	122.00	1.50								
389637	ASD001	122.00	123.53	1.53								
389638	ASD001	123.53	124.50	0.97								
389639	ASD001	124.50	125.00	0.50								
389640	ASD001	124.50	125.00	0.50	FD	389639						
389641	ASD001	125.00	126.00	1.00								
389642	ASD001	126.00	127.00	1.00								
389643	ASD001	127.00	128.05	1.05								
389644	ASD001	145.50	147.00	1.50								
389645	ASD001	147.00	148.44	1.44								
389646	ASD001	148.44	149.40	0.96								
389647	ASD001	149.40	150.15	0.75								
389648	ASD001	150.15	151.50	1.35								
389649	ASD001	151.50	153.00	1.50								
389650	ASD001	128.05	129.13	1.08								
E5563560	ASD001	129.13	130.50	1.37								
E5563561	ASD001	130.50	132.00	1.50								

Project:	Seymour Lake		
Prospect:	Aubry		
Claim #:	AR		
Hole ID:	ASD002		
Start Date:	17 July 2018		
End Date:	19 July 2018		
EOH Depth:	156		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585293.96	m
	UTM East:	397016.86	m
	Elevation:	380.98	m
	Dip:	-70	at setup
	Az:	206	at setup
	Collar Survey Method:	iSxBlue RTN	
	Surveyed by:	Carlos Munoz	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	156	BTW	
Drill comments (issues, casing, gear in hole): 3m casing + shoe			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD002	0	-69.7	192.78		193.9	200.00		APS	Dip Inferred. APS taken on Casir
ASD002	6	-69.7		212.3	208.4	200.00	5878.00	Reflex	
ASD002	36	-69.4		203.3	199.4	199.35	5687.00	Reflex	
ASD002	66	-69.2		204.0	200.1	200.05	5696.00	Reflex	
ASD002	96	-68.9		208.3	204.4	200.50	5696.00	Reflex	
ASD002	126	-68.5		204.9	201.0	200.95	5677.00	Reflex	
ASD002	156	-68.3		204.4	200.5	200.45	5696.00	Reflex	



GEOLOGICAL CORE LOG

Date Logged:				EOH called by:														EOH Reason:									
Geologist:																											
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments						
ASD002	0.00	3.00				CB																overburden/casing					
ASD002	3.00	12.62			DK	MD	MAS															fresh, fine grained dark coloured mafic intrusive rock					
ASD002	12.62	19.61			GRN	MDp	PL							CH	Ptv	W						pervasively weakly chloritized, sheared pillowed mafic volcanics					
ASD002	19.61	19.69			PNK	FIGSp						1										pinkish, coarse grained labradorite pegmatite with small whitish-greenish spodumene					
ASD002	19.69	27.04			GRN	MDp	PL							CH	Ptv	W				Str	M	as above pillowed mafic volcanics, moderately sheared					
ASD002	27.04	27.34			PNK	FIGSp																pink, labradorite quartz mica pegmatite					
ASD002	27.34	46.25			GRN	MDp	PL							CH	Ptv	W						chloritic pillowed basalt					
ASD002	46.25	71.22			PNK	FIGPw																pink, labradorite quartz mica pegmatite					
ASD002	71.22	80.30			GRN	MDp	PL							CH	Ptv	W						chloritic pillowed basalt					
ASD002	80.30	85.60			DK	MD	MAS															massive, fine grained diabase dyke					
ASD002	85.60	90.47			GRN	MDp	PL							CH	Ptv	W						chloritic pillowed basalt					
ASD002	90.47	95.17			DK	MD	MAS															massive, fine grained diabase dyke					
ASD002	95.17	104.64			GRN	MDp	PL																				
ASD002	104.64	106.10			DK	MD	MAS																				
ASD002	106.10	118.52			GRN	MDp	PL																				
ASD002	118.52	118.72			LT	FIGPmu		qtz	ms	mc												microcline, quartz, muscovite pegmatite					
ASD002	118.72	119.80				FIGSp		mc	ms	qtz		20										greenish spodumene					
ASD002	119.80	120.30				FIGPv		ms	qc	ms																	
ASD002	120.30	136.40			GRN	MDp																					
ASD002	136.40	137.08			LT	FIGPv		mc	qtz	ms																	
ASD002	137.08	138.88			LT	FIGSp		mc	ms	qtz		7															
ASD002	138.88	139.62				FIGPv		mc	qtz	ms																	
ASD002	139.62	140.57				FIGSp		qtz	mc	ms		0.1										one small green spod crystal					
ASD002	140.57	156			GRN	MDp								CH	Ptv	W						pillowed mafic volcanics					

ASD002					
ASD002					
ASD002					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD002	3	6	3.00	2.69	89.67	1.22	40.67	12
ASD002	6	9	3.00	2.97	99.00	2.26	75.33	11
ASD002	9	12	3.00	3.05	101.67	2.29	76.33	8
ASD002	12	15	3.00	0.03	1.00	2.26	75.33	10
ASD002	15	18	3.00	2.99	99.67	2.26	75.33	9
ASD002	18	21	3.00	3.04	101.33	2.66	88.67	7
ASD002	21	24	3.00	3.00	100.00	0.96	32.00	13
ASD002	24	27	3.00	3.00	100.00	0.89	29.67	25
ASD002	27	30	3.00	2.44	81.33	1.56	52.00	21
ASD002	30	33	3.00	3.00	100.00	2.60	86.67	13
ASD002	33	36	3.00	3.00	100.00	2.70	90.00	8
ASD002	36	39	3.00	2.97	99.00	2.70	90.00	9
ASD002	39	42	3.00	3.06	102.00	2.82	94.00	6
ASD002	42	45	3.00	3.00	100.00	2.27	75.67	18
ASD002	45	48	3.00	3.04	101.33	2.51	83.67	12
ASD002	48	51	3.00	3.05	101.67	2.87	95.67	12
ASD002	51	54	3.00	3.04	101.33	2.88	96.00	9
ASD002	54	57	3.00	3.06	102.00	2.74	91.33	8
ASD002	57	60	3.00	2.93	97.67	2.76	92.00	6
ASD002	60	63	3.00	2.99	99.67	2.80	93.33	4
ASD002	63	66	3.00	3.07	102.33	2.60	86.67	7
ASD002	66	69	3.00	3.03	101.00	2.13	71.00	14
ASD002	69	72	3.00	3.01	100.33	2.02	67.33	13
ASD002	72	75	3.00	3.07	102.33	3.05	101.67	3
ASD002	75	78	3.00	3.04	101.33	2.92	97.33	8
ASD002	78	81	3.00	3.05	101.67	2.64	88.00	8
ASD002	81	84	3.00	3.04	101.33	2.83	94.33	12
ASD002	84	87	3.00	2.90	96.67	2.90	96.67	10
ASD002	87	90	3.00	3.03	101.00	2.92	97.33	4
ASD002	90	93	3.00	2.99	99.67	2.89	96.33	5
ASD002	93	96	3.00	3.04	101.33	2.50	83.33	13
ASD002	96	99	3.00	2.96	98.67	2.65	88.33	6
ASD002	99	102	3.00	3.10	103.33	3.09	103.00	6
ASD002	102	105	3.00	3.01	100.33	2.68	89.33	7
ASD002	105	108	3.00	2.95	98.33	2.18	72.67	13
ASD002	108	111	3.00	3.02	100.67	1.51	50.33	25
ASD002	111	114	3.00	3.04	101.33	3.01	100.33	3
ASD002	114	117	3.00	3.05	101.67	2.54	84.67	4
ASD002	117	120	3.00	2.94	98.00	2.59	86.33	5
ASD002	120	123	3.00	3.01	100.33	2.87	95.67	3
ASD002	123	126	3.00	3.07	102.33	3.07	102.33	4
ASD002	126	129	3.00	3.01	100.33	2.88	96.00	8
ASD002	129	132	3.00	2.96	98.67	2.92	97.33	6
ASD002	132	135	3.00	3.06	102.00	3.06	102.00	3

ASD002	135	138	3.00
ASD002	138	141	3.00
ASD002	141	144	3.00
ASD002	144	147	3.00
ASD002	147	150	3.00
ASD002	150	153	3.00
ASD002	153	156	3.00

2.97	99.00
2.94	98.00
3.02	100.67
2.95	98.33
3.04	101.33
3.04	101.33
2.95	98.33

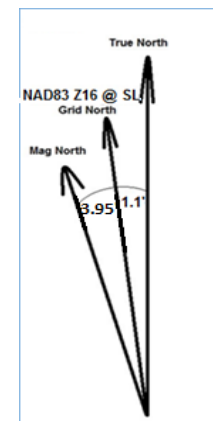
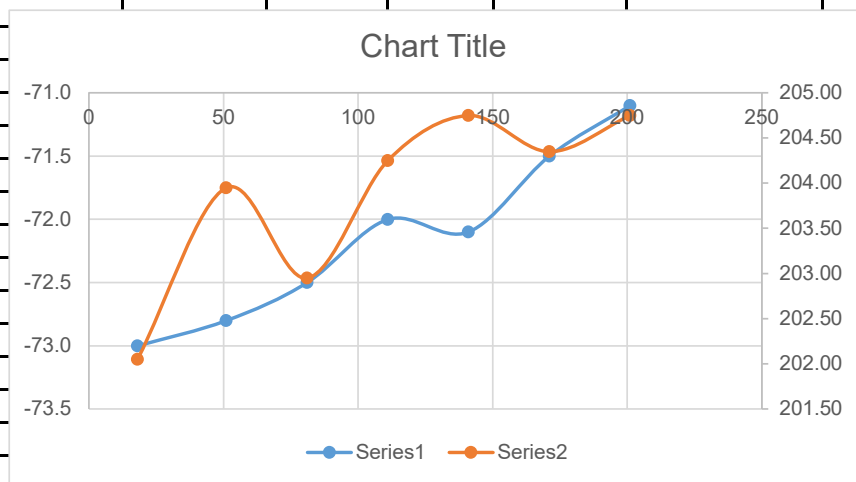
2.62	87.33	10
2.22	74.00	8
3.02	100.67	2
2.81	93.67	5
2.98	99.33	5
3.04	101.33	3
2.95	98.33	4

ARDIDEN LIMITED

Hole No.	ASD02					Date:			
Geologist:		A Richardson		Core Box Intervals					
Box #	From	To	Box #	From	To	Box #	From	To	
1	3.0	6.0	45			89			
2	6.0	10.1	46			90			
3	10.1	14.1	47			91			
4	14.1	18.2	48			92			
5	18.2	22.0	49			93			
6	22.0	25.6	50			94			
7	25.6	29.4	51			95			
8	29.4	33.6	52			96			
9	33.6	37.8	53			97			
10	37.8	42.0	54			98			
11	42.0	46.1	55			99			
12	46.1	50.4	56			100			
13	50.4	54.7	57			101			
14	54.7	59.1	58			102			
15	59.1	63.6	59			103			
16	63.6	67.3	60			104			
17	67.3	71.2	61			105			
18	71.2	75.4	62			106			
19	75.4	79.6	63			107			
20	79.6	84.0	64			108			
21	84.0	88.3	65			109			
22	88.3	92.45	66			110			
23	92.5	96.35	67			111			
24	96.4	100.57	68			112			
25	100.6	104.8	69			113			
26	104.8	108.7	70			114			
27	108.7	112.85	71			115			
28	112.9	117	72			116			
29	117.0	121.35	73			117			
30	121.4	125.65	74			118			
31	125.7	129.77	75			119			
32	129.8	134.16	76			120			
33	134.2	139.62	77			121			
34	139.6	142.56	78			122			
35	142.6	146.95	79			123			
36	147.0	151.1	80			124			
37	151.1	155.3	81			125			
38	155.3	156	82			126			
39			83			127			
40			84			128			
41			85			129			
42			86			130			
43			87			131			
44			88			132			

Project:	Seymour Lake		
Prospect:	Aubry		
Claim #:			
Hole ID:	ASD003		
Start Date:	20 July 2018		
End Date:	22 July 2018		
EOH Depth:	201		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585336.3	m
	UTM East:	397067.42	m
	Elevation:	368.48	m
	Dip:	-70	at setup
	Az:	206	at setup
	Collar Survey Method:	<i>iSxBlue RTN</i>	
	Surveyed by:	<i>Carlos Munoz</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	201	BTW	
Drill comments (issues, casing, gear in hole):			
Geology comments:			

LOGGED BY:	Magnetic Declination:			3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD003	18	-73.0		206.0	202.1	202.05	5683.00		
ASD003	51	-72.8		207.9	204.0	203.95	5688.00		
ASD003	81	-72.5		206.9	203.0	202.95	5674.00		
ASD003	111	-72.0		208.2	204.3	204.25	5676.00		
ASD003	141	-72.1		208.7	204.8	204.75	5685.00		
ASD003	171	-71.5		208.3	204.4	204.35	5677.00		
ASD003	201	-71.1		208.7	204.8	204.75	5675.00		



GEOLOGICAL CORE LOG

Date Logged:		EDH called by:														EDH Reason:													
Geologist:																													
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments								
ASD003	0.00	3.00	3.00			CB																							
ASD003	3.00	29.93	26.93		GRN	MOp								CH	Prv	W													
ASD003	29.93	30.30	10.37		WHT	FIGPM		MC	MS	OZ																			
ASD003	30.30	46.50	16.20		GRN	MOp								CH	Prv	W	vtq	1											
ASD003	46.50	47.10	0.60		WHT	FIGPp		OZ	MC	MS																			
ASD003	47.10	130.74	83.64		GRN	MOp								CH	Prv	W													
ASD003	130.74	131.25	0.51		WHT	FIGPmu		mc	ms	qt																			
ASD003	131.25	132.10	0.85		WHT	FIGPp		sp	ms	sp	mc	15																	
ASD003	132.10	132.90	0.80		WHT	FIGPmu		mc	mc	qt																			
ASD003	132.90	157.44	24.54		GRN	MOp		mc	qt	mc				CH	Prv	W													
ASD003	157.44	158.16	0.70		LT	FIGPmu		mc	qt	mc																			
ASD003	158.16	158.88	0.72		WHT	FIGPp		qt	sp	mc																			
ASD003	158.88	163.39	4.51		LT	FIGPp		mc	qt	mc		25																	
ASD003	163.39	167.90	4.51		DK	Xqbs																							
ASD003	167.90	184.70	16.80		DK	Xabs								SL	Prv														
ASD003	184.70	201.00	16.30		DK	Xabs																							
ASD003																													

amphibole chlorite +/- garnet schist.
strongly silicified and sheared Xabs

ASD003					
ASD003					
ASD003					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD003	3	6	3.00	2.67	89.00	1.51	50.33	20
ASD003	6	9	3.00	2.99	99.67	2.99	99.67	2
ASD003	9	12	3.00	2.99	99.67	2.86	95.33	5
ASD003	12	15	3.00	2.98	99.33	2.98	99.33	1
ASD003	15	18	3.00	3.03	101.00	3.03	101.00	2
ASD003	18	21	3.00	2.98	99.33	2.98	99.33	1
ASD003	21	24	3.00	3.01	100.33	2.93	97.67	3
ASD003	24	27	3.00	3.00	100.00	3.00	100.00	2
ASD003	27	30	3.00	3.25	108.33	3.18	106.00	1
ASD003	30	33	3.00	2.82	94.00	2.82	94.00	2
ASD003	33	36	3.00	3.00	100.00	2.90	96.67	2
ASD003	36	39	3.00	3.02	100.67	3.02	100.67	1
ASD003	39	42	3.00	2.98	99.33	2.98	99.33	0
ASD003	42	45	3.00	3.02	100.67	3.02	100.67	1
ASD003	45	48	3.00	2.99	99.67	2.90	96.67	4
ASD003	48	51	3.00	2.94	98.00	2.88	96.00	4
ASD003	51	54	3.00	3.06	102.00	2.75	91.67	6
ASD003	54	57	3.00	2.99	99.67	2.92	97.33	2
ASD003	57	60	3.00	3.10	103.33	3.08	102.67	1
ASD003	60	63	3.00	2.88	96.00	2.76	92.00	3
ASD003	63	66	3.00	3.06	102.00	2.98	99.33	1
ASD003	66	69	3.00	3.03	101.00	3.03	101.00	2
ASD003	69	72	3.00	3.05	101.67	3.05	101.67	2
ASD003	72	75	3.00	3.03	101.00	3.00	100.00	1
ASD003	75	78	3.00	3.03	101.00	2.98	99.33	1
ASD003	78	81	3.00	3.01	100.33	2.94	98.00	1
ASD003	81	84	3.00	3.02	100.67	2.81	93.67	1
ASD003	84	87	3.00	3.01	100.33	3.01	100.33	2
ASD003	87	90	3.00	2.95	98.33	2.90	96.67	1
ASD003	90	93	3.00	3.03	101.00	3.00	100.00	3
ASD003	93	96	3.00	3.02	100.67	3.01	100.33	4
ASD003	96	99	3.00	2.99	99.67	2.86	95.33	2
ASD003	99	102	3.00	3.06	102.00	2.89	96.33	1
ASD003	102	105	3.00	3.03	101.00	2.98	99.33	4
ASD003	105	108	3.00	3.00	100.00	3.00	100.00	1
ASD003	108	111	3.00	2.90	96.67	2.11	70.33	15
ASD003	111	114	3.00	3.00	100.00	1.81	60.33	30
ASD003	114	117	3.00	2.97	99.00	0.35	11.67	100
ASD003	117	120	3.00	2.96	98.67	1.84	61.33	20
ASD003	120	123	3.00	3.06	102.00	2.90	96.67	6
ASD003	123	126	3.00	3.05	101.67	2.01	67.00	20
ASD003	126	129	3.00	2.94	98.00	2.28	76.00	12
ASD003	129	132	3.00	3.01	100.33	2.96	98.67	3
ASD003	132	135	3.00	3.02	100.67	2.85	95.00	4
ASD003	135	138	3.00	3.06	102.00	3.06	102.00	1

ASD003	138	141	3.00	3	100.00	3	100.00	1
ASD003	141	144	3.00	2.99	99.67	2.6	86.67	6
ASD003	144	147	3.00	2.96	98.67	2.57	85.67	11
ASD003	147	150	3.00	3.07	102.33	3.07	102.33	5
ASD003	150	153	3.00	3.01	100.33	2.88	96.00	4
ASD003	153	156	3.00	3.11	103.67	2.48	82.67	8
ASD003	156	159	3.00	2.63	87.67	2.5	83.33	6
ASD003	159	162	3.00	3	100.00	1.81	60.33	18
ASD003	162	165	3.00	2.88	96.00	2.54	84.67	11
ASD003	165	168	3.00	2.99	99.67	2.95	98.33	7
ASD003	168	171	3.00	3.02	100.67	3.02	100.67	9
ASD003	171	174	3.00	2.97	99.00	2.85	95.00	6
ASD003	174	177	3.00	3.02	100.67	3.02	100.67	0
ASD003	177	180	3.00	2.97	99.00	2.66	88.67	6
ASD003	180	183	3.00	3	100.00	2.87	95.67	4
ASD003	183	186	3.00	2.99	99.67	2.88	96.00	3
ASD003	186	189	3.00	3.06	102.00	3.06	102.00	2
ASD003	189	192	3.00	2.95	98.33	2.76	92.00	2
ASD003	192	195	3.00	2.99	99.67	2.73	91.00	6
ASD003	195	198	3.00	3.02	100.67	2.74	91.33	5
ASD003	198	201	3.00	3.06	102.00	3.06	102.00	0

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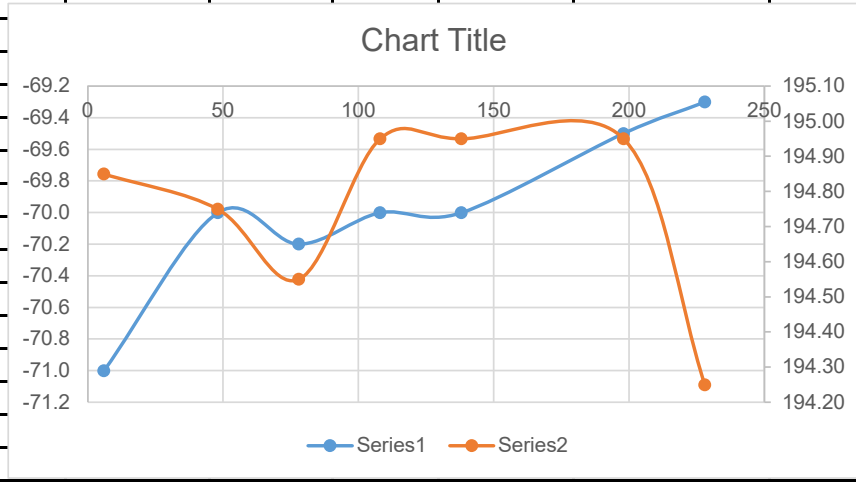
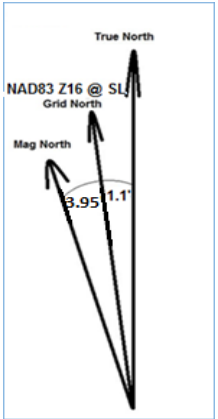
Hole No.	ASD03					Date:	20 July 2018		
Geologist:	A Richardson		Core Box Intervals						
Box #	From	To	Box #	From	To	Box #	From	To	
1	2.0	6.2	45	186.34	190.55	89			
2	6.2	10.5	46	190.55	194.12	90			
3	10.5	15.0	47	194.12	199.13	91			
4	15.0	19.2	48	199.13	201	92			
5	19.2	23.7	49			93			
6	23.7	27.8	50			94			
7	27.8	31.9	51			95			
8	31.9	36.3	52			96			
9	36.3	40.5	53			97			
10	40.5	44.9	54			98			
11	44.9	49.2	55			99			
12	49.2	53.6	56			100			
13	53.6	57.9	57			101			
14	57.9	62.1	58			102			
15	62.1	66.6	59			103			
16	66.6	70.9	60			104			
17	70.9	75.0	61			105			
18	75.0	79.3	62			106			
19	79.3	83.7	63			107			
20	83.7	80.0	64			108			
21	80.0	92.1	65			109			
22	92.1	96.32	66			110			
23	96.3	100.6	67			111			
24	100.6	104.95	68			112			
25	105.0	109.2	69			113			
26	109.2	113	70			114			
27	113.0	116.1	71			115			
28	116.1	119.65	72			116			
29	119.7	123.65	73			117			
30	123.7	127.84	74			118			
31	127.8	132	75			119			
32	132.0	136.3	76			120			
33	136.3	140.61	77			121			
34	140.6	144.58	78			122			
35	144.6	148.95	79			123			
36	149.0	153	80			124			
37	153.0	157	81			125			
38	157.0	161.1	82			126			
39	161.1	164.86	83			127			
40	164.9	169.11	84			128			
41	169.1	173.46	85			129			
42	173.5	177.67	86			130			
43	177.7	182.08	87			131			
44	182.1	186.34	88			132			

SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD03	Sampled by:			DATE:							
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5563610	ASD003	27.00	28.50	1.50								
E5563611	ASD003	28.50	29.93	1.43								
E5563612	ASD003	29.93	30.30	0.37								
E5563613	ASD003	30.30	31.89	1.59								
E5563614	ASD003	31.89	33.00	1.11								
E5563615	ASD003	43.50	45.00	1.50								
E5563616	ASD003	45.00	46.50	1.50								
E5563617	ASD003	46.50	47.10	0.60								
E5563618	ASD003				Standard	Oreas 149						
E5563619	ASD003	47.10	48.50	1.40								
E5563620	ASD003	48.50	50.00	1.50								
E5563604	ASD003	128.00	129.25	1.25								
E5563605	ASD003	129.25	130.74	1.49								
E5563606	ASD003	130.74	131.25	0.51								
E5563607	ASD003	131.25	132.10	0.85								
E5563608	ASD003	132.10	132.90	0.80								
E5563609	ASD003	132.90	134.40	1.50								
E5563621	ASD003	134.40	135.90	1.50								
E5563622	ASD003	147.00	148.50	1.50								
E5563623	ASD003	148.50	150.00	1.50								
E5563624	ASD003	150.00	151.50	1.50								
E5563625	ASD003	151.50	153.00	1.50								
E5563626	ASD003	153.00	154.50	1.50								
E5563627	ASD003	154.50	156.00	1.50								
E5563628	ASD003	156.00	157.46	1.46								
E5563629	ASD003	157.46	158.16	0.70								
E5563630	ASD003				Blank							
E5563631	ASD003	158.16	158.88	0.72								
E5563632	ASD003	158.88	159.41	0.53								
E5563633	ASD003	159.41	160.40	0.99								
E5563634	ASD003	160.40	161.40	1.00								
E5563635	ASD003				Standard	Oreas 147						
E5563636	ASD003	161.40	162.40	1.00								
E5563637	ASD003	162.40	163.39	0.99								
E5563638	ASD003				FD	E5563637						
E5563639	ASD003	163.39	164.00	0.61								
E5563640	ASD003	164.00	165.50	1.50								
E5563641	ASD003	165.50	167.00	1.50								
E5563642	ASD003	167.00	168.50	1.50								
E5563643	ASD003	168.50	170.00	1.50								
E5563644	ASD003	170.00	171.50	1.50								
E5563645	ASD003	171.50	173.00	1.50								
E5563646	ASD003	173.00	174.00	1.00								

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonation	AS	Asbestine	BT	Biotite	W	Weak	W	Weak	PE1	Pyroxene equigranular, fine grained (1-20µm), "spitic" (sugary)	TR	Dark	BR	Banded	W	Weak
CC			Calc Carbonate	ACT	Actinolite	CB	Calcite	M	Medium	M	Medium	PEM	Pyroxene, equigranular, medium grained (2-50µm), "microcrystic"	LT	Light	BRB	Banded	M	Medium
S			Subvolcanic (including chemical sands)	APV	Actinolite	CH	Chlorite	PW	Porphyritic	S	Strong	JGC	Pyroxene coarse to "granit" granitic but not distinctly porphyritic	BOU	Brown	BOU	Boudinaged	S	Strong
U			Undifferentiated (not for apitic tuffs)	AT	Actinolite	EP	Epidote	SA	Saturated	UB	Ubiquitous	DFP	Pyroxene, distinct phenocrysts in fine grained matrix	BLK	Black	BLK	Blocky	UB	Ubiquitous
D			Doleritic (undifferentiated)	AD	Actinolite	FE	Ferroglaucophane	HY	Hyaline	VB	Variable	DFC	Pyroxene, plagioclase phenocrysts in coarse grained matrix	BLU	Blue	BLU	Blocky	VB	Variable
H			Shale (undifferentiated)	BE	Beryl	GT	Garnet	MX	Matrix	DC	Decreasing	JAB	Pyroxene, alternating bands (1-20µm) of aplitic and coarse grained rock	BRN	Brown	BRN	Blocky	DC	Decreasing
B			Basalt	BE	Beryl	HM	Hornblende	IR	Irregular	INC	Increasing	ZMC	Zoned	GRN	Green	GRN	Green	IR	Irregular
S			Sulphidic (primary perite)	CB	Carbonate	QCC	Quartz-carbonate	YS	Yielding			BD	Blocky	GRY	Grey	GRY	Grey	IR	Irregular
G			Glaucophane (undifferentiated)	CS	Causticite	SE	Sericite	BD	Blocky			BD	Blocky	PKK	Pink	PKK	Pink	CH	Chlorite
D			Dolerite (undifferentiated)	CH	Chlorite	SL	Sillite	BD	Blocky			BD	Blocky	HYD	Hydrothermal breccia	GRD	Green	GRD	Green
C			Chert (10% magnetite banding)	CP	Chalcopyrite	TRC	Tremolite	BD	Blocky			BD	Blocky	WET	White	WET	White	CH	Chlorite
C			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-carbonate	BD	Blocky			BD	Blocky	WVW	White	WVW	White	CH	Chlorite
M			>1% magnetite or sulphides	EP	Epidote			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
S			Sulphidic (secondary perite)	EP	Epidote			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
S			Sulphidic (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epidote			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
B			Banded iron formation (10-15% magnetite or secondary sulphides)	GR	Garnet			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
B			Banded iron formation (10-15% magnetite or secondary sulphides)	GR	Garnet			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
S			Sulphidic (primary perite)	HM	Hornblende			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
S			Sulphidic (Au - secondary pyrite/pyrrhotite after magnetite)	HM	Hornblende			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
P			Phosphatic porphyry	IP	Ilmenite			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
V			Volcanics undifferentiated	MP	Magnetite			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
X			Extrusive	MT	Muscovite			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
R			Rhyolitic	MS	Muscovite			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
RD			Rhyolitic	MS	Muscovite			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Tuff undifferentiated	MT	Magnetite			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Agglomerate/Flow Tuff (Flamme)	MT	Magnetite			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Lapilli Ash Tuff (2-4mm)	PL	Plagioclase			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Lapilli Ash Tuff (4-64mm)	PL	Plagioclase			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Agglomerate Tuff (4-64mm)	PL	Plagioclase			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Pyroclastic (Volcanic Breccia)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Wet)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite
			Flow (Arid)	PR	Pyroxene			BD	Blocky			BD	Blocky	INF	Infrared	INF	Infrared	CH	Chlorite

Project:	Seymour Lake		
Prospect:	Aubry		
Claim #:			
Hole ID:	ASD004		
Start Date:	23 July 2018		
End Date:	26 July 2018		
EOH Depth:	228		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585364.14	m
	UTM East:	397114.05	m
	Elevation:	369.92	m
	Dip:	-70	at setup
	Az:	206	at setup
	Collar Survey Method:	iSxBlue RTN	
	Surveyed by:	Carlos Munoz	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	228	BTW	
Drill comments (issues, casing, gear in hole):			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD004	0	-71.0	199.14		200.2	194.85		APS	Dip and Azimuth Inferred
ASD004	6	-71.0		198.8	194.9	194.85	5656.00	Reflex	
ASD004	48	-70.0		198.7	194.8	194.75	5742.00	Reflex	
ASD004	78	-70.2		198.5	194.6	194.55	5703.00	Reflex	
ASD004	108	-70.0		198.9	195.0	194.95	5681.00	Reflex	
ASD004	138	-70.0		198.9	195.0	194.95	5684.00	Reflex	
ASD004	198	-69.5		198.9	195.0	194.95	5707.00	Reflex	
ASD004	228	-69.3		198.2	194.3	194.25	5700.00	Reflex	



GEOLOGICAL CORE LOG

Date Logged:		EDH called by:														EDH Reason:						
Geologist: A Richardson																						
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
ASD004	0.00	3.50	3.50			OB																
ASD004	3.50	33.00	29.50		GRN	Xqps	bl	CH	GT		py											
ASD004	33.00	35.00	2.00		GRN	Xqps	brc	CH	CB		Pt				CB	VN						
ASD004	35.00	51.14	16.14		GRN	Xqps	bl	CH	GT													
ASD004	51.14	51.64	0.50		LT	FIGPp		mc	ms	qtz												
ASD004	51.64	55.46	3.82		GRN	Xqps	bl								CH	Phv	W					
ASD004	55.46	44.57	10.89		PKK	FIGPp		mc	qtz	ms												possible fine-grained spot
ASD004	44.57	47.61	3.04		GRN	Xqps	bl															
ASD004	47.61	47.89	0.28		LT	FIGPp		mc	qtz	ms												
ASD004	47.89	102.00	54.11		GRN	Xqps	bl															
ASD004	102.00	173.64	71.64		GRN	MXR									CH	Phv	W	vnq	3			
ASD004	173.64	174.70	1.06		PKK	FIGPp		mc	qtz	ms												
ASD004	174.70	175.76	1.06		LT	FIGPp		mc	ms	qtz		3										
ASD004	175.76	176.40	0.64		DK	FIGPp		ms	mc	qtz												
ASD004	176.40	186.72	10.32		LT	FIGPp		qtz	mc	ms		20										
ASD004	186.72	187.05	0.33		LT	FIGPp		qtz	ms													
ASD004	187.05	187.62	0.57		WHT	FIGPp		mc	qtz	ms												
ASD004	187.62	190.55	2.93		WHT	FIGPp		mc	qtz	ms		5										
ASD004	190.55	192.49	1.94		LT	FIGPp		mc	ms	qtz												
ASD004	192.49	195.07	2.58		LT	FIGPp		mc	qtz	ms		7										
ASD004	195.07	195.49	0.42		LT	FIGPp		mc	qtz	ms												
ASD004	195.49	228	32.51		GRN	MXR																

ASD004					
ASD004					
ASD004					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD004	6	9	3.00	3.03	101.00	3.03	101.00	1
ASD004	9	12	3.00	3.01	100.33	2.83	94.33	5
ASD004	12	15	3.00	2.95	98.33	2.87	95.67	2
ASD004	15	18	3.00	2.99	99.67	2.99	99.67	2
ASD004	18	21	3.00	2.93	97.67	2.93	97.67	1
ASD004	21	24	3.00	2.71	90.33	2.71	90.33	1
ASD004	24	27	3.00	3.16	105.33	3.13	104.33	3
ASD004	27	30	3.00	3.10	103.33	3.01	100.33	4
ASD004	30	33	3.00	3.06	102.00	2.77	92.33	9
ASD004	33	36	3.00	3.11	103.67	3.11	103.67	2
ASD004	36	39	3.00	2.81	93.67	2.58	86.00	7
ASD004	39	42	3.00	2.94	98.00	2.94	98.00	3
ASD004	42	45	3.00	2.97	99.00	2.97	99.00	1
ASD004	45	48	3.00	3.00	100.00	2.85	95.00	5
ASD004	48	51	3.00	3.00	100.00	2.64	88.00	6
ASD004	51	54	3.00	2.92	97.33	2.67	89.00	8
ASD004	54	57	3.00	2.97	99.00	1.79	59.67	25
ASD004	57	60	3.00	3.02	100.67	2.49	83.00	11
ASD004	60	63	3.00	2.83	94.33	2.69	89.67	7
ASD004	63	66	3.00	3.14	104.67	3.04	101.33	6
ASD004	66	69	3.00	2.97	99.00	2.85	95.00	5
ASD004	69	72	3.00	3.05	101.67	3.05	101.67	5
ASD004	72	75	3.00	2.98	99.33	2.91	97.00	4
ASD004	75	78	3.00	3.00	100.00	2.99	99.67	1
ASD004	78	81	3.00	3.03	101.00	3.03	101.00	1
ASD004	81	84	3.00	3.05	101.67	2.97	99.00	2
ASD004	84	87	3.00	2.97	99.00	2.97	99.00	0
ASD004	87	90	3.00	3.00	100.00	2.92	97.33	0
ASD004	90	93	3.00	3.07	102.33	2.98	99.33	2
ASD004	93	96	3.00	3.00	100.00	2.91	97.00	1
ASD004	96	99	3.00	2.83	94.33	2.83	94.33	4
ASD004	99	102	3.00	3.24	108.00	3.16	105.33	1
ASD004	102	105	3.00	3.05	101.67	2.91	97.00	1
ASD004	105	108	3.00	2.95	98.33	2.80	93.33	1
ASD004	108	111	3.00	3.08	102.67	2.99	99.67	1
ASD004	111	114	3.00	3.03	101.00	3.03	101.00	0
ASD004	114	117	3.00	2.98	99.33	2.98	99.33	0
ASD004	117	120	3.00	2.96	98.67	2.88	96.00	1
ASD004	120	123	3.00	3.02	100.67	3.02	100.67	5
ASD004	123	126	3.00	3.05	101.67	2.91	97.00	2
ASD004	126	129	3.00	2.97	99.00	2.97	99.00	3
ASD004	129	132	3.00	2.97	99.00	2.97	99.00	1
ASD004	132	135	3.00	2.97	99.00	2.90	96.67	2
ASD004	135	138	3.00	2.97	99.00	2.65	88.33	5
ASD004	138	141	3.00	3.02	100.67	3.02	100.67	4

ASD004	141	144	3.00	2.96	98.67	2.81	93.67	3
ASD004	144	147	3.00	3.03	101.00	3.03	101.00	3
ASD004	147	150	3.00	3.02	100.67	3.02	100.67	2
ASD004	150	153	3.00	2.98	99.33	2.98	99.33	5
ASD004	153	156	3.00	2.97	99.00	2.97	99.00	4
ASD004	156	159	3.00	3.05	101.67	3.05	101.67	2
ASD004	159	162	3.00	3.00	100.00	3.00	100.00	5
ASD004	162	165	3.00	3.00	100.00	3.00	100.00	2
ASD004	165	168	3.00	3.00	100.00	3.00	100.00	3
ASD004	168	171	3.00	3.01	100.33	2.97	99.00	3
ASD004	171	174	3.00	2.88	96.00	2.65	88.33	9
ASD004	174	177	3.00	2.55	85.00	1.57	52.33	50
ASD004	177	180	3.00	2.87	95.67	1.76	58.67	20
ASD004	180	183	3.00	3.06	102.00	2.64	88.00	15
ASD004	183	186	3.00	2.95	98.33	2.80	93.33	6
ASD004	186	189	3.00	3.05	101.67	2.97	99.00	3
ASD004	189	192	3.00	2.98	99.33	2.98	99.33	1
ASD004	192	195	3.00	2.91	97.00	2.91	97.00	0
ASD004	195	198	3.00	3.10	103.33	3.10	103.33	1
ASD004	198	201	3.00	2.97	99.00	2.97	99.00	1
ASD004	201	204	3.00	3.08	102.67	3.08	102.67	1
ASD004	204	207	3.00	3.01	100.33	3.01	100.33	2
ASD004	207	210	3.00	3.02	100.67	3.00	100.00	4
ASD004	210	213	3.00	3.07	102.33	3.07	102.33	2
ASD004	213	216	3.00	3.03	101.00	3.03	101.00	1
ASD004	216	219	3.00	3.02	100.67	3.01	100.33	1
ASD004	219	222	3.00	2.98	99.33	2.98	99.33	2
ASD004	222	225	3.00	3.12	104.00	3.11	103.67	5
ASD004	225	228	3.00	2.81	93.67	2.49	83.00	6

ARDIDEN LIMITED

Hole No.	ASD04						Date:		
				Core Box Intervals					
Geologist:	AJR								
Box #	From	To	Box #	From	To	Box #	From	To	
1	3.5	7.5	45	189.62	193.5	89			
2	7.5	11.8	46	193.5	197.84	90			
3	11.8	16.2	47	197.84	201.02	91			
4	16.2	20.6	48	201.02	206.32	92			
5	20.6	25.0	49	206.32	210.68	93			
6	25.0	29.2	50	210.68	215	94			
7	29.2	33.2	51	215	219.9	95			
8	33.2	37.5	52	219.9	223.52	96			
9	37.5	41.9	53	223.52	227.46	97			
10	41.9	46.3	54	227.46	228	98			
11	46.3	50.5	55			99			
12	50.5	54.5	56			100			
13	54.5	58.4	57			101			
14	58.4	62.0	58			102			
15	62.0	65.7	59			103			
16	65.7	70.0	60			104			
17	70.0	74.3	61			105			
18	74.3	78.7	62			106			
19	78.7	83.1	63			107			
20	83.1	87.2	64			108			
21	87.2	91.6	65			109			
22	91.6	95.92	66			110			
23	95.9	100.46	67			111			
24	100.5	104.66	68			112			
25	104.7	109.1	69			113			
26	109.1	113.28	70			114			
27	113.3	117.6	71			115			
28	117.6	122.1	72			116			
29	122.1	126.22	73			117			
30	126.2	130.5	74			118			
31	130.5	134.87	75			119			
32	134.9	139	76			120			
33	139.0	143.32	77			121			
34	143.3	147.44	78			122			
35	147.4	151.7	79			123			
36	151.7	156	80			124			
37	156.0	160.51	81			125			
38	160.5	164.91	82			126			
39	164.9	169.23	83			127			
40	169.2	173.46	84			128			
41	173.5	177.64	85			129			
42	177.6	181.58	86			130			
43	181.6	185.9	87			131			
44	185.9	189.62	88			132			

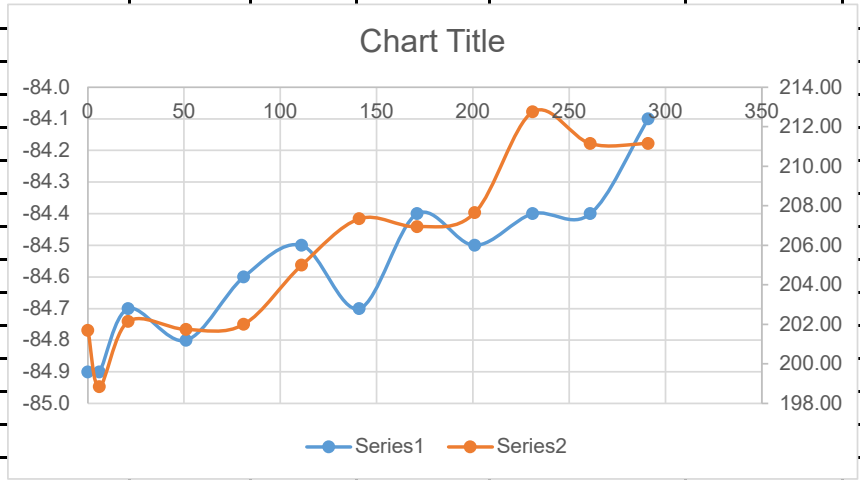
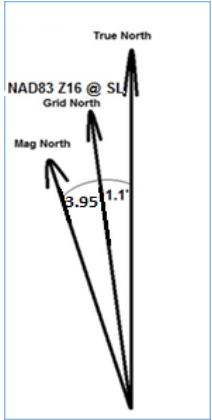
SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD04	Sampled by:			DATE:							
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5561560	ASD004	33.00	34.00	1.00		for Au assay						
E5561561	ASD004	34.00	35.00	1.00		for Au assay						
E5561562	ASD004	35.00	36.00	1.00		for Au assay						
E5561563	ASD004	36.00	37.00	1.00		for Au assay						
E5561564	ASD004	37.00	38.00	1.00		for Au assay						
E5563647	ASD004	48.00	49.50	1.50								
E5563648	ASD004	49.50	51.14	1.64								
E5563649	ASD004				Blank							
E5563650	ASD004	51.14	51.64	0.50								
E5563651	ASD004	51.64	53.00	1.36								
E5563652	ASD004	53.00	54.50	1.50								
E5563653	ASD004	54.50	55.46	0.96								
E5563654	ASD004	55.46	56.50	1.04								
E5563655	ASD004	56.50	57.50	1.00								
E5563656	ASD004	57.50	58.50	1.00								
E5563657	ASD004				Standard	Oreas 149						
E5563658	ASD004	58.50	59.50	1.00								
E5563659	ASD004	59.50	60.50	1.00								
E5563660	ASD004	60.50	61.50	1.00								
E5563661	ASD004	61.50	62.50	1.00								
E5563662	ASD004	62.50	63.50	1.00								
E5563663	ASD004	63.50	64.51	1.01								
E5563664	ASD004	64.51	66.00	1.49								
E5563665	ASD004	66.00	67.61	1.61								
E5563666	ASD004	67.61	67.89	0.28								
E5563667	ASD004	67.89	69.40	1.51								
E5563668	ASD004				Blank							
E5563669	ASD004	69.40	70.90	1.50								
E5563670	ASD004	70.90	72.50	1.60								
E5563671	ASD004	72.50	74.00	1.50								
E5563672	ASD004	74.00	75.50	1.50								
E5563673	ASD004				Standard	Oreas 147						
E5563674	ASD004	75.50	77.00	1.50								
E5563675	ASD004	163.00	164.50	1.50								
E5563676	ASD004	163.00	164.50	1.50	FD	E5563676						
E5563677	ASD004	164.50	166.00	1.50								
E5563678	ASD004	166.00	167.50	1.50								
E5563679	ASD004	167.50	169.00	1.50								
E5563680	ASD004	169.00	170.50	1.50								
E5563681	ASD004	170.50	172.00	1.50								
E5563682	ASD004	172.00	173.64	1.64								
E5563683	ASD004	173.64	174.70	1.06								
E5563684	ASD004	174.70	175.76	1.06								
E5563685	ASD004	175.76	176.40	0.64								
E5563686	ASD004	176.40	177.40	1.00								
E5563687	ASD004	177.40	178.00	0.60								
E5563688	ASD004	178.00	179.00	1.00								
E5563689	ASD004				Blank							
E5563690	ASD004	179.00	180.00	1.00								
E5563691	ASD004	180.00	181.00	1.00								
E5563692	ASD004	181.00	182.00	1.00								
E5563693	ASD004	182.00	183.00	1.00								
E5563694	ASD004	183.00	184.00	1.00								
E5563695	ASD004	184.00	185.00	1.00								
E5563696	ASD004	185.00	186.00	1.00								
E5563697	ASD004	186.00	186.72	0.72								
E5563698	ASD004				Standard	Oreas 149						
E5563699	ASD004	186.72	187.05	0.33								
E5563700	ASD004	187.05	187.62	0.57								
E5563701	ASD004	187.62	188.20	0.58								
E5563702	ASD004	188.20	189.00	0.80								
E5563703	ASD004	189.00	190.00	1.00								
E5563704	ASD004	190.00	190.55	0.55								
E5563705	ASD004	190.55	191.50	0.95								
E5563706	ASD004	191.50	192.49	0.99								
E5563707	ASD004	192.49	193.50	1.01								
E5563708	ASD004	193.50	194.40	0.90								
E5563709	ASD004	194.40	195.07	0.67								
E5563710	ASD004	195.07	195.49	0.42								
E5563711	ASD004				Blank							

E5563712	ASD004	195.49	197.00	1.51								
E5563713	ASD004	197.00	198.50	1.50								
E5563714	ASD004	198.50	200.00	1.50								
E5563715	ASD004				Standard	Oreas 147						
E5563716	ASD004	200	201.50	1.50								
E5563717	ASD004	201.50	203.00	1.50								
E5563718	ASD004	201.5	203.00	1.50	FD	E5563717						
E5563719	ASD004	203	204.50	1.50								
E5563720	ASD004	204.50	206.00	1.50								

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonation	HT	Hornblende	BT	Biotite	MA	Mylonite	W	Weak	FEF	Feignitic, equigranular, fine-grained (1-2mm), "apitic" (locally)	DR	Dark	DR	Banded	W	Weak
CC			Loose Calc.	APF	Apophite	CB	Carbonate	PC	Pegmatite	M	Medium	FSM	Pegmatite, equigranular, medium-grained (2-5mm), "micropegmatitic"	CS	Light	DR	Banded	M	Medium
S			Subvolcanic (including chemical appts)	PT	Pyroxene	CA	Chlorite	PN	Pervasive	S	Strong	PGC	Pegmatite, coarse to "light" grained but not distinctly porphyritic	BU	Black	BU	Boudinaged	S	Strong
U			Undifferentiated (not for apitic tuffs)	MT	Muscovite	EP	Epithermal	SD	Subvolcanic	W	Weak	DFP	Dioritic, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
D			Dioritic (undifferentiated)	ML	Muscovite	FE	Ferrous	HS	Hyaline	V	Variable	DFC	Dioritic, glass phenocrysts in coarse-grained matrix	BU	Blue	BR	Brown	V	Variable
H			Shale (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	DC	Decreasing	PAB	Pegmatite, alternating bands (1-25cm) of apitic and coarse-grained rock	BR	Brown	BR	Autobreccia	DC	Decreasing
B			Basalt	BT	Biotite	HM	Hornblende	IR	Irregular	IC	Increasing	AMS	Amphibolitic	GR	Green	BR	Hydrothermal breccia	IC	Increasing
S			Sulphide (primary porphy)	CB	Carbonate	QDC	Quartz-carbonate	VM	Veining			BD	Banded	GR	Green	DT	Diagenetic breccia		
G			Gangue (undifferentiated)	EST	Epithermal	SR	Sericite					BD	Banded	FR	Pink	CV	Clawage		
C			Chert (20% magnetite banding)	CH	Chlorite	SL	Silica					BR	Blocky	BD	Black	CR	Controlled		
T			Tuff (undifferentiated)	CP	Chalcopyrite	TRC	Tricarbonate					BR	Blocky	CR	Controlled	CR	Contact tuffophagous		
I			1-1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite					BU	Boudinaged	CR	Controlled	CR	Crenulated		
M			1-1% magnetite or sulphides	EP	Epithermal							BR	Blocky	CR	Controlled	CR	Crenulated		
S			Sulphide (secondary porphy)	FR	Fluorite							BR	Blocky	CR	Controlled	CR	Crenulated		
SS			Sulphide (Au - secondary pyrite/epithermal after magnetite)	GR	Garnet							BR	Blocky	CR	Controlled	CR	Crenulated		
B			Banded iron formation (1-10% magnetite or secondary sulphides)	GT	Garnet							BR	Blocky	CR	Controlled	CR	Crenulated		
MS			Magnetite-sulphide	HO	Hornblende							FR	Fractured	FR	Fractured	FR	Fractured		
S			Sulphide (primary porphy)	HM	Hornblende							FR	Fractured	FR	Fractured	FR	Fractured		
SS			Sulphide (Au - secondary pyrite/epithermal after magnetite)	IR	Irregular							FR	Fractured	FR	Fractured	FR	Fractured		
SP			Sphalerite	IP	Ilmenite							FR	Fractured	FR	Fractured	FR	Fractured		
P			Porphyry	MP	Magnetite							FR	Fractured	FR	Fractured	FR	Fractured		
V			Volcanic undifferentiated	MS	Muscovite							FR	Fractured	FR	Fractured	FR	Fractured		
X			Extrusive	MS	Muscovite							FR	Fractured	FR	Fractured	FR	Fractured		
B			Basaltic	MS	Muscovite							FR	Fractured	FR	Fractured	FR	Fractured		
RD			Rhyolitic	MT	Magnetite							FR	Fractured	FR	Fractured	FR	Fractured		
			Tuff undifferentiated	MS	Muscovite							FR	Fractured	FR	Fractured	FR	Fractured		
			Tuff (undifferentiated)	PE	Perthite							FR	Fractured	FR	Fractured	FR	Fractured		
			Agillite Tuff (2-2mm)	PH	Phengite							FR	Fractured	FR	Fractured	FR	Fractured		
			Agillite-Ad Tuff (2-4mm)	PL	Plagioclase							FR	Fractured	FR	Fractured	FR	Fractured		
			Agillite-Ad Tuff (4-6mm)	PO	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Hydrothermal breccia	PR	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (hyaline)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		
			Flow (andesitic)	PT	Pyroxene							FR	Fractured	FR	Fractured	FR	Fractured		

Project:	Seymour Lake		
Prospect:	Aubry		
Claim #:			
Hole ID:	ASD005		
Start Date:	26 July 2018		
End Date:	01 Aug 2018		
EOH Depth:	291		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585364.16	m
	UTM East:	397113.85	m
	Elevation:	372.89	m
	Dip:	-87	at setup
	Az:	206	at setup
	Collar Survey Method:	<i>iSxBlue RTN</i>	
	Surveyed by:	<i>Carlos Munoz</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	291	397113.85	
Drill comments (issues, casing, gear in hole): 3m casing			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD005	0	-84.9	200.63		201.7	201.70		APS	Dip Inferred.
ASD005	6	-84.9		202.8	198.9	198.85	5651.00	Reflex	
ASD005	21	-84.7		206.1	202.2	202.15	5663.00	Reflex	
ASD005	51	-84.8		205.7	201.8	201.75	5739.00	Reflex	
ASD005	81	-84.6		171.0	167.1	202.00	5906.00	Reflex	
ASD005	111	-84.5		197.8	193.9	205.00	5628.00	Reflex	
ASD005	141	-84.7		211.3	207.4	207.35	5697.00	Reflex	
ASD005	171	-84.4		210.9	207.0	206.95	5680.00	Reflex	
ASD005	201	-84.5		211.6	207.7	207.65	5705.00	Reflex	
ASD005	231	-84.4		216.7	212.8	212.75	5663.00	Reflex	
ASD005	261	-84.4		215.1	211.2	211.15	5702.00	Reflex	
ASD005	291	-84.1		215.1	211.2	211.15	5628.00	Reflex	



GEOLOGICAL CORE LOG																
Date Logged: _____																
CCHT called by: _____																
CCHT Reason: _____																
Borehole ID	Depth (m)	Top (m)	Bottom (m)	Category	Lithology	Texture(s)	Mineral 1	Mineral 2	Other Minerals	Spinel Abundance %	Sphene Abundance %	Albite	Albite %	Structure	Structure Intensity	Comments
ANDR01	0.00	1.00	1.00													
ANDR01	1.00	2.00	2.00													
ANDR01	2.00	3.00	3.00													
ANDR01	3.00	4.00	4.00													
ANDR01	4.00	5.00	5.00													
ANDR01	5.00	6.00	6.00													
ANDR01	6.00	7.00	7.00													
ANDR01	7.00	8.00	8.00													
ANDR01	8.00	9.00	9.00													
ANDR01	9.00	10.00	10.00													
ANDR01	10.00	11.00	11.00													
ANDR01	11.00	12.00	12.00													
ANDR01	12.00	13.00	13.00													
ANDR01	13.00	14.00	14.00													
ANDR01	14.00	15.00	15.00													
ANDR01	15.00	16.00	16.00													
ANDR01	16.00	17.00	17.00													
ANDR01	17.00	18.00	18.00													
ANDR01	18.00	19.00	19.00													
ANDR01	19.00	20.00	20.00													
ANDR01	20.00	21.00	21.00													
ANDR01	21.00	22.00	22.00													
ANDR01	22.00	23.00	23.00													
ANDR01	23.00	24.00	24.00													
ANDR01	24.00	25.00	25.00													
ANDR01	25.00	26.00	26.00													
ANDR01	26.00	27.00	27.00													
ANDR01	27.00	28.00	28.00													
ANDR01	28.00	29.00	29.00													
ANDR01	29.00	30.00	30.00													
ANDR01	30.00	31.00	31.00													
ANDR01	31.00	32.00	32.00													
ANDR01	32.00	33.00	33.00													
ANDR01	33.00	34.00	34.00													
ANDR01	34.00	35.00	35.00													
ANDR01	35.00	36.00	36.00													
ANDR01	36.00	37.00	37.00													
ANDR01	37.00	38.00	38.00													
ANDR01	38.00	39.00	39.00													
ANDR01	39.00	40.00	40.00													
ANDR01	40.00	41.00	41.00													
ANDR01	41.00	42.00	42.00													
ANDR01	42.00	43.00	43.00													
ANDR01	43.00	44.00	44.00													
ANDR01	44.00	45.00	45.00													
ANDR01	45.00	46.00	46.00													
ANDR01	46.00	47.00	47.00													
ANDR01	47.00	48.00	48.00													
ANDR01	48.00	49.00	49.00													
ANDR01	49.00	50.00	50.00													
ANDR01	50.00	51.00	51.00													
ANDR01	51.00	52.00	52.00													
ANDR01	52.00	53.00	53.00													
ANDR01	53.00	54.00	54.00													
ANDR01	54.00	55.00	55.00													
ANDR01	55.00	56.00	56.00													
ANDR01	56.00	57.00	57.00													
ANDR01	57.00	58.00	58.00													
ANDR01	58.00	59.00	59.00													
ANDR01	59.00	60.00	60.00													
ANDR01	60.00	61.00	61.00													
ANDR01	61.00	62.00	62.00													
ANDR01	62.00	63.00	63.00													
ANDR01	63.00	64.00	64.00													
ANDR01	64.00	65.00	65.00													
ANDR01	65.00	66.00	66.00													
ANDR01	66.00	67.00	67.00													
ANDR01	67.00	68.00	68.00													
ANDR01	68.00	69.00	69.00													
ANDR01	69.00	70.00	70.00													
ANDR01	70.00	71.00	71.00													
ANDR01	71.00	72.00	72.00													
ANDR01	72.00	73.00	73.00													
ANDR01	73.00	74.00	74.00													
ANDR01	74.00	75.00	75.00													
ANDR01	75.00	76.00	76.00													
ANDR01	76.00	77.00	77.00													
ANDR01	77.00	78.00	78.00													
ANDR01	78.00	79.00	79.00													
ANDR01	79.00	80.00	80.00													
ANDR01	80.00	81.00	81.00													
ANDR01	81.00	82.00	82.00													
ANDR01	82.00	83.00	83.00													
ANDR01	83.00	84.00	84.00													
ANDR01	84.00	85.00	85.00													
ANDR01	85.00	86.00	86.00													
ANDR01	86.00	87.00	87.00													
ANDR01	87.00	88.00	88.00													
ANDR01	88.00	89.00	89.00													
ANDR01	89.00	90.00	90.00													
ANDR01	90.00	91.00	91.00													
ANDR01	91.00	92.00	92.00													
ANDR01	92.00	93.00	93.00													
ANDR01	93.00	94.00	94.00													
ANDR01	94.00	95.00	95.00													
ANDR01	95.00	96.00	96.00													
ANDR01	96.00	97.00	97.00													
ANDR01	97.00	98.00	98.00													
ANDR01	98.00	99.00	99.00													
ANDR01	99.00	100.00	100.00													

STRUCTURAL CORE LOG



ARDIDEN

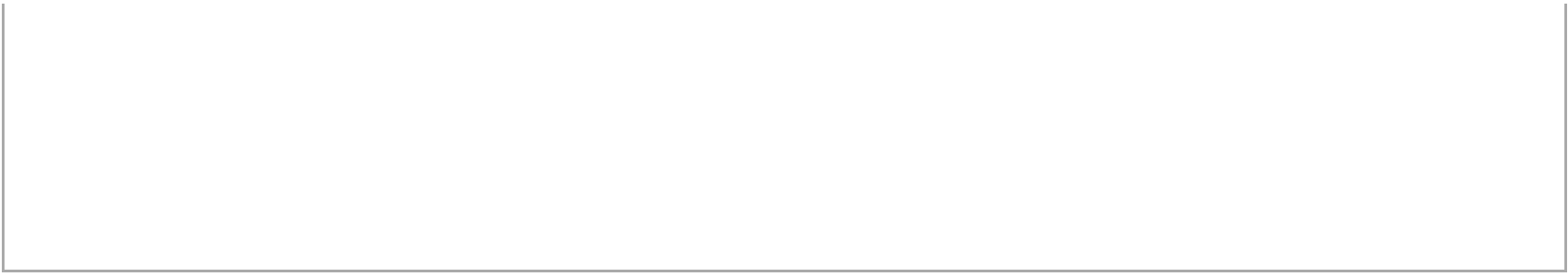
Date Logged:

Geologist:

Core Data

BHID	Depth	Rock Type	Structure Type	Alpha	Beta	Description/Measurement
ASD005	19.00	MXFb	Shr	25	60	beta fair confidence
ASD005	35.30	Qxbs	Shr	15	130	beta fair confidence
ASD005	50.24	FIGPpf	Ct	70		no beta, orientation lost
ASD005	60.88	FIGPpf	Ct	70	0	beta fair confidence
ASD005	66.87	Xqbs	Ct	80	56	beta fair confidence
ASD005	76.65	Xqbs	fol	15	10	Foliation
ASD005	80.60	Xqbs	fol	10	350	Foliation
ASD005	86.45	Xqbs	fol	6	330	Foliation, Po aligned to fol
ASD005	90.60	Xqbs	fol	15	356	Foliation, probably pillows
ASD005	109.70	Xqbs	fol	20	344	foliation
ASD005	121.00	Xqbs	fol	10	335	foliation
ASD005	125.60	Xqbs	fol	15	320	Qz vein parallel to fol
ASD005	133.15	Xqbs	fol	10	328	foliation
ASD005	143.80	Xqbs	fol	10	330	foliation
ASD005	181.60	Xqbs	fol	5	308	Foliation, probably pillows
ASD005	188.00	FIGPkf	ct	90		irregular contact
ASD005	188.20	FIGPkf	Ct	90		Vein with Tm
ASD005	197.65	FIGPsp	ct	30	194	well defined contact
ASD005	199.10	MXBf	fol	35	80	well defined
ASD005	201.18	FIGPsp	ct	65	70	sharp ct
ASD005	201.70	FIGPsp	ct	45	90	aprox ct
ASD005	262.68	FIGPsp	ct	55	345	sharp ct
ASD005	263.20	MXBf	fol	10	124	foliation
ASD005	269.40	MXBf	fol	25	122	foliation
ASD005	275.50	Xlaq	fol	10	128	foliation
ASD005	276.90	Xlaq	fol	20	80	fracture, cb filled
ASD005	277.00	Xlaq	fol	35	312	fracture
ASD005	279.90	Xlaq	fol	15	80	foliation
ASD05	282.40	FIGPsp	ct	60	36	contact
ASD005	284.30	Xlaq	fol	15	88	foliation
ASD005	287.50	Xlaq	fol	20	64	foliation
ASD005						
ASD005					4	

ASD005						
ASD005						
ASD005						
ASD005						
ASD005						
ASD005						



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD005	3	6	3.00	2.28	76.00	2.19	73.00	6
ASD005	6	9	3.00	2.97	99.00	2.91	97.00	3
ASD005	9	12	3.00	2.98	99.33	2.91	97.00	3
ASD005	12	15	3.00	2.94	98.00	2.94	98.00	4
ASD005	15	18	3.00	3.01	100.33	3.01	100.33	4
ASD005	18	21	3.00	2.98	99.33	2.92	97.33	3
ASD005	21	24	3.00	3.02	100.67	3.02	100.67	2
ASD005	24	27	3.00	3.04	101.33	3.04	101.33	4
ASD005	27	30	3.00	3.00	100.00	2.96	98.67	1
ASD005	30	33	3.00	3.10	103.33	3.10	103.33	1
ASD005	33	36	3.00	2.91	97.00	2.86	95.33	2
ASD005	36	39	3.00	2.96	98.67	2.89	96.33	2
ASD005	39	42	3.00	3.04	101.33	2.88	96.00	4
ASD005	42	45	3.00	2.65	88.33	2.03	67.67	10
ASD005	45	48	3.00	2.85	95.00	2.23	74.33	16
ASD005	48	51	3.00	3.03	101.00	2.15	71.67	16
ASD005	51	54	3.00	2.94	98.00	2.16	72.00	10
ASD005	54	57	3.00	2.96	98.67	2.81	93.67	5
ASD005	57	60	3.00	3.08	102.67	3.08	102.67	4
ASD005	60	63	3.00	3.05	101.67	3.05	101.67	3
ASD005	63	66	3.00	3.06	102.00	3.06	102.00	2
ASD005	66	69	3.00	3.02	100.67	2.98	99.33	4
ASD005	69	72	3.00	3.10	103.33	2.93	97.67	5
ASD005	72	75	3.00	3.01	100.33	2.85	95.00	3
ASD005	75	78	3.00	3.09	103.00	3.09	103.00	4
ASD005	78	81	3.00	3.04	101.33	2.86	95.33	3
ASD005	81	84	3.00	3.01	100.33	2.77	92.33	8
ASD005	84	87	3.00	2.94	98.00	2.79	93.00	6
ASD005	87	90	3.00	3.05	101.67	2.81	93.67	7
ASD005	90	93	3.00	3.05	101.67	2.95	98.33	4
ASD005	93	96	3.00	3.09	103.00	3.00	100.00	2
ASD005	96	99	3.00	3.07	102.33	3.02	100.67	3
ASD005	99	102	3.00	3.03	101.00	2.95	98.33	2
ASD005	102	105	3.00	3.00	100.00	3.00	100.00	2
ASD005	105	108	3.00	3.10	103.33	3.10	103.33	6
ASD005	108	111	3.00	3.01	100.33	2.80	93.33	6
ASD005	111	114	3.00	3.05	101.67	2.82	94.00	3
ASD005	114	117	3.00	2.96	98.67	2.77	92.33	3
ASD005	117	120	3.00	3.00	100.00	3.00	100.00	3
ASD005	120	123	3.00	3.01	100.33	2.92	97.33	3
ASD005	123	126	3.00	2.97	99.00	2.78	92.67	6
ASD005	126	129	3.00	3.06	102.00	2.88	96.00	2
ASD005	129	132	3.00	3.03	101.00	2.55	85.00	4
ASD005	132	135	3.00	3.03	101.00	2.83	94.33	3

ASD005	135	138	3.00	3.03	101.00	3.00	100.00	4
ASD005	138	141	3.00	3.08	102.67	2.99	99.67	6
ASD005	141	144	3.00	2.97	99.00	2.87	95.67	5
ASD005	144	147	3.00	3.10	103.33	3.00	100.00	3
ASD005	147	150	3.00	3.02	100.67	3.02	100.67	3
ASD005	150	153	3.00	3.00	100.00	2.90	96.67	3
ASD005	153	156	3.00	3.00	100.00	2.84	94.67	5
ASD005	156	159	3.00	3.10	103.33	2.87	95.67	7
ASD005	159	162	3.00	3.10	103.33	2.89	96.33	6
ASD005	162	165	3.00	3.10	103.33	2.82	94.00	5
ASD005	165	168	3.00	3.08	102.67	2.98	99.33	3
ASD005	168	171	3.00	3.05	101.67	3.05	101.67	5
ASD005	171	174	3.00	3.00	100.00	2.84	94.67	3
ASD005	174	177	3.00	3.02	100.67	2.95	98.33	2
ASD005	177	180	3.00	3.08	102.67	2.98	99.33	5
ASD005	180	183	3.00	3.06	102.00	2.81	93.67	6
ASD005	183	186	3.00	3.02	100.67	2.57	85.67	6
ASD005	186	189	3.00	3.45	115.00	1.60	53.33	10
ASD005	189	192	3.00	3.84	128.00	1.76	58.67	0
ASD005	192	195	3.00	3.06	102.00	2.88	96.00	2
ASD005	195	198	3.00	3.06	102.00	2.97	99.00	0
ASD005	198	201	3.00	3.05	101.67	2.93	97.67	1
ASD005	201	204	3.00	3.10	103.33	2.43	81.00	1
ASD005	204	207	3.00	3.04	101.33	3.04	101.33	0
ASD005	207	210	3.00	2.97	99.00	2.79	93.00	0
ASD005	210	213	3.00	3.00	100.00	2.47	82.33	6
ASD005	213	216	3.00	3.00	100.00	2.73	91.00	6
ASD005	216	219	3.00	3.10	103.33	3.10	103.33	3
ASD005	219	222	3.00	3.09	103.00	2.99	99.67	1
ASD005	222	225	3.00	3.05	101.67	2.83	94.33	1
ASD005	225	228	3.00	2.98	99.33	2.88	96.00	4
ASD005	228	231	3.00	3.09	103.00	2.92	97.33	4
ASD005	231	234	3.00	3.04	101.33	3.04	101.33	1
ASD005	234	237	3.00	3.03	101.00	2.95	98.33	1
ASD005	237	240	3.00	3.00	100.00	2.95	98.33	1
ASD005	240	243	3.00	3.20	106.67	3.10	103.33	1
ASD005	243	246	3.00	3.03	101.00	2.90	96.67	4
ASD005	246	249	3.00	3.05	101.67	3.00	100.00	3
ASD005	249	252	3.00	3.03	101.00	2.94	98.00	2
ASD005	252	255	3.00	2.97	99.00	2.97	99.00	1
ASD005	255	258	3.00	3.04	101.33	2.98	99.33	2
ASD005	258	261	3.00	3.00	100.00	2.90	96.67	1
ASD005	261	264	3.00	3.06	102.00	3.00	100.00	3
ASD005	264	267	3.00	2.96	98.67	2.89	96.33	2
ASD005	267	270	3.00	3.02	100.67	3.02	100.67	2
ASD005	270	273	3.00	3.05	101.67	2.95	98.33	3
ASD005	273	276	3.00	3.08	102.67	3.08	102.67	5
ASD005	276	279	3.00	3.09	103.00	2.89	96.33	4
ASD005	279	282	3.00	3.00	100.00	2.71	90.33	3
ASD005	282	285	3.00	3.00	100.00	2.90	96.67	1
ASD005	285	288	3.00	3.03	101.00	2.74	91.33	3
ASD005	288	291	3.00	3.06	102.00	2.96	98.67	0

ARDIDEN LIMITED

Hole No.	ASD005					Date:			
Geologist:		Carlos Munoz		Core Box Intervals					
Box #	From	To	Box #	From	To	Box #	From	To	
1	3.8	6.9	45	190.6	194.14	89			
2	6.9	11.3	46	194.14	198.31	90			
3	11.3	15.6	47	198.31	202.6	91			
4	15.6	19.9	48	202.6	206.8	92			
5	19.9	24.2	49	206.8	211.11	93			
6	24.2	28.6	50	211.11	215.46	94			
7	28.6	33.0	51	215.46	219.65	95			
8	33.0	37.2	52	219.65	223.94	96			
9	37.2	41.7	53	223.94	228.4	97			
10	41.7	45.7	54	228.4	232.76	98			
11	45.7	49.3	55	232.76	237	99			
12	49.3	53.3	56	237	241.28	100			
13	53.3	57.6	57	241.28	245.7	101			
14	57.6	61.9	58	245.7	249.99	102			
15	61.9	66.1	59	249.99	254.27	103			
16	66.1	70.5	60	254.27	258.56	104			
17	70.5	74.8	61	258.56	262.98	105			
18	74.8	78.9	62	262.98	267.36	106			
19	78.9	83.2	63	267.36	271.58	107			
20	83.2	87.6	64	271.58	275.88	108			
21	87.6	91.9	65	275.88	280.14	109			
22	91.9	96.17	66	280.14	284.48	110			
23	96.2	100.5	67	284.48	288.85	111			
24	100.5	104.9	68	288.85	291	112			
25	104.9	109.1	69			113			
26	109.1	113.47	70	0		114			
27	113.5	117.9	71	0		115			
28	117.9	122.21	72	0		116			
29	122.2	126.6	73	0		117			
30	126.6	130.67	74	0		118			
31	130.7	135	75	0		119			
32	135.0	139.1	76	0		120			
33	139.1	143.5	77	0		121			
34	143.5	147.8	78	0		122			
35	147.8	152.1	79	0		123			
36	152.1	156.5	80	0		124			
37	156.5	160.76	81	0		125			
38	160.8	165	82	0		126			
39	165.0	169.36	83	0		127			
40	169.4	173.77	84	0		128			
41	173.8	178.1	85	0		129			
42	178.1	182.44	86	0		130			
43	182.4	186.75	87	0		131			
44	186.8	190.6	88	0		132			

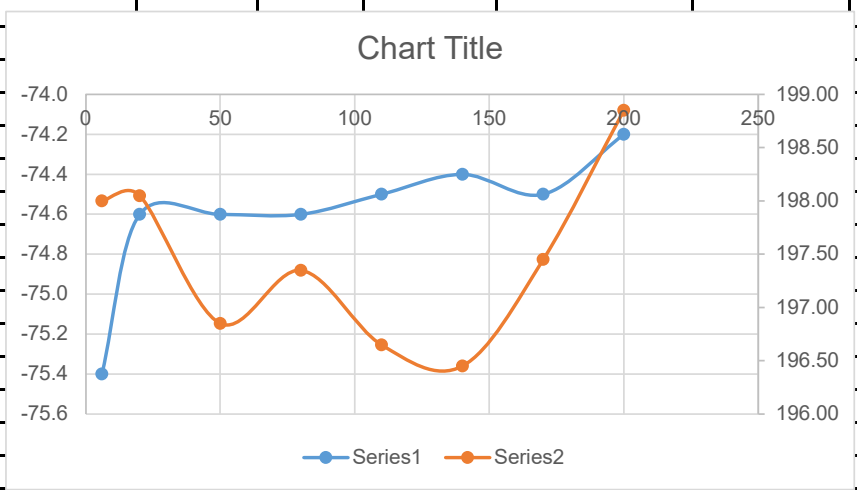
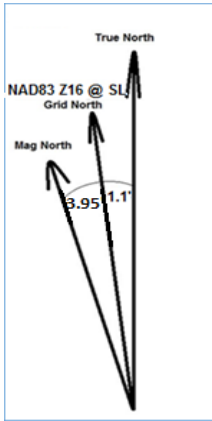
EOH

SAMPLE & SPECIFIC GRAVITY LOGS													
Hole ID:			Sampled by:				DATE:						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG	
E5563721	ASD005	48.00	49.26	1.26									
E5563722	ASD005	49.26	50.24	0.98									
E5563723	ASD005	50.24	50.76	0.52									
E5563724	ASD005	50.76	52.00	1.24									
E5563725	ASD005	52.00	53.33	1.33									
E5563726	ASD005	59.00	60.00	1.00									
E5563727	ASD005	59.00	60.74	1.74									
E5563728	ASD005	59.00	60.88	1.88									
E5563729	ASD005			0.00	Blank								
E5563730	ASD005	60.88	62.00	1.12									
E5563731	ASD005	65.00	66.00	1.00									
E5563732	ASD005	66.00	66.87	0.87									
E5563733	ASD005	66.87	66.96	0.09									
E5563734	ASD005	66.96	68.00	1.04									
E5563735	ASD005	68.00	69.39	1.39									
E5563736	ASD005	69.39	69.84	0.45									
E5563737	ASD005			0.00	Standard	Oreas 149							
E5563738	ASD005	69.84	71.00	1.16									
E5563739	ASD005	71.00	72.00	1.00									
E5563740	ASD005	177.84	179.00	1.16									
E5563741	ASD005	179.00	180.50	1.50									
E5563742	ASD005	180.50	182.00	1.50									
E5563743	ASD005	182.00	183.50	1.50									
E5563744	ASD005	183.50	184.38	0.88									
E5563745	ASD005	184.38	186.00	1.62									
E5563746	ASD005	186.00	187.00	1.00									
E5563747	ASD005	187.00	188.00	1.00									
E5563748	ASD005			0.00	Blank								
E5563749	ASD005	188.00	189.00	1.00									
E5563750	ASD005	189.00	190.00	1.00									
E5563751	ASD005	190.00	191.00	1.00									
E5563752	ASD005	191.00	192.18	1.18									
E5563753	ASD005			0.00	Standard	Oreas 147							
E5563754	ASD005	192.18	193.00	0.82									
E5563755	ASD005	193.00	194.00	1.00									
E5563756	ASD005	193.00	194.00	1.00	FD	E5563755							
E5563757	ASD005	194.00	195.00	1.00									
E5563758	ASD005	195.00	196.00	1.00									
E5563759	ASD005	196.00	197.00	1.00									
E5563760	ASD005	197.00	197.65	0.65									
E5563761	ASD005	197.65	199.00	1.35									
E5563762	ASD005	199.00	200.00	1.00									
E5563763	ASD005	200.00	201.18	1.18									
E5563764	ASD005	201.18	201.70	0.52									
E5563765	ASD005	201.70	202.69	0.99									
E5563766	ASD005	202.69	203.95	1.26									
E5563767	ASD005			0.00	Blank								
E5563768	ASD005	203.95	205.00	1.05									
E5563769	ASD005	205.00	206.00	1.00									
E5563770	ASD005	206.00	207.00	1.00									
E5563771	ASD005	207.00	208.00	1.00									
E5563772	ASD005	208.00	209.00	1.00									
E5563773	ASD005	209.00	210.00	1.00									
E5563774	ASD005	210.00	211.00	1.00									
E5563775	ASD005			0.00	Standard	Oreas 147							
E5563776	ASD005	211.00	212.00	1.00									
E5563777	ASD005	212.00	213.00	1.00									
E5563778	ASD005	213.00	214.27	1.27									
E5563779	ASD005	214.27	214.90	0.63									
E5563780	ASD005	214.90	216.00	1.10									
E5563781	ASD005	216.00	217.50	1.50									
E5563782	ASD005	217.50	219.00	1.50									
E5563783	ASD005	219.00	220.50	1.50									
E5563784	ASD005	220.50	222.00	1.50									
E5563785	ASD005	222.00	223.50	1.50									
E5563786	ASD005	223.50	225.00	1.50									
E5563787	ASD005			0.00	Blank								
E5563788	ASD005	249.00	250.50	1.50									
E5563789	ASD005	250.50	252.00	1.50									
E5563790	ASD005	252.00	253.50	1.50									

E5563791	ASD005	253.50	255.00	1.50							
E5563792	ASD005			0.00	Standard	Oreas 149					
E5563793	ASD005	255.00	256.50	1.50							
E5563794	ASD005	256.50	258.00	1.50							
E5563795	ASD005	258.00	259.52	1.52							
E5563796	ASD005	258.00	259.52	1.52	FD	E5563795					
E5563797	ASD005	259.52	260.50	0.98							
E5563798	ASD005	260.50	261.50	1.00							
E5563799	ASD005	261.50	262.68	1.18							
E5563800	ASD005	262.68	264.00	1.32							
E5563801	ASD005	264.00	265.50	1.50							
E5563802	ASD005	265.50	267.00	1.50							
E5563803	ASD005	267.00	268.50	1.50							
E5563804	ASD005	268.50	270.00	1.50							
E5563805	ASD005	270.00	271.50	1.50							
E5563806	ASD005	271.50	273.00	1.50							
E5563807	ASD005			0.00	Blank						
E5563808	ASD005	281.40	282.40	1.00							
E5563809	ASD005	282.40	282.78	0.38							
E5563810	ASD005	282.78	283.80	1.02							

Project:	Seymour Lake		
Prospect:	North Aubry		
Claim #:			
Hole ID:	ASD006		
Start Date:	02/08/2018		
End Date:	05/08/2018		
EOH Depth:	200		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585297.59	m
	UTM East:	397173.57	m
	Elevation:	387.4	m
	Dip:	-75	at setup
	Az:	206	at setup
	Collar Survey Method:	<i>iSxBlue RTN</i>	
	Surveyed by:	<i>Carlos Munoz</i>	
Drill Co:			
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	200	BTW	
Drill comments (issues, casing, gear in hole): 2m casing			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD006	0	-75.4	199.39		200.5	200.50		APS	Dip Inferred.
ASD006	6	-75.4		193.8	189.9	198.00	5761.00	Reflez ez-shot	
ASD006	20	-74.6		202.0	198.1	198.05	5725.00	Reflez ez-shot	
ASD006	50	-74.6		200.8	196.9	196.85	5700.00	Reflez ez-shot	
ASD006	80	-74.6		201.3	197.4	197.35	5711.00	Reflez ez-shot	
ASD006	110	-74.5		200.6	196.7	196.65	5710.00	Reflez ez-shot	
ASD006	140	-74.4		200.4	196.5	196.45	5683.00	Reflez ez-shot	
ASD006	170	-74.5		201.4	197.5	197.45	5716.00	Reflez ez-shot	
ASD006	200	-74.2		202.8	198.9	198.85	5711.00	Reflez ez-shot	



GEOLOGICAL CORE LOG

Date Logged: 03/08/2018

EDH called by:

EDH Reason:

Geologist: Carlos Munoz

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
AS0006	0.00	1.56	1.56			OB																
AS0006	1.56	53.00	51.44		GRN	Xlqz	PL	Hb	Ch	Oz	Di			Bl, Fs	vn	W	vmpc	20	Int	M	veins of Diopside and Cr with minor Fs and Cr. Local garnets, weak alteration to Bl and Fs at 40m. Foliation with weak to moderate alteration.	
AS0006	53.00	54.10	1.10		WHT	FGPsp	PGC	Fs	Ab	Oz	sp	10	8									sp altered to red. Intergrown in feldspars (Ab-Kfs).
AS0006	54.10	135.30	81.20		GRN	Xlqz	EDU	Hb	Ch	Oz				Ch	Piv	w	vmpc	20				Equigranular monoxide, almost gabbroic. None to weak foliation. Local Bl probably metaillite, weak porphyritic texture.
AS0006	135.30	136.60	1.30		GRN	Xlqz	EDU	Hb	Ch	Oz				Ch	Piv	w						recrystallized at the contact with pegmatite.
AS0006	136.60	150.64	14.04		GRN	Xlqz	EDU	Hb	Ch	Oz	sp	10	15	Fe	Spt	m						coarse crystals of spodumene, fs locally microgranitic.
AS0006	150.64	151.90	1.26		PNK	FGPsp	PGC	Fs	Ab	Oz												
AS0006	151.90	152.81	0.91		GRY	FGPsp	PGC	Blc	Oz	Fs												
AS0006	152.81	157.57	4.76		WHT	FGPsp	PPC	Ab	Sp	Fs		15	5	Fe	lgt	w						
AS0006	157.57	159.65	2.08		WHT	FGPsp	PEM	Fs	Ab	Oz												
AS0006	159.65	180.07	20.42		GRN	MXB	MAS	Ch	Oz	Ch	Di						vnc	10				Ch veins altered to Diopside, moderately fractured rock.
AS0006	180.07	183.30	3.23		GRY	IXT	FRC	Hb	Bl	Oz									Fe	Int		Metamorphosed luf, fractured. Probably fault zone.
AS0006	183.30	200.00	16.70		GRN	MXB	MAS	Ch	Oz	Ch							vnc	5				E. O. H.

ASD006					
ASD006					
ASD006					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length	%	
ASD006	0	2	2.00	1.01	50.50	0.55	54.46	0
ASD006	2	5	3.00	3.40	113.33	2.58	75.88	8
ASD006	5	8	3.00	3.00	100.00	2.77	92.33	5
ASD006	8	11	3.00	3.07	102.33	3.07	100.00	2
ASD006	11	14	3.00	3.00	100.00	2.74	91.33	5
ASD006	14	17	3.00	3.00	100.00	2.93	97.67	4
ASD006	17	20	3.00	3.06	102.00	2.98	97.39	4
ASD006	20	23	3.00	3.02	100.67	2.92	96.69	5
ASD006	23	26	3.00	3.00	100.00	2.90	96.67	2
ASD006	26	29	3.00	3.03	101.00	3.00	99.01	4
ASD006	29	32	3.00	3.05	101.67	2.98	97.70	5
ASD006	32	35	3.00	3.00	100.00	2.90	96.67	2
ASD006	35	38	3.00	3.03	101.00	2.95	97.36	6
ASD006	38	41	3.00	3.02	100.67	3.02	100.00	2
ASD006	41	44	3.00	3.05	101.67	2.65	86.89	7
ASD006	44	47	3.00	3.02	100.67	2.95	97.68	2
ASD006	47	50	3.00	3.03	101.00	2.90	95.71	4
ASD006	50	53	3.00	3.00	100.00	2.75	91.67	5
ASD006	53	56	3.00	3.00	100.00	2.92	97.33	4
ASD006	56	59	3.00	3.00	100.00	2.92	97.33	5
ASD006	59	62	3.00	3.03	101.00	2.86	94.39	5
ASD006	62	65	3.00	3.05	101.67	2.77	90.82	5
ASD006	65	68	3.00	3.01	100.33	2.86	95.02	7
ASD006	68	71	3.00	3.00	100.00	2.91	97.00	4
ASD006	71	74	3.00	3.06	102.00	3.00	98.04	4
ASD006	74	77	3.00	3.06	102.00	3.06	100.00	4
ASD006	77	80	3.00	3.00	100.00	3.00	100.00	2
ASD006	80	83	3.00	3.05	101.67	3.05	100.00	6
ASD006	83	86	3.00	3.08	102.67	3.08	100.00	3
ASD006	86	89	3.00	3.02	100.67	2.90	96.03	3
ASD006	89	92	3.00	3.00	100.00	3.00	100.00	3
ASD006	92	95	3.00	3.00	100.00	3.00	100.00	3
ASD006	95	98	3.00	3.09	103.00	3.01	97.41	3
ASD006	98	101	3.00	3.02	100.67	2.84	94.04	5
ASD006	101	104	3.00	3.00	100.00	3.00	100.00	5
ASD006	104	107	3.00	3.05	101.67	3.05	100.00	3
ASD006	107	110	3.00	3.04	101.33	2.97	97.70	4
ASD006	110	113	3.00	3.03	101.00	2.94	97.03	1
ASD006	113	116	3.00	3.03	101.00	2.97	98.02	5
ASD006	116	119	3.00	3.05	101.67	3.05	100.00	5
ASD006	119	122	3.00	3.03	101.00	2.95	97.36	5
ASD006	122	125	3.00	3.04	101.33	2.97	97.70	4
ASD006	125	128	3.00	3.03	101.00	3.03	100.00	2
ASD006	128	131	3.00	2.98	99.33	2.89	96.98	5
ASD006	131	134	3.00	3.04	101.33	3.04	100.00	5

ASD006	134	137	3.00	3.06	102.00	2.70	88.24	12
ASD006	137	140	3.00	3.03	101.00	2.93	96.70	4
ASD006	140	143	3.00	3.00	100.00	2.91	97.00	7
ASD006	143	146	3.00	3.06	102.00	2.80	91.50	7
ASD006	146	149	3.00	3.00	100.00	2.82	94.00	5
ASD006	149	152	3.00	3.03	101.00	2.76	91.09	8
ASD006	152	155	3.00	3.08	102.67	3.08	100.00	2
ASD006	155	158	3.00	3.04	101.33	2.95	97.04	6
ASD006	158	161	3.00	3.13	104.33	0.40	12.78	15
ASD006	161	164	3.00	3.10	103.33	2.60	83.87	14
ASD006	164	167	3.00	3.00	100.00	2.73	91.00	5
ASD006	167	170	3.00	3.30	110.00	2.90	87.88	9
ASD006	170	173	3.00	3.16	105.33	2.81	88.92	10
ASD006	173	176	3.00	2.90	96.67	2.68	92.41	12
ASD006	176	179	3.00	3.02	100.67	2.72	90.07	8
ASD006	179	182	3.00	3.70	123.33	1.40	37.84	40
ASD006	182	185	3.00	3.60	120.00	2.16	60.00	30
ASD006	185	188	3.00	3.07	102.33	2.80	91.21	8
ASD006	188	191	3.00	3.14	104.67	1.87	59.55	12
ASD006	191	194	3.00	2.95	98.33	2.00	67.80	12
ASD006	194	197	3.00	3.04	101.33	2.99	98.36	6
ASD006	197	200	3.00	3.00	100.00	2.74	91.33	5

ARDIDEN LIMITED

Hole No.	ASD006						Date:	03/08/2018		
Geologist:		Carlos Munoz		Core Box Intervals						
Box #	From	To		Box #	From	To		Box #	From	To
1	0.0	5.0	5.0	45	190.13	194.49		89		
2	5.0	9.3	4.3	46	194.49	198.91		90		
3	9.3	13.7	4.3	47	198.91	200	EOH	91		
4	13.7	18.0	4.4	48				92		
5	18.0	22.4	4.4	49				93		
6	22.4	26.7	4.3	50				94		
7	26.7	31.0	4.3	51				95		
8	31.0	35.3	4.3	52				96		
9	35.3	39.6	4.3	53				97		
10	39.6	44.0	4.4	54				98		
11	44.0	48.2	4.3	55				99		
12	48.2	52.7	4.4	56				100		
13	52.7	57.1	4.4	57				101		
14	57.1	61.5	4.4	58				102		
15	61.5	65.8	4.3	59				103		
16	65.8	70.2	4.4	60				104		
17	70.2	74.5	4.3	61				105		
18	74.5	78.9	4.4	62				106		
19	78.9	83.2	4.3	63				107		
20	83.2	87.5	4.3	64				108		
21	87.5	91.9	4.3	65				109		
22	91.9	96.22	4.4	66				110		
23	96.2	100.66	4.4	67				111		
24	100.7	105	4.3	68				112		
25	105.0	109.43	4.4	69				113		
26	109.4	113.79	4.4	70				114		
27	113.8	118.23	4.4	71				115		
28	118.2	122.6	4.4	72				116		
29	122.6	126.99	4.4	73				117		
30	127.0	131.37	4.4	74				118		
31	131.4	135.72	4.3	75				119		
32	135.7	140	4.3	76				120		
33	140.0	144.45	4.4	77				121		
34	144.5	148.77	4.3	78				122		
35	148.8	153.08	4.3	79				123		
36	153.1	157.29	4.2	80				124		
37	157.3	161.55	4.3	81				125		
38	161.6	165.88	4.3	82				126		
39	165.9	170	4.1	83				127		
40	170.0	174.3	4.3	84				128		
41	174.3	178.72	4.4	85				129		
42	178.7	182	3.3	86				130		
43	182.0	185.88	3.9	87				131		
44	185.9	190.13	4.3	88				132		

SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:				Sampled by: Carlos Munc		DATE: 03/08/2018						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5563811	ASD006	43.00	44.50	1.50								
E5563812	ASD006	44.50	46.00	1.50								
E5563813	ASD006	46.00	47.50	1.50								
E5563814	ASD006	47.50	49.00	1.50								
E5563815	ASD006			0.00	Standard	OREAS 147						
E5563816	ASD006	49.00	50.50	1.50								
E5563817	ASD006	50.50	52.00	1.50								
E5563818	ASD006	52.00	53.00	1.00								
E5563819	ASD006	53.00	54.10	1.10		FIGPsp						
E5563820	ASD006	54.10	55.50	1.40								
E5563821	ASD006	55.50	57.00	1.50								
E5563822	ASD006	57.00	58.50	1.50								
E5563823	ASD006	58.50	60.00	1.50								
E5563824	ASD006	60.00	61.50	1.50								
E5563825	ASD006	61.50	63.00	1.50								
E5563826	ASD006	63.00	64.00	1.00								
E5563827	ASD006			0.00	Blank							
E5563828	ASD006	140.00	141.50	1.50								
E5563829	ASD006	141.50	143.00	1.50								
E5563830	ASD006	143.00	144.50	1.50								
E5563831	ASD006	144.50	146.00	1.50								
E5563832	ASD006			0.00	Standard	Oreas 149						
E5563833	ASD006	146.00	147.50	1.50								
E5563834	ASD006	147.50	149.00	1.50								
E5563835	ASD006	149.00	150.64	1.64								
E5563836	ASD006	149.00	150.64	1.64	FD	E5563835						
E5563837	ASD006	150.64	151.90	1.26		FIGPsp						
E5563838	ASD006	151.90	152.81	0.91								
E5563839	ASD006	152.81	154.00	1.19								
E5563840	ASD006	154.00	155.00	1.00								
E5563841	ASD006	155.00	156.00	1.00								
E5563842	ASD006	156.00	157.00	1.00								
E5563843	ASD006	157.00	157.57	0.57								
E5563844	ASD006	157.57	158.19	0.62								
E5563845	ASD006	158.19	159.00	0.81								
E5563846	ASD006	159.00	159.65	0.65								
E5563847	ASD006			0.00	Blank							
E5563848	ASD006	159.65	161.00	1.35								
E5563849	ASD006	161.00	162.50	1.50								
E5563850	ASD006	162.50	164.00	1.50								
E5563851	ASD006	164.00	165.50	1.50								
E5563852	ASD006	165.50	167.00	1.50								
E5563853	ASD006	167.00	168.50	1.50								
E5563854	ASD006	168.50	170.00	1.50								
E5563855	ASD006			0.00	Standard	Oreas 147						

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CR			Carbonates	HT	Hornblende	HT	Hornblende	MA	Massive	W	Weak	FEF	Feignite, epidote, fine-grained (1-2mm), "apitic" (locally)	CR	Dark	CR	Cracked	W	Weak
CC			Calc. Carb.	AP	Apophite	CB	Carbonate	PS	Porphy	M	Medium	FSM	Feignite, epidote, medium-grained (2-5mm), "microapitic"	CS	Light	CR	Cracked	M	Medium
S			Subvolcanic (including chemical sands)	AV	Amphibole	CA	Chloritic	PA	Perthite	S	Strong	FCG	Feignite, coarse to "giant" grains but not distinctly porphyritic	BU	Black	BU	Boudinaged	S	Strong
U			Undifferentiated (not for epithermal tuffs)	AT	Actinolite	EP	Epidote	SB	Sulfide	W	Weak	FPF	Feignite, distinct phenocrysts in fine-grained matrix	BR	Black	BR	Brown	W	Weak
S			Sulfidic (undifferentiated)	AV	Amphibole	FE	Ferrous oxide	HS	Hornblende	VS	Variable	FCG	Feignite, giant phenocrysts in coarse-grained matrix	BU	Black	BR	Brown	VS	Variable
H			Hydrothermal (undifferentiated)	BE	Beryl	GT	Garnet	MA	Matrix	DC	Decreasing	PAB	Pyroxene, alternating bands (1-20%) of apitic and coarse-grained rock	BR	Brown	BR	Brown	DC	Decreasing
S			Sulphidic (primary perite)	HT	Hornblende	EP	Epidote	QCC	Quartz-carbonate	IR	Increasing	AMS	Amphibole	GR	Green	BR	Brown	IR	Increasing
U			Undifferentiated (undifferentiated)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
G			Granulite (undifferentiated)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
C			Chert (20% magnetite banding)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
T			<1% magnetite or sulphides	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
M			>1% magnetite or sulphides	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
S			Sulphidic (primary perite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
S			Sulphidic (Au - secondary pyrite/pyrrhotite after magnetite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
B			Banded Iron Formation (0-10% magnetite or secondary sulphides)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
S			Sulphidic, magnetite only	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
S			Sulphidic (primary perite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
S			Sulphidic (Au - secondary pyrite/pyrrhotite after magnetite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
Subvolcanic																			
P			Feldspar porphyry	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
V			Volcanic undifferentiated	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
K			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
X			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
F			Flow (basalt)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
B			Breccia	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
T			Tuff undifferentiated	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
I			Ignimbrite/Flow Tuff (Flamme)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
A			Ashfall Tuff (2mm)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
A			Agglomerate Tuff (2-4mm)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
A			Agglomerate Tuff (4-6mm)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
B			Basaltic Breccia (Volcanic Breccia)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
F			Flow (andesite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
F			Flow (andesite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
E			Epithermal (newarkite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
I			Intrusive	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
D			Duress	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
D			Duress (Plagioclase rich)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
T			Trahyte (Alkali Feldspar rich)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
Subvolcanic																			
P			Mafic Porphyry (Mg, Ni, Fe, phenocrystic)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
V			Volcanic undifferentiated	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
K			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
X			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
F			Flow (basalt)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
B			Breccia	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
T			Tuff undifferentiated	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
I			Ignimbrite (newarkite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
D			Duress/Duress	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
G			Granulite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
I			Intrusive	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
B			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
D			Duress/Duress	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
G			Granulite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
Subvolcanic																			
V			Volcanic undifferentiated	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
X			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
K			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
F			Flow (basalt)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
B			Breccia	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
T			Tuff undifferentiated	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
I			Ignimbrite (newarkite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
D			Duress/Duress	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
G			Granulite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
I			Intrusive	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
B			Basaltic	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
D			Duress (Olivine rich)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
P			Pyroxene (Pyroxene rich)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
E			Epithermal (newarkite)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
Subvolcanic																			
abs			Quartz-biotite schist -v- garnet, amphibole (metased or meta tuff)	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende
ba			Basaltic andesite	HT	Hornblende	SR	Sericite	QCC	Quartz-carbonate	W	Weak	GR	Green	GR	Green	HT	Hornblende breccia	HT	Hornblende

Project:	Seymour Lake		
Prospect:	Aubry		
Claim #:			
Hole ID:	ASD007		
Start Date:	04/08/2018		
End Date:	08/08/2018		
EOH Depth:	251		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585297.37	m
	UTM East:	397173.33	m
	Elevation:	387.9	m
	Dip:	85	at setup
	Az:	206	at setup
	Collar Survey Method:	<i>iSxBlue RTN</i>	
	Surveyed by:	<i>Carlos Munoz</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	251	BTW	
Drill comments (issues, casing, gear in hole):			
Geology comments:			

BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD007	2	5	3.00	3.68	122.67	3.12	84.78	10
ASD007	5	8	3.00	2.97	99.00	2.97	100.00	6
ASD007	8	11	3.00	3.03	101.00	2.78	91.75	5
ASD007	11	14	3.00	3.02	100.67	2.89	95.70	4
ASD007	14	17	3.00	3.03	101.00	2.80	92.41	9
ASD007	17	20	3.00	2.96	98.67	2.83	95.61	8
ASD007	20	23	3.00	3.70	123.33	3.40	91.89	12
ASD007	23	26	3.00	3.07	102.33	2.66	86.64	15
ASD007	26	29	3.00	3.08	102.67	3.08	100.00	2
ASD007	29	32	3.00	3.06	102.00	2.99	97.71	8
ASD007	32	35	3.00	3.07	102.33	2.90	94.46	11
ASD007	35	38	3.00	3.08	102.67	3.08	100.00	7
ASD007	38	41	3.00	3.06	102.00	3.02	98.69	9
ASD007	41	44	3.00	3.01	100.33	2.80	93.02	9
ASD007	44	47	3.00	3.04	101.33	2.64	86.84	14
ASD007	47	50	3.00	3.07	102.33	2.89	94.14	6
ASD007	50	53	3.00	3.00	100.00	2.72	90.67	6
ASD007	53	56	3.00	3.03	101.00	2.74	90.43	11
ASD007	56	59	3.00	3.00	100.00	2.88	96.00	11
ASD007	59	62	3.00	3.05	101.67	3.05	100.00	5
ASD007	62	65	3.00	3.05	101.67	2.93	96.07	3
ASD007	65	68	3.00	3.00	100.00	2.79	93.00	6
ASD007	68	71	3.00	3.00	100.00	2.57	85.67	7
ASD007	71	74	3.00	3.03	101.00	2.95	97.36	8
ASD007	74	77	3.00	3.05	101.67	2.88	94.43	12
ASD007	77	80	3.00	3.00	100.00	3.00	100.00	9
ASD007	80	83	3.00	3.00	100.00	2.80	93.33	8
ASD007	83	86	3.00	3.00	100.00	2.90	96.67	8
ASD007	86	89	3.00	2.72	90.67	2.62	96.32	5
ASD007	89	92	3.00	3.30	110.00	2.92	88.48	11
ASD007	92	95	3.00	3.00	100.00	2.93	97.67	3
ASD007	95	98	3.00	3.00	100.00	2.57	85.67	10
ASD007	98	101	3.00	3.00	100.00	2.78	92.67	10
ASD007	101	104	3.00	3.00	100.00	2.76	92.00	12
ASD007	104	107	3.00	3.00	100.00	2.60	86.67	11
ASD007	107	110	3.00	3.00	100.00	2.70	90.00	9
ASD007	110	113	3.00	3.04	101.33	3.04	100.00	8
ASD007	113	116	3.00	2.99	99.67	2.96	99.00	5
ASD007	116	119	3.00	3.12	104.00	2.88	92.31	10
ASD007	119	122	3.00	3.10	103.33	2.75	88.71	5
ASD007	122	125	3.00	3.00	100.00	2.64	88.00	11
ASD007	125	128	3.00	3.01	100.33	3.01	100.00	7
ASD007	128	131	3.00	3.06	102.00	2.97	97.06	7
ASD007	131	134	3.00	3.00	100.00	3.00	100.00	3
ASD007	134	137	3.00	3.03	101.00	3.03	100.00	3

ASD007	137	140	3.00	3.05	101.67	3.05	100.00	6
ASD007	140	143	3.00	3.00	100.00	3.00	100.00	6
ASD007	143	146	3.00	2.95	98.33	2.18	73.90	14
ASD007	146	149	3.00	3.05	101.67	2.80	91.80	7
ASD007	149	152	3.00	3.06	102.00	3.06	100.00	6
ASD007	152	155	3.00	3.04	101.33	3.04	100.00	6
ASD007	155	158	3.00	3.03	101.00	3.03	100.00	2
ASD007	158	161	3.00	3.03	101.00	3.03	100.00	3
ASD007	161	164	3.00	3.09	103.00	3.09	100.00	5
ASD007	164	167	3.00	3.00	100.00	2.65	88.33	7
ASD007	167	170	3.00	3.04	101.33	3.04	100.00	3
ASD007	170	173	3.00	3.00	100.00	3.00	100.00	1
ASD007	173	176	3.00	3.00	100.00	2.80	93.33	13
ASD007	176	179	3.00	3.04	101.33	2.94	96.71	4
ASD007	179	182	3.00	3.10	103.33	2.70	87.10	8
ASD007	182	185	3.00	3.20	106.67	2.17	67.81	18
ASD007	185	188	3.00	3.02	100.67	3.02	100.00	7
ASD007	188	191	3.00	3.05	101.67	3.05	100.00	3
ASD007	191	194	3.00	3.05	101.67	2.95	96.72	16
ASD007	194	197	3.00	3.00	100.00	2.78	92.67	9
ASD007	197	200	3.00	3.00	100.00	2.85	95.00	13
ASD007	200	203	3.00	3.46	115.33	1.80	52.02	20
ASD007	203	206	3.00	3.00	100.00	2.92	97.33	5
ASD007	206	209	3.00	3.03	101.00	3.01	99.34	3
ASD007	209	212	3.00	3.00	100.00	3.00	100.00	3
ASD007	212	215	3.00	3.03	101.00	3.03	100.00	5
ASD007	215	218	3.00	3.08	102.67	3.08	100.00	2
ASD007	218	221	3.00	3.00	100.00	2.74	91.33	9
ASD007	221	224	3.00	3.04	101.33	2.94	96.71	3
ASD007	224	227	3.00	3.02	100.67	2.93	97.02	5
ASD007	227	230	3.00	3.04	101.33	2.94	96.71	4
ASD007	230	233	3.00	3.00	100.00	3.00	100.00	2
ASD007	233	236	3.00	3.00	100.00	3.00	100.00	3
ASD007	236	239	3.00	3.02	100.67	2.87	95.03	3
ASD007	239	242	3.00	3.00	100.00	2.95	98.33	4
ASD007	242	245	3.00	3.02	100.67	3.02	100.00	4
ASD007	245	248	3.00	3.03	101.00	2.60	85.81	8
ASD007	248	251	3.00	2.98	99.33	2.88	96.64	3

ARDIDEN LIMITED

Hole No.	ASD007					Date:	05/08/2018			
Geologist:	Carlos Munoz		Core Box Intervals							
Box #	From	To		Box #	From	To		Box #	From	To
1	0.0	4.5		45	191.4	195.61		89		
2	4.5	9.0		46	195.61	200		90		
3	9.0	13.3		47	200	203.9		91		
4	13.3	17.5		48	203.9	208.36		92		
5	17.5	22.1		49	208.36	212.75		93		
6	22.1	26.0		50	212.75	217.15		94		
7	26.0	30.5		51	217.15	221.53		95		
8	30.5	34.8		52	221.53	225.89		96		
9	34.8	39.1		53	225.89	230.22		97		
10	39.1	43.6		54	230.22	234.6		98		
11	43.6	47.9		55	234.6	239		99		
12	47.9	52.3		56	239	243.39		100		
13	52.3	56.6		57	243.39	247.74		101		
14	56.6	61.0		58	247.74	251	EOH	102		
15	61.0	65.3		59				103		
16	65.3	69.8		60				104		
17	69.8	74.1		61				105		
18	74.1	78.5		62				106		
19	78.5	83.0		63				107		
20	83.0	87.5		64				108		
21	87.5	91.8		65				109		
22	91.8	96.09		66				110		
23	96.1	100.52		67				111		
24	100.5	104.86		68				112		
25	104.9	109.23		69				113		
26	109.2	113.62		70				114		
27	113.6	118.01		71				115		
28	118.0	122.25		72				116		
29	122.3	126.73		73				117		
30	126.7	131		74				118		
31	131.0	135.38		75				119		
32	135.4	139.81		76				120		
33	139.8	144.23		77				121		
34	144.2	148.55		78				122		
35	148.6	152.8		79				123		
36	152.8	157.19		80				124		
37	157.2	161.51		81				125		
38	161.5	165.65		82				126		
39	165.7	169.88		83				127		
40	169.9	174.16		84				128		
41	174.2	178.63		85				129		
42	178.6	182.83		86				130		
43	182.8	187.06		87				131		
44	187.1	191.4		88				132		

SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD007	Sampled by: Carlos Muno				DATE: 06/08/2018						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5563856	ASD007	46.00	47.50	1.50								
E5563857	ASD007	47.50	49.00	1.50								
E5563858	ASD007	49.00	50.50	1.50								
E5563859	ASD007	50.50	52.00	1.50								
E5563860	ASD007	52.00	53.50	1.50								
E5563861	ASD007	53.50	55.00	1.50								
E5563862	ASD007	55.00	55.94	0.94								
E5563863	ASD007	55.94	57.36	1.42								
E5563864	ASD007	57.36	58.50	1.14								
E5563865	ASD007	58.50	60.00	1.50								
E5563866	ASD007	60.00	61.50	1.50								
E5563867	ASD007				Blank							
E5563868	ASD007	61.50	63.00	1.50								
E5563869	ASD007	63.00	64.50	1.50								
E5563870	ASD007	64.50	66.00	1.50								
E5563871	ASD007	66.00	67.50	1.50								
E5563872	ASD007			0.00	Standard	Oreas 149						
E5563873	ASD007	154.50	156.00	1.50								
E5563874	ASD007	156.00	157.50	1.50								
E5563875	ASD007	157.50	159.00	1.50								
E5563876	ASD007	157.50	159.00	1.50	FD	E5563875						
E5563877	ASD007	159.00	160.50	1.50								
E5563878	ASD007	160.50	162.00	1.50								
E5563879	ASD007	162.00	163.50	1.50								
E5563880	ASD007	163.50	164.42	0.92								
E5563881	ASD007	164.42	164.91	0.49								
E5563882	ASD007	164.91	165.85	0.94								
E5563883	ASD007	165.85	167.00	1.15								
E5563884	ASD007	167.00	168.00	1.00								
E5563885	ASD007	160.50	169.00	8.50								
E5563886	ASD007	169.00	170.00	1.00								
E5563887	ASD007				Blank							
E5563888	ASD007	170.00	171.26	1.26								
E5563889	ASD007	171.26	172.00	0.74								
E5563890	ASD007	172.00	173.00	1.00								
E5563891	ASD007	173.00	174.50	1.50								
E5563892	ASD007	174.50	176.00	1.50								
E5563893	ASD007	176.00	177.50	1.50								
E5563894	ASD007	177.50	178.63	1.13								
E5563895	ASD007				Standard	Oreas 147						
E5563896	ASD007	178.63	179.27	0.64								
E5563897	ASD007	179.27	180.56	1.29								
E5563898	ASD007	180.56	182.00	1.44								
E5563899	ASD007	182.00	183.50	1.50								
E5563900	ASD007	183.50	185.00	1.50								
E5563901	ASD007	185.00	186.50	1.50								
E5563902	ASD007	186.50	188.00	1.50								
E5563903	ASD007	188.00	189.50	1.50								
E5563904	ASD007	236.50	238.00	1.50								
E5563905	ASD007	238.00	239.50	1.50								
E5563906	ASD007	239.50	241.00	1.50								
E5563907	ASD007			0.00	Blank							
E5563908	ASD007	241.00	242.50	1.50								
E5563909	ASD007	242.50	244.00	1.50								
E5563910	ASD007	244.00	245.50	1.50								
E5563911	ASD007	245.50	246.36	0.86								
E5563912	ASD007			0.00	Standard	Oreas 149						
E5563913	ASD007	246.36	247.43	1.07								
E5563914	ASD007	247.43	249.00	1.57								
E5563915	ASD007	249.00	250.00	1.00								
E5563916	ASD007	249.00	250.00	1.00	FD	E5563915						
E5563917	ASD007	250.00	251.00	1.00		EOH						

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CH			Chert/Carbon	MT	Muscovite	BT	Biotite	MA	Mylonite	R	Weak	PEP	Porphyritic, equigranular, fine-grained (1-20mm), "aplitic" (foliated)	DR	Dark	DR	Banded	W	Weak
LC			Loose Calc	AP	Apatite	CB	Carbonate	PC	Porphy	M	Medium	PEM	Porphyritic, equigranular, medium-grained (2-5mm), "microcrystic"	CS	Light	DR	Banded	M	Medium
S			Subvolcanic (including chemical sands)	AP	Actinolite	CA	Chalcopyrite	PA	Perthite	S	Strong	PCG	Porphyritic, coarse to "glass" granular but not distinctly porphyritic	BU	Black	BU	Boudinaged	S	Strong
U			Undifferentiated (not for epithermal tuffs)	AT	Actinolite	EP	Epithermal	SD	Siderite	W	Weak	PP	Porphyritic, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
S			Subvolcanic (undifferentiated)	AV	Actinolite	FE	Ferrous Oxide	HA	Halo	V	Variable	PCG	Porphyritic, glass phenocrysts in coarse-grained matrix	BU	Blue	BU	Brecciated	W	Weak
H			Hyaline (undifferentiated)	BE	Beryl	GT	Garnet	MA	Matrix	DC	Decreasing	PAE	Porphyritic, alternating bands (1-20cm) of aplitic and coarse-grained rock	BR	Brown	BR	Autobreccia	DC	Decreasing
B			Beryl	BE	Beryl	GT	Garnet	MA	Matrix	DC	Decreasing	PAE	Porphyritic, alternating bands (1-20cm) of aplitic and coarse-grained rock	BR	Brown	BR	Autobreccia	DC	Decreasing
BL			Black	BE	Beryl	GT	Garnet	MA	Matrix	DC	Decreasing	PAE	Porphyritic, alternating bands (1-20cm) of aplitic and coarse-grained rock	BR	Brown	BR	Autobreccia	DC	Decreasing
S			Sulphide (primary parite)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
G			Granulite (undifferentiated)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
G			Granulite (undifferentiated)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
C			Chert (20% magnetite banding)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
C			Chert (20% magnetite banding)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
T			<1% magnetite or sulphides	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
M			<1% magnetite or sulphides	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
S			Sulphide (secondary parite)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
B			Banded Iron Formation (0-10% magnetite or secondary sulphides)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
S			Sulphides, magnetite only	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
S			Sulphide (primary parite)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
Sulfide																			
P			Feldspar porphyry	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
V			Volcanic undifferentiated	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
K			Kalsheuer	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
A			Basaltic	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
RD			Rhyodacitic	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Tuff undifferentiated	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			(glimbra)/Flow Tuff (Flamme)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Asphalt Tuff (2-2mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Capill-Asp Tuff (2-4mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Agglomerate Tuff (2-4mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Agglomerate Tuff (4-6mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Hyaloclastite (Volcanic Breccia)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Flow (Hyoclast)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Epitaxial (newwork)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Intrusive	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Dacite	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Dacite (Plagioclase rich)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Trachyte (Alkali Feldspar rich)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
Sulfide																			
P			Mafic Porphyry (Mg, Ni, Fe, chromocyclic)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
V			Volcanic undifferentiated	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
K			Kalsheuer	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
A			Basaltic	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
F			Flow (basalt)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
B			Basaltic	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
D			Dacite (Hyoclast)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
T			Tuff undifferentiated	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			(glimbra)/Flow Tuff (Flamme)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Asphalt Tuff (2mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Capill-Asp Tuff (2-4mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Agglomerate Tuff (4-6mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Hyaloclastite (Volcanic Breccia)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Flow (Hyoclast)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Epitaxial (newwork)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Intrusive	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Dacite	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Dacite (Plagioclase rich)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Trachyte (Alkali Feldspar rich)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
Sulfide																			
P			Mafic Porphyry (Mg, Ni, Fe, chromocyclic)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
V			Volcanic undifferentiated	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
K			Kalsheuer	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
A			Basaltic	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
F			Flow (basalt)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
B			Basaltic	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
D			Dacite (Hyoclast)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
T			Tuff undifferentiated	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			(glimbra)/Flow Tuff (Flamme)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Asphalt Tuff (2mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Capill-Asp Tuff (2-4mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Agglomerate Tuff (4-6mm)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Hyaloclastite (Volcanic Breccia)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Flow (Hyoclast)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing
			Epitaxial (newwork)	CB	Carbonate	QCC	Quartz-carbonate	SR	Sericite	W	Weak	AM	Amphibolite	GR	Green	GR	Hydrothermal breccia	DC	Decreasing

Project:	Seymour Lake		
Prospect:	North Aubry		
Claim #:			
Hole ID:	ASD008		
Start Date:	08/08/2018		
End Date:	08/08/2018		
EOH Depth:	50		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585352.52	m
	UTM East:	397224.34	m
	Elevation:	387.8	m
	Dip:	-70	at setup
	Az:	206	at setup
	Collar Survey Method:		
	Surveyed by:		
Drill Co:			
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	50	BTW	
Drill comments (issues, casing, gear in hole):			
Geology comments: shut down after 2 bad azimuth measurements			

GEOLOGICAL CORE LOG

Date Logged: 09/08/2019 EDH called by: Carlos Munoz EDH Reason: 2 consecutive bad azimuth measurements, deviation of 14 degrees.

Geologist: Carlos Munoz

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
ASD008	0.00	2.00	2.00		GRN	OB																
ASD008	2.00	24.31	22.31		GRN	Xqps	fd	Hb	Bl	Qz	Ch			Ch	Prv	W	vtq	5	fd	S	Hb and Bl schist, well foliated	
ASD008	24.31	27.02	2.71		GRN	MXB	fd	Hb	Ch	Qz				Ch	Prv	W	vtq	5	fd	W	fine grain size, without Biotite or too low	
ASD008	27.02	50.00	22.98		GRN	Xqps	fd	Hb	Bl	Qz	Ch			Ch	Prv	W	vtq	5	fd	S		

ASD008					
ASD008					
ASD008					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD008	0	2	2.00	1.60	80.00	0.60	37.50	
ASD008	2	5	3.00	3.00	100.00	2.96	98.67	6
ASD008	5	8	3.00	3.00	100.00	2.90	96.67	6
ASD008	8	11	3.00	3.00	100.00	3.00	100.00	3
ASD008	11	14	3.00	3.06	102.00	3.06	100.00	6
ASD008	14	17	3.00	3.00	100.00	2.80	93.33	3
ASD008	17	20	3.00	3.00	100.00	3.00	100.00	4
ASD008	20	23	3.00	3.03	101.00	3.03	100.00	0
ASD008	23	26	3.00	3.03	101.00	3.03	100.00	3
ASD008	26	29	3.00	3.08	102.67	2.84	92.21	3
ASD008	29	32	3.00	3.08	102.67	2.98	96.75	3
ASD008	32	35	3.00	3.01	100.33	2.93	97.34	5
ASD008	35	38	3.00	3.10	103.33	3.10	100.00	3
ASD008	38	41	3.00	3.01	100.33	3.01	100.00	4
ASD008	41	44	3.00	3.06	102.00	2.91	95.10	3
ASD008	44	47	3.00	3.03	101.00	2.89	95.38	6
ASD008	47	50	3.00	3.08	102.67	2.98	96.75	1

ARDIDEN LIMITED

Hole No.	ASD008					Date:	09/08/2018			
Geologist:	Carlos Munoz		Core Box Intervals							
Box #	From	To		Box #	From	To		Box #	From	To
1	0.4	4.8		45				89		
2	4.8	9.2		46				90		
3	9.2	13.6		47				91		
4	13.6	18.0		48				92		
5	18.0	22.4		49				93		
6	22.4	26.8		50				94		
7	26.8	31.2		51				95		
8	31.2	35.5		52				96		
9	35.5	39.9		53				97		
10	39.9	44.3		54				98		
11	44.3	48.6		55				99		
12	48.6	50.0	EOH	56				100		
13				57				101		
14				58				102		
15				59				103		
16				60				104		
17				61				105		
18				62				106		
19				63				107		
20				64				108		
21				65				109		
22				66				110		
23				67				111		
24				68				112		
25				69				113		
26				70				114		
27				71				115		
28				72				116		
29				73				117		
30				74				118		
31				75				119		
32				76				120		
33				77				121		
34				78				122		
35				79				123		
36				80				124		
37				81				125		
38				82				126		
39				83				127		
40				84				128		
41				85				129		
42				86				130		
43				87				131		
44				88				132		

SAMPLE & SPECIFIC GRAVITY LOGS

Hole ID:		Sampled by:				DATE:							
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG	
789602	ASD008												
789603	ASD008												
789604	ASD008												
789605	ASD008												
789606	ASD008												
789607	ASD008												
789608	ASD008												
789609	ASD008												
789610	ASD008												
789611	ASD008												
789612	ASD008												
789613	ASD008												
789614	ASD008												
789615	ASD008												
789616	ASD008												
789617	ASD008												
789618	ASD008												
789619	ASD008												
789620	ASD008												
789621	ASD008												
789622	ASD008												
789623	ASD008												
789624	ASD008												
789625	ASD008												
789626	ASD008												
789627	ASD008												
789628	ASD008												
789629	ASD008												
789630	ASD008												
789631	ASD008												
789632	ASD008												
789633	ASD008												
789634	ASD008												
789635	ASD008												
789636	ASD008												
789637	ASD008												
789638	ASD008												
789639	ASD008												
789640	ASD008												
789641	ASD008												
789642	ASD008												
789643	ASD008												
789644	ASD008												
789645	ASD008												
789646	ASD008												
789647	ASD008												
789648	ASD008												
789649	ASD008												
789650	ASD008												
789651	ASD008												
789652	ASD008												
789653	ASD008												

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonised	AB	Albite	BT	Biotite	MA	Muscovite	W	Weak	PEP	Pegmatite, equigranular, fine-grained (1-2mm), "aplitic" (foliated)	DR	Dark	DR	Banded	W	Weak
CC			Coal Carb.	APT	Apophite	CB	Calcite	PC	Pyrite	M	Medium	PEM	Pegmatite, equigranular, medium-grained (2-5mm), "microplitic"	CS	Light	DR	Banded	M	Medium
S			Subvolcanic (including chemical sands)	AV	Arsenopyrite	CH	Chalcopyrite	PN	Perovskite	S	Strong	PGC	Pegmatite, coarse to "granit" granular but not distinctly porphyritic	BL	Black	BL	Boudinaged	S	Strong
U			Undifferentiated (not for epithermal tuffs)	AT	Actinolite	EP	Epithermal	SB	Siderite	W	Weak	PP	Pegmatite, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
D			Dioritic (undifferentiated)	AU	Auriferous Gold	FE	Ferrous Oxide	HS	Hornblende	V	Variable	PGC	Pegmatite, distinct phenocrysts in coarse-grained matrix	BLU	Blue	BR	Brecciated	V	Variable
H			Shale (undifferentiated)	BE	Beryl	GT	Garnet	MT	Malachite	DC	Decreasing	PAB	Pegmatite, alternating bands (<125cm) of aplitic and coarse-grained rock	BRN	Brown	BR	Autobreccia	DC	Decreasing
B			Basalt	BT	Biotite	CC	Calcite	QU	Quartz	IN	Increasing	AMS	Amphibolite	GRN	Green	BR	Hydrothermal breccia	IN	Increasing
S			Sulphide (primary parite)	CS	Carbonate	QCC	Quartz-carbonate	SR	Serpentine	W	Weak	BD	Banded	GRY	Grey	BR	Tectonic breccia		
G			Gabbro (undifferentiated)	EST	Epidote	SR	Serpentine	SD	Siderite	IK	Irregular	BD	Banded	FRK	Frisk	IK	Chalcedony		
G			Gabbro (undifferentiated)	CH	Chlorite	SL	Sillite	BD	Banded	IK	Irregular	BD	Banded	BD	Black	BD	Chalcedony		
C			Chert (>20% magnetite banding)	CP	Chalcopyrite	TAC	Talc-carbonate							WHT	White	CT	Contact lithological		
T			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite							BDU	Boudinaged	CR	Crenulated		
M			>1% magnetite or sulphides	EP	Epidote									BR	Brecciated	DF	Deformed		
S			Sulphide (secondary parite)	FR	Ferrous Oxide									BR	Brecciated	FR	Fractured		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	GR	Garnet									CR	Crenulated	FR	Fractured		
B			Banded Iron Formation (>10% magnetite or secondary sulphides)	GT	Garnet									DS	Dissiminated sulfides	FR	Fractured		
P			Phylloporphyry, magnetite only	HS	Hornblende									FRU	Fractured	FR	Fractured		
S			Sulphide (primary parite)	HB	Hornblende									FRU	Fractured	FR	Fractured		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	HM	Hematite									FRU	Fractured	FR	Fractured		
			Basalt	IP	Ilmenite									FRU	Fractured	FR	Fractured		
P			Feilspat porphyry	IP	Ilmenite									FRU	Fractured	FR	Fractured		
V			Volcanic undifferentiated	MM	Magnetite									GR	Green	FR	Fractured		
K			Basaltic	MS	Muscovite									GR	Green	FR	Fractured		
B			Basaltic	MS	Muscovite									GR	Green	FR	Fractured		
RD			Rhyolitic	MT	Magnetite									GR	Green	FR	Fractured		
			Undifferentiated	MT	Magnetite									GR	Green	FR	Fractured		
			Tuff undifferentiated	MT	Magnetite									GR	Green	FR	Fractured		
			(gimbrta/Flow Tuff (Flamme))	MT	Magnetite									GR	Green	FR	Fractured		
			Asphalt Tuff (>2mm)	MT	Magnetite									GR	Green	FR	Fractured		
			Capill-Asp Tuff (>4mm)	MT	Magnetite									GR	Green	FR	Fractured		
			Agglomerate Tuff (>4mm)	MT	Magnetite									GR	Green	FR	Fractured		
			Hyaloclastite (Volcanic Breccia)	MT	Magnetite									GR	Green	FR	Fractured		
			Flow (Hyoclast)	MT	Magnetite									GR	Green	FR	Fractured		
			Epitaxial (newwork)	MT	Magnetite									GR	Green	FR	Fractured		
			Intrusive	MT	Magnetite									GR	Green	FR	Fractured		
			Duette	MT	Magnetite									GR	Green	FR	Fractured		
			Duette (Plagioclase rich)	MT	Magnetite									GR	Green	FR	Fractured		
			Trachyte (Alkali Feldspar rich)	MT	Magnetite									GR	Green	FR	Fractured		
			Basalt	MT	Magnetite									GR	Green	FR	Fractured		
P			Magf. Porphyry (Mg silicate, phenocrystic)	MT	Magnetite									GR	Green	FR	Fractured		
V			Volcanic undifferentiated	MT	Magnetite									GR	Green	FR	Fractured		
K			Basaltic	MT	Magnetite									GR	Green	FR	Fractured		
B			Basaltic	MT	Magnetite									GR	Green	FR	Fractured		
F			Flow (Basalt)	MT	Magnetite									GR	Green	FR	Fractured		
B			Basaltic	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
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D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		
D			Duette (Olivine rich)	MT	Magnetite									GR	Green	FR	Fractured		

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD009	Datum/Proj:	NAD83 Zone 16
Start Date:	22 Augu 2018	UTM North:	5585352.81 m
End Date:	26 Aug 2018	UTM East:	397224.68 m
EOH Depth:	258m	Elevation:	387.8 m
		Dip:	-85 at setup
		Az:	206 at setup
		Collar Survey Method:	
		Surveyed by:	<i>kkp</i>
Drill Co:			
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	258	BTW	
Drill comments (issues, casing, gear in hole): 3m casing, 1 shoe in hole			
Geology comments:			

GEOLOGICAL CORE LOG

Date Logged:		EDH called by:										EDH Reason:																												
Geologist:																																								
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments																			
ASD009	0.00	2.35				ob																																		
ASD009	2.35	5.45				Xqps	bd	hb	bl					ch	prv	w	vtq	1																						
ASD009	5.45	10.54				MOX	mas							ch	prv	w	vtq	1																						
ASD009	10.54	73.76				Xqps								ch	prv	w	vtq	1																						
ASD009	73.76	74.22				FICPM		mc																																
ASD009	74.22	208.76				Xqps								ch	prv	w	vtq	1																						
ASD009	208.76	211.12				FICPM		mc	qt	ms	sp	1	50																											
ASD009	211.12	211.50				FICPM		qt	sp	ms																														
ASD009	211.50	233.28				FICPM		qt	sp	mc	ms	25	10																											
ASD009	233.28	236.22				FICPM		mc	qt	ms																														
ASD009	236.22	258.00				MOX								ch	prv	w	vtq	1																						
ASD009																																								
ASD009																																								
ASD009																																								
ASD009																																								
ASD009																																								
ASD009																																								

ASD009					
ASD009					
ASD009					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD009	3	6	3.00	3.10	103.33	2.48	80.00	15
ASD009	6	9	3.00	3.01	100.33	2.23	74.09	10
ASD009	9	12	3.00	2.98	99.33	2.55	85.57	8
ASD009	12	15	3.00	2.98	99.33	2.90	97.32	3
ASD009	15	18	3.00	3.04	101.33	2.98	98.03	4
ASD009	18	21	3.00	2.91	97.00	2.60	89.35	7
ASD009	21	24	3.00	3.08	102.67	2.98	96.75	1
ASD009	24	27	3.00	3.01	100.33	3.01	100.00	2
ASD009	27	30	3.00	3.14	104.67	3.14	100.00	1
ASD009	30	33	3.00	2.86	95.33	2.84	99.30	5
ASD009	33	36	3.00	3.05	101.67	3.01	98.69	6
ASD009	36	39	3.00	3.04	101.33	2.94	96.71	5
ASD009	39	42	3.00	2.95	98.33	2.75	93.22	6
ASD009	42	45	3.00	3.00	100.00	3.00	100.00	1
ASD009	45	48	3.00	3.05	101.67	3.00	98.36	1
ASD009	48	51	3.00	3.01	100.33	2.95	98.01	1
ASD009	51	54	3.00	3.03	101.00	3.03	100.00	1
ASD009	54	57	3.00	3.01	100.33	2.81	93.36	4
ASD009	57	60	3.00	3.04	101.33	2.94	96.71	2
ASD009	60	63	3.00	3.02	100.67	2.96	98.01	0
ASD009	63	66	3.00	3.04	101.33	3.04	100.00	0
ASD009	66	69	3.00	3.06	102.00	3.06	100.00	0
ASD009	69	72	3.00	2.97	99.00	2.97	100.00	1
ASD009	72	75	3.00	3.05	101.67	2.95	96.72	3
ASD009	75	78	3.00	2.99	99.67	2.79	93.31	2
ASD009	78	81	3.00	3.08	102.67	3.08	100.00	0
ASD009	81	84	3.00	3.00	100.00	3.00	100.00	1
ASD009	84	87	3.00	3.07	102.33	3.07	100.00	1
ASD009	87	90	3.00	2.96	98.67	2.96	100.00	2
ASD009	90	93	3.00	3.06	102.00	3.06	100.00	0
ASD009	93	96	3.00	2.96	98.67	2.96	100.00	0
ASD009	96	99	3.00	3.00	100.00	3.00	100.00	0
ASD009	99	102	3.00	3.04	101.33	3.04	100.00	1
ASD009	102	105	3.00	3.02	100.67	3.02	100.00	1
ASD009	105	108	3.00	3.03	101.00	2.95	97.36	2
ASD009	108	111	3.00	3.10	103.33	3.10	100.00	0
ASD009	111	114	3.00	2.94	98.00	2.94	100.00	0
ASD009	114	117	3.00	3.04	101.33	3.04	100.00	0
ASD009	117	120	3.00	2.98	99.33	2.98	100.00	1
ASD009	120	123	3.00	2.98	99.33	2.98	100.00	0
ASD009	123	126	3.00	3.06	102.00	3.06	100.00	0
ASD009	126	129	3.00	3.07	102.33	3.07	100.00	0
ASD009	129	132	3.00	3.00	100.00	3.00	100.00	0
ASD009	132	135	3.00	3.03	101.00	3.03	100.00	1
ASD009	135	138	3.00	3.00	100.00	3.00	100.00	0

ARDIDEN LIMITED

Hole No.	ASD009					Date:				
Geologist: AJR		Core Box Intervals								
Box #	From	To	Box #	From	To	Box #	From	To		
1	2.4	6.0	45	192	196.31	89				
2	6.0	10.2	46	196.31	200.62	90				
3	10.2	14.6	47	200.62	204.95	91				
4	14.6	18.7	48	204.95	209.27	92				
5	18.7	23.2	49	209.27	213.55	93				
6	23.2	27.4	50	213.55	217.16	94				
7	27.4	31.5	51	217.16	221.38	95				
8	31.5	35.9	52	221.38	225.36	96				
9	35.9	40.2	53	225.36	229.55	97				
10	40.2	44.6	54	229.55	233.8	98				
11	44.6	48.8	55	233.8	238.1	99				
12	48.8	53.3	56	238.1	242.48	100				
13	53.3	57.6	57	242.48	246.8	101				
14	57.6	61.8	58	246.8	251.09	102				
15	61.8	66.2	59	251.09	255.2	103				
16	66.2	70.6	60	255.2	258	104				
17	70.6	75.0	61			105				
18	75.0	79.3	62			106				
19	79.3	83.6	63			107				
20	83.6	87.8	64			108				
21	87.8	92.3	65			109				
22	92.3	96.55	66			110				
23	96.6	100.95	67			111				
24	101.0	105.37	68			112				
25	105.4	109.72	69			113				
26	109.7	114	70			114				
27	114.0	118.3	71			115				
28	118.3	122.68	72			116				
29	122.7	127.05	73			117				
30	127.1	131.4	74			118				
31	131.4	135.7	75			119				
32	135.7	140.08	76			120				
33	140.1	144.33	77			121				
34	144.3	148.72	78			122				
35	148.7	153	79			123				
36	153.0	157.33	80			124				
37	157.3	161.73	81			125				
38	161.7	166.02	82			126				
39	166.0	170.43	83			127				
40	170.4	174.56	84			128				
41	174.6	179.12	85			129				
42	179.1	183.28	86			130				
43	183.3	187.64	87			131				
44	187.6	192	88			132				

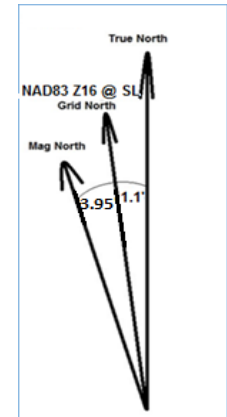
SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD009	Sampled by:			DATE:							
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5563973	ASD009	71.76	72.76	1.00								
E5563974	ASD009	72.76	73.76	1.00								
E5563975	ASD009	73.76	74.22	0.46								
E5563976	ASD009	74.22	75.22	1.00								
E5563977	ASD009	75.22	76.22	1.00								
E5563978	ASD009	198.50	200.00	1.50								
E5563979	ASD009				Standard	Oreas 147						
E5563980	ASD009	200.00	201.50	1.50								
E5563981	ASD009	201.50	203.00	1.50								
E5563982	ASD009	203.00	204.50	1.50								
E5563983	ASD009	204.50	206.00	1.50								
E5563984	ASD009	206.00	207.50	1.50								
E5563985	ASD009	207.50	208.76	1.26								
E5563986	ASD009	208.76	209.76	1.00								
E5563987	ASD009	209.76	210.50	0.74								
E5563988	ASD009	210.50	211.12	0.62								
E5563989	ASD009	211.12	211.50	0.38								
E5563990	ASD009	211.50	212.30	0.80								
E5563991	ASD009			0.00	Blank							
E5563992	ASD009	212.30	213.00	0.70								
E5563993	ASD009	213.00	214.00	1.00								
E5563994	ASD009	214.00	214.74	0.74								
E5563995	ASD009	214.74	215.70	0.96								
E5563996	ASD009				Standard	Oreas 149						
E5563997	ASD009	215.70	216.30	0.60								
E5563998	ASD009	216.30	217.00	0.70								
E5563999	ASD009	217.00	218.00	1.00								
E5564000	ASD009	217.00	218.00	1.00	FD	E5563999						
E5564001	ASD009	218.00	219.00	1.00								
E5564002	ASD009	219.00	220.00	1.00								
E5564003	ASD009	220.00	221.00	1.00								
E5564004	ASD009	221.00	222.00	1.00								
E5564005	ASD009	222.00	223.00	1.00								
E5564006	ASD009	223.00	224.00	1.00								
E5564007	ASD009	224.00	225.00	1.00								
E5564008	ASD009	225.00	226.00	1.00								
E5564009	ASD009	226.00	227.00	1.00								
E5564010	ASD009	227.00	228.00	1.00								
E5564011	ASD009			0.00	Blank							
E5564012	ASD009	229.00	230.00	1.00								
E5564013	ASD009	230.00	231.00	1.00								
E5564014	ASD009	231.00	232.00	1.00								
E5564015	ASD009	232.00	232.60	0.60								
E5564016	ASD009	232.60	233.28	0.68								
E5564017	ASD009	233.28	234.20	0.92								
E5564018	ASD009	234.20	235.20	1.00								
E5564019	ASD009			0.00	Standard	Oreas 147						
E5564020	ASD009	235.20	236.22	1.02								
E5564021	ASD009	236.22	237.50	1.28								
E5564022	ASD009	237.50	239.00	1.50								
E5564023	ASD009	239.00	240.50	1.50								
E5564024	ASD009	240.50	242.00	1.50								
E5564025	ASD009	242.00	243.50	1.50								
E5564026	ASD009	243.50	245.00	1.50								
E5564027	ASD009	245.00	246.50	1.50								
E5564028	ASD009	228	229.00	1.00								
E5561566	ASD009	187.43	188.00	0.57								
E5561567	ASD009	188.00	188.65	0.65								

for Au assay
for Au assay

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonates	MT	Muscovite	BT	Bitrite	MA	Massive	R	Weak	FEF	Fe-ferrite, equigranular, fine-grained (1-20mm), "apitic" (sugary)	DR	Dark	DR	Banded	W	Weak
CC			Loos. Calc.	APT	Apatite	CB	Carbonate	PC	Partly	M	Medium	FSM	Feldspar, equigranular, medium-grained (2-5mm), "microcrystic"	CS	Light	DR	Banded	M	Medium
S			Sedimentary (including chemical sands)	KSP	Kaolinite	CH	Chlorite	PN	Perseverance	S	Strong	PGC	Pyroclastic, coarse to "glass" granular but not distinctly porphyritic	BU	Black	BU	Boudinaged	S	Strong
U			Undifferentiated (not for apitic/sulfur)	MT	Muscovite	EP	Epidote	SB	Substituted	W	Weak	DFP	Dolomite, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
S			Sediments (undifferentiated)	MT	Muscovite	FE	Feldspar	HS	Hyaline	V	Variable	PGC	Pyroclastic, glass phenocrysts in coarse-grained matrix	BU	Blue	BU	Brecciated	W	Weak
H			Shale (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	DC	Decreasing	PAG	Pyroclastic, alternating bands (<125cm) of apitic and coarse-grained rock	BR	Brown	BR	Autobreccia	DC	Decreasing
B			Bands	MT	Muscovite	CB	Carbonate	QCC	Quartz-carbonate	W	Weak	AMS	Amphibole	GR	Green	BR	Hydrothermal breccia	INC	Increasing
S			Sulphide (primary parite)	ST	Staurolite	SR	Sericite	EST	Eastmanite	SR	Strong	BD	Banded	GR	Green	BR	Tectonic breccia	INC	Increasing
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sillite	SR	Sericite	BD	Banded	IB	Interbedded	GR	Green	BR	Chlorite	INC	Increasing
C			Chert (rich in magnetite)	CP	Chalcopyrite	TRC	Tricarbonate	CP	Chalcopyrite	TRC	Tricarbonate	BD	Banded	GR	Green	BR	Contact lithological	INC	Increasing
T			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
M			<1% magnetite or sulphides	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
S			Sulphide (secondary parite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
B			Banded Iron Formation (10-15% magnetite or secondary sulphides)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
S			Sulphides, magnetite only	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
S			Sulphide (primary parite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
Sulfide																			
P			Feldspar porphyry	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
V			Volcanics undifferentiated	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
K			Kaolinite	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
A			Asphalt	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
RD			Rhyolite	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Tuff undifferentiated	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			(glimbra)/Flow Tuff (Flamme)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Asphalt Tuff (2-2mm)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Capill. Ash Tuff (2-4mm)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Agglomerate Tuff (2-4mm)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Agglomerate Tuff (4-6mm)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Hyaloclastite (Volcanic Breccia)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Flow (Hyoclast)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Flow (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Epitaxial (neworked)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Intrusive	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Dacite	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Dacite (Fragilose rich)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
			Trachyte (Asphalt Feldspar rich)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
Sulfide																			
P			Mafic Porphyry (Mg, Ni, Fe, chromocyclic)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
V			Volcanics undifferentiated	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
K			Kaolinite	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
A			Asphalt	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
F			Flow (Basalt)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
B			Bands	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
S			Sulphide (secondary parite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
EP			Epitaxial (neworked)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)	EP	Epidote	EP	Epidote	EP	Epidote	EP	Epidote	BD	Banded	GR	Green	BR	Chlorite	INC	Increasing
D			Dacite (Andesite)																

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD010	Datum/Proj:	NAD83 Zone 16
Start Date:	26 August	UTM North:	5585404.95 m
End Date:	30 August	UTM East:	397163.59 m
EOH Depth:	264	Elevation:	389 m
		Dip:	-70 at setup
		Az:	206 at setup
		Collar Survey Method:	<i>IsXBlue</i>
		Surveyed by:	<i>KKP</i>
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	264	BTW	
Drill comments (issues, casing, gear in hole): 3m casing plus a shoe left in the hole			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD010	0	-72.2	194.57		195.7	195.67		APS	Dip Inferred.
ASD010	12	-72.0		200.0	196.1	196.05	5738.00	Reflex	
ASD010	30	-71.8		200.7	196.8	196.8	5662.00	Reflex	
ASD010	55	-71.9		200.9	197.0	197.0	5716.00	Reflex	
ASD010	85	-71.6		202.2	198.3	198.3	5710.00	Reflex	
ASD010	115	-71.6		200.9	197.0	198.5	5689.00	Reflex	
ASD010	145	-70.9		205.6	201.7	199.0	5857.00	Reflex	
ASD010	175	-70.1		203.5	199.6	199.6	5697.00	Reflex	
ASD010	205	-69.9		204.5	200.6	200.6	5691.00	Reflex	
ASD010	235	-69.7		205.8	201.9	201.9	5728.00	Reflex	
ASD010	264	-69.4		201.9	198.0	202.0	5714.00	Reflex	



GEOLOGICAL CORE LOG

Date Logged:		EDH called by:														EDH Reason:						
Geologist: A.R																						
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
AS0010	0.00	2.40				cb																
AS0010	2.40	65.75				Xqbs	fd							ch	prv	w		2				
AS0010	65.75	66.00				FIGPM		mc	apt													
AS0010	66.00	66.94				Xqbs	fd							ch	prv	w						
AS0010	66.94	67.80				FIGPM		mc	ms													
AS0010	67.80	68.58				FIGPp		mc	sp	ms		15	25									
AS0010	68.58	69.00				FIGPM		mc	ms	qtz												
AS0010	69.00	82.15				Xqbs	fd							ch	prv	w						
AS0010	82.15	82.44				FIGPM		mc	ms	apt												
AS0010	82.44	90.64				Xqbs	fd							ch	prv	w						
AS0010	90.64	91.02				FIGPM		mc	ms	apt												
AS0010	91.02	181.45				Xqbs	fd							ch	prv	w						
AS0010	181.45	212.10				MXF	fd							ch	prv	w						
AS0010	212.10	212.54				FIGPM		mc	ms	qtz												
AS0010	212.54	213.60				FIGPqz		qtz	ms	mc												
AS0010	213.60	214.09				FIGPM		mc	qtz													
AS0010	214.09	234.33				FIGPp		mc	qtz	sp	ms	30	10									
AS0010	234.33	236.08				FIGPM		mc	qtz	ms												
AS0010	236.08	264				MXF	fd							ch	prv	w						

ASD010					
ASD010					
ASD010					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD010	3	6	3.00	3.07	102.33	2.87	93.49	5
ASD010	6	9	3.00	2.96	98.67	2.96	100.00	2
ASD010	9	12	3.00	2.98	99.33	2.97	99.66	2
ASD010	12	15	3.00	2.98	99.33	2.78	93.29	6
ASD010	15	18	3.00	3.02	100.67	3.02	100.00	0
ASD010	18	21	3.00	2.98	99.33	2.98	100.00	2
ASD010	21	24	3.00	3.00	100.00	2.85	95.00	5
ASD010	24	27	3.00	2.98	99.33	2.98	100.00	3
ASD010	27	30	3.00	2.92	97.33	2.65	90.75	5
ASD010	30	33	3.00	2.98	99.33	2.26	75.84	12
ASD010	33	36	3.00	2.98	99.33	2.98	100.00	2
ASD010	36	39	3.00	3.05	101.67	2.68	87.87	6
ASD010	39	42	3.00	3.06	102.00	3.04	99.35	1
ASD010	42	45	3.00	2.96	98.67	2.96	100.00	0
ASD010	45	48	3.00	2.97	99.00	2.97	100.00	0
ASD010	48	51	3.00	3.01	100.33	3.01	100.00	0
ASD010	51	54	3.00	3.03	101.00	3.03	100.00	2
ASD010	54	57	3.00	3.04	101.33	3.04	100.00	0
ASD010	57	60	3.00	3.06	102.00	3.06	100.00	0
ASD010	60	63	3.00	2.94	98.00	2.94	100.00	1
ASD010	63	66	3.00	3.02	100.67	3.02	100.00	0
ASD010	66	69	3.00	2.90	96.67	2.65	91.38	8
ASD010	69	72	3.00	3.00	100.00	3.00	100.00	9
ASD010	72	75	3.00	3.00	100.00	3.00	100.00	2
ASD010	75	78	3.00	3.03	101.00	3.03	100.00	0
ASD010	78	81	3.00	2.99	99.67	2.74	91.64	5
ASD010	81	84	3.00	3.05	101.67	3.05	100.00	0
ASD010	84	87	3.00	3.00	100.00	3.00	100.00	0
ASD010	87	90	3.00	2.99	99.67	2.99	100.00	0
ASD010	90	93	3.00	3.00	100.00	3.00	100.00	0
ASD010	93	96	3.00	2.98	99.33	2.98	100.00	0
ASD010	96	99	3.00	3.00	100.00	3.00	100.00	2
ASD010	99	102	3.00	3.01	100.33	3.01	100.00	0
ASD010	102	105	3.00	3.01	100.33	3.01	100.00	0
ASD010	105	108	3.00	3.03	101.00	3.03	100.00	1
ASD010	108	111	3.00	3.00	100.00	3.00	100.00	1
ASD010	111	114	3.00	3.00	100.00	3.00	100.00	0
ASD010	114	117	3.00	3.01	100.33	3.01	100.00	0
ASD010	117	120	3.00	2.93	97.67	2.93	100.00	0
ASD010	120	123	3.00	2.98	99.33	2.98	100.00	1
ASD010	123	126	3.00	3.03	101.00	3.03	100.00	0
ASD010	126	129	3.00	3.05	101.67	2.98	97.70	2
ASD010	129	132	3.00	2.95	98.33	2.95	100.00	3
ASD010	132	135	3.00	3.00	100.00	3.00	100.00	1

ASD010	135	138	3.00	3.00	100.00	3.00	100.00	1
ASD010	138	141	3.00	3.05	101.67	3.05	100.00	1
ASD010	141	144	3.00	3.05	101.67	3.05	100.00	0
ASD010	144	147	3.00	2.99	99.67	2.99	100.00	0
ASD010	147	150	3.00	3.05	101.67	3.05	100.00	0
ASD010	150	153	3.00	3.05	101.67	3.05	100.00	1
ASD010	153	156	3.00	2.97	99.00	2.97	100.00	0
ASD010	156	159	3.00	3.03	101.00	3.03	100.00	0
ASD010	159	162	3.00	3.02	100.67	3.02	100.00	0
ASD010	162	165	3.00	2.99	99.67	2.99	100.00	0
ASD010	165	168	3.00	2.98	99.33	2.98	100.00	0
ASD010	168	171	3.00	2.99	99.67	2.99	100.00	0
ASD010	171	174	3.00	3.05	101.67	3.05	100.00	1
ASD010	174	177	3.00	3.03	101.00	3.03	100.00	2
ASD010	177	180	3.00	3.04	101.33	3.04	100.00	0
ASD010	180	183	3.00	2.99	99.67	2.99	100.00	1
ASD010	183	186	3.00	2.97	99.00	2.92	98.32	5
ASD010	186	189	3.00	3	100.00	3	100.00	0
ASD010	189	192	3.00	2.98	99.33	2.98	100.00	0
ASD010	192	195	3.00	3	100.00	3	100.00	0
ASD010	195	198	3.00	3.02	100.67	3.02	100.00	2
ASD010	198	201	3.00	2.98	99.33	2.98	100.00	0
ASD010	201	204	3.00	3.07	102.33	3.07	100.00	0
ASD010	204	207	3.00	3.01	100.33	3.01	100.00	0
ASD010	207	210	3.00	2.96	98.67	2.96	100.00	2
ASD010	210	213	3.00	2.8	93.33	2.15	76.79	20
ASD010	213	216	3.00	2.88	96.00	1.66	57.64	15
ASD010	216	219	3.00	3.05	101.67	2.43	79.67	10
ASD010	219	222	3.00	3.04	101.33	2	65.79	10
ASD010	222	225	3.00	3.06	102.00	2.69	87.91	8
ASD010	225	228	3.00	3	100.00	2.96	98.67	4
ASD010	228	231	3.00	3.02	100.67	2.82	93.38	5
ASD010	231	234	3.00	3.03	101.00	2.95	97.36	5
ASD010	234	237	3.00	3.02	100.67	2.91	96.36	8
ASD010	237	240	3.00	3.05	101.67	3.05	100.00	1
ASD010	240	243	3.00	2.89	96.33	2.89	100.00	3
ASD010	243	246	3.00	3.03	101.00	2.92	96.37	2
ASD010	246	249	3.00	3.03	101.00	3.03	100.00	2
ASD010	249	252	3.00	2.98	99.33	2.98	100.00	2
ASD010	252	255	3.00	3.01	100.33	3.01	100.00	0
ASD010	255	258	3.00	3.04	101.33	3.04	100.00	0
ASD010	258	261	3.00	2.94	98.00	2.94	100.00	3
ASD010	261	264	3.00	2.98	99.33	2.98	100.00	2

ARDIDEN LIMITED

Hole No.	ASD010					Date:				
Geologist: AJR					Core Box Intervals					
Box #	From	To	Box #	From	To	Box #	From	To		
1	2.4	5.7	45	189.5	193.89	89				
2	5.7	10.0	46	193.89	198.22	90				
3	10.0	14.2	47	198.22	202.65	91				
4	14.2	18.5	48	202.65	206.9	92				
5	18.5	22.8	49	206.9	211.23	93				
6	22.8	26.8	50	211.23	215.3	94				
7	26.8	31.0	51	215.3	219.3	95				
8	31.0	35.3	52	219.3	223.51	96				
9	35.3	39.6	53	223.51	227.82	97				
10	39.6	44.0	54	227.82	232	98				
11	44.0	48.4	55	232	236.39	99				
12	48.4	52.6	56	236.39	240.64	100				
13	52.6	57.0	57	240.64	245.05	101				
14	57.0	61.2	58	245.05	249.25	102				
15	61.2	65.6	59	249.25	253.63	103				
16	65.6	69.6	60	253.63	257.9	104				
17	69.6	74.0	61	257.9	261.83	105				
18	74.0	78.2	62	261.83	264	106				
19	78.2	82.4				107				
20	82.4	86.7				108				
21	86.7	91.0				109				
22	91.0	95.28				110				
23	95.3	99.5				111				
24	99.5	103.85				112				
25	103.9	108				113				
26	108.0	112.3				114				
27	112.3	116.65				115				
28	116.7	121				116				
29	121.0	125.33				117				
30	125.3	129.55				118				
31	129.6	133.95	75			119				
32	134.0	138.28	76			120				
33	138.3	142.35	77			121				
34	142.4	146.62	78			122				
35	146.6	150.87	79			123				
36	150.9	155.18	80			124				
37	155.2	159.55	81			125				
38	159.6	163.88	82			126				
39	163.9	168.18	83			127				
40	168.2	172.42	84			128				
41	172.4	176.72	85			129				
42	176.7	180.93	86			130				
43	180.9	185.28	87			131				
44	185.3	189.5	88			132				

SAMPLE & SPECIFIC GRAVITY LOGS													
Hole ID:	ASD010	Sampled by:				DATE:							
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG	
E5564029	ASD010	63.75	64.75	1.00									
E5564030	ASD010	64.75	65.75	1.00									
E5564031	ASD010			0.00	Blank								
E5564032	ASD010	65.75	66.00	0.25									
E5564033	ASD010	66.00	66.94	0.94									
E5564034	ASD010	66.94	67.80	0.86									
E5564035	ASD010	67.80	68.58	0.78									
E5564036	ASD010				Standard	Oreas 149							
E5564037	ASD010	68.58	69.00	0.42									
E5564038	ASD010	69.00	70.00	1.00									
E5564039	ASD010	70.00	71.00	1.00									
E5564040	ASD010	70.00	71.00	1.00	FD	E5564039							
E5564041	ASD010	80.15	81.15	1.00									
E5564042	ASD010	81.15	82.15	1.00									
E5564043	ASD010	82.15	82.44	0.29									
E5564044	ASD010	82.44	83.44	1.00									
E5564045	ASD010	83.44	84.44	1.00									
E5564046	ASD010	88.67	89.67	1.00									
E5564047	ASD010	89.67	90.67	1.00									
E5564048	ASD010	90.67	91.02	0.35									
E5564049	ASD010	91.02	92.00	0.98									
E5564050	ASD010	92.00	93.00	1.00									
E5564051	ASD010				Blank								
E5564052	ASD010	202.00	203.50	1.50									
E5564053	ASD010	203.50	205.00	1.50									
E5564054	ASD010	205.00	206.50	1.50									
E5564055	ASD010	206.50	208.00	1.50									
E5564056	ASD010	208.00	209.50	1.50									
E5564057	ASD010	209.50	211.00	1.50									
E5564058	ASD010	211.00	212.10	1.10									
E5564059	ASD010				Standard	Oreas 147							
E5564060	ASD010	212.10	212.54	0.44									
E5564061	ASD010	212.54	213.60	1.06									
E5564062	ASD010	213.60	214.09	0.49									
E5564063	ASD010	214.09	214.75	0.66									
E5564064	ASD010	214.75	215.30	0.55									
E5564065	ASD010	215.30	215.87	0.57									
E5564066	ASD010	215.87	216.45	0.58									
E5564067	ASD010	216.45	217.00	0.55									
E5564068	ASD010	217.00	218.00	1.00									
E5564069	ASD010	218.00	219.00	1.00									
E5564070	ASD010	219.00	220.00	1.00									
E5564071	ASD010				Blank								
E5564072	ASD010	220.00	221.00	1.00									
E5564073	ASD010	221.00	222.00	1.00									
E5564074	ASD010	222.00	223.00	1.00									
E5564075	ASD010	223.00	224.00	1.00									
E5564076	ASD010				Standard	Oreas 149							
E5564077	ASD010	224.00	225.00	1.00									
E5564078	ASD010	225.00	226.00	1.00									
E5564079	ASD010	226.00	227.00	1.00									
E5564080	ASD010	226.00	227.00	1.00	FD	E5564079							
E5564081	ASD010	227.00	228.00	1.00									
E5564082	ASD010	228.00	229.00	1.00									
E5564083	ASD010	229.00	230.00	1.00									
E5564084	ASD010	230.00	231.00	1.00									
E5564085	ASD010	231.00	232.00	1.00									
E5564086	ASD010	232.00	233.00	1.00									
E5564087	ASD010	233.00	233.70	0.70									
E5564088	ASD010	233.70	234.33	0.63									
E5564089	ASD010	234.33	235.00	0.67									
E5564090	ASD010	235.00	236.08	1.08									
E5564091	ASD010				Blank								
E5564092	ASD010	236.08	237.50	1.42									
E5564093	ASD010	237.50	239.00	1.50									
E5564094	ASD010	239.00	240.50	1.50									
E5564095	ASD010	240.50	242.00	1.50									
E5564096	ASD010	242.00	243.50	1.50									
E5564097	ASD010	243.50	245.00	1.50									
E5564098	ASD010	245.00	246.00	1.00									

E5564099	ASD010				Standard	Oreas 147						
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Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
DR			Dioritoid	AM	Albite	BT	Biotite	MA	Massive	R	Weak	PEP	Plagioclase, equigranular, fine-grained (1-20mm), "aplitic" texture	DR	Dark	DR	Banded	W	Weak
LC			Loft Cove	APT	Apatite	CB	Calcite	PC	Patchy	M	Medium	PEM	Plagioclase, equigranular, medium-grained (2-5mm), "microplitic"	CS	Light	DR	Banded	M	Medium
S			Subvolcanic (including chemical sands)	KSP	Kalsopyrite	Ch	Chlorite	PN	Perseverance	S	Strong	PGC	Plagioclase, coarse to "glass" granoblastic but not distinctly porphyritic	BU	Black	BU	Boudinaged	S	Strong
U			Undifferentiated host for epithermal tuffs	AT	Actinolite	EP	Epithermal	SD	Solvent	W	Weak	PPF	Plagioclase, distinct phenocrysts in fine-grained matrix	BU	Black	BU	Brown	W	Weak
S			Sandstone (undifferentiated)	ALU	Albite	FE	Ferrous feldspar	HS	Host	V	Variable	PGC	Plagioclase, glass phenocrysts in coarse-grained matrix	BU	Blue	BU	Brecciated	V	Variable
H			Shale (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	Dec	Decreasing	PAB	Plagioclase, alternating bands (1-25cm) of aplitic and coarse-grained rock	BRN	Brown	BRN	Autobreccia	Dec	Decreasing
B			Belt	BE	Biotite	HM	Hornblende	IR	Irregular	Inc	Increasing	AMS	Amphibolite	GRN	Green	BRN	Hydrothermal breccia	Inc	Increasing
B			Belt	CB	Carbonate	QCC	Quartz-carbonate	IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
S			Sulphide (primary parite)	EST	Eastmanite	SR	Sericite	IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
G			Ganglomerate (undifferentiated)	CH	Chlorite	SL	Sill	IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
C			Chert (10% magnetite banding)	CP	Chalcopyrite	TRC	Tricarbonate	IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
T			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite	IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
M			<1% magnetite or sulphides	EP	Epithermal			IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
S			Sulphide (secondary parite)	FR	Ferrosulphite			IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	GR	Garnet			IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
B			Banded Iron Formation (10-15% magnetite or secondary sulphides)	GT	Garnet			IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
S			Sulphide (magnetite only)	HM	Hornblende			IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
S			Sulphide (primary parite)	HM	Hornblende			IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	HM	Hornblende			IR	Irregular	Inc	Increasing	BD	Banded	GRY	Grey	BRN	Tectonic breccia	Inc	Increasing
HA			Hydrothermal																
P			Feldspar porphyry	IP	Isopropylite														
V			Volcanics undifferentiated	MM	Manganiferous														
K			Kalsopyrite	AM	Albite														
B			Basaltic	MS	Muscovite														
RD			Rhyolitic	MT	Magnetite														
			Tuff undifferentiated	NS	Nesquehite														
			(glimbra)/Flow Tuff (Flamme)	PE	Prehnite														
			Asphalt Tuff (2-2mm)	PH	Phlogopite														
			Capill-Asp Tuff (2-4mm)	PL	Plagioclase														
			Agglomerate Tuff (2-4mm)	PO	Pyrophyllite														
			Hyaloclastite (Volcanic Breccia)	PK	Pyroxene														
			Flow (Hyvolite)	PP	Pyrite														
			Epithermal (newwork)	QZ	Quartz														
			Intrusive	TC	Talc														
			Duquenois	TAN	Tantalite														
			Undifferentiated	TM	Tourmaline														
			Granodiorite (plagioclase rich)	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Andesite flow (glassy 1-2mm)	TR	Tremolite														
			Tonalite (quartz rich >20%)	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with sulphide stringers/quartz veining	TR	Tremolite														
			Gneiss-Granitic	TR	Tremolite														
			Granodiorite with																

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD011		
Start Date:	30 August		
End Date:	6 sept		
EOH Depth:	330		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585405.35	m
	UTM East:	397163.83	m
	Elevation:	390.1	m
	Dip:	-85	at setup
	Az:	206	at setup
	Collar Survey Method:		
	Surveyed by:		
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	330	BTW	
Drill comments (issues, casing, gear in hole): 3m casing plus a shoe left in hole			
Geology comments:			

GEOLOGICAL CORE LOG

Date Logged:		EDH called by:														EDH Reason:						
Geologist: Adam Richardson																						
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
ASD011	0.00	2.35				ob																
ASD011	2.35	61.25				Xqbs	fd							ch	prv	w	vnc	1				
ASD011	61.25	62.30				FIGPM		mc	qt	ms												
ASD011	62.30	86.70				Xqbs	fd							ch	prv	w	vnc	1				
ASD011	86.70	88.92				FIGPM		mc	qt	ms												
ASD011	88.92	88.95				Xqbs	fd							ch	prv	w	vnc	1				
ASD011	88.95	87.62				FIGPqz		qt	mc	ms												
ASD011	87.62	199.68				Xqbs	fd							ch	prv	w	vnc	1				
ASD011	199.68	202.52				FIGPqz		qt	mc	ms												
ASD011	202.52	203.28				FIGPM		mc	qt	ms												
ASD011	203.28	224.92				Xqbs								ch	prv	w	vnc	1				
ASD011	224.92	227.24				FIGPsp		mc	qt	sp	ms	15	25									
ASD011	227.24	227.87				FIGPqz		qt	ms	mc												
ASD011	227.87	233.10				FIGPsp		qt	sp	mc	ms	20	10									
ASD011	233.10	233.57				FIGPM		mc	qt	sp												
ASD011	233.57	240.15				FIGPsp		mc	sp	qt	ms	30	10									
ASD011	240.15	241.65				FIGPM		mc	ms	qt	sp											
ASD011	241.65	261.42				FIGPsp		mc	sp	qt	ms	20	10									
ASD011	261.42	262.53				FIGPM		mc	qt	ms												
ASD011	262.53	330				Xqbs								ch	prv	w	vnc	2				

ASD011					
ASD011					
ASD011					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD011	3	6	3.00	2.97	99.00	2.92	98.32	2
ASD011	6	9	3.00	2.99	1.00	2.99	100.00	1
ASD011	9	12	3.00	2.92	0.97	2.92	100.00	1
ASD011	12	15	3.00	2.98	0.99	2.74	91.95	5
ASD011	15	18	3.00	3.01	1.00	2.87	95.35	4
ASD011	18	21	3.00	2.96	0.99	2.96	100.00	1
ASD011	21	24	3.00	3.04	1.01	3.04	100.00	1
ASD011	24	27	3.00	3.02	1.01	2.97	98.34	3
ASD011	27	30	3.00	3.00	1.00	2.86	95.33	4
ASD011	30	33	3.00	3.00	1.00	3.00	100.00	3
ASD011	33	36	3.00	2.99	1.00	2.99	100.00	0
ASD011	36	39	3.00	3.02	1.01	2.92	96.69	2
ASD011	39	42	3.00	2.94	0.98	2.92	99.32	1
ASD011	42	45	3.00	2.99	1.00	2.99	100.00	1
ASD011	45	48	3.00	3.05	1.02	3.05	100.00	0
ASD011	48	51	3.00	3.00	1.00	3.00	100.00	0
ASD011	51	54	3.00	2.97	0.99	2.97	100.00	1
ASD011	54	57	3.00	2.98	0.99	2.93	98.32	3
ASD011	57	60	3.00	2.97	0.99	2.97	100.00	1
ASD011	60	63	3.00	3.03	1.01	2.98	98.35	4
ASD011	63	66	3.00	3.03	1.01	2.99	98.68	3
ASD011	66	69	3.00	3.05	1.02	2.88	94.43	1
ASD011	69	72	3.00	2.88	0.96	2.88	100.00	0
ASD011	72	75	3.00	3.05	1.02	3.05	100.00	1
ASD011	75	78	3.00	2.98	0.99	2.98	100.00	0
ASD011	78	81	3.00	3.03	1.01	3.03	100.00	1
ASD011	81	84	3.00	3.03	1.01	3.03	100.00	1
ASD011	84	87	3.00	3.04	1.01	3.04	100.00	1
ASD011	87	90	3.00	3.02	1.01	3.02	100.00	1
ASD011	90	93	3.00	3.03	1.01	3.03	100.00	0
ASD011	93	96	3.00	3.00	1.00	3.00	100.00	0
ASD011	96	99	3.00	2.90	0.97	2.75	94.83	4
ASD011	99	102	3.00	3.04	1.01	2.87	94.41	4
ASD011	102	105	3.00	3.09	1.03	3.00	97.09	3
ASD011	105	108	3.00	3.05	1.02	3.01	98.69	2
ASD011	108	111	3.00	3.06	1.02	3.06	100.00	2
ASD011	111	114	3.00	2.96	0.99	2.82	95.27	3
ASD011	114	117	3.00	3.12	1.04	2.66	85.26	6
ASD011	117	120	3.00	3.04	1.01	2.96	97.37	3
ASD011	120	123	3.00	3.05	1.02	2.96	97.05	2
ASD011	123	126	3.00	3.03	1.01	2.97	98.02	4
ASD011	126	129	3.00	3.04	1.01	3.04	100.00	1
ASD011	129	132	3.00	3.02	1.01	2.88	95.36	3
ASD011	132	135	3.00	2.98	0.99	2.98	100.00	1

ASD011	135	138	3.00	3.01	1.00	3.01	100.00	0
ASD011	138	141	3.00	3.03	1.01	2.88	95.05	6
ASD011	141	144	3.00	2.97	0.99	2.97	100.00	1
ASD011	144	147	3.00	2.98	0.99	2.98	100.00	3
ASD011	147	150	3.00	3.01	1.00	3.01	100.00	1
ASD011	150	153	3.00	3.04	1.01	2.95	97.04	7
ASD011	153	156	3.00	3.06	1.02	3.01	98.37	2
ASD011	156	159	3.00	3.02	1.01	3.02	100.00	1
ASD011	159	162	3.00	2.99	1.00	2.99	100.00	1
ASD011	162	165	3.00	2.99	1.00	2.99	100.00	2
ASD011	165	168	3.00	3	1.00	3	100.00	4
ASD011	168	171	3.00	3.03	1.01	3.03	100.00	0
ASD011	171	174	3.00	3	1.00	3	100.00	0
ASD011	174	177	3.00	2.96	0.99	2.96	100.00	4
ASD011	177	180	3.00	3.06	1.02	3.06	100.00	3
ASD011	180	183	3.00	3.02	1.01	3.02	100.00	3
ASD011	183	186	3.00	3.01	1.00	3.01	100.00	2
ASD011	186	189	3.00	2.99	1.00	2.99	100.00	1
ASD011	189	192	3.00	3.04	1.01	3.04	100.00	0
ASD011	192	195	3.00	3	1.00	3	100.00	0
ASD011	195	198	3.00	3.05	1.02	3.05	100.00	1
ASD011	198	201	3.00	2.96	0.99	2.84	95.95	8
ASD011	201	204	3.00	3.06	1.02	3.06	100.00	1
ASD011	204	207	3.00	2.95	0.98	2.95	100.00	0
ASD011	207	210	3.00	2.98	0.99	2.98	100.00	0
ASD011	210	213	3.00	3.05	1.02	3.05	100.00	0
ASD011	213	216	3.00	3	1.00	2.92	97.33	3
ASD011	216	219	3.00	3	1.00	3	100.00	0
ASD011	219	222	3.00	3.01	1.00	3.01	100.00	3
ASD011	222	225	3.00	3.01	1.00	2.34	77.74	7
ASD011	225	228	3.00	3.04	1.01	2.8	92.11	7
ASD011	228	231	3.00	3.04	1.01	2.5	82.24	9
ASD011	231	234	3.00	2.86	0.95	1.8	62.94	12
ASD011	234	237	3.00	3.02	1.01	3.01	99.67	4
ASD011	237	240	3.00	2.93	0.98	2.8	95.56	4
ASD011	240	243	3.00	3.05	1.02	2.79	91.48	7
ASD011	243	246	3.00	3.06	1.02	3.06	100.00	2
ASD011	246	249	3.00	3.1	1.03	2.93	94.52	4
ASD011	249	252	3.00	3.03	1.01	2.89	95.38	4
ASD011	252	255	3.00	2.99	1.00	2.95	98.66	1
ASD011	255	258	3.00	3.09	1.03	2.93	94.82	2
ASD011	258	261	3.00	3.01	1.00	3.01	100.00	1
ASD011	261	264	3.00	3.04	1.01	2.22	73.03	8
ASD011	264	267	3.00	3.05	1.02	2.98	97.70	2
ASD011	267	270	3.00	2.97	0.99	2.97	100.00	1
ASD011	270	273	3.00	2.94	0.98	2.94	100.00	1
ASD011	273	276	3.00	3.05	1.02	3.05	100.00	0
ASD011	276	279	3.00	2.99	1.00	2.99	100.00	0
ASD011	279	282	3.00	3.03	1.01	3.03	100.00	0
ASD011	282	285	3.00	3.02	1.01	3.02	100.00	1
ASD011	285	288	3.00	2.98	0.99	2.98	100.00	1
ASD011	288	291	3.00	3	1.00	3	100.00	1
ASD011	291	294	3.00	3.03	1.01	3.03	100.00	0
ASD011	294	297	3.00	3.02	1.01	3.02	100.00	2
ASD011	297	300	3.00	2.96	0.99	2.96	100.00	0
ASD011	300	303	3.00	3	1.00	3	100.00	4

ASD011	303	306	3.00	3.12	1.04	3.12	100.00	1
ASD011	306	309	3.00	2.94	0.98	2.94	100.00	0
ASD011	309	312	3.00	3.02	1.01	3.02	100.00	3
ASD011	312	315	3.00	3.03	1.01	3.03	100.00	1
ASD011	315	318	3.00	3.01	1.00	3.01	100.00	2
ASD011	318	321	3.00	2.97	0.99	2.72	91.58	4
ASD011	321	324	3.00	3.05	1.02	3.05	100.00	0
ASD011	324	327	3.00	2.97	0.99	2.87	96.63	1
ASD011	327	330	3.00	2.9	0.97	2.9	100.00	2

ARDIDEN LIMITED

Hole No.	ASD011					Date:				
Geologist: AJR					Core Box Intervals					
Box #	From	To	Box #	From	To	Box #	From	To		
1	2.4	6.3	45	190.83	195	89	0			
2	6.3	10.6	46	195	199.31	90	0			
3	10.6	14.9	47	199.31	203.41	91	0			
4	14.9	19.2	48	203.41	207.67	92	0			
5	19.2	23.5	49	207.67	211.96	93	0			
6	23.5	27.6	50	211.96	216.26	94	0			
7	27.6	31.8	51	216.26	220.58	95	0			
8	31.8	36.0	52	220.58	224.9	96	0			
9	36.0	40.2	53	224.9	229	97	0			
10	40.2	44.6	54	229	233.28	98	0			
11	44.6	48.9	55	233.28	237.43	99	0			
12	48.9	53.2	56	237.43	241.93	100	0			
13	53.2	57.4	57	241.93	246.15	101	0			
14	57.4	61.7	58	246.15	250.47	102	0			
15	61.7	65.9	59	250.47	254.83	103	0			
16	65.9	70.1	60	254.83	259.13	104	0			
17	70.1	74.6	61	259.13	263.44	105	0			
18	74.6	79.0	62	263.44	267.82	106	0			
19	79.0	83.3	63	267.82	272.16	107	0			
20	83.3	87.5	64	272.16	276.53	108	0			
21	87.5	91.9	65	276.53	280.9	109	0			
22	91.9	96.2	66	280.9	285.22	110	0			
23	96.2	100.45	67	285.22	289.48	111	0			
24	100.5	104.66	68	289.48	293.84	112	0			
25	104.7	109.11	69	293.84	298.18	113	0			
26	109.1	113.46	70	298.18	302.53	114	0			
27	113.5	117.56	71	302.53	306.7	115	0			
28	117.6	121.9	72	306.7	310.95	116	0			
29	121.9	126.19	73	310.95	315.2	117	0			
30	126.2	130.49	74	315.2	319.47	118	0			
31	130.5	134.9	75	319.47	323.78	119	0			
32	134.9	139.3	76	323.78	328.2	120	0			
33	139.3	143.63	77	328.2	330	121	0			
34	143.6	147.93				122	0			
35	147.9	152.21				123	0			
36	152.2	156.47				124	0			
37	156.5	160.69				125	0			
38	160.7	165				126	0			
39	165.0	169.36				127	0			
40	169.4	173.7	84	0		128	0			
41	173.7	178.05	85	0		129	0			
42	178.1	182.28	86	0		130	0			
43	182.3	186.49	87	0		131	0			
44	186.5	190.83	88	0		132	0			

SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD011	Sampled by:			DATE:							
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5564100	ASD011	59.00	60.00	1.00								
E5564101	ASD011	60.00	61.25	1.25								
E5564102	ASD011	61.25	62.30	1.05								
E5564103	ASD011	62.30	63.00	0.70								
E5564104	ASD011	63.00	64.50	1.50								
E5564105	ASD011	79.00	80.00	1.00								
E5564106	ASD011	80.00	80.70	0.70								
E5564107	ASD011	80.70	80.92	0.22								
E5564108	ASD011	80.92	82.50	1.58								
E5564109	ASD011	82.50	84.00	1.50								
E5564110	ASD011	84.00	85.00	1.00								
E5564111	ASD011			0.00	Blank							
E5564112	ASD011	85.00	86.05	1.05								
E5564113	ASD011	86.05	87.00	0.95								
E5564114	ASD011	87.00	87.62	0.62								
E5564115	ASD011	87.62	88.50	0.88								
E5564116	ASD011			0.00	Standard	Oreas 149						
E5564117	ASD011	88.50	89.60	1.10								
E5564118	ASD011	197.68	198.68	1.00								
E5564119	ASD011	198.68	199.68	1.00								
E5564120	ASD011	198.68	199.68	1.00	FD	E5564119						
E5564121	ASD011	199.68	200.68	1.00								
E5564122	ASD011	200.68	201.50	0.82								
E5564123	ASD011	201.50	202.52	1.02								
E5564124	ASD011	202.52	203.28	0.76								
E5564125	ASD011	203.28	204.41	1.13								
E5564126	ASD011	204.41	205.41	1.00								
E5564127	ASD011	215.00	216.50	1.50								
E5564128	ASD011	216.50	218.00	1.50								
E5564129	ASD011	218.00	219.50	1.50								
E5564130	ASD011	219.50	221.00	1.50								
E5564131	ASD011			0.00	Blank							
E5564132	ASD011	221.00	222.50	1.50								
E5564133	ASD011	222.50	224.00	1.50								
E5564134	ASD011	224.00	224.92	0.92								
E5564135	ASD011	224.92	225.90	0.98								
E5564136	ASD011	225.90	226.75	0.85								
E5564137	ASD011	226.75	227.24	0.49								
E5564138	ASD011	227.24	227.87	0.63								
E5564139	ASD011			0.00	Standard	Oreas 147						
E5564140	ASD011	227.87	228.50	0.63								
E5564141	ASD011	228.50	229.00	0.50								
E5564142	ASD011	229.00	230.00	1.00								
E5564143	ASD011	230.00	231.00	1.00								
E5564144	ASD011	231.00	232.00	1.00								
E5564145	ASD011	232.00	233.10	1.10								
E5564146	ASD011	233.10	233.57	0.47								
E5564147	ASD011	233.57	234.20	0.63								
E5564148	ASD011	234.20	235.00	0.80								
E5564149	ASD011	235.00	236.00	1.00								
E5564150	ASD011	236.00	237.00	1.00								
E5564151	ASD011			0.00	Blank							
E5564152	ASD011	237	238.00	1.00								
E5564153	ASD011	238.00	238.75	0.75								
E5564154	ASD011	238.75	239.50	0.75								
E5564155	ASD011	239.50	240.15	0.65								
E5564156	ASD011			0.00	Standard	Oreas 149						
E5564157	ASD011	240.15	241.00	0.85								
E5564158	ASD011	241.00	241.65	0.65								
E5564159	ASD011	241.65	242.35	0.70								
E5564160	ASD011	242.35	243	0.65								
E5564161	ASD011	243	244	1.00								
E5564162	ASD011	243	244	1.00	FD	E5564161						
E5564163	ASD011	244	245	1.00								
E5564164	ASD011	245	246	1.00								
E5564165	ASD011	246	247	1.00								
E5564166	ASD011	247	248	1.00								
E5564167	ASD011	248	249	1.00								
E5564168	ASD011	249	250	1.00								
E5564169	ASD011	250	251	1.00								

E5564170	ASD011	251	252	1.00								
E5564171	ASD011			0.00	Blank							
E5564172	ASD011	252	253	1.00								
E5564173	ASD011	253	254	1.00								
E5564174	ASD011	254	255	1.00								
E5564175	ASD011	255	256	1.00								
E5564176	ASD011	256	257	1.00								
E5564177	ASD011	257	258	1.00								
E5564178	ASD011	258	259	1.00								
E5564179	ASD011			0.00	Standard	Oreas 149						
E5564180	ASD011	259	260	1.00								
E5564181	ASD011	260	260.62	0.62								
E5564182	ASD011	260.62	261.42	0.80								
E5564183	ASD011	261.42	262	0.58								
E5564184	ASD011	262	262.53	0.53								
E5564185	ASD011	262.53	264	1.47								
E5564186	ASD011	264	265.5	1.50								
E5564187	ASD011	265.5	267	1.50								
E5564188	ASD011	267	268.5	1.50								
E5564189	ASD011	268.5	270	1.50								
E5564190	ASD011	270	271.5	1.50								
E5564191	ASD011			0.00	Blank							
E5564192	ASD011	271.5	273	1.50								

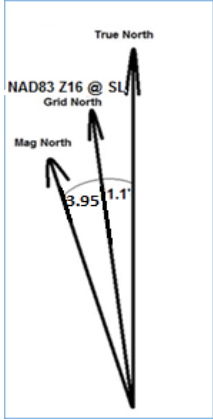
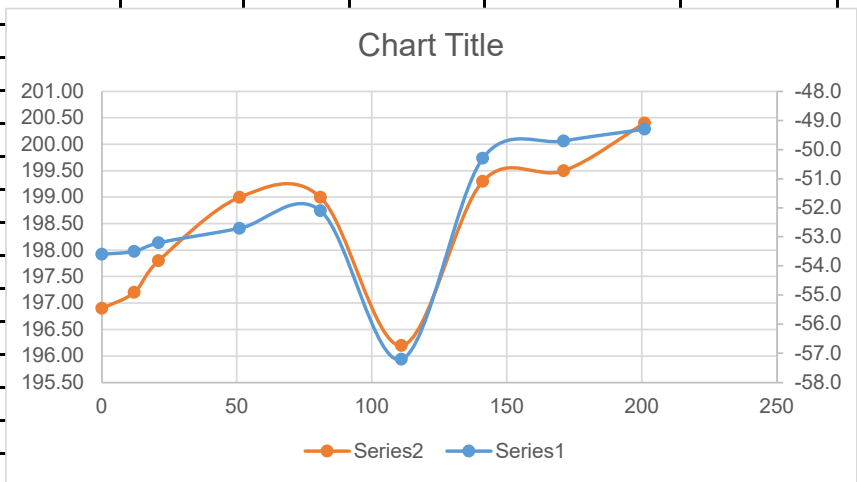
Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CH			Chert/Carbon	HT	Hornblende	BT	Biotite	MA	Massive	W	Weak	FEF	Fe-ferrite, equigranular, fine-grained (1-20mm), "aplitic" (foliated)	DR	Dark	DR	Banded	W	Weak
LC			Loose Core	APT	Apophite	CB	Carbonate	PC	Partly	M	Medium	FSM	Feldspar, equigranular, medium-grained (2-5mm), "microplitic"	CS	Light	DR	Banded	M	Medium
S			Subvolcanic (including chemical sands)	KSP	Kalsopyrite	CA	Chalcitic	PA	Perseus	S	Strong	PGC	Pyroxene, coarse to "granit" granitic but not distinctly porphyritic	BL	Black	BL	Boudinaged	S	Strong
U			Undifferentiated (not for apititic tuffs)	AT	Actinolite	EP	Epithermal	SD	Subvolcanic	W	Weak	PPF	Pyroxene, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
S			Subvolcanic (undifferentiated)	AV	Actinolite	FE	Ferrous oxide	HA	Hyaline	V	Variable	PGC	Pyroxene, glass phenocrysts in coarse-grained matrix	BL	Black	BL	Brecciated	W	Weak
H			Hydrothermal (undifferentiated)	BE	Beryl	GT	Garnet	MA	Matrix	Dec	Decreasing	PAG	Pyroxene, alternating bands (1-25cm) of aplitic and coarse-grained rock	BR	Brown	BR	Autobreccia	Dec	Decreasing
B			Bary	BE	Beryl	HM	Hornblende	W	Weak	Inc	Increasing	AMS	Amphibole	GRN	Green	BR	Hydrothermal breccia	Inc	Increasing
BL			Black	CB	Carbonate	QCC	Quartz-carbonate	W	Weak			BD	Banded	GRY	Grey	BR	Tectonic breccia		
S			Subvolcanic (primary porphy)	EST	Epidote	SR	Sericite	BD	Banded			BD	Banded	GRY	Grey	BR	Tectonic breccia		
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill	BD	Banded			BD	Banded	GRY	Grey	BR	Tectonic breccia		
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill	BD	Banded			BD	Banded	GRY	Grey	BR	Tectonic breccia		
C			Chert (10% magnetite banded)	CP	Chalcopyrite	TRC	Tricarbonate					BD	Banded	GRY	Grey	BR	Tectonic breccia		
T			1-1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite					BD	Banded	GRY	Grey	BR	Tectonic breccia		
m			1-1% magnetite or sulphides	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
S			Subvolcanic (secondary porphy)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Banded Iron Formation (10-15% magnetite or secondary sulphides)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
S			Subvolcanic (magnetite only)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
S			Subvolcanic (primary porphy)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
Subvolcanic																			
P			Feldspar porphyry	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
V			Volcanic undifferentiated	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
X			Extrusive	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basaltic	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
F			Flow (basalt)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basaltic	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
T			Tuff undifferentiated	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
I			Ignimbrite/Flow Tuff (flamme)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
A			Ashfall Tuff (2-20m)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
L			Lapilli-Ash Tuff (2-40mm)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
A			Agglomerate Tuff (2-40mm)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
E			Epithermal (Volcanic Breccia)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
F			Flow (epithermal)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
E			Epithermal (newwork)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
I			Intrusive	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
D			Dacite	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
D			Dacite (Plagioclase rich)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
T			Trachyte (Ashfall Feldspar rich)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
Subvolcanic																			
P			Mafic Porphyry (Mg silicate, phenocrystic)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
V			Volcanic undifferentiated	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
X			Extrusive	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basaltic	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
F			Flow (basalt)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basaltic	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
T			Tuff undifferentiated	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
I			Ignimbrite (newwork)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
D			Dacite/Diabase	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
G			Granulite	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basaltic	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
D			Dacite/Diabase	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
G			Granulite	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
Subvolcanic																			
V			Volcanic undifferentiated	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
X			Extrusive	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
R			Rhyolitic	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
F			Flow Top Breccia	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
S			Sprifer Zone	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
L			Liquid (Olivine poor, matrix >50%)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
O			Orthocumulate (Olivine 50-75%)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
M			Mesocumulate (Olivine 75-95%)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basaltic (Olivine 95%)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basalt Chert Zone	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
P			Pyroxene (High Magnesium Basalt)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
F			Flow Top Breccia	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
C			Cumulates undifferentiated	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basalt Chert Zone	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
B			Basaltic	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
D			Dacite (Olivine rich)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
P			Pyroxene (Pyroxene rich)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
E			Epithermal (newwork)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
Subvolcanic																			
abs			Quartz-biotite schist w/ garnet, amphibole (metased or meta tuff)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
ba			Banded quartz amphibole w/ biotite garnet (metased or mafic)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
rb			Rock Carbonate rock (Typically meta Komatiite)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
tr			Transect-Chlorite rock (Typically meta Pyroxenite)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
tr			Transect-Chlorite rock (Typically meta Ni-Mag Basaltic)	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		
ms			Massive serpenstone	EP	Epidote							BD	Banded	GRY	Grey	BR	Tectonic breccia		

Intramafic sequent (T2) to form carbonate alteration. Look for primary textures to differentiate between olivine / pyroxene contents, if possible. If unable to identify the primary rock, use the codes below, only if necessary

trc	Transect-Chlorite altered (usually Komatiitic)
tr	Transect-Chlorite altered (usually Pyroxenitic)
tra	Transect-Chlorite altered (Ni-Mag Basaltic)

Project:	Seymour Lake		
Prospect:	North Aubry		
Claim #:			
Hole ID:	ASD012		
Start Date:	09/09/2018		
End Date:	12/09/2018		
EOH Depth:	201		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585334.2	m
	UTM East:	397068.92	m
	Elevation:	373.04	m
	Dip:	-53	at setup
	Az:	199	at setup
	Collar Survey Method:	<i>iSxBlue</i>	
	Surveyed by:	<i>kkp</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	201	BTW	
Drill comments (issues, casing, gear in hole): casing 3m			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD012	0	-53.6	199.48		200.6	196.90		APS	
ASD012	12	-53.5		199.8	195.9	197.20	5768.00	Reflex	
ASD012	21	-53.2		201.7	197.8	197.8	5706.00	Reflex	
ASD012	51	-52.7		202.9	199.0	199.0	5688.00	Reflex	
ASD012	81	-52.1		202.9	199.0	199.0	5687.00	Reflex	
ASD012	111	-57.2		200.1	196.2	196.2	5672.00	Reflex	Bad Reading
ASD012	141	-50.3		203.2	199.3	199.3	5707.00	Reflex	
ASD012	171	-49.7		203.4	199.5	199.5	5695.00	Reflex	
ASD012	201	-49.3		204.3	200.4	200.4	5688.00	Reflex	



ASD012					
ASD012					
ASD012					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD012	0	3	3.00	0.90	30.00	0.30	33.33	
ASD012	3	6	3.00	2.90	96.67	2.70	93.10	4
ASD012	6	9	3.00	3.10	103.33	2.80	90.32	6
ASD012	9	12	3.00	3.03	101.00	2.75	90.76	8
ASD012	12	15	3.00	3.00	100.00	3.00	100.00	3
ASD012	15	18	3.00	3.12	104.00	2.50	80.13	5
ASD012	18	21	3.00	3.00	100.00	2.90	96.67	11
ASD012	21	24	3.00	3.05	101.67	3.05	100.00	4
ASD012	24	27	3.00	3.08	102.67	3.08	100.00	2
ASD012	27	30	3.00	3.09	103.00	3.09	100.00	3
ASD012	30	33	3.00	3.00	100.00	3.00	100.00	2
ASD012	33	36	3.00	3.06	102.00	3.06	100.00	1
ASD012	36	39	3.00	3.00	100.00	3.00	100.00	3
ASD012	39	42	3.00	3.07	102.33	2.97	96.74	2
ASD012	42	45	3.00	3.15	105.00	3.12	99.05	4
ASD012	45	48	3.00	3.02	100.67	3.02	100.00	0
ASD012	48	51	3.00	3.00	100.00	3.00	100.00	2
ASD012	51	54	3.00	3.00	100.00	2.78	92.67	4
ASD012	54	57	3.00	3.10	103.33	3.10	100.00	4
ASD012	57	60	3.00	3.10	103.33	3.00	96.77	3
ASD012	60	63	3.00	3.08	102.67	2.93	95.13	3
ASD012	63	66	3.00	2.98	99.33	2.86	95.97	6
ASD012	66	69	3.00	3.10	103.33	2.98	96.13	6
ASD012	69	72	3.00	3.09	103.00	3.09	100.00	0
ASD012	72	75	3.00	3.06	102.00	3.06	100.00	3
ASD012	75	78	3.00	3.04	101.33	3.02	99.34	4
ASD012	78	81	3.00	3.07	102.33	3.07	100.00	2
ASD012	81	84	3.00	3.00	100.00	3.00	100.00	1
ASD012	84	87	3.00	3.02	100.67	3.02	100.00	0
ASD012	87	90	3.00	3.04	101.33	3.04	100.00	3
ASD012	90	93	3.00	3.00	100.00	3.00	100.00	4
ASD012	93	96	3.00	3.10	103.33	3.10	100.00	2
ASD012	96	99	3.00	3.07	102.33	3.07	100.00	2
ASD012	99	102	3.00	3.04	101.33	3.03	99.67	7
ASD012	102	105	3.00	3.02	100.67	3.02	100.00	1
ASD012	105	108	3.00	3.00	100.00	3.00	100.00	1
ASD012	108	111	3.00	3.03	101.00	3.03	100.00	3
ASD012	111	114	3.00	3.03	101.00	3.03	100.00	4
ASD012	114	117	3.00	2.95	98.33	2.83	95.93	5
ASD012	117	120	3.00	3.00	100.00	2.90	96.67	0
ASD012	120	123	3.00	3.15	105.00	3.13	99.37	5
ASD012	123	126	3.00	3.10	103.33	3.05	98.39	3
ASD012	126	129	3.00	3.00	100.00	2.85	95.00	5
ASD012	129	132	3.00	3.13	104.33	2.73	87.22	8

ASD012	132	135	3.00	3.08	102.67	3.08	100.00	2
ASD012	135	138	3.00	3.07	102.33	3.07	100.00	1
ASD012	138	141	3.00	3.09	103.00	3.02	97.73	4
ASD012	141	144	3.00	3.00	100.00	2.94	98.00	4
ASD012	144	147	3.00	3.00	100.00	3.00	100.00	5
ASD012	147	150	3.00	3.05	101.67	2.92	95.74	8
ASD012	150	153	3.00	3.07	102.33	3.00	97.72	8
ASD012	153	156	3.00	3.00	100.00	2.90	96.67	9
ASD012	156	159	3.00	3.00	100.00	2.70	90.00	5
ASD012	159	162	3.00	3.00	100.00	2.82	94.00	4
ASD012	162	165	3.00	3.00	100.00	2.35	78.33	7
ASD012	165	168	3.00	3.00	100.00	2.67	89.00	13
ASD012	168	171	3.00	3.03	101.00	2.46	81.19	19
ASD012	171	174	3.00	3.00	100.00	2.60	86.67	12
ASD012	174	177	3.00	3.05	101.67	2.39	78.36	18
ASD012	177	180	3.00	2.95	98.33	2.80	94.92	11
ASD012	180	183	3.00	2.98	99.33	2.91	97.65	5
ASD012	183	186	3.00	3.00	100.00	2.70	90.00	13
ASD012	186	189	3.00	2.97	99.00	2.84	95.62	6
ASD012	189	192	3.00	3.07	102.33	3.07	100.00	4
ASD012	192	195	3.00	3.00	100.00	3.00	100.00	3
ASD012	195	198	3.00	3.05	101.67	2.85	93.44	11
ASD012	198	201	3.00	3.10	103.33	2.89	93.23	6

ARDIDEN LIMITED

Hole No.	ASD012					Date:	10/09/2018			
				Core Box Intervals						
Geologist:	Carlos Munoz									
Box #	From	To		Box #	From	To		Box #	From	To
1	2.1	6.6		45	189.62	193.88		89		
2	6.6	10.7		46	193.88	198		90		
3	10.7	15.0		47	198	201	EOH	91		
4	15.0	19.0		48				92		
5	19.0	23.3		49				93		
6	23.3	27.6		50				94		
7	27.6	31.8		51				95		
8	31.8	36.0		52				96		
9	36.0	41.5		53				97		
10	41.5	44.7		54				98		
11	44.7	48.9		55				99		
12	48.9	53.3		56				100		
13	53.3	57.5		57				101		
14	57.5	61.8		58				102		
15	61.8	66.0		59				103		
16	66.0	70.3		60				104		
17	70.3	74.6		61				105		
18	74.6	78.8		62				106		
19	78.8	83.2		63				107		
20	83.2	87.4		64				108		
21	87.4	91.7		65				109		
22	91.7	96		66				110		
23	96.0	100.25		67				111		
24	100.3	104.62		68				112		
25	104.6	108.9		69				113		
26	108.9	113.17		70				114		
27	113.2	117.47		71				115		
28	117.5	121.78		72				116		
29	121.8	125.92		73				117		
30	125.9	130.21		74				118		
31	130.2	134.48		75				119		
32	134.5	138.8		76				120		
33	138.8	143		77				121		
34	143.0	147.26		78				122		
35	147.3	151.65		79				123		
36	151.7	155.98		80				124		
37	156.0	160.11		81				125		
38	160.1	164.2		82				126		
39	164.2	168.5		83				127		
40	168.5	172.57		84				128		
41	172.6	176.78		85				129		
42	176.8	181.04		86				130		
43	181.0	185.33		87				131		
44	185.3	189.62		88				132		

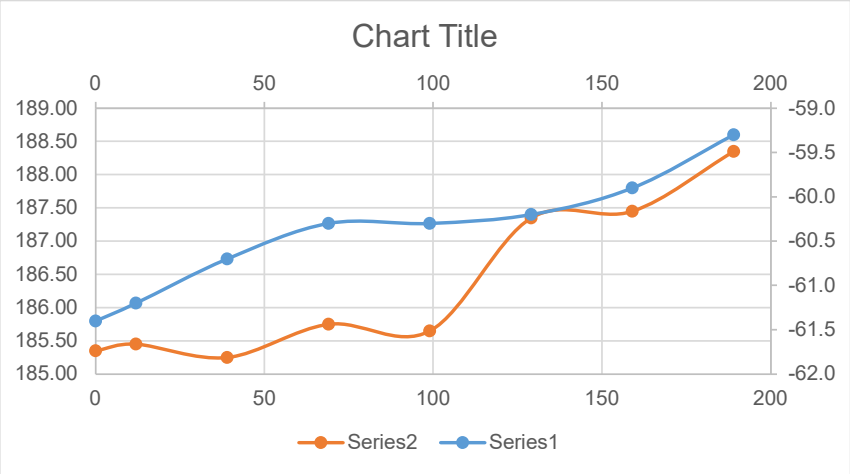
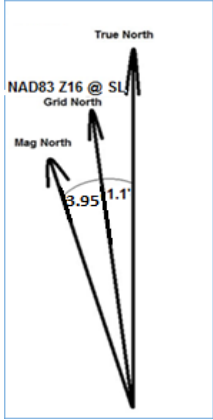
SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD012	Sampled by: Carlos Muno				DATE:	12/09/2018					
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5564193	ASD012	29.00	30.00	1.00								
E5564194	ASD012	30.00	30.25	0.25								
E5564195	ASD012	30.25	31.25	1.00								
E5564196	ASD012				Standard	Oreas 149						
E5564197	ASD012	52.40	53.37	0.97								
E5564198	ASD012	53.37	53.76	0.39								
E5564199	ASD012	53.76	54.80	1.04								
E5564200	ASD012	53.76	54.80	1.04	FD	E5564199						
E5564201	ASD012	117.00	118.50	1.50								
E5564202	ASD012	118.50	120.00	1.50								
E5564203	ASD012	120.00	121.50	1.50								
E5564204	ASD012	121.50	123.00	1.50								
E5564205	ASD012	123.00	124.50	1.50								
E5564206	ASD012	124.50	126.00	1.50								
E5564207	ASD012	126.00	126.95	0.95								
E5564208	ASD012	126.95	128.00	1.05								
E5564209	ASD012	128.00	129.00	1.00								
E5564210	ASD012	129.00	130.00	1.00								
E5564211	ASD012				Blank							
E5564212	ASD012	130.00	131.00	1.00								
E5564213	ASD012	131.00	132.00	1.00								
E5564214	ASD012	132.00	133.00	1.00								
E5564215	ASD012	133.00	134.00	1.00								
E5564216	ASD012	134.00	135.00	1.00								
E5564217	ASD012	135.00	136.00	1.00								
E5564218	ASD012	136.00	137.00	1.00								
E5564219	ASD012				Standard	Oreas 147						
E5564220	ASD012	137.00	138.00	1.00								
E5564221	ASD012	138.00	139.00	1.00								
E5564222	ASD012	139.00	140.00	1.00								
E5564223	ASD012	140.00	141.00	1.00								
E5564224	ASD012	141.00	142.00	1.00								
E5564225	ASD012	142.00	143.00	1.00								
E5564226	ASD012	143.00	144.00	1.00								
E5564227	ASD012	144.00	144.86	0.86								
E5564228	ASD012	144.86	146.00	1.14								
E5564229	ASD012	146.00	147.50	1.50								
E5564230	ASD012	147.50	149.00	1.50								
E5564231	ASD012				Blank							
E5564232	ASD012	149.00	150.50	1.50								
E5564233	ASD012	150.50	152.00	1.50								
E5564234	ASD012	152.00	153.50	1.50								
E5564235	ASD012	153.50	155.00	1.50								
E5564236	ASD012				Standard	Oreas 149						
E5564237	ASD012	155.00	156.50	1.50								
E5564238	ASD012	156.50	158.00	1.50								
E5564239	ASD012	158.00	159.50	1.50								
E5564240	ASD012	158.00	159.50	1.50	FD	E5564239						
E5564241	ASD012	159.50	161.00	1.50								
E5564242	ASD012	161.00	162.50	1.50								
E5564243	ASD012	162.50	163.96	1.46								
E5564244	ASD012	163.96	165.33	1.37								
E5564245	ASD012	165.33	165.96	0.63								
E5564246	ASD012	165.96	167.06	1.10								
E5564247	ASD012	167.06	168.36	1.30								
E5564248	ASD012	168.36	169.50	1.14								
E5564249	ASD012	169.50	170.50	1.00								
E5564250	ASD012	170.50	171.44	0.94								
E5564251	ASD012				Blank							
E5564252	ASD012	171.44	173.00	1.56								
E5564253	ASD012	173.00	174.10	1.10								
E5564254	ASD012	174.10	175.00	0.90								
E5564255	ASD012	175.00	176.00	1.00								
E5564256	ASD012	176.00	177.00	1.00								
E5564257	ASD012	177.00	178.15	1.15								
E5564258	ASD012	178.15	179.50	1.35								
E5564259	ASD012				Standard	Oreas 147						
E5564260	ASD012	179.50	181.00	1.50								
E5564261	ASD012	181.00	182.50	1.50								
E5564262	ASD012	182.50	184.00	1.50								

E5564263	ASD012	184.00	185.50	1.50							
E5564264	ASD012	185.50	187.00	1.50							
E5564265	ASD012	187.00	188.50	1.50		EOH					

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CH			Chert/Carbon	HT	Hornblende	BT	Biotite	MA	Massive	R	Weak	FEF	Fine-grained, equigranular, fine-grained (1-20mm), "aplitic" (foliated)	DR	Dark	DR	Banded	W	Weak
LC			Loose Core	APT	Apophite	CB	Carbonate	PC	Partly	M	Medium	FSM	Fine-grained, equigranular, medium-grained (2-5mm), "microcrystic"	CS	Light	DR	Banded	M	Medium
S			Subvolcanic (including chemical sands)	KSP	Kalsopyrite	Ch	Chloritic	PN	Perseverance	S	Strong	PGC	Porphyritic, coarse to "glass" granular but not distinctly porphyritic	BL	Black	BL	Boudinaged	S	Strong
U			Undifferentiated (not for epithermal tuffs)	AT	Actinolite	EP	Epithermal	SD	Subvolcanic	W	Weak	DFP	Ductile, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
S			Subvolcanic (undifferentiated)	HL	Hornblende	FE	Ferrous oxide	HL	Halo	V	Variable	PGC	Porphyritic, glass phenocrysts in coarse-grained matrix	BLU	Blue	BR	Brecciated	V	Variable
H			Hydrothermal (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	Dec	Decreasing	PAG	Porphyritic, alternating bands (1-20cm) of aplitic and coarse-grained rock	BRN	Brown	BR	Autobreccia	Dec	Decreasing
B			Baryte	BT	Biotite	QCC	Quartz-carbonate	W	Wegener	Inc	Increasing	AMS	Amphibolite	GRN	Green	BR	Hydrothermal breccia	Inc	Increasing
Bl			Black	CB	Carbonate	QCC	Quartz-carbonate	W	Wegener	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
S			Sulphide (primary porphy)	EST	Eastonite	SR	Sericite	BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill	BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
C			Chert (10% magnetite banding)	CP	Chalcopyrite	TRC	Tricarbonate	BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
T			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite	BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
M			>1% magnetite or sulphides	EP	Epithermal			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
S			Sulphide (secondary porphy)	FT	Feldspar			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	GR	Garnet			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
B			Banded Iron Formation (10-15% magnetite or secondary sulphides)	GT	Garnet			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
PS			Pyritic sulphides, magnetite only	HO	Hornblende			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
S			Sulphide (primary porphy)	HM	Hornblende			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	HM	Hornblende			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
SP			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	IS	Isopropylite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
P			Feldspar porphyry	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
V			Volcanic undifferentiated	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
K			Kalsopyrite	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
RD			Rhyolitic	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
HD			Hyaloclastite	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Tuff undifferentiated	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Agglomerate/Flow Tuff (Flamme)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Asphalt Tuff (2-20m)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Capill. Ash Tuff (2-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Agglomerate Tuff (2-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Agglomerate Tuff (4-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Hyaloclastite (Volcanic Breccia)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Flow (Hyvolite)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Epitaxial (ineworked)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Intrusive	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Duquenois	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Granulite (Diagenetic rich)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Granulite with sulphide stringers/quartz veining	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Actin. flow (glass 1-10m)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Tonalite (Quartz rich >20%)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Gneiss-Granitic	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Granulite with sulphide stringers/quartz veining	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
GP			Granulite, minor, thin vein/veinlet	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
BP			Basaltic porphyry, zone containing apatite, massive or in alternating bands	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
MP			Magnetite, zone of coarse-grained foliated-quartz matrix rock	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
MF			Magnetite, zone > 0.5m thick dominated (>25%) by microcline	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
MB			Magnetite, zone > 0.5m thick dominated (>75%) by quartz	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
MP			Magnetite, zone of any thickness that contains spontaneous	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Subvolcanic	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
V			Volcanic undifferentiated	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
K			Kalsopyrite	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
F			Flow (basalt)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
D			Duquenois	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
T			Tuff undifferentiated	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
AG			Agglomerate/Flow Tuff (Flamme)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
A			Asphalt Tuff (2-20m)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
CA			Capill. Ash Tuff (2-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
AG			Agglomerate Tuff (2-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
AG			Agglomerate Tuff (4-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
H			Hyaloclastite (Volcanic Breccia)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
F			Flow (Andesite)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
E			Epitaxial (ineworked)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
I			Intrusive	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
D			Duquenois	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
D			Duquenois (Diagenetic rich)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
T			Trahyte (Asphalt Feldspar rich)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
			Subvolcanic	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
V			Volcanic undifferentiated	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
K			Kalsopyrite	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
F			Flow (basalt)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
D			Duquenois	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
T			Tuff undifferentiated	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
AG			Agglomerate/Flow Tuff (Flamme)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
A			Asphalt Tuff (2-20m)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
CA			Capill. Ash Tuff (2-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
AG			Agglomerate Tuff (2-40mm)	MA	Magnetite			BD	Banded	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
AG			Agglomerate Tuff (4-40mm)	MA</															

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD013	Datum/Proj:	NAD83 Zone 16
Start Date:	12/09/2018	UTM North:	5585334.17 m
End Date:	14/09/2018	UTM East:	397069.38 m
EOH Depth:	189	Elevation:	372.4 m
		Dip:	-60 at setup
		Az:	180 at setup
		Collar Survey Method:	<i>iSxBlue</i>
		Surveyed by:	<i>kkp</i>
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	189	BTW	
Drill comments (issues, casing, gear in hole): 3m casing, hole deviated 4 degrees after alignment			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD013	0	-61.4	184.25		185.4	185.35		APS	
ASD013	12	-61.2			185.4	181.5	5744.00	Reflex	
ASD013	39	-60.7			189.2	185.3	5701.00	Reflex	
ASD013	69	-60.3			189.7	185.8	5701.00	Reflex	
ASD013	99	-60.3			189.6	185.7	5691.00	Reflex	
ASD013	129	-60.2			191.3	187.4	5704.00	Reflex	
ASD013	159	-59.9			191.4	187.5	5699.00	Reflex	
ASD013	189	-59.3			192.3	188.4	5685.00	Reflex	



GEOLOGICAL CORE LOG

Geologist: Carlos Munoz										EOH Reason: ACT tool broken (last orientation line at 93m), drill bit needed to be changed. Objectives accomplished												
Date Logged: 13/09/2018																						
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
ASD013	0.00	3.35	3.35			OB																
ASD013	3.35	29.09	25.74		GRN	Xlaq	Id	Ch	Hb	Qz							vnc	10	Bk	M	moderately fractured intervals, veins with feldspar, plagioclase and Ch. Some epidote in the veins	
ASD013	29.09	29.29	0.20		PKK	FICPn	PAB	Fs	ms	Ab												
ASD013	29.29	51.10	21.81		GRN	Xlaq	Id	Ch	Hb	Qz	Gl						vnc	5	Id	W	small crystals of garnet along veins. Foliation marked by Bt and Amphibole	
ASD013	51.10	51.45	0.35		PKK	FICPn	PEM	Fs	Ab	Qz											some developed comb texture on Silica F5?	
ASD013	51.45	113.50	62.05		GRN	MXB	MAS	Ch	Qz	Hb	Bi						vnc	5				
ASD013	113.50	116.56	3.06		GRN	Vn	BKX	Ch	Bi	Qz	Cl, Hb						vnc	90	Def	M	vein with brecciated and folded glass; intervals, some Feldspar and silica alteration; Secondary Biotite	
ASD013	116.56	126.20	9.64		GRN	Xlaq	Fol	Ch	Qz	Hb	Il										intervals with Biotite along foliation. Foliation very weak, very local	
ASD013	126.20	131.46	5.26		WHT	FICPp	PEM	Ab	ms	Fs	Sp	20	2	Fe	Spl	W					Crystic texture in some spots, interval with abundant muscovite; need to purple specks close to spodumene	
ASD013	131.46	136.42	4.96		PKK	FICPn	PEF	Fs	Ab	Qz	Sp, Apt	5	5	Fe	Spl	W					More potassic interval with less spodumene; interval with 10 being altered to rector mineral (sodic amphibole). Access	
ASD013	136.42	138.48	2.06		WHT	FICPp	PEM	Ab	Qz	ms	Sp, Fs	15	0.5	Fe	Spl	W					similar to the 126-131m pegmatite	
ASD013	138.48	168.10	29.62		GRN	MXB	LIN	Ch	Qz	Am				Am, Dp			vnc	20			Am-amphibole alteration to amphibole (probably Actinolite) and Diopside	
ASD013	168.10	171.40	3.30		PKK	FICPp	PEM	Fs	Qz	Sp	Apt	40	5								Abundant K Fs. Weak Sp alteration. Apt located in a small interval of apfite Kfs pegmatite	
ASD013	171.40	174.21	2.81		GRN	Xlaq	Fol	Ch	Qz	Hb	Bi			Ch	Piv	W	vnc	1	Fol	W	weak foliation, Chlorite Hb Schist with minor Biotite	
ASD013	174.21	174.98	0.77		WHT	Vn	MAS	Qz	Ab	Po											Quartz vein with some Abite. Pyrrhotite as accessory	
ASD013	174.98	189.00	14.02		GRN	MXB	MAS	Ch	Qz	Am				Ch	Piv	W	vnc	5			EOH	

ASD013					
ASD013					
ASD013					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD013	0	3	3.00	0.65	21.67	0.30	46.15	
ASD013	3	6	3.00	3.00	100.00	2.95	98.33	3
ASD013	6	9	3.00	3.03	101.00	2.78	91.75	10
ASD013	9	12	3.00	3.00	100.00	2.40	80.00	12
ASD013	12	15	3.00	2.98	99.33	1.85	62.08	13
ASD013	15	18	3.00	3.00	100.00	2.75	91.67	7
ASD013	18	21	3.00	3.15	105.00	3.15	100.00	4
ASD013	21	24	3.00	3.04	101.33	3.04	100.00	5
ASD013	24	27	3.00	3.04	101.33	2.94	96.71	6
ASD013	27	30	3.00	3.00	100.00	2.87	95.67	3
ASD013	30	33	3.00	2.97	99.00	2.97	100.00	4
ASD013	33	36	3.00	2.98	99.33	2.88	96.64	5
ASD013	36	39	3.00	3.07	102.33	2.97	96.74	5
ASD013	39	42	3.00	3.10	103.33	3.04	98.06	7
ASD013	42	45	3.00	2.91	97.00	2.91	100.00	1
ASD013	45	48	3.00	3.00	100.00	3.00	100.00	6
ASD013	48	51	3.00	3.00	100.00	2.83	94.33	9
ASD013	51	54	3.00	3.00	100.00	2.94	98.00	4
ASD013	54	57	3.00	3.00	100.00	3.00	100.00	2
ASD013	57	60	3.00	3.00	100.00	3.00	100.00	3
ASD013	60	63	3.00	3.00	100.00	2.94	98.00	5
ASD013	63	66	3.00	3.05	101.67	2.99	98.03	5
ASD013	66	69	3.00	3.05	101.67	3.05	100.00	4
ASD013	69	72	3.00	3.03	101.00	3.03	100.00	2
ASD013	72	75	3.00	3.00	100.00	2.96	98.67	3
ASD013	75	78	3.00	2.98	99.33	2.98	100.00	5
ASD013	78	81	3.00	3.04	101.33	2.97	97.70	2
ASD013	81	84	3.00	3.05	101.67	3.05	100.00	0
ASD013	84	87	3.00	3.01	100.33	3.01	100.00	0
ASD013	87	90	3.00	3.06	102.00	3.06	100.00	2
ASD013	90	93	3.00	3.03	101.00	2.95	97.36	5
ASD013	93	96	3.00	3.04	101.33	3.04	100.00	2
ASD013	96	99	3.00	3.07	102.33	3.02	98.37	3
ASD013	99	102	3.00	2.97	99.00	2.88	96.97	3
ASD013	102	105	3.00	3.06	102.00	3.06	100.00	2
ASD013	105	108	3.00	3.07	102.33	3.07	100.00	3
ASD013	108	111	3.00	3.10	103.33	3.10	100.00	2
ASD013	111	114	3.00	3.15	105.00	2.96	93.97	7
ASD013	114	117	3.00	3.05	101.67	2.51	82.30	8
ASD013	117	120	3.00	3.02	100.67	2.96	98.01	2
ASD013	120	123	3.00	3.00	100.00	2.92	97.33	7
ASD013	123	126	3.00	2.99	99.67	2.99	100.00	5
ASD013	126	129	3.00	3.00	100.00	2.91	97.00	2
ASD013	129	132	3.00	3.08	102.67	3.08	100.00	0

ASD013	132	135	3.00	3.00	100.00	3.00	100.00	1
ASD013	135	138	3.00	3.05	101.67	3.05	100.00	1
ASD013	138	141	3.00	3.08	102.67	3.08	100.00	1
ASD013	141	144	3.00	3.07	102.33	3.07	100.00	3
ASD013	144	147	3.00	3.00	100.00	3.00	100.00	2
ASD013	147	150	3.00	3.03	101.00	3.03	100.00	1
ASD013	150	153	3.00	3.02	100.67	3.02	100.00	0
ASD013	153	156	3.00	3.02	100.67	3.02	100.00	1
ASD013	156	159	3.00	3.03	101.00	2.83	93.40	4
ASD013	159	162	3.00	3.05	101.67	3.05	100.00	4
ASD013	162	165	3.00	3.00	100.00	3.00	100.00	2
ASD013	165	168	3.00	3.04	101.33	2.30	75.66	13
ASD013	168	171	3.00	3.06	102.00	3.06	100.00	3
ASD013	171	174	3.00	3.02	100.67	2.72	90.07	9
ASD013	174	177	3.00	3.04	101.33	2.66	87.50	9
ASD013	177	180	3.00	3.04	101.33	3.04	100.00	3
ASD013	180	183	3.00	3.04	101.33	3.04	100.00	5
ASD013	183	186	3.00	3.06	102.00	3.06	100.00	1
ASD013	186	189	3.00	2.98	99.33	2.98	100.00	0

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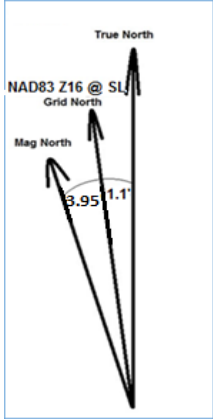
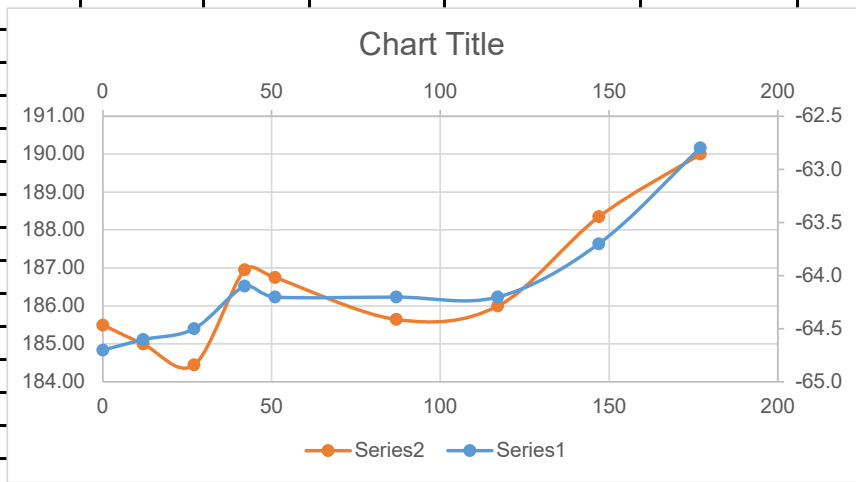
Hole No.	ASD013					Date:	13/09/2018		
Geologist:		Carlos Munoz		Core Box Intervals					
Box #	From	To	Box #	From	To	Box #	From	To	
1	2.4	6.7	45			89			
2	6.7	10.9	46			90			
3	10.9	14.7	47			91			
4	14.7	19.0	48			92			
5	19.0	23.3	49			93			
6	23.3	27.5	50			94			
7	27.5	31.9	51			95			
8	31.9	36.2	52			96			
9	36.2	40.5	53			97			
10	40.5	44.9	54			98			
11	44.9	49.2	55			99			
12	49.2	53.5	56			100			
13	53.5	57.6	57			101			
14	57.6	62.0	58			102			
15	62.0	66.1	59			103			
16	66.1	70.4	60			104			
17	70.4	74.7	61			105			
18	74.7	79.0	62			106			
19	79.0	83.2	63			107			
20	83.2	87.4	64			108			
21	87.4	91.6	65			109			
22	91.6	95.85	66			110			
23	95.9	100.08	67			111			
24	100.1	104.43	68			112			
25	104.4	108.6	69			113			
26	108.6	112.82	70			114			
27	112.8	117	71			115			
28	117.0	121.37	72			116			
29	121.4	125.71	73			117			
30	125.7	130	74			118			
31	130.0	134.25	75			119			
32	134.3	138.5	76			120			
33	138.5	142.7	77			121			
34	142.7	147	78			122			
35	147.0	151.35	79			123			
36	151.4	155.74	80			124			
37	155.7	159.99	81			125			
38	160.0	164.27	82			126			
39	164.3	168.36	83			127			
40	168.4	172.51	84			128			
41	172.5	176.78	85			129			
42	176.8	180.85	86			130			
43	180.9	184.95	87			131			
44	185.0	189	88			132			

SAMPLE & SPECIFIC GRAVITY LOGS													
Hole ID:	ASD013	Sampled by: Carlos Muno				DATE:	13/09/2018						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG	
E5564266	ASD013	28.00	29.09	1.09									
E5564267	ASD013	29.09	29.29	0.20		FIGPin							
E5564268	ASD013	29.29	30.30	1.01									
E5564269	ASD013	50.00	51.10	1.10									
E5564270	ASD013	51.10	51.45	0.35									
E5564271	ASD013			0.00	Blank								
E5564272	ASD013	51.45	52.50	1.05									
E5564273	ASD013	115.00	116.56	1.56									
E5564274	ASD013	116.56	118.00	1.44									
E5564275	ASD013	118.00	119.50	1.50									
E5564276	ASD013			0.00	Standard	Oreas 149							
E5564277	ASD013	119.50	121.00	1.50									
E5564278	ASD013	121.00	122.50	1.50									
E5564279	ASD013	122.50	124.00	1.50									
E5564280	ASD013	122.50	124.00	1.50	FD	E5564279							
E5564281	ASD013	124.00	125.00	1.00									
E5564282	ASD013	125.00	126.20	1.20									
E5564283	ASD013	126.20	127.00	0.80									
E5564284	ASD013	127.00	128.00	1.00									
E5564285	ASD013	128.00	129.00	1.00									
E5564286	ASD013	129.00	130.00	1.00									
E5564287	ASD013	130.00	131.46	1.46									
E5564288	ASD013	131.46	132.50	1.04									
E5564289	ASD013	132.50	133.50	1.00									
E5564290	ASD013	133.50	134.50	1.00									
E5564291	ASD013			0.00	Blank								
E5564292	ASD013	134.50	136.00	1.50									
E5564293	ASD013	136.00	136.92	0.92									
E5564294	ASD013	136.92	137.70	0.78									
E5564295	ASD013	137.70	138.48	0.78									
E5564296	ASD013	138.48	140.00	1.52									
E5564297	ASD013	140.00	141.50	1.50									
E5564298	ASD013	141.50	143.00	1.50									
E5564299	ASD013			0.00	Standard	Oreas 147							
E5564300	ASD013	143.00	144.50	1.50									
E5564301	ASD013	144.50	146.00	1.50									
E5564302	ASD013	146.00	147.50	1.50									
E5564303	ASD013	147.50	148.50	1.00									
E5564304	ASD013	158.00	159.50	1.50									
E5564305	ASD013	159.50	161.00	1.50									
E5564306	ASD013	161.00	162.50	1.50									
E5564307	ASD013	162.50	164.00	1.50									
E5564308	ASD013	164.00	165.50	1.50									
E5564309	ASD013	165.50	167.00	1.50									
E5564310	ASD013	167.00	168.10	1.10									
E5564311	ASD013			0.00	Blank								
E5564312	ASD013	168.10	169.00	0.90									
E5564313	ASD013	169.00	170.00	1.00									
E5564314	ASD013	170.00	171.40	1.40									
E5564315	ASD013	171.40	173.00	1.60									
E5564316	ASD013			0.00	Standard	Oreas 149							
E5564317	ASD013	173.00	174.21	1.21									
E5564318	ASD013	174.21	174.98	0.77									
E5564319	ASD013	174.98	176.50	1.52									
E5564320	ASD013	174.98	176.50	1.52	FD	E5564319							
E5564321	ASD013	176.50	178.00	1.50									
E5564322	ASD013	178.00	179.50	1.50									
E5564323	ASD013	179.50	181.00	1.50									
E5564324	ASD013	181.00	182.00	1.00									

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonation	AD	Asbestos	BT	Biotite	MA	Massive	R	Weak	PEP	Plagioclase, equigranular, fine-grained (1-2mm), "aplitic" (clastic)	DR	Dark	SL	Slaty	W	Weak
CC			Loose Core	APT	Apophite	CB	Carbonate	PC	Partly	M	Medium	PEM	Plagioclase, equigranular, medium-grained (2-5mm), "microplitic"	CS	Light	SL	Slaty	W	Weak
S			Subvolcanic (including chemical sands)	AVP	Arsenopyrite	CA	Chalcopyrite	PA	pervasive	S	Strong	PGC	Plagioclase, coarse to "gran" granitic but not distinctly porphyritic	BL	Black	BU	Boudinaged	S	Strong
U			Undifferentiated (not for epithermal tuffs)	AT	Atacamite	EP	Epithermal	SD	Subdued	W	Weak	PPF	Plagioclase, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
S			Subvolcanic (undifferentiated)	AV	Vanadinite	FE	Ferrous oxide	HA	Halite	V	Variable	PGC	Plagioclase, glass phenocrysts in coarse-grained matrix	BL	Black	BU	Boudinaged	W	Weak
H			Hot (undifferentiated)	BE	Beryl	GT	Garnet	MA	Matrix	Dec	Decreasing	PAG	Plagioclase, alternating bands (1-25cm) of aplitic and coarse-grained rock	BR	Brown	BR	Brown	Dec	Decreasing
B			Bary	BE	Beryl	HM	Hornblende	IR	Irregular	Inc	Increasing	AMA	Amphibole	GR	Green	BR	Brown	Inc	Increasing
W			Wax	CB	Carbonate	QCC	Quartz-carbonate	SD	Sidite	W	Weak	BD	Banded	GR	Grey	BR	Brown	Inc	Increasing
S			Subalkali (primary perite)	EST	Eastonite	SR	Sericite	BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill	BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
C			Chert (20% magnetite banding)	CP	Chalcopyrite	TRC	Tricarbonate	BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
T			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite	BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
M			>1% magnetite or sulphides	EP	Epithermal			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
S			Subalkali (secondary pyrite/pyrrhotite after magnetite)	FR	Ferrosulphide			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
SS			Subalkali (Au - secondary pyrite/pyrrhotite after magnetite)	GR	Garnet			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
B			Banded Iron Formation (0-10% magnetite or secondary sulphides)	GT	Garnet			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
S			Subalkali (magnetite only)	HO	Hornblende			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
S			Subalkali (primary perite)	HM	Hornblende			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
SS			Subalkali (Au - secondary pyrite/pyrrhotite after magnetite)	HM	Hornblende			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
Sub			Subvolcanic	IS	Iron sulfide			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
P			Porphyry	IS	Iron sulfide			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
V			Volcanic undifferentiated	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
X			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (basalt)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
T			Tuff (undifferentiated)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
U			Undifferentiated	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
A			Asphalt Tuff (2-2mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
AS			Asphalt Tuff (2-4mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
AG			Agglomerate Tuff (2-4mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
H			Hydrothermal (Volcanic Breccia)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (andesite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (andesite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
E			Epithermal (newarkite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
I			Intrusive	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
D			Dacite	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
D			Dacite (Plagioclase rich)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
T			Trachyte (Alkali Feldspar rich)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
Sub			Subvolcanic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
P			Porphyry (Ag, Au, Cu, phenocrystic)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
V			Volcanic undifferentiated	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
X			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (basalt)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
T			Tuff (undifferentiated)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
U			Undifferentiated	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
A			Asphalt Tuff (2-2mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
AS			Asphalt Tuff (2-4mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
AG			Agglomerate Tuff (2-4mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
H			Hydrothermal (Volcanic Breccia)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (andesite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (andesite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
E			Epithermal (newarkite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
I			Intrusive	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
D			Dacite	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
D			Dacite (Plagioclase rich)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
T			Trachyte (Alkali Feldspar rich)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
Sub			Subvolcanic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
P			Porphyry (Ag, Au, Cu, phenocrystic)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
V			Volcanic undifferentiated	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
X			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (basalt)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
B			Basaltic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
T			Tuff (undifferentiated)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
U			Undifferentiated	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
A			Asphalt Tuff (2-2mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
AS			Asphalt Tuff (2-4mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
AG			Agglomerate Tuff (2-4mm)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
H			Hydrothermal (Volcanic Breccia)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (andesite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
F			Flow (andesite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
E			Epithermal (newarkite)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
I			Intrusive	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
D			Dacite	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
D			Dacite (Plagioclase rich)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
T			Trachyte (Alkali Feldspar rich)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
Sub			Subvolcanic	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
P			Porphyry (Ag, Au, Cu, phenocrystic)	MA	Magnetite			BD	Banded	IR	Irregular	IR	Interbedded	GR	Green	BR	Brown	Inc	Increasing
V			Volcan																

Project:	Seymour Lake		
Prospect:	North Aubrey		
Claim #:			
Hole ID:	ASD014		
Start Date:	2 oct 2018		
End Date:	4 Oct 2018		
EOH Depth:	177m		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585295.13	m
	UTM East:	397016.34	m
	Elevation:	377.45	m
	Dip:	-63	at setup
	Az:	190	at setup
	Collar Survey Method:	<i>iSxBlue</i>	
	Surveyed by:	<i>kkp</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	177	BTW	
Drill comments (issues, casing, gear in hole): 3m casing plus shoe left in hole			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95 West					
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD014	0	-64.7	184.40		185.5	185.50		APS	
ASD014	12	-64.6		194.4	190.5	185.00	5825.00	Easyshot	
ASD014	27	-64.5		188.4	184.5	184.5	5738.00	Easyshot	
ASD014	42	-64.1		190.9	187.0	187.0	5722.00	Easyshot	
ASD014	51	-64.2		190.7	186.8	186.8	5710.00	Easyshot	
ASD014	87	-64.2		189.6	185.7	185.7	5697.00	Easyshot	
ASD014	117	-64.2		193.3	189.4	186.0	5680.00	Easyshot	
ASD014	147	-63.7		192.3	188.4	188.4	5710.00	Easyshot	
ASD014	177	-62.8		189.9	186.0	190.0	5734.00	Easyshot	



GEOLOGICAL CORE LOG

Date Logged: 3 Oct 2018		EDH called by:														EDH Reason:						
Geologist: AJR																						
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
AS0014	0.00	2.10				OB																
AS0014	2.10	7.75			gm	MOBp	pl							ch	prv	w	vnc:	2				
AS0014	7.75	11.00			dk	MOX	mas															
AS0014	11.00	21.78			gm	MOBp	pl							ch	prv	w	vnc:	15	fl	sf	23-29m fault zone with gouge	
AS0014	21.78	21.88			prk	FIGPW	mas	mc	qz													
AS0014	21.88	26.98			gm	MOBp	pl							ch	prv	w	vnc:	15	fl	sf		
AS0014	26.98	27.28			prk	FIGPW	mas	mc	qz													
AS0014	27.28	46.80			gm	MOBp	pl							ch	prv	w	vnc:	2				
AS0014	46.80	48.80			il	FIGPp	mas					2	50									
AS0014	48.80	49.88			il	FIGPW		mc	ms	qz	lp											
AS0014	49.88	119.36			gm	MOBp	pl															
AS0014	119.36	119.95			il	FIGPW		mc	ms	qz												
AS0014	119.95	120.92			il	FIGPz		qz	mc	ms	sp	1	75									
AS0014	120.92	141.50			gm	MOBp																
AS0014	141.50	142.45			il	FIGPW		mc	qz	ms												
AS0014	142.45	144.80			il	FIGPp		mc	qz	sp	ms	10	25									
AS0014	144.80	156.22			dk	IX	lx							hem	prv	s					brecciated volcanoclastic unit with distinct zones of alteration - one where hematite is pervasive with an interstitial grayish green and another zone where the greenish-grey alteration is pervasive. Unit is strongly foliated and has minor fault gouge in the upper half.	
AS0014	156.22	177			gm	MOB	fol							chl	prv	w						

BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD014	3	6	3.00	2.88	96.00	2.23	77.43	9
ASD014	6	9	3.00	2.94	98.00	1.98	67.35	20
ASD014	9	12	3.00	2.99	99.67	1.62	54.18	20
ASD014	12	15	3.00	2.93	97.67	2.55	87.03	9
ASD014	15	18	3.00	3.06	102.00	3.06	100.00	4
ASD014	18	21	3.00	2.96	98.67	2.08	70.27	15
ASD014	21	24	3.00	3.00	100.00	2.04	68.00	15
ASD014	24	27	3.00	3.00	100.00	1.78	59.33	20
ASD014	27	30	3.00	2.83	94.33	1.93	68.20	25
ASD014	30	33	3.00	2.94	98.00	2.87	97.62	1
ASD014	33	36	3.00	2.99	99.67	2.40	80.27	5
ASD014	36	39	3.00	3.01	100.33	2.93	97.34	3
ASD014	39	42	3.00	3.02	100.67	3.02	100.00	2
ASD014	42	45	3.00	2.97	99.00	2.95	99.33	3
ASD014	45	48	3.00	3.00	100.00	2.92	97.33	3
ASD014	48	51	3.00	3.04	101.33	2.96	97.37	1
ASD014	51	54	3.00	3.03	101.00	3.03	100.00	5
ASD014	54	57	3.00	2.92	97.33	2.70	92.47	8
ASD014	57	60	3.00	3.02	100.67	2.98	98.68	2
ASD014	60	63	3.00	3.08	102.67	3.08	100.00	1
ASD014	63	66	3.00	2.94	98.00	2.90	98.64	4
ASD014	66	69	3.00	2.95	98.33	1.90	64.41	11
ASD014	69	72	3.00	3.02	100.67	2.64	87.42	7
ASD014	72	75	3.00	2.97	99.00	2.74	92.26	2
ASD014	75	78	3.00	3.00	100.00	3.00	100.00	2
ASD014	78	81	3.00	2.96	98.67	2.96	100.00	3
ASD014	81	84	3.00	3.10	103.33	3.10	100.00	0
ASD014	84	87	3.00	3.00	100.00	3.00	100.00	2
ASD014	87	90	3.00	3.09	103.00	3.09	100.00	1
ASD014	90	93	3.00	3.00	100.00	2.94	98.00	4
ASD014	93	96	3.00	3.00	100.00	3.00	100.00	3
ASD014	96	99	3.00	3.00	100.00	2.65	88.33	5
ASD014	99	102	3.00	2.95	98.33	2.95	100.00	1
ASD014	102	105	3.00	3.07	102.33	3.07	100.00	2
ASD014	105	108	3.00	2.97	99.00	2.97	100.00	3
ASD014	108	111	3.00	3.03	101.00	3.03	100.00	0
ASD014	111	114	3.00	3.00	100.00	3.00	100.00	1
ASD014	114	117	3.00	3.03	101.00	3.01	99.34	5
ASD014	117	120	3.00	2.94	98.00	2.92	99.32	3
ASD014	120	123	3.00	2.99	99.67	2.90	96.99	2
ASD014	123	126	3.00	2.95	98.33	2.90	98.31	5
ASD014	126	129	3.00	3.03	101.00	2.71	89.44	14
ASD014	129	132	3.00	2.91	97.00	2.54	87.29	7
ASD014	132	135	3.00	3.02	100.67	3.02	100.00	1

ASD014	135	138	3.00
ASD014	138	141	3.00
ASD014	141	144	3.00
ASD014	144	147	3.00
ASD014	147	150	3.00
ASD014	150	153	3.00
ASD014	153	156	3.00
ASD014	156	159	3.00
ASD014	159	162	3.00
ASD014	162	165	3.00
ASD014	165	168	3.00
ASD014	168	171	3.00
ASD014	171	174	3.00
ASD014	174	177	3.00

2.95	98.33
3.07	102.33
2.95	98.33
3.04	101.33
3.00	100.00
2.85	95.00
3.00	100.00
2.94	98.00
3.03	101.00
3.00	100.00
3.03	101.00
3.01	100.33
2.97	99.00
3.01	100.33

2.89	97.97	2
3.07	100.00	3
2.12	71.86	11
2.94	96.71	4
1.80	60.00	30
1.75	61.40	30
2.95	98.33	7
2.64	89.80	5
3.03	100.00	3
2.98	99.33	1
2.96	97.69	2
3.01	100.00	1
2.57	86.53	5
2.95	98.01	1

ARDIDEN LIMITED

Hole No.	ASD014					Date:	3 Oct 2018			
Geologist:	AJR		Core Box Intervals							
Box #	From	To		Box #	From	To		Box #	From	To
1	2.1	5.9		45	0			89		
2	5.9	9.7		46	0			90		
3	9.7	13.6		47	0			91		
4	13.6	17.6		48	0			92		
5	17.6	21.8		49	0			93		
6	21.8	26.0		50	0			94		
7	26.0	29.9		51	0			95		
8	29.9	34.4		52	0			96		
9	34.4	38.7		53	0			97		
10	38.7	43.0		54	0			98		
11	43.0	47.3		55	0			99		
12	47.3	51.6		56	0			100		
13	51.6	55.8		57	0			101		
14	55.8	60.0		58	0			102		
15	60.0	64.3		59	0			103		
16	64.3	68.5		60	0			104		
17	68.5	72.8		61	0			105		
18	72.8	77.0		62	0			106		
19	77.0	81.3		63	0			107		
20	81.3	85.6		64	0			108		
21	85.6	89.9		65	0			109		
22	89.9	94.06		66	0			110		
23	94.1	98.2		67	0			111		
24	98.2	102.25		68	0			112		
25	102.3	106.46		69	0			113		
26	106.5	110.77		70	0			114		
27	110.8	115		71	0			115		
28	115.0	119.3		72	0			116		
29	119.3	123.57		73	0			117		
30	123.6	127.83		74	0			118		
31	127.8	132		75	0			119		
32	132.0	136.35		76	0			120		
33	136.4	140.62		77	0			121		
34	140.6	144.71		78	0			122		
35	144.7	148.9		79	0			123		
36	148.9	152.95		80	0			124		
37	153.0	157.08		81	0			125		
38	157.1	161.35		82	0			126		
39	161.4	165.57		83	0			127		
40	165.6	169.9		84	0			128		
41	169.9	174.05		85	0			129		
42	174.1	177		86	0			130		
				87	0			131		
				88	0			132		

SAMPLE & SPECIFIC GRAVITY LOGS													
Hole ID:	ASD014	Sampled by: AJR				DATE:	3 Oct 2018						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG	
E5564325	ASD014	25.00	26.00	1.00									
E5564326	ASD014	26.00	26.98	0.98									
E5564327	ASD014	26.98	27.28	0.30									
E5564328	ASD014	27.28	28.28	1.00									
E5564329	ASD014	28.28	29.28	1.00									
E5564330	ASD014	64.80	65.80	1.00									
E5564331	ASD014			0.00	Blank								
E5564332	ASD014	65.80	66.80	1.00									
E5564333	ASD014	66.80	67.80	1.00									
E5564334	ASD014	67.80	68.80	1.00									
E5564335	ASD014	68.80	69.88	1.08									
E5564336	ASD014	69.88	70.88	1.00									
E5564337	ASD014	70.88	72.00	1.12									
E5564338	ASD014	117.36	118.36	1.00									
E5564339	ASD014			0.00	Standard	Oreas 147							
E5564340	ASD014	118.36	119.36	1.00									
E5564341	ASD014	119.36	119.95	0.59									
E5564342	ASD014	119.95	120.92	0.97									
E5564343	ASD014	120.92	122.00	1.08									
E5564344	ASD014	122.00	123.00	1.00									
E5564345	ASD014	131.00	132.50	1.50									
E5564346	ASD014	132.50	134.00	1.50									
E5564347	ASD014	134.00	135.50	1.50									
E5564348	ASD014	135.50	137.00	1.50									
E5564349	ASD014	137.00	138.50	1.50									
E5564350	ASD014	138.50	140.00	1.50									
E5564351	ASD014			0.00	Blank								
E5564352	ASD014	140.00	141.50	1.50									
E5564353	ASD014	141.50	142.45	0.95									
E5564354	ASD014	142.45	143.30	0.85									
E5564355	ASD014	143.30	144.00	0.70									
E5564356	ASD014			0.00	Standard	Oreas 149							
E5564357	ASD014	144.00	144.80	0.80									
E5564358	ASD014	144.80	146.30	1.50									
E5564359	ASD014	146.30	147.60	1.30									
E5564360	ASD014	146.30	147.60	1.30	FD	E5564359							
E5564361	ASD014	147.60	149.00	1.40									
E5564362	ASD014	149.00	150.50	1.50									
E5564363	ASD014	150.50	152.00	1.50									
E5564364	ASD014	152.00	153.50	1.50									
E5564365	ASD014	153.50	155.00	1.50									

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonised	AD	Albite	BT	Biotite	MA	Massive	R	Weak	PEP	Plagioclase, equigranular, fine-grained (1-20mm), "aplitic" (clastic)	DR	Dark	SLR	Slaty	W	Weak
CC			Loose Core	APT	Apatite	CB	Chalcopyrite	PC	Partly	M	Medium	PEM	Plagioclase, equigranular, medium-grained (2-5mm), "microcrystic"	CS	Light	BD	Banded	M	Medium
S			Subvolcanic (including chemical sands)	AV	Arsenopyrite	CH	Chloritic	PN	Perseverance	S	Strong	PGC	Plagioclase, coarse to "glass" granitic but not distinctly porphyritic	BL	Black	BOU	Boudinaged	S	Strong
U			Undifferentiated (not for epizone tuffs)	AT	Actinolite	EP	Epithermal	SD	Subdued	W	Weak	PPF	Plagioclase, distinct phenocrysts in fine-grained matrix	BR	Brown	BRN	Brown	W	Weak
S			Subvolcanic (undifferentiated)	AV	Arsenopyrite	FE	Ferrous oxide	HS	Hot	V	Variable	PGC	Plagioclase, glass phenocrysts in coarse-grained matrix	BLU	Blue	BR	Brecciated	V	Variable
H			Hot (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	DC	Decreasing	PAG	Plagioclase, alternating bands (1-25cm) of aplitic and coarse-grained rock	BRN	Brown	BA	Basaltic breccia	DC	Decreasing
B			Bary	BE	Beryl	HM	Hornblende	WR	Wegener	IN	Increasing	AMS	Amphibolite	GRN	Green	BRN	Brown	IN	Increasing
BL			Black	CB	Chalcopyrite	QCC	Quartz-carbonate	VR	Veining			BD	Banded	GRY	Grey	BR	Brecciated		
S			Subvolcanic (primary porphy)	CT	Cristobalite	SR	Sericite					BD	Banded	FRK	Frank	BR	Brecciated		
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill					BD	Banded	FRK	Frank	BR	Brecciated		
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill					BD	Banded	FRK	Frank	BR	Brecciated		
C			Chert (10% magnetite banding)	CP	Chalcopyrite	TRC	Tricarbonate					BD	Banded	FRK	Frank	BR	Brecciated		
T			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite					BDU	Boudinaged	FRK	Frank	BR	Brecciated		
M			>1% magnetite or sulphides	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
S			Subvolcanic (secondary porphy)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
B			Banded Iron Formation (10% magnetite or secondary sulphides)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
P			Pyroclastic, magnetite only	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
S			Subvolcanic (primary porphy)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
Subvolcanic																			
P			Feilaka porphyry	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
V			Volcanic undifferentiated	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
X			Extrusive	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
B			Basaltic	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
F			Flow (basalt)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
B			Brecciated	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		
D			Duress (undifferentiated)	EP	Epithermal							BR	Brecciated	FRK	Frank	BR	Brecciated		

Project:	Seymour Lake		
Prospect:	North Aubrey		
Claim #:			
Hole ID:	ASD015		
Start Date:	4 Oct 2018		
End Date:	5 Oct 2018		
EOH Depth:	96m		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585110.7	m
	UTM East:	397116.02	m
	Elevation:	385.43	m
	Dip:	-85	at setup
	Az:	0	at setup
	Collar Survey Method:	<i>iSxBlue</i>	
	Surveyed by:	<i>kkp</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	96	BTW	
Drill comments (issues, casing, gear in hole): 3m casing plus shoe left in hole			
Geology comments:			

GEOLOGICAL CORE LOG

Date Logged: 6 Oct 2018		EDH called by:														EDH Reason:						
Geologist: A Richardson																						
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
ASD015	0.00	3.20				CB																
ASD015	3.20	80.16				MWBp	pl							ch	pr	w	vnq	5				
ASD015	80.16	83.34			ll	FICPsp	pgc	mc	sp	qtz	ms	25	25									
ASD015	83.34	83.84			dk	FICPmu	pgc	ms	qtz													
ASD015	83.84	85.42			ll	FICPM	pgc	mc	qtz													
ASD015	85.42	85.93			gy	FICPwz	pgc	qtz	ms	mc												
ASD015	85.93	87.81			ll	FICPM	pgc	mc	qtz	ms												
ASD015	87.81	94.00			gm	MSWp	pl							ch	pr	w	vnq	2				
ASD015																						
ASD015																						
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ARDIDEN LIMITED

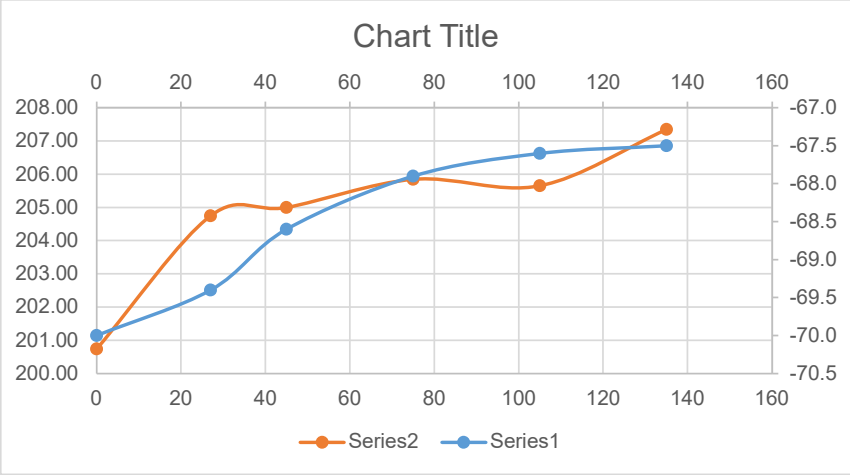
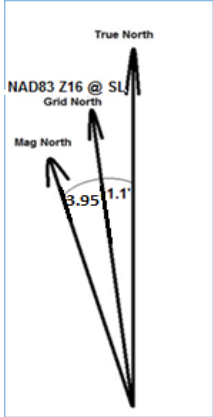
Hole No.	ASD015					Date:	6 Oct 2018			
Geologist:	AJR		Core Box Intervals							
Box #	From	To		Box #	From	To		Box #	From	To
1	3.4	6.8		45				89		
2	6.8	10.9		46				90		
3	10.9	15.3		47				91		
4	15.3	19.5		48				92		
5	19.5	23.8		49				93		
6	23.8	28.0		50				94		
7	28.0	32.5		51				95		
8	32.5	36.8		52				96		
9	36.8	41.1		53				97		
10	41.1	45.5		54				98		
11	45.5	49.8		55				99		
12	49.8	54.0		56				100		
13	54.0	58.4		57				101		
14	58.4	62.7		58				102		
15	62.7	67.0		59				103		
16	67.0	71.4		60				104		
17	71.4	75.6		61				105		
18	75.6	79.9		62				106		
19	79.9	84.0		63				107		
20	84.0	88.2		64				108		
21	88.2	92.2		65				109		
22	92.2	96		66				110		
23	96.0			67				111		
24	0.0			68				112		
25				69				113		
26				70				114		
27				71				115		
28				72				116		
29				73				117		
30				74				118		
31				75				119		
32				76				120		
33				77				121		
34				78				122		
35				79				123		
36				80				124		
37				81				125		
38				82				126		
39				83				127		
40				84				128		
41				85				129		
42				86				130		
43				87				131		
44				88				132		

SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD015	Sampled by: AJR				DATE:	6 Oct 2018					
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5564366	ASD015	70.00	71.50	1.50								
E5564367	ASD015	71.50	73.00	1.50								
E5564368	ASD015	73.00	74.50	1.50								
E5564369	ASD015	74.50	76.00	1.50								
E5564370	ASD015	76.00	77.50	1.50								
E5564371	ASD015			0.00	Blank							
E5564372	ASD015	77.50	79.00	1.50								
E5564373	ASD015	79.00	80.16	1.16								
E5564374	ASD015	80.16	81.00	0.84								
E5564375	ASD015	81.00	82.00	1.00								
E5564376	ASD015	82.00	82.60	0.60								
E5564377	ASD015	82.60	83.34	0.74								
E5564378	ASD015	83.34	83.84	0.50								
E5564379	ASD015			0.00	Standard	Oreas 147						
E5564380	ASD015	83.84	84.84	1.00								
E5564381	ASD015	84.84	85.42	0.58								
E5564382	ASD015	85.42	85.93	0.51								
E5564383	ASD015	85.93	86.85	0.92								
E5564384	ASD015	86.85	87.81	0.96								
E5564385	ASD015	87.81	89.00	1.19								
E5564386	ASD015	89.00	90.50	1.50								
E5564387	ASD015	90.50	92.00	1.50								
E5564388	ASD015	92.00	93.50	1.50								
E5564389	ASD015	93.50	95.00	1.50								
E5564390	ASD015	95.00	96.00	1.00								
E5564391	ASD015			0.00	Blank							

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonation	AD	Asbestos	BT	Biotite	MA	Muscovite	W	Weak	PEP	Pyroclastic, equigranular, fine-grained (1-2mm), "aplitic" (clayey)	DR	Dark	CB	Carbonated	W	Weak
CC			Loose Core	APT	Apophite	CB	Carbonate	PC	Porphyry	M	Medium	PEM	Pyroclastic, equigranular, medium-grained (2-5mm), "microcrystic"	CS	Light	CB	Carbonated	M	Medium
S			Subvolcanic (including chemical sands)	AVP	Arsenopyrite	CH	Chloritic	PN	Perthite	S	Strong	PGC	Pyroclastic, coarse to "glass" granular but not distinctly porphyritic	BL	Black	BL	Boudinaged	S	Strong
U			Undifferentiated (not for apititic tuffs)	AT	Atacamite	EP	Epithermal	SD	Sulfidated	W	Weak	PPF	Pyroclastic, distinct phenocrysts in fine-grained matrix	BR	Brown	BR	Brown	W	Weak
S			Subvolcanic (undifferentiated)	AU	Auriferous Sulfide	FE	Ferrous Sulfide	HS	Hyaloclastite	V	Variable	PGC	Pyroclastic, glass phenocrysts in coarse-grained matrix	BLU	Blue	BR	Brown	W	Weak
H			Hydrothermal (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	Dec	Decreasing	PAE	Pyroclastic, alternating bands (1-25cm) of aplitic and coarse-grained rock	BRN	Brown	BR	Autobreccia	Dec	Decreasing
B			Banded	BT	Biotite	QCC	Quartz-carbonate	WR	Wegenerite	Inc	Increasing	AMS	Amphibolite	GRN	Green	BR	Hydrothermal breccia	Inc	Increasing
S			Sulphide (primary perite)	CB	Carbonate	QCC	Quartz-carbonate	WR	Wegenerite	Inc	Increasing	BD	Banded	GRY	Grey	BR	Tectonic breccia	Inc	Increasing
G			Granulite (undifferentiated)	EST	Eastonite	SR	Sericite	BD	Banded	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sillite	BD	Banded	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
C			Chert (10% magnetite banding)	CP	Chalcopyrite	TRC	Tricarbonate	BD	Banded	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
T			<1% magnetite or sulphides	COL	Columbite	TAC	Talc-chlorite	BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
M			>1% magnetite or sulphides	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
S			Sulphide (secondary perite)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
B			Banded Iron Formation (10% magnetite or secondary sulphides)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
S			Sulphide (magnetite only)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
S			Sulphide (primary perite)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
Subvolcanic																			
P			Feldspar porphyry	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
V			Volcanic undifferentiated	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
X			Basaltic	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
B			Basaltic	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
RD			Rhyodacitic	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Tuff undifferentiated	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			(glimbra)/Flow Tuff (Flamme)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Ashfall Tuff (2mm)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Capill-Ash Tuff (2-4mm)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Agglomerate Tuff (2-4mm)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Agglomerate Tuff (4-6mm)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Hyaloclastite (Volcanic Breccia)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Flow (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Epitaxial (in-worked)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Intrusive	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Dacite	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Dacite (Plagioclase rich)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
			Trachyte (Alkali Feldspar rich)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
Subvolcanic																			
P			Mafic Porphyry (Mg, Ni, Fe, chromocyclic)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
V			Volcanic undifferentiated	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
X			Basaltic	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
B			Basaltic	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
F			Flow (Basalt)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
B			Basaltic	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	Increasing
D			Dacite (Hyoclast)	EP	Epithermal			BDU	Boudinaged	Inc	Increasing	INT	Interbedded	FRK	Pink	CH	Chlorite	Inc	

Project:	Seymour Lake		
Prospect:	North Aubrey		
Claim #:			
Hole ID:	ASD016		
Start Date:	6 Oct 2018		
End Date:	9 Oct 2018		
EOH Depth:	135		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585135.49	m
	UTM East:	397175.7	m
	Elevation:	390.298	m
	Dip:	-70	at setup
	Az:	200	at setup
	Collar Survey Method:	<i>iSxBlue</i>	
	Surveyed by:	<i>kkp</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	135	BTW	
Drill comments (issues, casing, gear in hole): 3m casing plus shoe left in hole			
Geology comments:			

LOGGED BY:		Magnetic Declination:		3.95	West				
BHID	Depth (m)	Dip	Az (TN)	Az (Mag)	Az (NAD83)	Az (NAD83 Used)	Mag Sus (nT)	Survey Tool	Geo/Driller Comments
ASD016	0	-70.0	199.64		200.7	200.74		APS	
ASD016	27	-69.4			208.7	204.8	5709.00	Reflex	
ASD016	45	-68.6			219.1	215.2	5580.00	Reflex	Seems low mag high Az
ASD016	75	-67.9			209.8	205.9	5709.00	Reflex	
ASD016	105	-67.6			209.6	205.7	5699.00	Reflex	
ASD016	135	-67.5			211.3	207.4	N/A	Reflex	Photo missing MAG
ASD016									
ASD016									
ASD016									
ASD016									
ASD016									
ASD016									
ASD016									
ASD016									
ASD016									



GEOLOGICAL CORE LOG

Date Logged: 6 Oct 2018 EOH called by:

Geologist: A Richardson EOH Reason:

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments
ASD016	0.00	1.10				cb															
ASD016	1.10	99.30			gm	MXBp	pl							ch	prv	w	vnc	20	fa	w	
ASD016	99.30	101.10			dk	MXBp								ch	prv	w	vnc	20	FLT	S	minor gouge
ASD016	101.10	116.40			gm	MXBp	pl							ch	prv	w					
ASD016	116.40	117.54			wh	FICPM	pgc	mc	ms	qtz											
ASD016	117.54	120.15			gm	MXBp	pl							ch	prv	w					
ASD016	120.15	120.61			ll	FICPM	pgc	mc	ms												
ASD016	120.61	130.10			gm	MV	fa							ch	prv	w					
ASD016	130.10	130.28			ll	FICPM	pgc	mc	qtz	ms											
ASD016	130.28	135.00			gm	MV	fa							ch	prv	w					

ASD016					
ASD016					
ASD016					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD016	3	6	3.00	2.99	99.67	2.70	90.30	7
ASD016	6	9	3.00	3.04	101.33	2.89	95.07	5
ASD016	9	12	3.00	3.08	102.67	2.99	97.08	4
ASD016	12	15	3.00	3.02	100.67	2.83	93.71	6
ASD016	15	18	3.00	2.88	96.00	2.81	97.57	4
ASD016	18	21	3.00	3.10	103.33	2.74	88.39	7
ASD016	21	24	3.00	2.72	90.67	2.72	100.00	3
ASD016	24	27	3.00	3.26	108.67	2.95	90.49	6
ASD016	27	30	3.00	2.99	99.67	2.43	81.27	11
ASD016	30	33	3.00	3.12	104.00	2.95	94.55	5
ASD016	33	36	3.00	2.98	99.33	2.81	94.30	6
ASD016	36	39	3.00	3.03	101.00	2.87	94.72	6
ASD016	39	42	3.00	3.06	102.00	2.95	96.41	4
ASD016	42	45	3.00	2.93	97.67	2.68	91.47	4
ASD016	45	48	3.00	3.02	100.67	2.88	95.36	4
ASD016	48	51	3.00	2.84	94.67	2.60	91.55	5
ASD016	51	54	3.00	3.35	111.67	3.35	100.00	4
ASD016	54	57	3.00	2.87	95.67	2.81	97.91	5
ASD016	57	60	3.00	3.12	104.00	2.65	84.94	9
ASD016	60	63	3.00	3.08	102.67	3.01	97.73	5
ASD016	63	66	3.00	3.02	100.67	3.02	100.00	0
ASD016	66	69	3.00	2.99	99.67	2.99	100.00	0
ASD016	69	72	3.00	2.94	98.00	2.94	100.00	2
ASD016	72	75	3.00	2.98	99.33	2.98	100.00	1
ASD016	75	78	3.00	3.04	101.33	3.04	100.00	0
ASD016	78	81	3.00	2.99	99.67	2.99	100.00	2
ASD016	81	84	3.00	2.93	97.67	2.93	100.00	0
ASD016	84	87	3.00	2.97	99.00	2.97	100.00	4
ASD016	87	90	3.00	2.98	99.33	2.98	100.00	4
ASD016	90	93	3.00	3.04	101.33	2.89	95.07	9
ASD016	93	96	3.00	3.00	100.00	3.00	100.00	1
ASD016	96	99	3.00	2.97	99.00	2.87	96.63	11
ASD016	99	102	3.00	3.00	100.00	1.51	50.33	22
ASD016	102	105	3.00	2.98	99.33	2.98	100.00	2
ASD016	105	108	3.00	2.92	97.33	2.92	100.00	4
ASD016	108	111	3.00	3.02	100.67	3.02	100.00	3
ASD016	111	114	3.00	2.99	99.67	2.99	100.00	1
ASD016	114	117	3.00	2.95	98.33	2.65	89.83	9
ASD016	117	120	3.00	2.94	98.00	2.59	88.10	5
ASD016	120	123	3.00	2.81	93.67	2.23	79.36	20
ASD016	123	126	3.00	2.92	97.33	2.55	87.33	17
ASD016	126	129	3.00	2.89	96.33	1.59	55.02	35
ASD016	129	132	3.00	3.03	101.00	3.03	100.00	3
ASD016	132	135	3.00	2.99	99.67	2.99	100.00	4

ARDIDEN LIMITED

Hole No.	ASD015					Date:	6 Oct 2018			
Geologist:	AJR		Core Box Intervals							
Box #	From	To		Box #	From	To		Box #	From	To
1	2.00	4.92		45				89		
2	4.92	9.27		46				90		
3	9.27	13.55		47				91		
4	13.55	17.92		48				92		
5	17.92	22.00		49				93		
6	22.00	26.45		50				94		
7	26.45	30.78		51				95		
8	30.78	34.92		52				96		
9	34.92	39.18		53				97		
10	39.18	43.45		54				98		
11	43.45	47.76		55				99		
12	47.76	52.28		56				100		
13	52.28	56.32		57				101		
14	56.32	60.37		58				102		
15	60.37	64.75		59				103		
16	64.75	69.00		60				104		
17	69.00	73.32		61				105		
18	73.32	77.70		62				106		
19	77.70	81.95		63				107		
20	81.95	86.27		64				108		
21	86.27	90.48		65				109		
22	90.48	94.83		66				110		
23	94.83	99.00		67				111		
24	99.00	103.00		68				112		
25	103.00	107.23		69				113		
26	107.23	111.55		70				114		
27	111.55	115.86		71				115		
28	115.86	120.17		72				116		
29	120.17	124.37		73				117		
30	124.37	128.22		74				118		
31	128.22	132.55		75				119		
32	132.55	135.00		76				120		
				77				121		
				78				122		
				79				123		
				80				124		
				81				125		
				82				126		
39				83				127		
40				84				128		
41				85				129		
42				86				130		
43				87				131		
44				88				132		

SAMPLE & SPECIFIC GRAVITY LOGS												
Hole ID:	ASD016	Sampled by: AJR				DATE: 6 Oct 2018						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG
E5564392	ASD016	113.50	115.00	1.50								
E5564393	ASD016	115.00	116.40	1.40								
E5564394	ASD016	116.40	117.00	0.60								
E5564395	ASD016	117.00	117.54	0.54								
E5564396	ASD016			0.00	Standard	Oreas 149						
E5564397	ASD016	117.54	119.00	1.46								
E5564398	ASD016	119.00	120.15	1.15								
E5564399	ASD016	119.00	120.15	1.15	FD	E5564398						
E5564400	ASD016	120.15	120.61	0.46								
E5564401	ASD016	120.61	122.00	1.39								
E5564402	ASD016	122.00	123.00	1.00								
E5564403	ASD016	128.00	129.00	1.00								
E5564404	ASD016	129.00	130.10	1.10								
E5564405	ASD016	130.10	130.28	0.18								
E5564406	ASD016	130.28	131.00	0.72								
E5564407	ASD016	131.00	132.00	1.00								

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonation																
CC			Loose Core																
S			Subvolcanic (including chemical sands)																
U			Undifferentiated (not for epithermal tuffs)																
S			Sandstone (undifferentiated)																
H			Shale (undifferentiated)																
B			Block																
S			Sulphide (primary perite)																
G			Carbongrate (undifferentiated)																
C			Chert (20% magnetite banding)																
T			<1% magnetite or sulphides																
M			<1% magnetite or sulphides																
S			Sulphide (secondary perite)																
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)																
B			Banded Iron Formation (0-10% magnetite or secondary sulphides)																
S			Sulphides, magnetite only																
S			Sulphide (primary perite)																
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)																
			Silicic																
P			Feldspar porphyry																
V			Volcanics undifferentiated																
X			Basaltic																
B			Basaltic																
RD			Rhyodacitic																
			Tuff undifferentiated																
			(glimbra)/Flow Tuff (Flamme)																
			Ashfall Tuff (2mm)																
			Capill-Ash Tuff (2-4mm)																
			Agglomerate Tuff (2-4mm)																
			Hyaloclastite (Volcanic Breccia)																
			Flow (Hyoclast)																
			Epitaxial (newwork)																
			Intrusive																
			Dacite																
			Undifferentiated																
			Granodiorite (plagioclase rich)																
			Granodiorite with sulphide stringers/quartz veining																
			Andes (flow gneiss 1.5mm)																
			Tonalite (quartz rich >20%)																
			Gneiss-Granitic																
			Granodiorite with sulphide stringers/quartz veining																
			Diabase																
			Dacite (Plagioclase rich)																
			Trachyte (Ashfall Feldspar rich)																
			Mafic																
			Mafic Porphyry (Mg-Mg/Al, phenocrystic)																
			Volcanics undifferentiated																
			Basaltic																
			Flow (Basalt)																
			Intrusive																
			Tuff undifferentiated																
			Epitaxial (newwork)																
			Quartzite/Diabase																
			Diabase																
			Intrusive																
			Basaltic																
			Diabase/Diabase																
			Silicic																
			Subvolcanic																
			Volcanics undifferentiated																
			Basaltic																
			Remotite																
			Granulites undifferentiated																
			Flow Top Breccia																
			Spriffles Zone																
			Liquid (Olivine poor, matrix >50%)																
			Orthocumulate (Olivine 50-75%)																
			Mesocumulate (Olivine 75-95%)																
			Adominate (Olivine 95%)																
			Basal Chert Zone																
			Pyroxenite (High Magnesium Basalt)																
			Flow Top Breccia																
			Cumulates undifferentiated																
			Basal Chert Zone																
			Basaltic																
			Dacite (Olivine rich)																
			Pyroxenite (Pyroxene rich)																
			Pyroxenite (perov)																
			Basaltic Breccia																
			Quartz-biotite schist w/ garnet, amphibole (metased or meta tuff)																
			Amphibolite (quartz amphibole w/ biotite garnet (metased or mafic))																
			Talc-Carbonate rock (Typically meta Komatiite)																
			Tremolite-Chlorite rock (Typically meta Pyroxenite)																
			Tremolite-Actinolite rock (Typically meta Ni-Mag Basaltic)																
			Massive serpentinite																

Intramafic sequence (T2) to form carbonate alteration. Look for primary textures	
to differentiate between olivine / pyroxene contents, if possible, if unable to	
Identify the primary rock, use the codes below, only if necessary	
trh	Talc-Carbonate altered (usually Komatiitic)
trc	Tremolite-Chlorite altered (usually Pyroxenitic)
tra	Tremolite-Actinolite altered (Ni-Mag Basaltic)

Project:	Seymour Lake		
Prospect:	North Aubrey		
Claim #:			
Hole ID:	ASD017		
Start Date:	9 Oct 2018		
End Date:	11 Oct 2018		
EOH Depth:	159		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585211.43	m
	UTM East:	397199.29	m
	Elevation:	386.076	m
	Dip:	-70	at setup
	Az:	200	at setup
	Collar Survey Method:	<i>iSxBlue</i>	
	Surveyed by:	<i>kkp</i>	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	159	BTW	
Drill comments (issues, casing, gear in hole): 6m casing plus a shoe left in hole			
Geology comments:			

GEOLOGICAL CORE LOG

Date Logged: 10 Oct 2018 EDH called by: EDH Reason:

Geologist: Adam Richardson

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments
AS0017	0.00	6.05				OB															
AS0017	6.05	112.94				MXBp	pl							ch	prv	w	vnc	2			
AS0017	112.94	114.39			wh	FIGPM	PGC	mc	qt	ms											
AS0017	114.39	114.84			wh	FIGPp	PGC	mc	qt	sp		10	10								
AS0017	114.84	115.43			wh	FIGPM	pgc	mc	qt	sp											
AS0017	115.43	119.87			wh	FIGPp	pgc	mc	qt	sp	ms	10	10								
AS0017	119.87	120.59			wh	FIGPM	pgc	mc													
AS0017	120.59	126.74			k	FIGPp	pgc	sp	ms	sp	mc	20	10								
AS0017	126.74	128.00			prk	FIGPp	pgc	mc	qt	ms											
AS0017	128.00	146.08			gn	MV								ch	prv	w	vnc				
AS0017	146.08	159.00			gn	MXBp								ch	prv	w	vnc	5			

ASD017					
ASD017					
ASD017					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD017	6	9	3.00	2.92	97.33	2.52	86.30	11
ASD017	9	12	3.00	2.98	99.33	2.90	97.32	6
ASD017	12	15	3.00	2.98	99.33	2.73	91.61	7
ASD017	15	18	3.00	3.06	102.00	3.02	98.69	7
ASD017	18	21	3.00	2.99	99.67	2.99	100.00	1
ASD017	21	24	3.00	2.97	99.00	2.97	100.00	3
ASD017	24	27	3.00	3.06	102.00	3.06	100.00	4
ASD017	27	30	3.00	2.98	99.33	2.98	100.00	6
ASD017	30	33	3.00	2.98	99.33	2.98	100.00	3
ASD017	33	36	3.00	3.04	101.33	3.04	100.00	3
ASD017	36	39	3.00	3.00	100.00	3.00	100.00	1
ASD017	39	42	3.00	3.03	101.00	3.03	100.00	4
ASD017	42	45	3.00	2.96	98.67	2.96	100.00	3
ASD017	45	48	3.00	3.02	100.67	2.94	97.35	3
ASD017	48	51	3.00	2.98	99.33	2.90	97.32	1
ASD017	51	54	3.00	2.92	97.33	2.84	97.26	3
ASD017	54	57	3.00	2.98	99.33	2.98	100.00	1
ASD017	57	60	3.00	2.93	97.67	2.93	100.00	1
ASD017	60	63	3.00	3.02	100.67	3.02	100.00	2
ASD017	63	66	3.00	3.04	101.33	3.04	100.00	4
ASD017	66	69	3.00	2.86	95.33	2.86	100.00	3
ASD017	69	72	3.00	3.10	103.33	2.89	93.23	4
ASD017	72	75	3.00	2.95	98.33	2.95	100.00	3
ASD017	75	78	3.00	2.95	98.33	2.90	98.31	4
ASD017	78	81	3.00	2.98	99.33	2.98	100.00	1
ASD017	81	84	3.00	3.03	101.00	3.03	100.00	3
ASD017	84	87	3.00	2.95	98.33	2.89	97.97	5
ASD017	87	90	3.00	3.02	100.67	3.00	99.34	1
ASD017	90	93	3.00	3.07	102.33	3.07	100.00	1
ASD017	93	96	3.00	3.05	101.67	3.05	100.00	1
ASD017	96	99	3.00	2.93	97.67	2.78	94.88	3
ASD017	99	102	3.00	2.98	99.33	2.98	100.00	2
ASD017	102	105	3.00	3.02	100.67	2.98	98.68	2
ASD017	105	108	3.00	3.01	100.33	2.85	94.68	4
ASD017	108	111	3.00	3.06	102.00	2.97	97.06	3
ASD017	111	114	3.00	3.03	101.00	2.95	97.36	3
ASD017	114	117	3.00	3.03	101.00	2.36	77.89	7
ASD017	117	120	3.00	3.04	101.33	2.44	80.26	6
ASD017	120	123	3.00	3.03	101.00	3.03	100.00	5
ASD017	123	126	3.00	3.10	103.33	3.10	100.00	3
ASD017	126	129	3.00	2.76	92.00	2.06	74.64	16
ASD017	129	132	3.00	2.98	99.33	2.98	100.00	3
ASD017	132	135	3.00	3.07	102.33	3.07	100.00	4
ASD017	135	138	3.00	3.04	101.33	3.04	100.00	2

ASD017	138	141	3.00
ASD017	141	144	3.00
ASD017	144	147	3.00
ASD017	147	150	3.00
ASD017	150	153	3.00
ASD017	153	156	3.00
ASD017	156	159	3.00

3.02	100.67
3.00	100.00
3.03	101.00
2.97	99.00
3.03	101.00
2.96	98.67
3.02	100.67

3.02	100.00
2.97	99.00
2.99	98.68
2.87	96.63
3.03	100.00
2.81	94.93
2.94	97.35

1
1
4
1
1
5
1

ARDIDEN LIMITED

Hole No.	ASD017					Date:	10 Oct 2018			
Geologist:	AJR		Core Box Intervals							
Box #	From	To		Box #	From	To		Box #	From	To
1	6.1	8.3		45				89		
2	8.3	12.6		46				90		
3	12.6	17.0		47				91		
4	17.0	21.1		48				92		
5	21.1	25.5		49				93		
6	25.5	29.8		50				94		
7	29.8	34.1		51				95		
8	34.1	38.3		52				96		
9	38.3	41.2		53				97		
10	41.2	45.3		54				98		
11	45.3	49.6		55				99		
12	49.6	53.9		56				100		
13	53.9	58.0		57				101		
14	58.0	62.2		58				102		
15	62.2	66.2		59				103		
16	66.2	70.5		60				104		
17	70.5	74.7		61				105		
18	74.7	78.9		62				106		
19	78.9	83.2		63				107		
20	83.2	87.4		64				108		
21	87.4	91.7		65				109		
22	91.7	95.9		66				110		
23	95.9	100.22		67				111		
24	100.2	104.6		68				112		
25	104.6	108.85		69				113		
26	108.9	113.15		70				114		
27	113.2	117.36		71				115		
28	117.4	121.65		72				116		
29	121.7	125.85		73				117		
30	125.9	130.2		74				118		
31	130.2	134.5		75				119		
32	134.5	138.7		76				120		
33	138.7	143.1		77				121		
34	143.1	147.2		78				122		
35	147.2	151.59		79				123		
36	151.6	155.91		80				124		
37	155.9	159		81				125		
				82				126		
				83				127		
				84				128		
				85				129		
				86				130		
				87				131		
				88				132		

SAMPLE & SPECIFIC GRAVITY LOGS													
Hole ID:	ASD017	Sampled by: AJR				DATE:	10 Oct 2018						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG	
E5564408	ASD017	102.00	103.50	1.50									
E5564409	ASD017	103.50	105.00	1.50									
E5564510	ASD017	105.00	106.50	1.50									
E5564511	ASD017				Blank								
E5564512	ASD017	106.50	108.00	1.50									
E5564513	ASD017	108.00	109.50	1.50									
E5564514	ASD017	109.50	111.00	1.50									
E5564515	ASD017	111.00	112.00	1.00									
E5564516	ASD017				Standard	Oreas 149							
E5564517	ASD017	112.00	112.94	0.94									
E5564518	ASD017	112.94	113.90	0.96									
E5564519	ASD017	112.94	113.90	0.96	Fd	E5564518							
E5564520	ASD017	113.90	114.39	0.49									
E5564521	ASD017	114.39	114.84	0.45									
E5564522	ASD017	114.84	115.43	0.59									
E5564523	ASD017	115.43	116.43	1.00									
E5564524	ASD017	116.43	117.43	1.00									
E5564525	ASD017	117.43	118.20	0.77									
E5564526	ASD017	118.20	118.90	0.70									
E5564527	ASD017	118.90	119.87	0.97									
E5564528	ASD017	119.87	120.59	0.72									
E5564529	ASD017	120.59	121.50	0.91									
E5564530	ASD017	121.50	122.50	1.00									
E5564531	ASD017				Blank								
E5564532	ASD017	122.50	123.50	1.00									
E5564533	ASD017	123.50	124.50	1.00									
E5564534	ASD017	124.50	125.50	1.00									
E5564535	ASD017	125.50	126.00	0.50									
E5564536	ASD017	126.00	126.74	0.74									
E5564537	ASD017	126.74	127.30	0.56									
E5564538	ASD017	127.30	128.00	0.70									
E5564539	ASD017				Standard	Oreas 147							
E5564540	ASD017	128.00	129.50	1.50									
E5564541	ASD017	129.50	131.00	1.50									
E5564542	ASD017	131.00	132.50	1.50									
E5564543	ASD017	132.50	134.00	1.50									
E5564544	ASD017	134.00	135.50	1.50									
E5564545	ASD017	135.50	137.00	1.50									
E5564546	ASD017	137.00	138.00	1.00									

Project:	Seymour Lake		
Prospect:	North Aubrey		
Claim #:			
Hole ID:	ASD018		
Start Date:	11 Oct 2018		
End Date:	13 Oct 2018		
EOH Depth:	150m		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585211.3	m
	UTM East:	397199.56	m
	Elevation:	386.329	m
	Dip:	-85	at setup
	Az:	206 mag	at setup
	Collar Survey Method:		
	Surveyed by:		
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	150	BTW	
Drill comments (issues, casing, gear in hole): 6m casing plus shoe left in hole			
Geology comments:			

GEOLOGICAL CORE LOG

Date Logged: 13 Oct 2018		EDH called by:															EDH Reason:																
Geologist: Adam Richardson																																	
BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments												
ASD018	0.00	6.50				ob																											
ASD018	6.50	82.00			gm	MXBp	pl							ch	prv	w	vnc	5															
ASD018	82.00	117.72			gm	MXBf	fd							ch	prv	w	vnc	15															
ASD018	117.72	118.72			wh	FICPqr	pgc	qr	ms	mc																							
ASD018	118.72	119.45			pk	FICPM	pgc	mc	qr	ms																							
ASD018	119.45	119.99			wh	FICPqr	pgc	qr	ms	M																							
ASD018	119.99	121.96			pk	FICPM	pgc	mc	qr	ms																							
ASD018	121.96	123.90			pk	FICPqr	pgc	mc	qr	ms	sp	2	25																				
ASD018	123.90	124.63			il	FICPqr	pgc	qr	ms																								
ASD018	124.63	130.15			il	FICPqr	pgc	mc	qr	ms	sp	5	25																				
ASD018	130.15	150.00			gm	MXBf								ch	prv	w	vnc	2															

ASD018					
ASD018					
ASD018					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD018	9	12	3.00	3.06	102.00	3.06	100.00	3
ASD018	12	15	3.00	2.99	99.67	2.99	100.00	1
ASD018	15	18	3.00	3.02	100.67	3.02	100.00	1
ASD018	18	21	3.00	2.99	99.67	2.99	100.00	2
ASD018	21	24	3.00	3.05	101.67	3.05	100.00	0
ASD018	24	27	3.00	3.00	100.00	3.00	100.00	2
ASD018	27	30	3.00	2.95	98.33	2.95	100.00	2
ASD018	30	33	3.00	3.01	100.33	3.01	100.00	0
ASD018	33	36	3.00	2.96	98.67	2.96	100.00	0
ASD018	36	39	3.00	3.05	101.67	2.95	96.72	5
ASD018	39	42	3.00	3.00	100.00	3.00	100.00	2
ASD018	42	45	3.00	3.00	100.00	3.00	100.00	1
ASD018	45	48	3.00	3.02	100.67	3.01	99.67	0
ASD018	48	51	3.00	2.95	98.33	2.95	100.00	0
ASD018	51	54	3.00	3.01	100.33	3.01	100.00	2
ASD018	54	57	3.00	2.93	97.67	2.93	100.00	0
ASD018	57	60	3.00	3.02	100.67	3.02	100.00	1
ASD018	60	63	3.00	3.03	101.00	3.03	100.00	1
ASD018	63	66	3.00	2.98	99.33	2.98	100.00	1
ASD018	66	69	3.00	2.96	98.67	2.96	100.00	2
ASD018	69	72	3.00	2.99	99.67	2.99	100.00	1
ASD018	72	75	3.00	2.97	99.00	2.97	100.00	1
ASD018	75	78	3.00	2.93	97.67	2.93	100.00	0
ASD018	78	81	3.00	3.06	102.00	3.06	100.00	0
ASD018	81	84	3.00	3.02	100.67	3.02	100.00	2
ASD018	84	87	3.00	3.03	101.00	3.03	100.00	2
ASD018	87	90	3.00	3.02	100.67	3.02	100.00	0
ASD018	90	93	3.00	3.02	100.67	3.02	100.00	0
ASD018	93	96	3.00	2.90	96.67	2.90	100.00	0
ASD018	96	99	3.00	3.06	102.00	3.06	100.00	0
ASD018	99	102	3.00	2.98	99.33	2.60	87.25	5
ASD018	102	105	3.00	3.00	100.00	3.00	100.00	0
ASD018	105	108	3.00	3.00	100.00	3.00	100.00	1
ASD018	108	111	3.00	3.03	101.00	3.03	100.00	0
ASD018	111	114	3.00	2.99	99.67	2.99	100.00	0
ASD018	114	117	3.00	2.96	98.67	2.96	100.00	0
ASD018	117	120	3.00	2.79	93.00	1.96	70.25	30
ASD018	120	123	3.00	2.95	98.33	2.61	88.47	12
ASD018	123	126	3.00	2.86	95.33	2.03	70.98	25
ASD018	126	129	3.00	2.89	96.33	1.77	61.25	30
ASD018	129	132	3.00	2.90	96.67	2.65	91.38	10
ASD018	132	135	3.00	2.94	98.00	2.27	77.21	11
ASD018	135	138	3.00	2.96	98.67	2.38	80.41	18
ASD018	138	141	3.00	3.05	101.67	2.85	93.44	6

ASD018	141	144	3.00
ASD018	144	147	3.00
ASD018	147	150	3.00

3.00	100.00
2.91	97.00
3.06	102.00

2.72	90.67
2.86	98.28
3.06	100.00

9
4
3

ARDIDEN LIMITED

Hole No.	ASD018					Date:	13 Oct 2018			
Geologist:	AJR		Core Box Intervals							
Box #	From	To		Box #	From	To		Box #	From	To
1	6.5	8.8		45				89		
2	8.8	12.8		46				90		
3	12.8	17.2		47				91		
4	17.2	21.3		48				92		
5	21.3	25.6		49				93		
6	25.6	29.8		50				94		
7	29.8	34.1		51				95		
8	34.1	38.3		52				96		
9	38.3	42.5		53				97		
10	42.5	46.7		54				98		
11	46.7	51.1		55				99		
12	51.1	55.5		56				100		
13	55.5	59.9		57				101		
14	59.9	64.2		58				102		
15	64.2	68.4		59				103		
16	68.4	72.7		60				104		
17	72.7	77.1		61				105		
18	77.1	81.4		62				106		
19	81.4	85.7		63				107		
20	85.7	89.9		64				108		
21	89.9	94.3		65				109		
22	94.3	98.74		66				110		
23	98.7	102.9		67				111		
24	102.9	107.2		68				112		
25	107.2	111.32		69				113		
26	111.3	115.68		70				114		
27	115.7	120.1		71				115		
28	120.1	124.23		72				116		
29	124.2	128.26		73				117		
30	128.3	132.5		74				118		
31	132.5	136.7		75				119		
32	136.7	141		76				120		
33	141.0	145.17		77				121		
34	145.2	149.5		78				122		
35	149.5	150		79				123		
				80				124		
				81				125		
				82				126		
				83				127		
				84				128		
				85				129		
				86				130		
				87				131		
				88				132		

SAMPLE & SPECIFIC GRAVITY LOGS													
Hole ID:	ASD018	Sampled by: AJR				DATE:	14 Oct 2018						
Sample ID	BHID	From (m)	To (m)	Interval (m)	Standard # / Duplicate	Comments	Rock Type	Core Length (m)	Wet Weight (g)	Dry Weight (g)	Calc SG	Lab SG	
E5564547	ASD018	107.50	109.00	1.50									
E5564548	ASD018	109.00	110.50	1.50									
E5564549	ASD018	110.50	112.00	1.50									
E5564550	ASD018	112.00	113.50	1.50									
E5564551	ASD018				Blank								
E5564552	ASD018	113.50	115.00	1.50									
E5564553	ASD018	115.00	116.50	1.50									
E5564554	ASD018	116.50	117.72	1.22									
E5564555	ASD018	117.72	118.72	1.00									
E5564556	ASD018				Standard	Oreas 149							
E5564557	ASD018	118.72	119.45	0.73									
E5564558	ASD018	119.45	119.93	0.48									
E5564559	ASD018	119.93	120.93	1.00									
E5564410	ASD018	120.93	121.96	1.03									
E5564411	ASD018				Blank								
E5564412	ASD018	121.96	123.00	1.04									
E5564413	ASD018	123.00	123.90	0.90									
E5564414	ASD018	123.90	124.63	0.73									
E5564415	ASD018	124.63	125.10	0.47									
E5564416	ASD018	125.10	125.70	0.60									
E5564417	ASD018	125.70	126.70	1.00									
E5564418	ASD018	126.70	127.70	1.00									
E5564419	ASD018				Standard	Oreas 147							
E5564420	ASD018	127.70	128.70	1.00									
E5564421	ASD018	128.70	129.40	0.70									
E5564422	ASD018	129.40	130.15	0.75									
E5564423	ASD018	130.15	131.50	1.35									
E5564424	ASD018	131.50	133.00	1.50									
E5564425	ASD018	133.00	134.50	1.50									
E5564426	ASD018	134.50	136.00	1.50									
E5564427	ASD018	136.00	137.50	1.50									
E5564428	ASD018	137.50	139.00	1.50									
E5564429	ASD018	139.00	140.50	1.50									

Project:	Seymour Lake		
Prospect:	North Aubrey		
Claim #:			
Hole ID:	ASD018		
Start Date:	11 Oct 2018		
End Date:	13 Oct 2018		
EOH Depth:	150m		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585211.3	m
	UTM East:	397199.56	m
	Elevation:	386.329	m
	Dip:	-85	at setup
	Az:	206 mag	at setup
	Collar Survey Method:		
	Surveyed by:		
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	150	BTW	
Drill comments (issues, casing, gear in hole): 6m casing plus shoe left in hole			
Geology comments:			

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD019		
Start Date:	14 Oct 2018		
End Date:	16 Oct 2018		
EOH Depth:	201m		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5585286.67	m
	UTM East:	397261.13	m
	Elevation:	388.524	m
	Dip:	-70	at setup
	Az:	206 mag	at setup
	Collar Survey Method:		
	Surveyed by:		
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
Drill comments (issues, casing, gear in hole): 2m casing plus shoe left in hole			
Geology comments:			



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD019	3	6	3.00	2.76	0.92	2.44	88.41	3
ASD019	6	9	3.00	2.82	0.94	2.36	83.69	6
ASD019	9	12	3.00	2.99	1.00	2.79	93.31	2
ASD019	12	15	3.00	3.06	1.02	3.06	100.00	2
ASD019	15	18	3.00	2.85	0.95	2.63	92.28	3
ASD019	18	21	3.00	3.05	1.02	3.02	99.02	2
ASD019	21	24	3.00	3.05	1.02	3.05	100.00	0
ASD019	24	27	3.00	3.00	1.00	3.00	100.00	1
ASD019	27	30	3.00	3.06	1.02	3.06	100.00	1
ASD019	30	33	3.00	2.93	0.98	2.77	94.54	1
ASD019	33	36	3.00	2.97	0.99	2.89	97.31	1
ASD019	36	39	3.00	2.96	0.99	2.96	100.00	1
ASD019	39	42	3.00	3.02	1.01	3.02	100.00	0
ASD019	42	45	3.00	2.98	0.99	2.90	97.32	0
ASD019	45	48	3.00	2.96	0.99	2.96	100.00	1
ASD019	48	51	3.00	2.98	0.99	2.98	100.00	0
ASD019	51	54	3.00	2.88	0.96	2.84	98.61	2
ASD019	54	57	3.00	3.03	1.01	3.03	100.00	2
ASD019	57	60	3.00	3.02	1.01	3.02	100.00	2
ASD019	60	63	3.00	3.05	1.02	3.05	100.00	2
ASD019	63	66	3.00	3.00	1.00	2.95	98.33	2
ASD019	66	69	3.00	2.93	0.98	2.89	98.63	3
ASD019	69	72	3.00	3.15	1.05	3.15	100.00	3
ASD019	72	75	3.00	3.09	1.03	3.00	97.09	3
ASD019	75	78	3.00	3.06	1.02	2.84	92.81	6
ASD019	78	81	3.00	3.05	1.02	3.05	100.00	3
ASD019	81	84	3.00	3.05	1.02	2.91	95.41	5
ASD019	84	87	3.00	3.10	1.03	3.10	100.00	3
ASD019	87	90	3.00	3.07	1.02	3.07	100.00	1
ASD019	90	93	3.00	3.01	1.00	2.93	97.34	4
ASD019	93	96	3.00	3.02	1.01	2.96	98.01	3
ASD019	96	99	3.00	3.09	1.03	3.09	100.00	1
ASD019	99	102	3.00	3.00	1.00	3.00	100.00	1
ASD019	102	105	3.00	3.08	1.03	3.08	100.00	2
ASD019	105	108	3.00	3.00	1.00	2.85	95.00	5
ASD019	108	111	3.00	3.10	1.03	2.94	94.84	4
ASD019	111	114	3.00	3.03	1.01	3.03	100.00	3
ASD019	114	117	3.00	3.02	1.01	3.02	100.00	1
ASD019	117	120	3.00	2.96	0.99	2.96	100.00	1
ASD019	120	123	3.00	3.06	1.02	3.06	100.00	0
ASD019	123	126	3.00	3.00	1.00	3.00	100.00	0
ASD019	126	129	3.00	3.00	1.00	2.95	98.33	3
ASD019	129	132	3.00	3.04	1.01	3.04	100.00	0
ASD019	132	135	3.00	3.02	1.01	3.02	100.00	0
ASD019	135	138	3.00	3.02	1.01	3.02	100.00	2

ASD019	138	141	3.00	3.00	1.00	3.00	100.00	1
ASD019	141	144	3.00	3.08	1.03	3.05	99.03	2
ASD019	144	147	3.00	3.06	1.02	3.06	100.00	0
ASD019	147	150	3.00	3.03	1.01	3.03	100.00	3
ASD019	150	153	3.00	2.97	0.99	2.97	100.00	1
ASD019	153	156	3.00	3.08	1.03	3.03	98.38	4
ASD019	156	159	3.00	3.00	1.00	3.00	100.00	1
ASD019	159	162	3.00	3.09	1.03	3.00	97.09	2
ASD019	162	165	3.00	3.06	1.02	2.97	97.06	3
ASD019	165	168	3.00	3.02	1.01	2.97	98.34	3
ASD019	168	171	3.00	3.00	1.00	2.80	93.33	6
ASD019	171	174	3.00	3.00	1.00	2.60	86.67	10
ASD019	174	177	3.00	3.00	1.00	2.77	92.33	7
ASD019	177	180	3.00	3.05	1.02	2.96	97.05	3
ASD019	180	183	3.00	3.00	1.00	3.00	100.00	2
ASD019	183	186	3.00	3.03	1.01	3.03	100.00	3
ASD019	186	189	3.00	2.98	0.99	2.81	94.30	5
ASD019	189	192	3.00	3.06	1.02	3.06	100.00	3
ASD019	192	195	3.00	3.07	1.02	3.07	100.00	2
ASD019	195	198	3.00	3.00	1.00	3.00	100.00	4
ASD019	198	201	3.00	3.03	1.01	3.03	100.00	4

ARDIDEN LIMITED

Hole No.	ASD019					Date:		
				Core Box Intervals				
Geologist:	KKP							
Box #	From	To	Box #	From	To	Box #	From	To
1	0.4	4.9	45	188.6	192.62	89		
2	4.9	9.0	46	192.62	196.88	90		
3	9.0	13.4	47	196.88	201	91		
4	13.4	17.5	48		EOH	92		
5	17.5	21.6	49			93		
6	21.6	25.9	50			94		
7	25.9	30.2	51			95		
8	30.2	34.3	52			96		
9	34.3	38.6	53			97		
10	38.6	42.8	54			98		
11	42.8	47.2	55			99		
12	47.2	51.7	56			100		
13	51.7	55.9	57			101		
14	55.9	60.1	58			102		
15	60.1	64.4	59			103		
16	64.4	68.8	60			104		
17	68.8	73.1	61			105		
18	73.1	77.4	62			106		
19	77.4	81.7	63			107		
20	81.7	86.1	64			108		
21	86.1	90.2	65			109		
22	90.2	94.6	66			110		
23	94.6	98.8	67			111		
24	98.8	103.2	68			112		
25	103.2	107.5	69			113		
26	107.5	111.7	70			114		
27	111.7	116.1	71			115		
28	116.1	120.3	72			116		
29	120.3	124.6	73			117		
30	124.6	128.8	74			118		
31	128.8	133.1	75			119		
32	133.1	137.4	76			120		
33	137.4	141.5	77			121		
34	141.5	145.6	78			122		
35	145.6	150.0	79			123		
36	150.0	154.4	80			124		
37	154.4	158.6	81			125		
38	158.6	162.9	82			126		
39	162.9	167.1	83			127		
40	167.1	171.3	84			128		
41	171.3	175.5	85			129		
42	175.5	179.9	86			130		
43	179.9	184.1	87			131		
44	184.1	188.6	88			132		

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD020	Datum/Proj:	NAD83 Zone 16
Start Date:	17 Oct 2018	UTM North:	5584688.33 m
End Date:	20 Oct 18	UTM East:	396662.02 m
EOH Depth:	109.71	Elevation:	356.325 m
		Dip:	-65 at setup
		Az:	302 at setup
		Collar Survey Method:	
		Surveyed by:	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
Drill comments (issues, casing, gear in hole): No casing left in hole, 108m of rod lost in the hole due to jammed rods.			
Geology comments: No core orientation due to broken tool. No samples as hole wa twined with ASD021			

GEOLOGICAL CORE LOG

Date Logged: 18 Oct 2018

EDH called by:

EDH Reason:

Geologist: Kjetil Pedersen

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
AS0000	0.00	3.00				OB																
AS0000	3.00	15.19			gm	MV								ch	prv	m	qtz	2	fol	m	Oxidation and surface weathering to 15m	
AS0000	15.19	24.65			gm	MBF								ch	prv	w	qtz	1	fol	w		
AS0000	24.65	27.35			gm	MV								ch	prv	m	qtz	2	fol	m		
AS0000	27.35	69.12			gm	MBF								ch	prv	w	qtz	1	fol	w		
AS0000	69.12	78.00			gm	MV								ch	prv	m	qtz	3	fol	m		
AS0000	78.00	85.73			gm	mbf								ch	prv	w	qtz	1	fol	w		
AS0000	85.73	97.81			gm	MV								ch	prv	m	qtz	3	fol	m	Frangely foliated, very broken core.	
AS0000	97.81	98.45			gnk	FIGFy	PGC	qtz	mc	fs	ms											
AS0000	98.45	108.23			gm	MV								ch	prv	m						
AS0000	108.23	108.30			il	FIGPn		qtz	ggc												7.6cm wide.	
AS0000	108.30	108.73			gm	MV								ch	prv	m						
AS0000	108.73	109.23			whl	FIGPz		qtz	ggc													
AS0000	109.23	109.71			gm	MV								ch	prv	w					Rods stuck in hole.	
AS0000																						
AS0000																						
AS0000																						

ASD020					
ASD020					
ASD020					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD020	3	6	3.00	3.08	1.03	2.81	91%	10
ASD020	6	9	3.00	3.04	1.01	2.48	82%	15
ASD020	9	12	3.00	2.85	0.95	1.61	56%	11
ASD020	12	15	3.00	3.05	1.02	2.63	86%	14
ASD020	15	18	3.00	3.06	1.02	2.85	93%	6
ASD020	18	21	3.00	2.97	0.99	2.32	78%	10
ASD020	21	24	3.00	3.08	1.03	2.63	85%	10
ASD020	24	27	3.00	3.04	1.01	3.04	100%	4
ASD020	27	30	3.00	3.05	1.02	2.97	97%	7
ASD020	30	33	3.00	3.04	1.01	2.84	93%	7
ASD020	33	36	3.00	2.98	0.99	2.48	83%	9
ASD020	36	39	3.00	2.98	0.99	2.58	87%	8
ASD020	39	42	3.00	3.05	1.02	2.99	98%	5
ASD020	42	45	3.00	2.95	0.98	2.90	98%	5
ASD020	45	48	3.00	3.09	1.03	3.04	98%	6
ASD020	48	51	3.00	3.03	1.01	2.84	94%	7
ASD020	51	54	3.00	3.00	1.00	2.52	84%	10
ASD020	54	57	3.00	2.98	0.99	2.76	93%	6
ASD020	57	60	3.00	2.96	0.99	2.80	95%	12
ASD020	60	63	3.00	3.06	1.02	2.49	81%	15
ASD020	63	66	3.00	3.06	1.02	2.80	92%	11
ASD020	66	69	3.00	3.00	1.00	2.86	95%	9
ASD020	69	72	3.00	3.04	1.01	2.15	71%	16
ASD020	72	75	3.00	2.99	1.00	2.82	94%	7
ASD020	75	78	3.00	3.02	1.01	2.71	90%	9
ASD020	78	81	3.00	3.03	1.01	2.41	80%	21
ASD020	81	84	3.00	3.00	1.00	2.60	87%	17
ASD020	84	87	3.00	3.00	1.00	2.76	92%	8
ASD020	87	90	3.00	3.03	1.01	2.62	86%	12
ASD020	90	93	3.00	3.05	1.02	2.77	91%	10
ASD020	93	96	3.00	3.20	1.07	2.61	82%	15
ASD020	96	99	3.00	3.12	1.04	2.70	87%	12
ASD020	99	102	3.00	3.10	1.03	2.10	68%	15
ASD020	102	105	3.00	3.06	1.02	2.26	74%	14
ASD020	105	108	3.00	2.95	0.98	2.86	97%	3

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CR			Crateriform	ASB	Asbest	BT	Biotite	MA	Massive	R	Weak	FEF	Fegitic, equigranular, fine-grained (1-2mm), "apitic" (clayey)	DR	Dark	SL	Slaty	W	Weak
LC			Loose Core	APT	Apatite	CB	Calcite	PC	Partly	M	Medium	FSM	Fegitic, equigranular, medium-grained (2-5mm), "microapitic"	CS	Light	BLD	Bedded	M	Medium
S			Subvolcanic (including chemical sands)	KAP	Kalsopyrite	CH	Chlorite	PN	Perseverance	S	Strong	PGC	Pegmatite, coarse to "tight" granitic but not distinctly porphyritic	BLK	Black	Bou	Boudinaged	S	Strong
U			Undifferentiated (not for epithermal tuffs)	AT	Actinolite	EP	Epidote	SB	Subvolcanic	W	Weak	DFP	Degraded, distinct phenocrysts in fine-grained matrix	BRK	Brown	BK	Brown	W	Weak
S			Subvolcanic (undifferentiated)	KU	Kunzite	FE	Ferrous feldspar	HU	Hydrothermal	V	Variable	PGC	Pegmatite, distinct phenocrysts in coarse-grained matrix	BLU	Blue	BR	Brecciated	V	Variable
H			Hydrothermal (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	Dec	Decreasing	PAG	Pegmatite, alternating bands (1-25cm) of apitic and coarse-grained rock	BRN	Brown	BR	Autobreccia	Dec	Decreasing
B			Banded	BE	Beryl	HT	Hornblende	WR	Wegener	Inc	Increasing	AMS	Amphibolite	GRN	Green	BR	Hydrothermal breccia	Inc	Increasing
B			Black	CB	Carbonate	QDC	Quartz-carbonate	BD	Banded			BD	Bedded	GRY	Grey	BR	Tectonic breccia		
S			Sulphide (primary porphy)	EST	Epidote	SR	Sericite	BD	Banded			FK	Fine			FK	Clayage		
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill	BR	Brecciated			BR	Bedded			BR	Clayage		
G			Granulite (undifferentiated)	CH	Chlorite	SL	Sill	BR	Brecciated			BR	Bedded			BR	Clayage		
C			Chert (10% magnetite banding)	CP	Chalcopyrite	TRC	Talc-carbonate	BD	Banded			BD	Bedded			BD	Clayage		
T			Tuff (1% magnetite or sulphides)	COL	Colony	TAL	Talc	BDU	Boudinaged			BDU	Boudinaged			BDU	Clayage		
M			Magnetite (1% magnetite or sulphides)	EP	Epidote			BR	Brecciated			BR	Brecciated			BR	Clayage		
S			Sulphide (secondary porphy)	EP	Epidote			BR	Brecciated			BR	Brecciated			BR	Clayage		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	FR	Ferrous feldspar			CR	Crystalline			CR	Crystalline			CR	Clayage		
B			Banded Iron Formation (10% magnetite or secondary sulphides)	GT	Garnet			DS	Disseminated sulfides			DS	Disseminated sulfides			DS	Clayage		
P			Pyrrhotite (magnetite only)	HO	Hornblende			FR	Fractured			FR	Fractured			FR	Clayage		
S			Sulphide (primary porphy)	HO	Hornblende			FR	Fractured			FR	Fractured			FR	Clayage		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	HM	Hematite			FR	Fractured			FR	Fractured			FR	Clayage		
			Sulfide																
P			Feldspar porphyry	IP	Isopropylite			FR	Fractured			FR	Fractured			FR	Clayage		
V			Volcanic undifferentiated	MN	Manganiferous			GR	Granitic			GR	Granitic			GR	Clayage		
X			Extrusive	MC	Muscovite			LN	Lined			LN	Lined			LN	Clayage		
B			Basaltic	MS	Muscovite			MA	Massive			MA	Massive			MA	Clayage		
RD			Rhyodacitic	MT	Magnetite			MS	Massive sulfides			MS	Massive sulfides			MS	Clayage		
			Tuff undifferentiated	OC	Olivine			MS	Massive sulfides			MS	Massive sulfides			MS	Clayage		
			Agglomerate/Flow Tuff (Flamme)	PE	Pentlandite			MY	Mylonitic			MY	Mylonitic			MY	Clayage		
			Asphalt Tuff (2mm)	PH	Phlogopite			PL	Pillowed			PL	Pillowed			PL	Clayage		
			Asphalt Tuff (2-4mm)	PL	Plagioclase			PO	Porphyritic			PO	Porphyritic			PO	Clayage		
			Agglomerate Tuff (2-4mm)	PO	Pyroxene			SAC	Sarcopside			SAC	Sarcopside			SAC	Clayage		
			Hydrothermal Breccia	PP	Pyrite			SH	Shaded			SH	Shaded			SH	Clayage		
			Flow (Hydrothermal)	QP	Quartz			ST	Stockwork			ST	Stockwork			ST	Clayage		
			Epitaxial (newwork)	TC	Talc			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Intrusive	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Dacite	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite (plagioclase rich)	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite with sulphide stringers/quartz veining	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Andesite flow (aged 1-2mm)	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Tonalite (quartz rich >20%)	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite with sulphide stringers/quartz veining	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Pyrrhotite - minor, thin vein (5cm)	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
GP			Granulite - zone containing apatite, massive or in alternating bands	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
GP			Granulite - zone containing apatite, massive or in alternating bands	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite - zone of oligoclase/andesine/epidote-quartz matrix rock	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite - zone > 0.5m thick dominated (>25%) by epidote	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite - zone > 0.5m thick dominated (>25%) by microcline	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite - zone > 0.5m thick dominated (>75%) by quartz	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Granulite - zone of any thickness that contains epidote	TR	Tremolite			TR	Tremolite			TR	Tremolite			TR	Clayage		
			Intermediate																
P			Pyrrhotite Porphyry (Mg-Mg/Fe, phosfocyclic)																
V			Volcanic undifferentiated																
X			Extrusive																
D			Dacitic (Andesitic)																
T			Tuff undifferentiated																
			Agglomerate/Flow Tuff (Flamme)																
			Asphalt Tuff (2mm)																
			Asphalt Tuff (2-4mm)																
			Agglomerate Tuff (2-4mm)																
			Hydrothermal Breccia																
			Flow (Andesitic)																
			Epitaxial (newwork)																
			Intrusive																
			Dacite																
			Dacite (Plagioclase rich)																
			Trachyte (Alkali Feldspar rich)																
			Sulfide																
P			Pyrrhotite Porphyry (Mg-Mg/Fe, phosfocyclic)																
V			Volcanic undifferentiated																
X			Extrusive																
B			Basaltic																
F			Flow (Basalt)																
B			Basaltic																
D			Dacitic (Andesitic)																
T			Tuff undifferentiated																
			Agglomerate/Flow Tuff (Flamme)																
			Asphalt Tuff (2mm)																
			Asphalt Tuff (2-4mm)																
			Agglomerate Tuff (2-4mm)																
			Hydrothermal Breccia																
			Flow (Andesitic)																
			Epitaxial (newwork)																
			Intrusive																
			Dacite																
			Dacite (Plagioclase rich)																
			Trachyte (Alkali Feldspar rich)																
			Basaltic																
P			Pyrrhotite Porphyry (Mg-Mg/Fe, phosfocyclic)																
V			Volcanic undifferentiated																
X			Extrusive																
K			Kalsopyrite																
F			Flow (Basalt)																

Project:	Seymour Lake		
Prospect:	North Aubry		
Claim #:			
Hole ID:	ASD021		
Start Date:	19 Oct 2018		
End Date:	21 Oct 2018		
EOH Depth:	150		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5584688	m
	UTM East:	396661.89	m
	Elevation:	355.724	m
	Dip:	-65	at setup
	Az:	296	at setup
	Collar Survey Method:		
	Surveyed by:		
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
0	150	BTW	
Drill comments (issues, casing, gear in hole): 2m casing plus shoe left in hole			
Geology comments: Redrill of ASD020			

GEOLOGICAL CORE LOG

Date Logged: 15 Oct 2018 EOH called by: Kyle Pedersen EOH Reason: Taken 10 extra due to Pegmatites at 138-140m

Geologist: Kyle Pedersen

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
AS0001	0.00	2.20				OB																
AS0001	2.20	27.67			gm	MXB								ch	prv	w	qtz	1	fs	w		
AS0001	27.67	50.18			gm	MV								ch	prv	m	qtz	3	fs	m		
AS0001	50.18	51.68			gy	ll		plg	qtz												Lite	
AS0001	51.68	94.72			gm	MV								ch	prv	m	qtz	2	fs	w		
AS0001	94.72	95.32			pk	FIGPp		fs	qtz												Possibly point of unit below	
AS0001	95.32	96.85			gm	MV		d	qtz					ch	prv	m				fs	M	very broken and shattered rock. Upper contact measured from upper block and lower contact from lower block.
AS0001	96.85	101.14			ll	FIGPp		mc	qtz			2	30									
AS0001	101.14	101.70			gm	MV								ch	prv	s				fs	m	Inclusion in peg?
AS0001	101.70	102.90			gm	FIGPp		fs	qtz													contact running along core axis from 101.72-102.5m
AS0001	102.90	106.93			gm	mv								ch	prv	m	qtz	2	fs	m		
AS0001	106.93	108.05			wh	FIGPp		qtz	mc	fs		1	20									Lighter in colour than Peg above.
AS0001	108.05	113.15			gm	mv								ch	prv	m	qtz	2	fs	m		
AS0001	113.15	137.71			gy	OBS		ll	qtz	amp												
AS0001	137.71	138.68			ll	FIGPp		mc	qtz	sp		1	30									
AS0001	138.68	139.30			gm	OBS		ll	qtz	amp				ll	prv							
AS0001	139.30	139.47			wh	FIGPp		mc	qtz													
AS0001	139.47	139.70			gm	MV																
AS0001	139.70	140.06			wh	FIGPp		mc	qtz	mx												1.20 cm and another 6 cm with minor MV between.
AS0001	140.06	150			gm	MV								ch	prv	m				fs	m	EOH at 140m.
AS0001																						

ASD021					
ASD021					
ASD021					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD021	3	6	3.00	3.00	1.00	2.86	95	7
ASD021	6	9	3.00	3.08	1.03	2.91	94	6
ASD021	9	12	3.00	3.04	1.01	2.69	88	10
ASD021	12	15	3.00	3.05	1.02	2.98	98	7
ASD021	15	18	3.00	2.99	1.00	2.87	96	6
ASD021	18	21	3.00	3.04	1.01	3.04	100	7
ASD021	21	24	3.00	3.07	1.02	3.01	98	5
ASD021	24	27	3.00	3.03	1.01	2.99	99	6
ASD021	27	30	3.00	3.01	1.00	2.98	99	6
ASD021	30	33	3.00	3.00	1.00	1.95	65	21
ASD021	33	36	3.00	3.05	1.02	2.55	84	6
ASD021	36	39	3.00	3.04	1.01	2.48	82	10
ASD021	39	42	3.00	3.07	1.02	3.02	98	4
ASD021	42	45	3.00	2.98	0.99	2.90	97	5
ASD021	45	48	3.00	3.00	1.00	2.93	98	6
ASD021	48	51	3.00	3.08	1.03	2.80	91	3
ASD021	51	54	3.00	3.05	1.02	1.17	38	5
ASD021	54	57	3.00	3.01	1.00	2.98	99	5
ASD021	57	60	3.00	3.03	1.01	3.03	100	4
ASD021	60	63	3.00	3.03	1.01	3.03	100	7
ASD021	63	66	3.00	3.06	1.02	3.06	100	2
ASD021	66	69	3.00	3.06	1.02	3.01	98	4
ASD021	69	72	3.00	3.09	1.03	2.99	97	4
ASD021	72	75	3.00	2.98	0.99	2.74	92	6
ASD021	75	78	3.00	3.09	1.03	2.76	89	7
ASD021	78	81	3.00	3.00	1.00	2.92	97	3
ASD021	81	84	3.00	3.05	1.02	2.85	93	5
ASD021	84	87	3.00	3.00	1.00	2.80	93	6
ASD021	87	90	3.00	3.04	1.01	2.79	92	4
ASD021	90	93	3.00	3.02	1.01	2.89	96	5
ASD021	93	96	3.00	3.00	1.00	1.96	65	15
ASD021	96	99	3.00	3.00	1.00	1.98	66	12
ASD021	99	102	3.00	3.00	1.00	2.92	97	3
ASD021	102	105	3.00	3.03	1.01	2.70	89	7
ASD021	105	108	3.00	3.01	1.00	2.96	98	5
ASD021	108	111	3.00	3.08	1.03	3.06	99	5
ASD021	111	114	3.00	3.09	1.03	3.01	97	4
ASD021	114	117	3.00	3.05	1.02	3.05	100	3
ASD021	117	120	3.00	2.94	0.98	2.94	100	1
ASD021	120	123	3.00	3.07	1.02	3.04	99	7
ASD021	123	126	3.00	3.01	1.00	3.01	100	4
ASD021	126	129	3.00	3.00	1.00	3.00	100	3
ASD021	129	132	3.00	2.91	0.97	2.84	98	2
ASD021	132	135	3.00	3.11	1.04	3.05	98	5

ASD021	135	138	3.00	3.06	1.02	3.06	100	2
ASD021	138	141	3.00	3.03	1.01	3.03	100	3
ASD021	141	144	3.00	3.11	1.04	3.11	100	3
ASD021	144	147	3.00	3.00	1.00	2.80	93	5
ASD021	147	150	3.00	3.05	1.02	3.05	100	1

ARDIDEN LIMITED

Hole No.	ASD021					Date:				
				Core Box Intervals						
Geologist:	KKP									
Box #	From	To		Box #	From	To		Box #	From	To
1	2.2	6.0		45				89		
2	6.0	10.2		46				90		
3	10.2	14.3		47				91		
4	14.3	18.6		48				92		
5	18.6	22.9		49				93		
6	22.9	27.1		50				94		
7	27.1	31.5		51				95		
8	31.5	35.4		52				96		
9	35.4	39.3		53				97		
10	39.3	43.6		54				98		
11	43.6	47.9		55				99		
12	47.9	52.1		56				100		
13	52.1	55.5		57				101		
14	55.5	59.9		58				102		
15	59.9	64.0		59				103		
16	64.0	68.3		60				104		
17	68.3	72.5		61				105		
18	72.5	76.7		62				106		
19	76.7	80.8		63				107		
20	80.8	85.0		64				108		
21	85.0	89.2		65				109		
22	89.2	93.33		66				110		
23	93.3	97.28		67				111		
24	97.3	101.16		68				112		
25	101.2	105.35		69				113		
26	105.4	109.7		70				114		
27	109.7	113.82		71				115		
28	113.8	118.09		72				116		
29	118.1	122.42		73				117		
30	122.4	126.54		74				118		
31	126.5	130.34		75				119		
32	130.3	135.12		76				120		
33	135.1	139.51		77				121		
34	139.5	143.91		78				122		
35	143.9	147.48		79				123		
36		151	EOH	80				124		
37		EOH		81				125		
38				82				126		
39				83				127		
40				84				128		
41				85				129		
42				86				130		
43				87				131		
44				88				132		

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
OB			Oxide/iron	AD	Albite	BT	Biotite	MA	Massive	R	Weak	PEP	Plagioclase, equigranular, fine-grained (1-20mm), "aplitic" texture	DR	Dark	SLR	Star Banded	W	Weak
LC			Loose Calc	APT	Apophite	CB	Calcite	PC	Patchy	M	Medium	PEM	Plagioclase, equigranular, medium-grained (2-5mm), "microplitic"	CS	Light	DBD	Bedded	M	Medium
S			Sedimentary (including chemical sands)	AC	Actinolite	CH	Chlorite	PN	Perseverance	S	Strong	PGC	Plagioclase, coarse to "giant" grains but not distinctly porphyritic	BLK	Black	BOU	Boudinaged	S	Strong
U			Undifferentiated (not for apititic tufts)	AT	Actinolite	EP	Epidote	SD	Sidite	W	Weak	PPF	Plagioclase, distinct phenocrysts in fine-grained matrix	BRN	Brown	BRN	Brown	W	Weak
S			Sediments (undifferentiated)	AU	Autunite	FE	Ferrous oxide	HT	Hyal	V	Variable	PHC	Plagioclase, giant phenocrysts in coarse-grained matrix	BLU	Blue	BRK	Brecciated	V	Variable
H			Shale (undifferentiated)	BE	Beryl	GT	Garnet	MT	Matrix	Dec	Decreasing	PAG	Plagioclase, alternating bands (1-25cm) of aplitic and coarse-grained rock	BRN	Brown	BRN	Autobreccia	Dec	Decreasing
B			Basalt	BT	Biotite	QUC	Quartz-carbonate	WR	Wreath	Inc	Increasing	AMS	Amphibole	GRN	Green	BRN	Hydrothermal breccia	Inc	Increasing
S			Sulphide (primary parite)	CS	Carbonate	QDC	Quartz-carbonate	WR	Wreath	Inc	Increasing	BR	Brecciated	GRY	Grey	BRK	Tectonic breccia	Inc	Increasing
S			Sulphide (secondary parite)	CT	Calcite	SR	Sericite	SR	Sericite	BD	Bedded	INT	Interbedded	FRK	Pink	CH	Chlorite		
G			Granulite (undifferentiated)	CT	Calcite	SL	Sill	CH	Chlorite	SL	Sill	BRK	Hydrothermal breccia	BRD	Red	CH	Chlorite		
C			Chert (20% magnetite banding)	CP	Calcopryite	TRC	Tricarbonate	CP	Calcopryite	TRC	Tricarbonate	BRD	Bedded	WHY	White	CH	Contact lithological		
T			<1% magnetite or sulphide	COL	Columbite	TAC	Talc-chlorite	COL	Columbite	TAC	Talc-chlorite	BOU	Boudinaged	CRV	Crushed				
M			<1% magnetite or sulphide	EP	Epidote			EP	Epidote			BRK	Brecciated			DRF	Deformed		
S			Sulphide (secondary parite)	FR	Feldspar			FR	Feldspar			BR	Brecciated			FR	Fractured		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	GR	Gersdorffite			GR	Gersdorffite			CRE	Crenulated			FR	Fracture		
B			Banded Iron Formation (0-15% magnetite or secondary sulphides)	GT	Garnet			GT	Garnet			DIS	Dissimulated sulfides			FR	Fractured		
S			Sulphides, magnetite only	HS	Hornblende			HS	Hornblende			FRU	Fractured			FR	Fracture		
S			Sulphide (primary parite)	HM	Hornblende			HM	Hornblende			FRU	Fractured			FR	Fracture		
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)	HM	Hornblende			HM	Hornblende			FRU	Fractured			FR	Fracture		
			Sulfide	IS	Isopropylite			IS	Isopropylite			FRU	Fractured			FR	Fracture		
P			Feldspar porphyry	MA	Magnetite			MA	Magnetite			FRU	Fractured			FR	Fracture		
V			Volcanic undifferentiated	MG	Magnetite			MG	Magnetite			FRU	Fractured			FR	Fracture		
E			Extrusive	MS	Muscovite			MS	Muscovite			FRU	Fractured			FR	Fracture		
B			Basaltic	MT	Magnetite			MT	Magnetite			FRU	Fractured			FR	Fracture		
RD			Rhyolitic	PE	Perthite			PE	Perthite			FRU	Fractured			FR	Fracture		
			Rhyolitic	PH	Phengite			PH	Phengite			FRU	Fractured			FR	Fracture		
			Rhyolitic	PL	Plagioclase			PL	Plagioclase			FRU	Fractured			FR	Fracture		
			Rhyolitic	PS	Pyroxene			PS	Pyroxene			FRU	Fractured			FR	Fracture		
			Rhyolitic	PT	Pyrite			PT	Pyrite			FRU	Fractured			FR	Fracture		
			Rhyolitic	QZ	Quartz			QZ	Quartz			FRU	Fractured			FR	Fracture		
			Rhyolitic	TC	Talc			TC	Talc			FRU	Fractured			FR	Fracture		
			Rhyolitic	TAN	Tantalite			TAN	Tantalite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TR	Trillite			TR	Trillite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU	Fractured			FR	Fracture		
			Rhyolitic	TRM	Tremolite			TRM	Tremolite			FRU							

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD022		
Start Date:			
End Date:	October 25, 2018		
EOH Depth:	213.00		
	Datum/Proj:	NAD83	Zone 16
	UTM North:	5584837.22	m
	UTM East:	396698.41	m
	Elevation:	361.045	m
	Dip:		at setup
	Az:		at setup
	Collar Survey Method:		
	Surveyed by:		
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
Drill comments (issues, casing, gear in hole): 2m casing plus shoe left in hole			
Geology comments:			

GEOLOGICAL CORE LOG

Date Logged: 16 Oct 2018 EDH called by: KKP EDH Reason: depth

Geologist: Kjetil Pedersen and Colin Fehr

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
AS002	0.00	1.65				OB																
AS002	1.65	114.65				MXF								CH	pr	w	qtz	1	bl	w	Qtz veins show signs of weathering to 7.25m	
AS002	114.65	163.50				MV								CH	pr	m	qtz	2	bl	m	Stronger foliation than above	
AS002	163.50	201.87			gn	Xgs	bl							CH	pr	m	qtz	1	bl	m		
AS002	201.87	202.97			prk	FlGpSp	pgc	mc	qt	sp		2	20									
AS002	202.97	211.34			gn	MV	bl							CH	pr	w	qtz	1	bl	w		
AS002	211.34	213.00			gn	Xgs	bl							CH	pr	w	qtz	1	bl	m		

EOH

7777



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD022	3	6	3.00	2.97	0.99	2.97	100	4
ASD022	6	9	3.00	3.04	1.01	3.04	100	1
ASD022	9	12	3.00	3.02	1.01	2.98	99	3
ASD022	12	15	3.00	3.05	1.02	3.05	100	2
ASD022	15	18	3.00	3.06	1.02	2.90	95	7
ASD022	18	21	3.00	3.05	1.02	3.05	100	4
ASD022	21	24	3.00	3.00	1.00	3.00	100	2
ASD022	24	27	3.00	3.06	1.02	3.06	100	4
ASD022	27	30	3.00	3.00	1.00	3.00	100	5
ASD022	30	33	3.00	3.08	1.03	3.07	100	6
ASD022	33	36	3.00	3.06	1.02	2.98	97	4
ASD022	36	39	3.00	3.02	1.01	2.97	98	3
ASD022	39	42	3.00	3.04	1.01	3.04	100	3
ASD022	42	45	3.00	2.97	0.99	2.94	99	2
ASD022	45	48	3.00	3.09	1.03	3.09	100	3
ASD022	48	51	3.00	3.04	1.01	2.98	98	4
ASD022	51	54	3.00	3.03	1.01	2.83	93	9
ASD022	54	57	3.00	3.00	1.00	2.81	94	8
ASD022	57	60	3.00	2.95	0.98	2.73	93	8
ASD022	60	63	3.00	2.97	0.99	2.97	100	8
ASD022	63	66	3.00	3.20	1.07	3.07	96	5
ASD022	66	69	3.00	2.95	0.98	2.89	98	5
ASD022	69	72	3.00	3.08	1.03	2.88	94	4
ASD022	72	75	3.00	3.04	1.01	2.91	96	5
ASD022	75	78	3.00	3.00	1.00	2.92	97	6
ASD022	78	81	3.00	3.03	1.01	2.92	96	6
ASD022	81	84	3.00	3.00	1.00	2.80	93	8
ASD022	84	87	3.00	3.11	1.04	2.99	96	7
ASD022	87	90	3.00	3.04	1.01	3.04	100	4
ASD022	90	93	3.00	3.03	1.01	3.03	100	3
ASD022	93	96	3.00	3.10	1.03	3.02	97	4
ASD022	96	99	3.00	2.99	1.00	2.88	96	4
ASD022	99	102	3.00	3.14	1.05	3.11	99	3
ASD022	102	105	3.00	3.06	1.02	3.04	99	5
ASD022	105	108	3.00	3.04	1.01	2.88	95	5
ASD022	108	111	3.00	3.05	1.02	2.90	95	6
ASD022	111	114	3.00	3.04	1.01	2.92	96	5
ASD022	114	117	3.00	3.04	1.01	2.92	96	5
ASD022	117	120	3.00	3.02	1.01	3.02	100	3
ASD022	120	123	3.00	3.07	1.02	3.07	100	4
ASD022	123	126	3.00	3.06	1.02	3.06	100	4
ASD022	126	129	3.00	3.08	1.03	2.99	97	6
ASD022	129	132	3.00	3.00	1.00	3.00	100	3
ASD022	132	135	3.00	3.05	1.02	3.05	100	2

ASD022	135	138	3.00	3.06	1.02	3.06	100	2
ASD022	138	141	3.00	3.01	1.00	3.01	100	3
ASD022	141	144	3.00	3.08	1.03	3.02	98	6
ASD022	144	147	3.00	3.06	1.02	3.06	100	2
ASD022	147	150	3.00	3.06	1.02	3.06	100	3
ASD022	150	153	3.00	3.00	1.00	3.00	100	3
ASD022	153	156	3.00	3.07	1.02	2.84	93	7
ASD022	156	159	3.00	3.00	1.00	2.81	94	7
ASD022	159	162	3.00	3.12	1.04	2.40	77	14
ASD022	162	165	3.00	3.07	1.02	2.67	87	9
ASD022	165	168	3.00	3.03	1.01	2.95	97	5
ASD022	168	171	3.00	3.04	1.01	3.04	100	3
ASD022	171	174	3.00	3.00	1.00	3.00	100	4
ASD022	174	177	3.00	3.01	1.00	2.80	93	6
ASD022	177	180	3.00	3.10	1.03	3.10	100	3
ASD022	180	183	3.00	3.00	1.00	2.97	99	4
ASD022	183	186	3.00	2.99	1.00	2.95	99	5
ASD022	186	189	3.00	3.07	1.02	3.05	99	4
ASD022	189	192	3.00	3.05	1.02	2.94	96	7
ASD022	192	195	3.00	3.07	1.02	3.07	100	3
ASD022	195	198	3.00	3.01	1.00	3.01	100	3
ASD022	198	201	3.00	3.04	1.01	2.88	95	6
ASD022	201	204	3.00	3.05	1.02	2.91	95	5
ASD022	204	207	3.00	3.05	1.02	3.00	98	3
ASD022	207	210	3.00	3.01	1.00	3.01	100	2
ASD022	210	213	3.00	3.04	1.01	3.04	100	2

EOH

ARDIDEN LIMITED

Hole No.	ASD022					Date:		
				Core Box Intervals				
Geologist:	AJR							
Box #	From	To	Box #	From	To	Box #	From	To
1	1.7	5.5	45	188.68	192.88			
2	5.5	9.8	46	192.88	197.22			
3	9.8	14.2	47	197.22	201.44			
4	14.2	18.4	48	201.44	205.73			
5	18.4	22.7	49	205.73	210			
6	22.7	27.1	50	210	213			
7	27.1	31.4			EOH			
8	31.4	35.6						
9	35.6	39.9						
10	39.9	44.2						
11	44.2	48.3						
12	48.3	52.5						
13	52.5	56.7						
14	56.7	61.0						
15	61.0	65.3						
16	65.3	69.5						
17	69.5	73.5						
18	73.5	77.8						
19	77.8	81.9						
20	81.9	86.3						
21	86.3	90.5						
22	90.5	94.84						
23	94.8	99						
24	99.0	103.24						
25	103.2	107.58						
26	107.6	111.7						
27	111.7	116.08						
28	116.1	120.43						
29	120.4	124.71						
30	124.7	129						
31	129.0	133.33						
32	133.3	137.66						
33	137.7	141.94						
34	141.9	146.16						
35	146.2	150.42						
36	150.4	154.68						
37	154.7	158.8						
38	158.8	162.9						
39	162.9	167.18						
40	167.2	171.43						
41	171.4	175.77						
42	175.8	180						
43	180.0	184.32						
44	184.3	188.68						

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD023	Datum/Proj:	NAD83
Start Date:	October 25, 2018	UTM North:	5584934.25m
End Date:	November 19 2018	UTM East:	396793.36m
EOH Depth:	126	Elevation:	373.99m
		Dip:	at setup
		Az:	at setup
		Collar Survey Method:	
		Surveyed by:	
Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
		BTW	
Drill comments (issues, casing, gear in hole): 3 M of casing in hole			
Geology comments:			

GEOLOGICAL CORE LOG

Date Logged: Octb 23 to Nov 20

EDH called by: Kyle Pedersen

EDH Reason: Target depth

Geologist: Colin Fehr & Kyle Pedersen

BHID	Depth From (m)	Depth To (m)	Int (m)	Oxidation	Colour(s)	Lithology	Texture(s)	Mineral 1	Mineral 2	Mineral 3	Other Minerals	Spodumene Abundance %	Spodumene Alteration %	Alteration	Alteration Style	Alteration Intensity	Veining	Veining %	Structure	Structure Intensity	Comments	
AS0023	0.00	1.30				OB																
AS0023	1.30	46.90			gm	MV	FOL							CH	prv	m	qtzcc	1	fol	m		
AS0023	46.90	48.75			bk	MP	MAS												Mes	s		
AS0023	48.75	75.00			gm	MV	FOL							CH	prv	m	qtzcc	2	fol	m		
AS0023	75.00	118.20			gm	MBF	FOL							CH	prv	m	qtzcc	1	fol	m		
AS0023	118.20	119.03			WHT	MBF	VEI							CB	prv	M	qtzcc	90				
AS0023	119.03	126.00			gm	Xqps	FOL							CH	prv	s	qtzcc	1	fol	m		
AS0023																						
AS0023																						
AS0023																						
AS0023																						
AS0023																						
AS0023																						
AS0023																						
AS0023																						
AS0023																						

ASD023					
ASD023					
ASD023					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD023	3	6	3.00	3.03	1.01	2.61	86	9
ASD023	6	9	3.00	3.02	1.01	2.78	92	8
ASD023	9	12	3.00	2.96	0.99	2.90	98	4
ASD023	12	15	3.00	3.08	1.03	3.00	97	6
ASD023	15	18	3.00	3.00	1.00	3.00	100	3
ASD023	18	21	3.00	3.08	1.03	3.08	100	4
ASD023	21	24	3.00	3.01	1.00	2.92	97	4
ASD023	24	27	3.00	3.05	1.02	3.05	100	1
ASD023	27	30	3.00	3.05	1.02	3.05	100	1
ASD023	30	33	3.00	2.88	0.96	2.88	100	4
ASD023	33	36	3.00	2.88	0.96	2.88	100	3
ASD023	36	39	3.00	3.06	1.02	2.90	95	6
ASD023	39	42	3.00	3.10	1.03	3.03	98	4
ASD023	42	45	3.00	3.30	1.10	3.16	96	9
ASD023	45	48	3.00	3.04	1.01	2.90	95	6
ASD023	48	51	3.00	3.07	1.02	2.85	93	7
ASD023	51	54	3.00	3.06	1.02	2.95	96	6
ASD023	54	57	3.00	3.04	1.01	2.93	96	4
ASD023	57	60	3.00	3.00	1.00	2.94	98	6
ASD023	60	63	3.00	3.07	1.02	3.07	100	4
ASD023	63	66	3.00	3.00	1.00	2.83	94	7
ASD023	66	69	3.00	3.11	1.04	3.09	99	6
ASD023	69	72	3.00	3.02	1.01	3.02	100	5
ASD023	72	75	3.00	3.05	1.02	3.05	100	5
ASD023	75	78	3.00	3.05	1.02	3.05	100	3
ASD023	78	81	3.00	3.06	1.02	2.92	95	6
ASD023	81	84	3.00	3.00	1.00	3.00	100	4
ASD023	84	87	3.00	3.12	1.04	3.12	100	2
ASD023	87	90	3.00	2.97	0.99	2.94	99	4
ASD023	90	93	3.00	3.03	1.01	3.03	100	2
ASD023	93	96	3.00	2.96	0.99	2.96	100	3
ASD023	96	99	3.00	3.15	1.05	3.15	100	3
ASD023	99	102	3.00	2.95	0.98	2.87	97	8
ASD023	102	105	3.00	3.12	1.04	3.12	100	3
ASD023	105	108	3.00	2.97	0.99	2.97	100	5
ASD023	108	111	3.00	3.06	1.02	2.40	78	15
ASD023	111	114	3.00	3.02	1.01	2.98	99	8
ASD023	114	117	3.00	2.95	0.98	2.80	95	8
ASD023	117	120	3.00	2.82	0.94	2.76	98	6
ASD023	120	123	3.00	2.90	0.97	2.74	94	6
ASD023	123	126	3.00	3.00	1.00	3.00	100	6

ARDIDEN LIMITED

Hole No.							Date:			
Core Box Intervals										
Geologist:										
Box #	From	To		Box #	From	To		Box #	From	To
1	1.3	5.6		45				89		
2	5.6	9.6		46				90		
3	9.6	14.0		47				91		
4	14.0	18.1		48				92		
5	18.1	22.3		49				93		
6	22.3	26.6		50				94		
7	26.6	30.9		51				95		
8	30.9	35.4		52				96		
9	35.4	39.8		53				97		
10	39.8	44.1		54				98		
11	44.1	48.0		55				99		
12	48.0	52.3		56				100		
13	52.3	56.6		57				101		
14	56.6	60.8		58				102		
15	60.8	65.0		59				103		
16	65.0	69.2		60				104		
17	69.2	73.5		61				105		
18	73.5	77.9		62				106		
19	77.9	82.1		63				107		
20	82.1	86.5		64				108		
21	86.5	90.8		65				109		
22	90.8	95.2		66				110		
23	95.2	99.4		67				111		
24	99.4	103.87		68				112		
25	103.9	108.12		69				113		
26	108.1	112.19		70				114		
27	112.2	116.52		71				115		
28	116.5	120.95		72				116		
29	121.0	125.14		73				117		
30	125.1	126		74				118		
31				75				119		
32				76				120		
33				77				121		
34				78				122		
35				79				123		
36				80				124		
37				81				125		
38				82				126		
39				83				127		
40				84				128		
41				85				129		
42				86				130		
43				87				131		
44				88				132		

Project:	Seymour Lake		
Prospect:			
Claim #:			
Hole ID:	ASD024	Datum/Proj:	NAD83 Zone 16
Start Date:	Nov 19 2018	UTM North:	5585001.28m
End Date:		UTM East:	396852.03m
EOH Depth:		Elevation:	371.4m
		Dip:	-70 at setup
		Az:	226 at setup
		Collar Survey Method:	DGPS
		Surveyed by:	

Drill Co:	Rugged Aviation		
Drill Rig:			
m From	m To	Hole Size	Drill Type
		BTW	

Drill comments (issues, casing, gear in hole): 3 m of casing left in hole

Geology comments:

ASD024					
ASD024					
ASD024					



BHID	Block Interval (From-To)		Core Recovery (m)			RQD (>10cm)		No. Breaks (defects)
			Theoretical	Actual	%	Length (m)	%	
ASD024	3	6	3.00	3.00	1.00	2.93	98%	8
ASD024	6	9	3.00	2.93	0.98	2.84	97%	8
ASD024	9	12	3.00	2.90	0.97	2.75	95%	14
ASD024	12	15	3.00	3.15	1.05	2.95	94%	17
ASD024	15	18	3.00	2.95	0.98	2.62	89%	15
ASD024	18	21	3.00	3.04	1.01	3.04	100%	4
ASD024	21	24	3.00	3.09	1.03	2.97	96%	11
ASD024	24	27	3.00	3.09	1.03	2.82	91%	16
ASD024	27	30	3.00	3.08	1.03	3.04	99%	9
ASD024	30	33	3.00	2.97	0.99	274.00	9226%	10
ASD024	33	36	3.00	3.07	1.02	2.74	89%	15
ASD024	36	39	3.00	3.14	1.05	2.92	93%	18
ASD024	39	42	3.00	3.04	1.01	1.95	64%	12
ASD024	42	45	3.00	3.05	1.02	3.05	100%	2
ASD024	45	48	3.00	3.00	1.00	3.00	100%	2
ASD024	48	51	3.00	3.09	1.03	3.09	100%	3
ASD024	51	54	3.00	3.04	1.01	3.04	100%	2
ASD024	54	57	3.00	3.08	1.03	2.97	96%	7
ASD024	57	60	3.00	3.08	1.03	3.08	100%	3
ASD024	60	63	3.00	3.00	1.00	2.97	99%	4
ASD024	63	66	3.00	3.13	1.04	3.13	100%	5
ASD024	66	69	3.00	3.10	1.03	3.03	98%	9
ASD024	69	72	3.00	3.07	1.02	3.00	98%	6
ASD024	72	75	3.00	3.03	1.01	2.98	98%	10
ASD024	75	78	3.00	3.02	1.01	2.95	98%	14
ASD024	78	81	3.00	3.09	1.03	2.95	95%	12
ASD024	81	84	3.00	3.04	1.01	2.71	89%	15
ASD024	84	87	3.00	3.17	1.06	3.01	95%	10
ASD024	87	90	3.00	3.10	1.03	2.88	93%	16
ASD024	90	93	3.00	3.10	1.03	2.92	94%	5
ASD024	93	96	3.00	3.02	1.01	3.02	100%	3
ASD024	96	99	3.00	3.06	1.02	3.05	100%	6
ASD024	99	102	3.00	3.08	1.03	2.99	97%	9
ASD024	102	105	3.00	2.98	0.99	2.98	100%	5
ASD024	105	108	3.00	3.08	1.03	2.90	94%	9
ASD024	108	111	3.00	3.09	1.03	3.03	98%	6
ASD024	111	114	3.00	3.02	1.01	2.96	98%	9
ASD024	114	117	3.00	3.10	1.03	2.84	92%	12
ASD024	117	120	3.00	3.08	1.03	2.91	94%	9
ASD024	120	123	3.00	3.05	1.02	2.98	98%	3
ASD024	123	126	3.00	3.08	1.03	3.08	100%	5

ARDIDEN LIMITED

Hole No.							Date:			
Core Box Intervals										
Geologist:										
Box #	From	To	Box #	From	To	Box #	From	To		
1	2.8	6.0	45			89				
2	6.0	10.4	46			90				
3	10.4	14.7	47			91				
4	14.7	18.7	48			92				
5	18.7	22.9	49			93				
6	22.9	27.0	50			94				
7	27.0	31.1	51			95				
8	31.1	35.6	52			96				
9	35.6	39.4	53			97				
10	39.4	43.7	54			98				
11	43.7	48.0	55			99				
12	48.0	52.3	56			100				
13	52.3	56.6	57			101				
14	56.6	60.8	58			102				
15	60.8	65.2	59			103				
16	65.2	69.3	60			104				
17	69.3	73.7	61			105				
18	73.7	78.0	62			106				
19	78.0	82.3	63			107				
20	82.3	86.6	64			108				
21	86.6	90.6	65			109				
22		94.9	66			110				
23		99.09	67			111				
24		103.34	68			112				
25		107.45	69			113				
26		111.61	70			114				
27		115.91	71			115				
28		120.09	72			116				
29		124.32	73			117				
30		126	74			118				
31			75			119				
32			76			120				
33			77			121				
34			78			122				
35			79			123				
36			80			124				
37			81			125				
38			82			126				
39			83			127				
40			84			128				
41			85			129				
42			86			130				
43			87			131				
44			88			132				

Code	Suffix	Suffix	Lithology	Code	Mineralogy	Code	Alteration	Code	Alteration Style	Code	Alteration Intensity	Code	Texture	Code	Colour	Code	Structure	Code	Structure Intensity
CB			Carbonised																
CC			Loose Core																
			Subvolcanic (including chemical sands)																
U			Undifferentiated (not for epithermal tuffs)																
S			Sandstone (undifferentiated)																
H			Shale (undifferentiated)																
B			Silt																
W			Block																
S			Sulphide (primary part)																
G			Carrollite (undifferentiated)																
C			Chert (20% magnetite banding)																
L			<1% magnetite or sulphides																
M			>1% magnetite or sulphides																
S			Sulphide (secondary part)																
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)																
B			Banded Iron Formation (0-10% magnetite or secondary sulphides)																
P			Pyroclastic, magnetite only																
S			Sulphide (primary part)																
SS			Sulphide (Au - secondary pyrite/pyrrhotite after magnetite)																
			Basalt																
P			Feldspar porphyry																
V			Volcanic undifferentiated																
X			Basaltic																
B			Basaltic																
RD			Rhyodacitic																
			Tuff undifferentiated																
			(glimbra/Flow Tuff (Flamme))																
			Ashfall Tuff (2mm)																
			Capill-Ash Tuff (2-4mm)																
			Agglomerate Tuff (2-4mm)																
			Hyaloclastite (Volcanic Breccia)																
			Flow (Hyoclast)																
			Epitaxial (ineworked)																
			Intrusive																
			Dacite																
			Dacite (Fragilose rich)																
			Trachyte (Ashfall Feldspar rich)																
			Basalt																
P			Mafic Porphyry (Mg silicate, phenocrystic)																
V			Volcanic undifferentiated																
X			Basaltic																
B			Basaltic																
F			Flow (Basalt)																
B			Basaltic																
D			Dacite (Fragilose rich)																
D			Dacite (Fragilose rich)																
			Trachyte (Ashfall Feldspar rich)																
			Basaltic																
P			Pyroclastic (high Mg/Fe, phenocrystic)																
V			Volcanic undifferentiated																
X			Basaltic																
C			Composites undifferentiated																
F			Flow Top Basalt																
S			Splinter Zone																
L			Liquid (Olivine poor, matrix >50%)																
O			Orthocumulate (Olivine 50-75%)																
M			Mesocumulate (Olivine 75-95%)																
B			Basaltic (Olivine 95%)																
B			Basalt Chert Zone																
P			Pyroclastic (High Magnesium Basalt)																
F			Flow Top Basalt																
C			Cumulates undifferentiated																
B			Basalt Chert Zone																
B			Basaltic																
D			Dacite (Olivine rich)																
P			Pyroclastic (Pyroclastic rich)																
C			Composites (Pyroclastic rich)																
			Basaltic																
			Quartz-biotite schist v.l. garnet, amphibole (metased or meta tuff)																
			Amphibolite (quartz amphibole v.l. biotite garnet (metased or mafic))																
			Talc-carbonate rock (Typically meta Komatiite)																
			Tremolite-Chlorite rock (Typically meta Pyroxenite)																
			Tremolite-Actinolite rock (Typically meta Ni-Mag Basaltic)																
			Massive serpentinite																

Intramafic sequence (T2) to form carbonate alteration. Look for primary textures	
to differentiate between olivine / pyroxene contents, if possible, if unable to	
Identify the primary rock, use the codes below, only if necessary	
Ch	Talc-carbonate altered (usually Komatiitic)
Tr	Tremolite-Chlorite altered (usually Pyroxenitic)
Tr	Tremolite-Actinolite altered (Ni-Mag Basaltic)

Project: Seymour Lake
Prospect: South Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N

Hole ID: SA-18-01
Start Date: 23/Feb/18
End Date: 24/Feb/18
EOH Depth: 150

UTM North: 5584456.699
UTM East: 396680.677
Elevation: 369.977

Collar Survey Method: DGPS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig:

From (m)	To (m)	Hole Size	Drill Type
0	3	HQ	diamond
3	150	BTW	

Drill comments: issues, casing, gear left in hole...): Casing removed after drilling
Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-01

Date Logged: Feb. 25, 2018

EOH called by: DC

EOH Reason: target depths reached

Geologist: DC

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	3.00		OVBN																	Overburden 1m of boulders drilled
3.00	76.20	FRS	VBA		MA PI FO	GY									PA	EP				Mafic volcanic. Massive pillowed basalt. Gen mass with very localized weak fol'n dom @ 35° TCA. Random pillow selvages of amph/cal/qtz and epid. Patchy Fract introduced epid all'n as well. 4-6% calc/epid/qtz veining -planar and irregular and often multi-cm. 2-3cm of clay fault gouge @ 35° TCA
76.20	91.70	WOX	GpP		MA	WH GY GN					0.2	0.01								Massive Pegmatite: Potassic phase with common megacrysts of Kspar. Majority of Kspar perthitic has converted to alb. 5-12% coarse books of dk grn musc. Ave of approx 0.5% Spodumene to which the vast majority has been altered and oxidized soft, rusty brn. Rock is wkly oxidized along xtal margins and micro fractures. 87.2-87.8 is a 1-3cm oxidized clay filled lated brittle structure undulating down core axis. 89.8-90 is a 3-4cm oxidized clay filled late brittle structure @ 10 deg TCA. 90.7 appears to host fgr alb/qtz/musc. flow banding at steep angles TCA.
91.70	93.30	FRS	GPs		MA	WH GN					0.6	0.01								Massive pegmatite: Rock has at least 50% grn Musc; Predominantly Musc and gry qtz with approx 0.5-1% mgr spodumene which is virtually entirely oxidized and altered soft rust brn.
93.30	97.90	FRS	Gpm		MA	WH GY					0.3	0.3								Massive Pegmatite: Sodic phase -predominantly fgr sugary alb can be intimate with gry qtz. Minor fgr grn musc. Local blk Nb/Ta oxides up to 3-4mm. Section contains minor (-0.3%) Spodumene but again it is alt'd and oxidized. Sharp Lower contact @ 60° TCA.
97.90	146.70	FRS	VBA		MA PI FO	GY									PA	EP				Mafic volcanic. Massive pillowed basalt. Gen mass with very localized weak fol'n dom @ 35° TCA. Random pillow selvages of amph/cal/qtz and epid. Patchy Fract introduced epid all'n as well. 4-6% calc/epid/qtz veining -planar and irregular and often multi-cm. Material becomes phaneritic homogenous and wkly veined (no pillows). Arguably intrusive? but maintains a wk fol'n near 35° TCA 1-3% fine planar and coarse irregular qz/carb veining.
146.70	146.76	FRS	GPa		MA	WH GY YL					1.5	0.5								Massive Pegmatite vein/dykelet. Sodic phase alb/qtz with a few mgr xtals of wkly alt'd/oxidized Spod and Nb/Ta oxides up to 4mm. Patchy wk oxid'n. Sharp contacts @ 65 and 35° TCA
146.76	150.00	FRS	VBA		FO	GY									PA	EP				Mafic volcanic. As above dykelet
150.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-01

Date Logged: Feb. 25, 2018

Orientation Tool: REFLEX

Geologist: JYD

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	3.00	3.00	1.00	67	OVCN									Overburden 1m of boulders drilled
3.00	6.00	3.00	3.00	100	VBA	W1	90	10						
6.00	9.00	3.00	3.00	100	VBA	W1	92	13						
9.00	12.00	3.00	3.00	100	VBA	W1	96	8						
12.00	15.00	3.00	3.00	100	VBA	W1	83	20		35		FLT	13.90	3cm clay fault gouge. + sheeted fract'g with fol'n
15.00	18.00	3.00	3.00	100	VBA	W1	97	6						
18.00	21.00	3.00	3.00	100	VBA	W1	93	9						
21.00	24.00	3.00	3.00	100	VBA	W1	100	7						
24.00	27.00	3.00	3.00	100	VBA	W1	95	10						
27.00	30.00	3.00	3.00	100	VBA	W1	95	11	LC	29	010	FO	27.20	Foliation
30.00	33.00	3.00	3.00	100	VBA	W1	100	10						
33.00	36.00	3.00	3.00	100	VBA	W1	94	10						
36.00	39.00	3.00	3.00	100	VBA	W1	98	10						
39.00	42.00	3.00	3.00	100	VBA	W1	92	11						
42.00	45.00	3.00	3.00	100	VBA	W1	96	8	LC	30	350	FO	42.30	Foliation
45.00	48.00	3.00	3.00	100	VBA	W1	95	10						
48.00	51.00	3.00	3.00	100	VBA	W1	95	7						
51.00	54.00	3.00	3.00	100	VBA	W1	83	9						
54.00	57.00	3.00	3.00	100	VBA	W1	92	9						
57.00	60.00	3.00	3.00	100	VBA	W1	98	7						
60.00	63.00	3.00	3.00	100	VBA	W1	89	15	G	38	160	FO	62.40	Foliation
63.00	66.00	3.00	3.00	100	VBA	W1	96	9						
66.00	69.00	3.00	3.00	100	VBA	W1	98	7						
69.00	72.00	3.00	3.00	100	VBA	W1	100	8						

Project: Seymour Lake
Prospect: South Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N

Hole ID: SA-18-02
Start Date: 22/Feb/18
End Date: 23/Feb/18
EOH Depth: 132

UTM North: 5584353.639
UTM East: 396727.290
Elevation: 379.669

Collar Survey Method: DPGS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig:

From (m)	To (m)	Hole Size	Drill Type
0	6	HQ	diamond
6	32	BTW	

Drill comments: issues, casing, gear left in hole...): Casing was removed after drilling

Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-02

Date Logged: 24/2/2018

EOH called by: DC

EOH Reason: Reached target depth

Geologist: DGC, JYD

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	5.80	OVBN																		one granitic boulder drilled
5.80	85.85	FRS	VBA		MA FO	GY										EP		FO	WE	Mafic volcanic. Massive pillowed basalt. Gen mass with very localized weak fol'n dom @ 35° TCA. Random pillow selvages of amph/cal/qtz and epid. Patchy Fract introduced epid all'n as well. 1-3% Qtz/carb veining. 26.5 to 29.3 is badly broken with a wkly oxidized 1-3cm chl/calc/cy shear undulating down core axis. 62.75 is 1 5cm structure of carb/cy and oxid'n @ 90° TCA. Lower contact in ground core.
85.85	86.18	FRS	Gpm		MA BN											BI				Pegmatite dyke/sill. Sodic phase, fgr alb intimate with qtz -cloudy or diffuse xtal margins. Trace lt grn fgr Musc but peg shows abundant quasi laminated biotite. Intercalated with metasomatized host likely.
86.18	114.00	FRS	VBA		MA FO	GY										EP		FO	MD	Pillowed basalt as above, except rock is mod foliated and banded @ 60° TCA. After 94.8m matrix becomes massive. Lower contact in broken and slightly ground core.
114.00	114.48	FRS	GPE		MA	WH BK										GN	TO			Massive Pegmatite: Dominantly mgr-cgr, wh-pk Kspar with interstitial gry qtz. Contains interstitial vfr anhed blk oxides, interstitial hble and traces of garnet and tourmaline. Sharp undulating lower contact @ 72° TCA
114.48	121.38	FRS	VBA		MA FO	GY										EP		FO	WE	Mafic volcanic. Massive pillowed basalt. Gen mass with very localized weak fol'n dom @ 35° TCA. Random pillow selvages of amph/cal/qtz and epid. Patchy Fract introduced epid all'n as well. 1-3% Qtz/carb veining. Gen competent and wkly fract'd. Sharp lower contact @ 80° TCA.
121.38	122.11	FRS	Gpm		MA	WH BK														Massive Pegmatite: Sodic phase dominantly fgr sugary alb -locally as well developed clevelanditegraphic with gry qtz. Rock contains numerous specks of vfr blk Nb/Ta oxides. Trace or very minor fgr lt silver grn Musc. Sharp lower contact @ 67° TCA
122.11	132.00	FRS	VBA		MA FO	GY										EP				Pillowed basalt as above, except rock is massive. 2-3% irreg epid/carb/tx veining. Trace FC Py. Competent and rel pristine.
132.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-02

Date Logged: 24/2/2018

Orientation Tool: REFLEX

Geologist: DGC, JYD

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	5.80	5.80	0.60	10	OVBN									60cm granitic boulder was drilled
5.80	9.00	3.20	3.20	100	VBA	W1	88	15						
9.00	12.00	3.00	3.00	100	VBA	W1	100	5						
12.00	15.00	3.00	3.00	100	VBA	W1	98	6						
15.00	18.00	3.00	3.00	100	VBA	W1	100	3						
18.00	21.00	3.00	3.00	100	VBA	W1	100	2						
21.00	24.00	3.00	3.00	100	VBA	W1	100	1						
24.00	27.00	3.00	3.00	100	VBA	W1	81	5	G	30	320	FO	25.00	
27.00	30.00	3.00	3.00	100	VBA	W1	23	>25						1-3cm wide carb/chl/Cy/Feox shear undulating down core
30.00	33.00	3.00	3.00	100	VBA	W1	94	2						
33.00	36.00	3.00	3.00	100	VBA	W1	98	2						
36.00	39.00	3.00	3.00	100	VBA	W1	100	4						
39.00	42.00	3.00	3.00	100	VBA	W1	100	3						
42.00	45.00	3.00	3.00	100	VBA	W1	100	4						
45.00	48.00	3.00	3.00	100	VBA	W1	100	4						
48.00	51.00	3.00	3.00	100	VBA	W1	98	4						
51.00	54.00	3.00	3.00	100	VBA	W1	100	1	G	40	220	FO	51.30	Foliation
54.00	57.00	3.00	3.00	100	VBA	W1	98	4						
57.00	60.00	3.00	3.00	100	VBA	W1	100	3						
60.00	63.00	3.00	3.00	100	VBA	W1	98	6		90		SH	62.75	62.75 is 5cm carb/cy alt'd and oxidized shear
63.00	66.00	3.00	3.00	100	VBA	W1	98	7						
66.00	69.00	3.00	3.00	100	VBA	W1	100	4						
69.00	72.00	3.00	3.00	100	VBA	W1	86	13						
72.00	75.00	3.00	3.00	100	VBA	W1	83	14						

Project: Seymour Lake
Prospect: Central Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N
UTM North: 5584650.067
UTM East: 396637.233
Elevation: 357.303

Hole ID: SA-18-05
Start Date: 26-Feb-18
End Date: 27-Feb-18
EOH Depth: 120

Collar Survey Method: DGPS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig:

From (m)	To (m)	Hole Size	Drill Type
0	1.4	HQ	diamond
1.4	120	BTW	

Drill comments: issues, casing, gear left in hole...): Casing was removed from the hole after drilling.

Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-05

Date Logged: Mar. 01, 2018

EOH called by: DC

EOH Reason: Reached target depth.

Geologist: DGC, JYD

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	1.40		OVBN																	Overburden, no recovery
1.40	48.70	FRS	VTU		BD FO	GY										GN		BD		Mafic to intermediate bedded ash lapilli tuff. Amphibolite facies metamorphism. Fgr to cgr hble/amph. Bedded dominantly @ 20° with ash to lapilli relict clasts rextal'd to fsp/qtz/amph. 2-3% carb/qtz vein'g mostly conformable to bed'g -fol'n. Weakly hematized fracture from 21 to 21.1m. Rusty oxidized carbonate fracture from 21.9 to 22.1m. Rusty oxidized carbonate zones from 26.25 to 26.5m. Comptent and wkly fract'd. weak hematization along bedding planes. Blocky fracture from 38.9 to 40m Fracture along bedding plane sub-parallel to core axis from 41.5 to 51.6m. Blocky weakly hematized fracture from 52 to 52.2m
48.70	61.85	FRS	VTU		BD FO	LT GY												BD		Light to medium gray, faintly banded crysall tuff. Diffuse feldspar spots (likely relic clasts.) Faint foliation @ 40 degrees. Vfg disseminated garnets. Rockis qtz rich and felsic. Conformable conatcts with bedded mafics.
61.85	83.60	FRS	VTU		BD FO	GY												BD		Mafic to intermediate bedded ash lapilli tuff. Amphibolite facies metamorphism. Fgr to cgr hble/amph. Bedded dominantly @ 20° with ash to lapilli relict clasts rextal'd to fsp/qtz/amph. 2-3% carb/qtz vein'g mostly conformable to bed'g -fol'n. Rock is commonly strongly fractured. Fract'g is commonly vuggy. Tuff appears to be locally intercalated with mafic flow. Str patchy epid alt'n.
83.60	84.30	WOX	GPq		MA	GY RD							0.01	HEM	PA					Massive Pegmatite: Sodic phase with fgr sugary alb or more commonly radiating blades of cleavlandite. With interstitial qtz. Rock is wkly oxidized with Fract controlled Hem becoming near near pervasive. Traces of vfg' blk Nb/Ta oxides? Mod-str'y fractured and broken. Distinct contacts at 60 deg TCA.
84.30	120.00	FRS	VTU		BD FO	GY BK									PA	EP				Mafic tuff as above in 61.85 to 83.6m. Mod-str, often vuggy fract'g and fol'n/bed'g is @ 40° TCA
120.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-05

Date Logged: Mar. 02, 2018

Geologist: DGC, JYD

Orientation Tool: Reflex

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	1.40	1.40	0.00	0	OVBN									Overburden, no recovery
1.40	3.00	1.60	1.60	100	VTU	W1	43	17						
3.00	6.00	3.00	3.00	100	VTU	W1	77	16						
6.00	9.00	3.00	3.00	100	VTU	W1	78	12						
9.00	12.00	3.00	3.00	100	VTU	W1	89	10	LC	30	180	BD	6.00	bedding foliation
12.00	15.00	3.00	3.00	100	VTU	W1	85	15						
15.00	18.00	3.00	3.00	100	VTU	W1	98	7						
18.00	21.00	3.00	3.00	100	VTU	W1	93	10						
21.00	24.00	3.00	3.00	100	VTU	W1	85	14						
24.00	27.00	3.00	3.00	100	VTU	W1	96	11						
27.00	30.00	3.00	3.00	100	VTU	W1	94	11						
30.00	33.00	3.00	3.00	100	VTU	W1	95	9	LC	20	120	BD	30.00	bedding foliation
33.00	36.00	3.00	3.00	100	VTU	W1	100	3						
36.00	39.00	3.00	3.00	100	VTU	W1	97	10						
39.00	42.00	3.00	3.00	100	VTU	W1	98	6	G	20	300	BD	41.50	bedding foliation
42.00	45.00	3.00	3.00	100	VTU	W1	98	5						
45.00	48.00	3.00	3.00	100	VTU	W1	100	5						
48.00	51.00	3.00	3.00	100	VTU	W1	83	11						
51.00	54.00	3.00	3.00	100	VTU	W1	63	21	LC	10	340	FR	51.10	Fract'g running down core axis
54.00	57.00	3.00	3.00	100	VTU	W1	98	9						
57.00	60.00	3.00	3.00	100	VTU	W1	96	11						
60.00	63.00	3.00	3.00	100	VTU	W1	91	12						
63.00	66.00	3.00	3.00	100	VTU	W1	56	13	LC	30	60	BD	63.00	bedding foliation
66.00	69.00	3.00	3.00	100	VTU	W1	100	5						

Project: Seymour Lake
Prospect: Central Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N
UTM North: 5584651.749
UTM East: 396635.901
Elevation: 357.897

Hole ID: SA-18-07
Start Date: 27/Feb/18
End Date: 28/Feb/18
EOH Depth: 140

Collar Survey Method: DGPS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig:

From (m)	To (m)	Hole Size	Drill Type
0	1	HQ	diamond
0	140	BTW	

Drill comments: issues, casing, gear left in hole...): Casing was removed after drilling.

Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-07

Date Logged: Mar. 03, 2018

EOH called by: DC

EOH Reason: Reached target depth

Geologist: DGC, JYD

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	1.00		OVBN																	Overburden, no recovery
1.00	45.30	FRS	VBA		FO PI MA	GY BK GN									PA	EP	CH			Mafic volcanic; Predominantly pillowed basalt with sections of intercalated bedded 9compositionally banded) mafic -intermed tuff. Fgr and typically foliated and bedded @ 30-45° TCA. 2-4% planar and irregular cal/qtz/epid veining. Patchy epid fract introduced. Veining can be vuggy down to 64m. 8.55 to 9.0 is a oxidized Cy alt'd fault -conformable to fabric @ 42°. (9.8 to 10.9 is felsic and qtz rich with possible strained fsp and mafic ash. Homogenous and unaltered with wk fol'n @ 40° TCA). Rock is very locally chloritized about select fract'g. Lower contact with dyke is conformable and sharp @ 37° TCA
45.30	47.15	FRS	GPO		MA PO	GY WH														Felsic dyke; Fsp porphyry, vfg siliceous grmdms with mm wh subhedral fsp pheno's. Sharp contacts with host fabric. Competent, homogenous and unaltered. Becomes distinctly bedded -tuffaceous @ 40-50deg TCA
47.15	73.00	FRS	VBA		FO PI MA	GY BK GN									PA	EP				Mafic volcanic as above in 1.0-45.3m. 67.27 to 67.45 and 72.1 to 72.5 are Pegmatite sill and dykelet -Kspar/qtz fract introduced hem stained/oxidized, becoming near pervasive. Traces of vfg blk Nb/ta oxides and bluish Flour apatite. Lower contact to mafic in broken rubble core.
73.00	75.20	WOX	GPK		MA	GY WH RD					3		0.01							Massive Pegmatite: Dominant fsp is Kspar (with one 15cm section of fgr alb/qtz). Fract introduced hem oxid'n becomes patchy. 2-5% lt grn Spodumene -a small percentage of the Spod has been oxid'd and altered. Traces of vfg blk Nb/ta oxides.
75.20	76.35	WOX	GPa		MA	GY WH YL					0.5		0.05			BE				Massive Pegmatite: Dominant fsp is fgr sugary wh alb often intimate with vfg qtz. Patchy weak yell oxid'n. traces of vfg blk Nb/Ta oxides and local 1-2mm subhedral beryl. Very local minor mgr lt grn Spod.
76.35	88.00	WOX	GPK		MA	GY WH RD					4		0.01							Massive Pegmatite: Fsp is dominant! Kspar intercalated with lesser multi-cm fgr alb. Approx 35 fgr-mgr grn Musc. Variable lt grn Spodumene up to 10% (unaltered). Commonly oxidized/alterd Spod (not included in the 10% est above. Local clay filled fract'g or micro-faulting. traces of vfg blk Nb/Ta oxides.
88.00	92.40	FRS	GPK		MA	GY WH GN					8									Massive Pegmatite: Potassic phase and similar to above, however oxidation has waned away and qtz is often graphic and alb is minor. Variable lt grn Spod up to -10%. Rare traces of vfg blk Nb/ta oxides.
92.40	95.50	FRS	VBA		MA	BK WH											PY			Mafic volcanic; mgr-near cgr amph with fgr-mgr wh fsp and much lesser qtz. Metamorphosed and mod foliated @ -70° TCA. -0.5% cubic Py. Very sharp contact (not following any obvious structure.
95.50	103.90	FRS	GPK		MA	GY WH GN					15									Massive Pegmatite: Potassic phase. Kspar is mostly cloudy and not quite megacrystic. Gry interstrial or quasi graphic qtz. Minor grn Musc. Rel consistent cgr lt grn Spod from 8-25% throughout. Possible mm beryl?. Traces of vfg blk Nb/Ta oxides. Sharp lower contact @ 54° TCA
103.90	104.80	FRS	VBA		FO	BK WH														Metamorphosed mafic volcanic as in 92.4 to 95.5m Sharp lower contact @
104.80	108.80	FRS	GPK		MA	GY WH GN					15									Massive Pegmatite: Same unit as above narrow mafic above.
108.80	131.00	FRS	VBA		MA	BK WH											PY			Mafic volcanic; mgr-near cgr amph with fgr-mgr wh fsp and much lesser qtz. Metamorphosed and wkly foliated @ -55° TCA. Gen str fract'g.
131.00	141.00	FRS	VTU		BD FO	GY														Intermediate bedded tuff; Compositional banding/bedding feldspathic beds vs hble rich bedding. As well as mm fsp (relict ash clasts). Bed'g fabric @ 50° TCA
141.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-07

Date Logged: Mar. 03, 2018

Geologist: DGC JYD

Orientation Tool: Reflex
Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	1.00	1.00	0.00	0	OVCN									Overburden, no recovery
1.00	3.00	2.00	1.90	95	VBA	W1	14	>25						
3.00	6.00	3.00	3.00	100	VBA	W1	86	16						
6.00	9.00	3.00	3.00	100	VBA	W1	85	>25		42		FLT		oxidized , Cy altered late fault, conformable with host fabric
9.00	12.00	3.00	3.00	100	VBA	W1	92	10						
12.00	15.00	3.00	3.00	100	VBA	W1	97	6						
15.00	18.00	3.00	3.00	100	VBA	W1	86	15	LC	40	220	FO	18.00	
18.00	21.00	3.00	3.00	100	VBA	W1	83	17						
21.00	24.00	3.00	3.00	100	VBA	W1	93	12						
24.00	27.00	3.00	3.00	100	VBA	W1	73	8						Fract'g can run down core axis
27.00	30.00	3.00	3.00	100	VBA	W1	94	12						
30.00	33.00	3.00	3.00	100	VBA	W1	86	11	LC	44	200	FO	33.00	
33.00	36.00	3.00	3.00	100	VBA	W1	98	8						
36.00	39.00	3.00	3.00	100	VBA	W1	81	13						
39.00	42.00	3.00	3.00	100	VBA	W1	87	9						
42.00	45.00	3.00	3.00	100	VBA	W1	100	6	LC	40	330	FO	45.00	
45.00	48.00	3.00	3.00	100	VBA	W1	92	10		37		CO	45.30	Felsic dyke contact
48.00	51.00	3.00	3.00	100	VBA	W1	90	10	LC	40	200	FO	51.00	
51.00	54.00	3.00	3.00	100	VBA	W1	84	11						
54.00	57.00	3.00	3.00	100	VBA	W1	92	2						
57.00	60.00	3.00	3.00	100	VBA	W1	96	14						
60.00	63.00	3.00	3.00	100	VBA	W1	60	11						Fract'g can run down core axis
63.00	66.00	3.00	3.00	100	VBA	W1	96	5	LC	50	190	FO	63.10	
66.00	69.00	3.00	3.00	100	VBA	W1	100	11	LC	40	200	FO	69.00	Pegmatite dykelet contact.

SAMPLE & SG LOGS

Hole ID:	SA-18-07	Sampled by:	DGC	DATE:	Mar. 06, 2018			
Sample ID	Sample from (m)	Sample To (m)	Sample Width	Standard # or Duplicate Method	Wet Weight (g)	Dry Weight (g)	Calc SG	
588588	67.30	67.60	0.30					
588589	70.10	71.10	1.00					
588590	BLANK							
588591	71.10	72.10	1.00					
588592	72.10	72.50	0.40					
588593	72.50	73.00	0.50					
588594	73.00	74.00	1.00					
588595	74.00	75.20	1.20					
588596	DUPLICATE							
588597	75.20	76.35	1.15					
588598	76.35	77.00	0.65					
588599	77.00	78.00	1.00					
588600	STANDARD							
588601	78.00	79.00	1.00					
588602	79.00	80.00	1.00					
588603	80.00	81.00	1.00					
588604	81.00	82.00	1.00					
588605	82.00	83.00	1.00					
588606	83.00	84.00	1.00					
588607	84.00	85.00	1.00					
588608	85.00	86.00	1.00					
588609	86.00	87.00	1.00					
588610	BLANK							
588611	87.00	88.00	1.00					
588612	88.00	89.00	1.00					
588613	89.00	90.00	1.00					
588614	90.00	91.00	1.00					
588615	91.00	92.40	1.40					
588616	92.40	93.40	1.00					
588617	93.40	94.40	1.00					
588618	94.40	95.50	1.10					
588619	95.50	96.50	1.00					
588620	STANDARD							
588621	96.50	97.50	1.00					
588622	97.50	98.50	1.00					
588623	98.50	99.50	1.00					

Project: Seymour Lake
 Prospect: Central Aubry
 Claim #: 1245661

Declination: 4.6 W
 Datum/Proj: NAD83 Z16N
 UTM North: 5584560.000
 UTM East: 396629.000
 Elevation: 354.000

Hole ID: SA-18-08
 Start Date: 3/Mar/18
 End Date: 4/Mar/18
 EOH Depth: 141

Collar Survey Method: HH GPS
 Surveyed by: JYD

Drill Co:	Rugged Aviation		
From (m)	To (m)	Hole Size	Drill Type
0	6	HQ	diamond
6	141	BTW	

Drill comments: issues, casing, gear left in hole...): Casing was removed

Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-08

Date Logged: Mar. 08, 2018

EOH called by: DC

EOH Reason: reached target depth

Geologist: DGC

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	6.00		OVBN																	Overburden 1m of ground heterolithic cobbles recovered
6.00	7.70	FRS	GPK		MA	WH GY YL					1		0.1							Massive Pegmatite: Dominant Fsp is creamy wh Kspar and coarse gry qtz. Last 20cm is fgr alb/qtz specked with vfgr blk Nb/Ta oxides that are incipiently oxidizing yell. Minor fgr-mgr grn musc. Sporadic lt grn, mgr Spodumene up to 1-2% which displays minor oxid'n/alt'n about xtal margins. Trace pk mm garnet? Lower contact with narrow gouge @ 90° TCA.
7.70	27.00	FRS	VBA		FO MA	BK WH												FO	MD	Mafic volcanic: Cgr amph with fgr fsp and qtz becoming mgr then fgr downhole. Mod to str foliation from 0-50° -can be wavy and contorted. Mod -str Fract'g with feox coatings. 19.9-20cm is a vfgr qtz/alb likely Pegmatite. Str fract introduced hem becoming near pervasive. contacts in broken rubble.
27.00	72.50	FRS	VTU		BD FO	BL GY													BD	Intermediate tuff: Vfgr -mostly aphanitic with mm strained amph and fsp relict 'clasts', bed'g can be very faint or well developed and clearly defined -bed'g @ 40-50° TCA. 1-2% coarse irregular qtz +/-carb veining. Competent, hard and unaltered. Local -patchy small red garnets Lower contact @ 90° TCA
72.50	73.10	FRS	GPa		MA	WH GY GN														Massive Pegmatite: Sodic zone. Fgr sugary alb (locally as cleavandite) with 'blebby' gry qtz and 2-3% mgr-cgr silvery grn Musc. Sharp Lower contact @ 90° TCA. No Spodumene observed.
73.10	128.80	FRS	VTU		BD FO	BL GY BK									PA	SIL		BD		Intermediate tuff: Same unit as above Pegmatite from 27 to 72.5. Can be mafic -intercalated with m scale sections of basalt. 119 to 126 displays Fract introduced patchy silicification.
128.80	136.70	FRS	VBA		MA FO	GY														Mafic volcanic: Fgr basalt. Mostly massive with local faint -weak foliation @ 60° TCA. Competent, weakly fractured and unaltered. Lower contact with Peg dyke is wavy but @ -18° TCA.
136.70	137.17	FRS	GPa		MA	WH GY GN														Massive Pegmatite: Sodic zone. Fgr sugary alb (locally as cleavandite) with 'blebby' gry qtz and 2-3% mgr-cgr silvery grn Musc. Sharp Lower contact @ 90° TCA. No Spodumene observed.
137.17	141.00	FRS	VBA		MA FO	GY														Mafic volcanic: As above in 128.8-136.5
141.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-08

Date Logged: Mar. 07, 2018

Geologist: DGC, JYD

Orientation Tool: Reflex

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	6.00	6.00	1.00	17	OVBN									Overburden 1m of ground heterolithic cobbles recovered
6.00	9.00	3.00	3.00	100	VBA	W1	43	7		90			7.70	Pegmatite contact
9.00	12.00	3.00	3.00	100	VBA	W1	49	13	LC	30	320	FO	9.10	
12.00	15.00	3.00	3.00	100	VBA	W1	87	5						
15.00	18.00	3.00	3.00	100	VBA	W1	42	25						
18.00	21.00	3.00	3.00	100	VBA	W1	71	9	LC	40	230	FO	21.00	
21.00	24.00	3.00	3.00	100	VBA	W1	90	4						
24.00	27.00	3.00	3.00	100	VBA	W1	20	10						
27.00	30.00	3.00	3.00	100	VTU	W1	98	2						
30.00	33.00	3.00	3.00	100	VTU	W1	100	5						
33.00	36.00	3.00	3.00	100	VTU	W1	100	3						
36.00	39.00	3.00	3.00	100	VTU	W1	94	9	LC	30	240	FO	39.00	
39.00	42.00	3.00	3.00	100	VTU	W1	96	11						
42.00	45.00	3.00	3.00	100	VTU	W1	87	13						
45.00	48.00	3.00	3.00	100	VTU	W1	98	6	LC	40	160	FO	47.90	
48.00	51.00	3.00	3.00	100	VTU	W1	100	5						
51.00	54.00	3.00	3.00	100	VTU	W1	100	3						
54.00	57.00	3.00	3.00	100	VTU	W1	100	3	LC	40	270	FO	56.80	
57.00	60.00	3.00	3.00	100	VTU	W1	100	1						
60.00	63.00	3.00	3.00	100	VTU	W1	100	3						
63.00	66.00	3.00	3.00	100	VTU	W1	100	7						
66.00	69.00	3.00	3.00	100	VTU	W1	98	10	LC	30	210	FO	68.70	
69.00	72.00	3.00	3.00	100	VTU	W1	100	2						
72.00	75.00	3.00	3.00	100	VTU	W1	86	6	LC	90		CO	72.50	Pegmatite contact

Project: Seymour Lake
 Prospect: Central Aubry
 Claim #: 1245661

Declination: 4.6 W
 Datum/Proj: NAD83 Z16N
 UTM North: 5584808.327
 UTM East: 396535.710
 Elevation: 334.267

Hole ID: SA-18-09
 Start Date: 7/Mar/18
 End Date: 8/Mar/18
 EOH Depth: 150

Collar Survey Method: DGPS
 Surveyed by: PS

Drill Co: Rugged Aviation

From (m)	To (m)	Hole Size	Drill Type
0	5	HQ	diamond
5	150	BTW	

Drill comments: issues, casing, gear left in hole...):

Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-09

Date Logged: Mar. 10, 2018

EOH Called By: DC

EOH Reason: Reached target depth

Geologist: DGC

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	5.00		OVBN																	Overburden, no recovery
5.00	51.00	FRS	VTU		BD FO	GY										GN		BD		Intermediate volcanic; Bedded tuff. Gen well defined bed'g with fol'n @ 40-50° TCA. Flecked throughout with fsp relict 'clasts' to 26m. Variable composition with siliceous felsic bed'g vs mafic bedding. Local cm beds of hble/garnet. Rel pristine -gen competent, but locally str fract'g -often sheeted with bed'g/fol'n fabric. 1-2% Qtz/calc veining.
51.00	113.70	FRS	VBA		MA FO	GY												FO	WK	Mafic volcanic; Likely basalt flow. Gen mass and homog -amph (hble) rich, with local wk fol'n @ 40-60deg TCA. Competent and wk-mod fract'g. Unaltered, local intercalation with mafic tuff. 1-2% Qtz/carb/fsp veining.
113.7	136.00	FRS	VTU		BD FO	GY BK										GN	SI	BD		Mafic volcanic; Mafic tuff. Str fol'n/bed'g but distinct compositional banding (bed'g) is localized. Hble rich with common mm fsp relict 'clasts' (ash?). Fabric is dom @ 40deg TCA. Gen competent, unaltered (except very local FC wk sil'n and wkly fract'd. very local mm clusters of pk garnet. Local PO and trace Cpy.
136.00	139.20	FRS	VDA		MA FO	GY														Intermediate to felsic volcanic; Massive to wkly foliated @ 60 deg TCA. Fgr phaneritic, Qtz rich with fine wh fsp and fgr amph. Metamorphosed to amph facies. Rel pristine, competent and wkly fractured. Lower contact.
139.20	139.40	FRS	GPK		MA	WH PK							0.05							Pegmatite dykelet/sill. Dominantly cgr wh-pk Kspar with minor gry Qtz and <1% fgr musc. Interstitial very fgr blk Nb/Ta oxides? Sharp contacts @ 90 and 40 deg TCA. Lower contact somewhat irregular.
139.40	150.00	FRS	VDA		MA FO	GY														Intermediate to felsic volcanic; Massive to wkly foliated @ 60 deg TCA. Fgr phaneritic, Qtz rich with fine wh fsp and fgr amph. Metamorphosed to amph facies. Rel pristine, competent and wkly fractured. Includes a massive felsic fsp porphyry from 146.45 to 146.4m. 149.8-149.87 Peg dykelet -pk/wh Kspar intimate with Qtz, traces of very fgr blk Nb/Ta oxides? chilled injected and very irregular contacts.
150.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-09

Date Logged: Mar. 10, 2018

Geologist: DC

Orientation Tool: Reflex

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	5.00	6.00	0.00	0	OVCN									Overburden, no recovery
5.00	9.00	4.00	3.25	81	VTU	W1	33	>25						
9.00	12.00	3.00	3.00	100	VTU	W1	55	>25						
12.00	15.00	3.00	3.00	100	VTU	W1	98	6						
15.00	18.00	3.00	3.00	100	VTU	W1	95	11						
18.00	21.00	3.00	3.00	100	VTU	W1	95	12						
21.00	24.00	3.00	3.00	100	VTU	W1	92	10						
24.00	27.00	3.00	3.00	100	VTU	W1	80	17						
27.00	30.00	3.00	3.00	100	VTU	W1	95	11						
30.00	33.00	3.00	3.00	100	VTU	W1	60	>25						
33.00	36.00	3.00	3.00	100	VTU	W1	97	9						
36.00	39.00	3.00	3.00	100	VTU	W1	96	8						
39.00	42.00	3.00	3.00	100	VTU	W1	95	10						
42.00	45.00	3.00	3.00	100	VTU	W1	82	17						
45.00	48.00	3.00	3.00	100	VTU	W1	83	16						
48.00	51.00	3.00	3.00	100	VBA	W1	81	24						
51.00	54.00	3.00	3.00	100	VBA	W1	30	18						
54.00	57.00	3.00	3.00	100	VBA	W1	100	7						
57.00	60.00	3.00	3.00	100	VBA	W1	98	7						
60.00	63.00	3.00	3.00	100	VBA	W1	100	8						
63.00	66.00	3.00	3.00	100	VBA	W1	100	6						
66.00	69.00	3.00	3.00	100	VBA	W1	76	>25						
69.00	72.00	3.00	3.00	100	VBA	W1	97	7						
72.00	75.00	3.00	3.00	100	VBA	W1	97	6	LC	45	270	FO	72.10	

Project: Seymour Lake
 Prospect: Central Aubry
 Claim #: 1245661

Declination: 4.6 W
 Datum/Proj: NAD83 Z16N
 UTM North: 5584945.273
 UTM East: 396493.492
 Elevation: 329.286

Hole ID: SA-18-10
 Start Date: 8/Mar/18
 End Date: 10/Mar/18
 EOH Depth: 150

Collar Survey Method: DGPS
 Surveyed by: PS

Drill Co: Rugged Aviation

From (m)	To (m)	Hole Size	Drill Type
0	2.4	HQ	diamond
2.4	150	BTW	

Drill comments: issues, casing, gear left in hole...): Casing was removed

Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-10

Date Logged: 10/3/2018

EOH called by: JYD

EOH Reason: Reached target depth

Geologist: DGC JYD

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments		
0.00	2.40		OVBN																	Overburden, a few ground cobbles recovered		
2.40	20.67	FRS	VTU		BD FO	GY													FO	ST	Mafic volcanic; Likely a tuff? Str pervasive fol'n @ 35-50 deg TCA occasionally showing compositional banding (bed'g). Amph/wh fsp and minor vfr qtz. Gen competent w/ky fractured and rel pristine.	
20.67	21.10	FRS	GPa		MA																Dominantly diffuse -cloudy wh alb intimate with qtz locally becoming cleavandite. 5-8% grn Musc. Sharp contacts @ 40 and 45 deg TCA.	
21.10	140.05	FRS	VTU		BD FO	GY										GN			FO	ST	Mafic to intermediate ash (+lapilli) tuff. Metamorphosed to amph facies. Bedded and foliated @ 40 deg TCA. Amph/wh fsp and minor vfr qtz, local garnet and local fine lenses or clusters of musc. Finely bedded and rel felsic from 49.5m to -bed'g is locally very felsi. Includes a Pegmatite dykelet from 22.5 to 22.65; qtz/alb + 8% fgr-mgr silver and gm Musc. 1-5cm Alb/qtz veining + FC alt'n from 111.7-112.9m.	
140.05	150.00	FRS	GDB		MA	BK															Massive diabase; Fgr aphanitic, homogenous and magnetic. Mostly shattered to coarse angular rubble.	
150.00	EOH																					



STRUCTURAL CORE LOG



Hole ID: SA-18-10

Date Logged: 10/3/2018	Orientation Tool: Reflex
Geologist: DGC, JYD	Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	2.40	2.40	0.25	10										Overburden, a few ground cobbles recovered
2.40	6.00	3.60	3.56	99	VTU	W1	78	19						
6.00	9.00	3.00	3.00	100	VTU	W1	100	4						
9.00	12.00	3.00	3.00	100	VTU	W1	97	8	LC	37	060	FO	9.10	
12.00	15.00	3.00	3.00	100	VTU	W1	92	7	LC	40	300	FO	15.00	
15.00	18.00	3.00	3.00	100	VTU	W1	100	4						
18.00	21.00	3.00	3.00	100	VTU	W1	86	12	LC	40	180	CO	20.67	Pegmatite contact
21.00	24.00	3.00	3.00	100	VTU GPE	W1	81	6	LC	45	170	CO	21.10	Pegmatite contact
24.00	27.00	3.00	3.00	100	VTU	W1	98	4	LC	30	100	CO	22.70	Pegmatite contact
27.00	30.00	3.00	3.00	100	VTU	W1	83	12	LC	30	310	FO	27.00	
30.00	33.00	3.00	3.00	100	VTU	W1	91	7						
33.00	36.00	3.00	3.00	100	VTU	W1	96	5						
36.00	39.00	3.00	3.00	100	VTU	W1	98	7	LC	30	60	BD	36.10	
39.00	42.00	3.00	3.00	100	VTU	W1	100	2						
42.00	45.00	3.00	3.00	100	VTU	W1	98	5						
45.00	48.00	3.00	3.00	100	VTU	W1	76	12	LC	40	340	FO	45.10	
48.00	51.00	3.00	3.00	100	VTU	W1	96	8						
51.00	54.00	3.00	3.00	100	VTU	W1	80	7						
54.00	57.00	3.00	3.00	100	VTU	W1	100	4	LC	40	290	BD	54.20	
57.00	60.00	3.00	3.00	100	VTU	W1	75	16						
60.00	63.00	3.00	3.00	100	VTU	W1	98	4						
63.00	66.00	3.00	3.00	100	VTU	W1	60	12	LC	40	220	FO	66.20	
66.00	69.00	3.00	3.00	100	VTU	W1	100	1						
69.00	72.00	3.00	3.00	100	VTU	W1	100	3						

Project: Seymour Lake
Prospect: Central Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N
UTM North: 5584744.332

Hole ID: SA-18-11
Start Date: 28/Mar/18
End Date: 3/Apr/18
EOH Depth: 240

UTM East: 396747.63
Elevation: 373.795
Collar Survey Method: DGPS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig:

From (m)	To (m)	Hole Size	Drill Type
0	0.85	HQ	diamond
0.85	240	BTW	

Drill comments: mast of drill snapped. Had to be repaired

Geology comments: Instructed to extend DDH depth to 240m

GEOLOGICAL CORE LOG

Hole ID: SA-18-11

Date Logged: Mar. 29/30, 2018

EOH called by: SW

EOH Reason: to hit mafic tuff litho

Geologist: JYD, ADG

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Min Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	0.85		OVBN																	Overburden; no recovery
0.85	119.90	FRS	VBA		MA PI	GY GN WH		Py	Ep		0	0	0	0	PA	EP		VN		Pillowed/massive mafic volcanic; vfgr gray fspar + px matrix with strong qtz/ep/carb veining. Predominantly pillowed basalt with sections of intercalated bedded/compositionally banded mafic -intermed tuff. Carb veins are occasionally vesicular and infilled by qtz. Rock is moderately competent and wkly chloritized along fractures. Wk and patchy fol @ 30° TCA. <1% qtz/chl +/- py infill. Thick mass qtz vein from 119.9-120.3m. L.C. @ 70° TCA.
120.70	122.50	FRS	GPO		MA PO	GY WH					0	0	0	0	PA	EP				Felsic porphyritic dyke; vfgr siliceous grndms with mm wh subhedral fsp pheno's. Sharp contacts with host fabric. Competent, homogenous and unaltered. Becomes distinctly bedded -tuffaceous @ 40-50deg TCA
122.50	157.10	FRS	VBA		FO PI MA	GY BK GN		EP			0	0	0	0	PA	EP				Mafic volcanic as above in 0.85-119.9m -Kspar/Qtz fract introduced patchy hem stained/oxidized. Lower contact to mafic in broken rubble core.
157.10	158.40	FRS	GPO		MA PO	GY WH					0	0	0	0	PA	EP				Felsic porphyritic dyke; vfgr siliceous grndms with mm wh subhedral fsp pheno's. Sharp contacts with host fabric. Competent, homogenous and unaltered. Becomes distinctly bedded -tuffaceous @ 40-50deg TCA
158.40	171.00	FRS	VTU		BD FO	GY					0	0	0	0	PA	EP		BD		Mafic to intermediate bedded ash lapilli tuff. Fgr to cgr hble/amph. Bedded dominantly @ 40°. 2-3% carb/Qtz vein'g mostly conformable to bed'g -fol'n. Rock is commonly strongly fractured. Fract'g is commonly vuggy. Tuff appears to be locally intercalated with mafic flow. Str patchy epid all'n.
171.00	172.00	FRS	GPa		MA	GY WH GN PK	Spod	Fl/Ap	Nb/Ta		7	0	<1	0						Massive pegmatite; intercalated potassic/sodic zones. Consists mainly of wh/pk kspar (up to 8cm long) and often has cloudy/diffuse grain boundaries with gy Qtz. Thin (<5cm wide) sodic zones are banded with potassic zones- sodic zones consist of cleavelandite and contain inclusions of fgr fluoro-ap and vfgr Nb/Ta oxides. Vfgr-mgr spodumene (x-lals up to 2.5cm long) is sub-euhedral and is intimate with anhedral Qtz. 100% of visible spod is pristine and reaches up to 7% across 1m. Trace vfgr cpy. L.C. @
172.00	190.10	FRS	VTU		BD FO	GY					0	0	0	0	PA	EP		BD		as 158.4 to 171m above. Minor vugs with strong epidote alteration.
190.10	232.00	FRS	GAB		MA	GY		Ep	py		0	0	0	0	PA	EP				Medium grained, light gray, massive gabbro. Vuggy patches infilled with epidote and quartz crystals. Minor pyrite along fractures.
232.00	240.00	FRS	VBA		MA PI	GY GN WH		Py	Ep		0	0	0	0	PA	EP		VN		Pillowed/massive mafic volcanic; vfgr gray fspar + px matrix with strong qtz/ep/carb veining. Predominantly pillowed basalt with occasional intercalated mafic -intermed tuff. Carb veins are occasionally vesicular and infilled by Qtz and epidote. Rock is moderately competent and wkly chloritized along fractures. Wk and patchy fol @ 40°
		EOH																		



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-11

Date Logged: Mar. 29/30, 2018

Geologist: JYD, ADG

Orientation Tool: Reflex
Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	0.85	0.85	0.00	0	OVBN									
0.85	3.00	2.15	2.15	100	VBA	W1	89	7						
3.00	6.00	3.00	3.00	100	VBA	W1	79	9						
6.00	9.00	3.00	3.00	100	VBA	W1	97	4						
9.00	12.00	3.00	3.00	100	VBA	W1	98	3						
12.00	15.00	3.00	3.00	100	VBA	W1	100	1						
15.00	18.00	3.00	3.00	100	VBA	W1	97	5	G	30	215	FO	17.70	moderate foliation
18.00	21.00	3.00	3.00	100	VBA	W1	96	2						
21.00	24.00	3.00	3.00	100	VBA	W1	98	3						
24.00	27.00	3.00	3.00	100	VBA	W1	93	8						
27.00	30.00	3.00	3.00	100	VBA	W1	96	7						
30.00	33.00	3.00	3.00	100	VBA	W1	86	10						
33.00	36.00	3.00	3.00	100	VBA	W1	42	25+	G	40	200	FO	32.90	weak foliation
36.00	39.00	3.00	3.00	100	VBA	W1	77	9						
39.00	42.00	3.00	3.00	100	VBA	W1	47	16						
42.00	45.00	3.00	3.00	100	VBA	W1	94	8						
45.00	48.00	3.00	3.00	100	VBA	W1	98	2						
48.00	51.00	3.00	3.00	100	VBA	W1	96	7						
51.00	54.00	3.00	3.00	100	VBA	W1	98	7	G	30	180	FO	60.00	weak foliation
54.00	57.00	3.00	3.00	100	VBA	W1	98	4						
57.00	60.00	3.00	3.00	100	VBA	W1	98	5						
60.00	63.00	3.00	3.00	100	VBA	W1	92	4						
63.00	66.00	3.00	3.00	100	VBA	W1	98	3						
66.00	69.00	3.00	3.00	100	VBA	W1	96	5	G	50	300	FO	66.00	weak foliation

69.00	72.00	3.00	3.00	100	VBA	W1	96	5									
72.00	75.00	3.00	3.00	100	VBA	W1	100	2									
75.00	78.00	3.00	3.00	100	VBA	W1	94	4									
78.00	81.00	3.00	3.00	100	VBA	W1	81	7									
81.00	84.00	3.00	3.00	100	VBA	W1	97	5	G	60	310	FO	81.10	weak foliation			
84.00	87.00	3.00	3.00	100	VBA	W1	100	3									
87.00	91.00	3.00	3.00	100	VBA	W1	100	5									
91.00	93.00	3.00	3.00	100	VBA	W1	98	6									
93.00	96.00	3.00	3.00	100	VBA	W1	96	6									
96.00	99.00	3.00	3.00	100	VBA	W1	96	5	LC	40	280	FO	96.00	Weak foliation			
99.00	102.00	3.00	3.00	100	VBA	W1	84	10									
102.00	105.00	3.00	3.00	100	VBA	W1	98	3									
105.00	108.00	3.00	3.00	100	VBA	W1	96	9									
108.00	111.00	3.00	3.00	100	VBA	W1	75	11									
111.00	114.00	3.00	3.00	100	VBA	W1	98	6									
114.00	117.00	3.00	3.00	100	VBA	W1	73	9	G	30	300	FO	114.00	weak foliation			
117.00	120.00	3.00	3.00	100	VBA	W1	87	8	LC	70	200	CO	119.90	upper Contact with felsic dyke			
120.00	123.00	3.00	3.00	100	GPO	W1	86	5									
123.00	126.00	3.00	3.00	100	VBA	W1	87	8									
126.00	129.00	3.00	3.00	100	VBA	W1	98	9									
129.00	132.00	3.00	3.00	100	VBA	W1	98	6									
132.00	135.00	3.00	3.00	100	VBA	W1	96	4									
135.00	138.00	3.00	3.00	100	VBA	W1	95	5									
138.00	141.00	3.00	3.00	100	VBA	W1	96	6	LC	40	220	FO	138.10	moderate foliation			
141.00	144.00	3.00	3.00	100	VBA	W1	94	7									
144.00	147.00	3.00	3.00	100	VBA	W1	100	5									
147.00	150.00	3.00	3.00	100	VBA	W1	94	6									
150.00	153.00	3.00	3.00	100	VBA	W1	98	10									
153.00	156.00	3.00	3.00	100	VBA	W1	53	25+									
156.00	159.00	3.00	3.00	100	GPO	W1	75	9	LC	40	140	CO	157.10	Upper contact of GPO			
159.00	162.00	3.00	3.00	100	VTU	W1	98	6									
162.00	165.00	3.00	3.00	100	VTU	W1	96	5									
165.00	168.00	3.00	3.00	100	VTU	W1	60	9									
168.00	171.00	3.00	3.00	100	VTU	W1	71	12									
171.00	174.00	3.00	3.00	100	VTU	W1	96	8									
174.00	177.00	3.00	3.00	100	VTU	W1	96	9	G	40	340	FO	176.90	weak foliation			
177.00	180.00	3.00	3.00	100	VTU	W1	94	8									
180.00	183.00	3.00	3.00	100	VTU	W1	98	10									
183.00	186.00	3.00	3.00	100	VTU	W1	100	5									
186.00	189.00	3.00	3.00	100	VTU	W1	98	6									
189.00	192.00	3.00	3.00	100	GAB	W1	98	8									
192.00	195.00	3.00	3.00	100	GAB	W1	84	7						minor vugs			
195.00	198.00	3.00	3.00	100	GAB	W1	36	25+						vuggy. 20cm core loss/ground core			

Project: Seymour Lake
Prospect: Central Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N

Hole ID: SA-18-12
Start Date: 9/Apr/18
End Date: 11/Apr/18
EOH Depth: 201

UTM North: 5584525.883
UTM East: 396764.835
Elevation: 374.604

Collar Survey Method: DGPS

Surveyed by: PS

Drill Co: Rugged Aviation

Drill Rig:

From (m)	To (m)	Hole Size	Drill Type
0	1.8	HQ	diamond
1.8	201	BTW	

Drill comments: Rough terrain
Geology comments:

STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-12

Date Logged: 12 April 2018

Geologist: JYD

Orientation Tool: Reflex

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	1.80	1.80	0.00	0	OVBN									
1.80	3.00	1.20	1.50	100	VBA	W1	21	25+						
3.00	6.00	3.00	3.00	100	VBA	W1	65	12						
6.00	9.00	3.00	3.00	100	VBA	W1	98	4						
9.00	12.00	3.00	3.00	100	VBA	W1	98	7						
12.00	15.00	3.00	3.00	100	VBA	W1	100	3						
15.00	18.00	3.00	3.00	100	GPE	W1	96	7	G	20	220	CO	15.00	Upper contact of pegmatite
18.00	21.00	3.00	3.00	100	GPE	W1	94	2						
21.00	24.00	3.00	3.00	100	GPE	W1	96	4	G	10	200	CO	21.80	Lower contact of pegmatite
24.00	27.00	3.00	3.00	100	VBA	W1	100	5						
27.00	30.00	3.00	3.00	100	VBA	W1	100	4						
30.00	33.00	3.00	3.00	100	VBA	W1	98	6	G	30	210	FO	33.00	weak foliation
33.00	36.00	3.00	3.00	100	VBA	W1	100	5						
36.00	39.00	3.00	3.00	100	VBA	W1	96	7						
39.00	42.00	3.00	3.00	100	VBA	W1	98	5						
42.00	45.00	3.00	3.00	100	VBA	W1	100	5						
45.00	48.00	3.00	3.00	100	VBA	W1	100	4						
48.00	51.00	3.00	3.00	100	VBA	W1	96	6						
51.00	54.00	3.00	3.00	100	VBA	W1	98	7	G	50	160	FO	51.00	weak foliation
54.00	57.00	3.00	3.00	100	VBA	W1	100	2						
57.00	60.00	3.00	3.00	100	VBA	W1	98	5						
60.00	63.00	3.00	3.00	100	VBA	W1	100	4						
63.00	66.00	3.00	3.00	100	VBA	W1	96	5						
66.00	69.00	3.00	3.00	100	VBA	W1	100	4	G	50	170	FO	66.00	weak foliation

69.00	72.00	3.00	3.00	100	VBA	W1	96	7								
72.00	75.00	3.00	3.00	100	VBA	W1	100	5								
75.00	78.00	3.00	3.00	100	VBA	W1	98	4								
78.00	81.00	3.00	3.00	100	VBA	W1	86	11	G	30	160	FO	81.00	weak foliation		
81.00	84.00	3.00	3.00	100	VBA	W1	100	4								
84.00	87.00	3.00	3.00	100	VBA	W1	100	5								
87.00	90.00	3.00	3.00	100	VBA	W1	98	4								
90.00	93.00	3.00	3.00	100	VBA	W1	78	9								
93.00	96.00	3.00	3.00	100	VBA	W1	86	11								
96.00	99.00	3.00	3.00	100	VBA	W1	96	7	G	40	180	FO	99.00	Weak foliation		
99.00	102.00	3.00	3.00	100	VBA	W1	100	7								
102.00	105.00	3.00	3.00	100	VBA	W1	100	8								
105.00	108.00	3.00	3.00	100	VBA	W1	82	9								
108.00	111.00	3.00	3.00	100	VBA	W1	98	5								
111.00	114.00	3.00	3.00	100	VBA	W1	94	7								
114.00	117.00	3.00	3.00	100	VBA	W1	96	7	G	50	280	FO	115.50	weak foliation		
117.00	120.00	3.00	3.00	100	VBA	W1	100	5								
120.00	123.00	3.00	3.00	100	VBA	W1	100	6								
123.00	126.00	3.00	3.00	100	VBA	W1	100	9								
126.00	129.00	3.00	3.00	100	VBA	W1	100	5								
129.00	132.00	3.00	3.00	100	VBA	W1	100	4								
132.00	135.00	3.00	3.00	100	VBA	W1	98	7								
135.00	138.00	3.00	3.00	100	VBA	W1	100	6								
138.00	141.00	3.00	3.00	100	VBA	W1	100	4	G	60	210	FO	139.90	weak foliation		
141.00	144.00	3.00	3.00	100	VBA	W1	100	4								
144.00	147.00	3.00	3.00	100	VBA	W1	96	7								
147.00	150.00	3.00	3.00	100	VBA	W1	98	5								
150.00	153.00	3.00	3.00	100	VBA	W1	100	7								
153.00	156.00	3.00	3.00	100	VBA	W1	100	5								
156.00	159.00	3.00	3.00	100	VBA	W1	98	7								
159.00	162.00	3.00	3.00	100	VBA	W1	100	5	G	50	280	FO	159.10	weak foliation		
162.00	165.00	3.00	3.00	100	VBA	W1	100	5								
165.00	168.00	3.00	3.00	100	VBA	W1	94	8								
168.00	171.00	3.00	3.00	100	VBA	W1	98	7								
171.00	174.00	3.00	3.00	100	VBA	W1	100	4								
174.00	177.00	3.00	3.00	100	VBA	W1	100	8								
177.00	180.00	3.00	3.00	100	VBA	W1	98	8								
180.00	183.00	3.00	3.00	100	VBA	W1	100	11								
183.00	186.00	3.00	3.00	100	VBA	W1	100	5								
186.00	189.00	3.00	3.00	100	VBA	W1	96	5								
189.00	192.00	3.00	3.00	100	VBA	W1	84	11								
192.00	195.00	3.00	3.00	100	GPE	W1	86	7	G	80	190	CO	192.50	upper contact pegmatite		
195.00	198.00	3.00	3.00	100	VBA	W1	98	5								

Project: Seymour Lake
Prospect: North Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N

Hole ID: SA-18-13
Start Date: 17/Apr/18
End Date: 18/Apr/18
EOH Depth: 99

UTM North: 5585109.583
UTM East: 396846.115
Elevation: 374.604

Collar Survey Method: DGPS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig: 1

From (m)	To (m)	Hole Size	Drill Type
0	3.3	HQ	diamond
3.3	99	BTW	

Drill comments:
Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-13

Date Logged: 19/4/2018

EOH called by: SW (Ardiden)

EOH Reason: Reached target depth.

Geologist: JYD

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	3.30		OVBN																	Overburden a few ground cobbles recovered
3.30	9.00	FRS	VTU		BD FO	GY										GN		BD		Mafic to intermediate bedded ash lapilli tuff. Amphibolite facies metamorphism. Fgr to cgr hble/amph. Bedded dominantly @ 30° with ash to lapilli relict clasts rextal'd to fsp/qtz/amph. 2-3% carb/qtz vein'g mostly conformable to bed'g -fol'n. Comptent and wkly fract'd. Local mm pk garne and cubic pyr.
9.90	9.70	FRS	GPa		MA	GY WH GN PK		Fl/Ap	Nb/Ta		0	0	<1	0						Massive pegmatite; intercalated potassic/sodic zones. Consists mainly of wh/pk kspar and often has cloudy/diffuse grain boundaries with gy qtz. No visible spodumene.
9.70	41.00	FRS	VTU		BD FO	GY										GN		BD		As 3.3 to 9m. Patches of intercollated basalt. Hematite infill along bedding planes. Broken/fractured zone 50.3 to 50.8m.
41.00	42.70	FRS	GPa		MA	GY WH GN PK		Fl/Ap	Nb/Ta		0	0	<1	0						Massive pegmatite; intercalated potassic/sodic zones. Consists mainly of wh/pk kspar and often has cloudy/diffuse grain boundaries with gy qtz. No visible spodumene.
42.70	99.00	FRS	VTU		BD FO	GY										GN		BD		As 3.3 to 9m. Patches of intercollated basalt. Multiple chloritized/hematized shear zones along bedding plane @3- degrees off core axis.
99.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-13

Date Logged: 19/4/2018

Orientation Tool: REFLEX

Geologist: JYD

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	3.30													Overburden a few ground cobbles recovered
3.30	6.00	2.70	2.70	100	VTU	W1	64	6						
6.00	9.00	3.00	3.00	100	VTU	W1	42	4						Fractured sub-parallel to core
9.00	12.00	3.00	3.00	100	VTU	W1	84	8	LC	30	190	CO	9.70	lower contact pegmatite
12.00	15.00	3.00	3.00	100	VTU	W1	98	6						
15.00	18.00	3.00	3.00	100	VTU	W1	96	10						
18.00	21.00	3.00	3.00	100	VTU	W1	100	5						
21.00	24.00	3.00	3.00	100	VTU	W1	68	19	CO	30	110	BD	21.00	moderate bedding foliation
24.00	27.00	3.00	3.00	100	VTU	W1	96	3						
27.00	30.00	3.00	3.00	100	VTU	W1	100	3						
30.00	33.00	3.00	3.00	100	VTU	W1	100	1						
33.00	36.00	3.00	3.00	100	VTU	W1	98	3						
36.00	39.00	3.00	3.00	100	VTU	W1	98	4	CO	30	220	BD	38.90	moderate bedding foliation
39.00	42.00	3.00	3.00	100	VTU	W1	84	9	CO	60	180	CO	41.00	upper contact pegmatite
42.00	45.00	3.00	3.00	100	VTU	W1	94	10	CO	60	210	CO	42.70	lower contact pegmatite
45.00	48.00	3.00	3.00	100	VTU	W1	100	4						
48.00	51.00	3.00	3.00	100	VTU	W1	62	25+						
51.00	54.00	3.00	3.00	100	VTU	W1	76	16						
54.00	57.00	3.00	3.00	100	VTU	W1	92	9						
57.00	60.00	3.00	3.00	100	VTU	W1	98	5	CO	40	160	BD	59.90	moderate bedding foliation
60.00	63.00	3.00	3.00	100	VTU	W1	98	4						
63.00	66.00	3.00	3.00	100	VTU	W1	96	7						
66.00	69.00	3.00	3.00	100	VTU	W1	98	5						
69.00	72.00	3.00	3.00	100	VTU	W1	100	5						
72.00	75.00	3.00	3.00	100	VTU	W1	74	5						

Project: Seymour Lake
Prospect: North Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N
UTM North: 5585138.894
UTM East: 396849.803
Elevation: 376.675

Hole ID: SA-18-14
Start Date: 14/Feb/18
End Date: 15/Feb/18
EOH Depth: 102

Collar Survey Method: DGPS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig: 1

From (m)	To (m)	Hole Size	Drill Type
0	3	HQ	
3	102	BTW	

Drill comments: issues, casing, gear left in hole...): Casing was removed after drilling
Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-14

Date Logged: 21/2/2018

EOH called by: SW (Ardiden)

EOH Reason: Reached target depth.

Geologist: DGC, JYD

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	1.50		OVBN																	Overburden a few ground cobbles recovered
1.50	31.70	FRS	VBA		MA	GY GN												FO	WE	Pillowed basalt. Fgr, mostly massive, local weak foliation @ 20-35° TCA. Hble -amph rich. Random pillow selvages of amph/calc +/- qtz. Weak-mod fract'g, competent and rel pristine. 2-3% planar and irregular qtz/carb veining. . Diffuse lower contact
31.70	102.00	FRS	VTU		BD FO	GY										GN		BD		Mafic to intermediate bedded ash lapilli tuff. Amphibolite facies metamorphism. Fgr to cgr hble/amph. Bedded dominantly @ 40° with ash to lapilli relict clasts rextal'd to fsp/qtz/amph. Local fgr pk garnet. 2-3% carb/qtz vein'g mostly conformable to bed'g -foln. Comptent and wkly fract'd. Local mm pk garnet. Becomes porphyritic @ 80m with 1-3mm subhedral wh fsp pheno's (re-xtal'd ash clasts?) Fractured to angular rubble from 51.0 to 51.7m.
102.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-14

Date Logged: 21/2/2018

Orientation Tool: REFLEX

Geologist: DGC, JYD

Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	1.50													Overburden a few ground cobbles recovered
1.50	2.00	0.50	0.50	100	VBA	W2	40	5						
2.00	6.00	4.00	4.00	100	VBA	W1	80	8						Cy/FeOx fract fill
6.00	9.00	3.00	3.00	100	VBA	W1	100	8						
9.00	12.00	3.00	3.00	100	VBA	W1	98	10						
12.00	15.00	3.00	3.00	100	VBA	W1	98	6						
15.00	18.00	3.00	3.00	100	VBA	W1	98	6						
18.00	21.00	3.00	3.00	100	VBA	W1	100	5						
21.00	24.00	3.00	3.00	100	VBA	W1	100	2	LC	30	77	FO	21.70	weak foliation
24.00	27.00	3.00	3.00	100	VBA	W1	100	3						
27.00	30.00	3.00	3.00	100	VBA	W1	97	2						
30.00	33.00	3.00	3.00	100	VBA VTU	W1	100	3						
33.00	36.00	3.00	3.00	100	VTU	W1	98	4						
36.00	39.00	3.00	3.00	100	VTU	W1	100	2						
39.00	42.00	3.00	3.00	100	VTU	W1	100	0						
42.00	45.00	3.00	3.00	100	VTU	W1	98	2						
45.00	48.00	3.00	3.00	100	VTU	W1	100	1						
48.00	51.00	3.00	3.00	100	VTU	W1	96	8						
51.00	54.00	3.00	3.00	100	VTU	W1	73	>25	LC	40	240	FR	51.80	Sheeted fracture set. 70cm of broken core
54.00	57.00	3.00	3.00	100	VTU	W1	100	1						
57.00	60.00	3.00	3.00	100	VTU	W1	100	3	LC	40	88	BD	60.30	Bedding foliation
60.00	63.00	3.00	3.00	100	VTU	W1	98	3						
63.00	66.00	3.00	3.00	100	VTU	W1	100	4						
66.00	69.00	3.00	3.00	100	VTU	W1	100	2	G	30	215	BD	69.00	Bedding foliation

Project: Seymour Lake
Prospect: Central Aubry
Claim #: 1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N
UTM North: 5584744.490
UTM East: 396747.829
Elevation: 373.460

Hole ID: SA-18-15
Start Date: 4/Apr/18
End Date: 7/Apr/18
EOH Depth: 228

Collar Survey Method: DGPS
Surveyed by: PS

Drill Co: Rugged Aviation
Drill Rig:

From (m)	To (m)	Hole Size	Drill Type
0	1.5	HQ	diamond
1.5	228	BTW	

Drill comments:
Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-15

Date Logged: April 8, 2018

EOH called by: SW (Ardiden)

EOH Reason: to hit mafic tuff litho

Geologist: JYD, ADG

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	1.50		OVBN																	Overburden; no recovery
1.50	129.50	FRS	VBA		MA PI	GY GN WH	Py	Ep			0	0	0	0	PA	EP		VN		Pillowed/massive mafic volcanic; very fine grained gray with strong qtz/ep/carb veining. Predominantly pillowed basalt with sections of intercalated bedded/compositionally banded mafic -intermed tuff. Carb veins are occasionally vesicular and infilled by qtz. Rock is moderately competent and wkly chloritized along fractures. Wk and patchy fol @ 40° TCA. <1% qtz/chl +/- py infill. 10 cm bull qtz vein from 7.1 to 7.2m. 10 cm qtz vein at 18.3 to 18.4 cm. Brecciated fault zone w carbonate infill from 156 to 160m. 30 cm core loss.
129.50	130.60	FRS	GPO		MA PO	GY WH					0	0	0	0	PA	EP				Felsic porphyritic dyke; vfgr siliceous grndms with mm wh subhedral fsp pheno's. Sharp contacts with host fabric. Competent, homogenous and unaltered. Becomes distinctly bedded -tuffaceous @ 40-50deg TCA
130.60		FRS	VBA		FO PI MA	GY BK GN	EP				0	0	0	0	PA	EP				Mafic volcanic as above in 1.5-129.5m Brecciated fault zone w carbonate infill from 156 to 160m. 30 cm core loss. Patchy hem stained/oxidized throughout fault zone.
157.10	158.40	FRS	GPO		MA PO	GY WH					0	0	0	0	PA	EP				Felsic porphyritic dyke; vfgr siliceous grndms with mm wh subhedral fsp pheno's. Sharp contacts with host fabric. Competent, homogenous and unaltered. Becomes distinctly bedded -tuffaceous @ 40-50deg TCA
158.40	173.10	FRS	VBA		BD FO	GY					0	0	0	0	PA	EP		BD		Mafic volcanic. Brecciated fault zone w carbonate infill. Patchy hem stained/oxidized throughout fault zone.
173.10	174.80	FRS	GPa		MA	GY WH GN PK	Fl/Ap	Nb/Ta			0	0	<1	0						Massive pegmatite; intercalated potassic/sodic zones. Consists mainly of wh/pk kspar and often has cloudy/diffuse grain boundaries with gy qtz. Thin (<5cm wide) sodic zones are banded with potassic zones and qtz crystals- Trace vfgr cpy. L.C. @
174.80	197.80	FRS	VBA		BD FO	GY					0	0	0	0	PA	EP		BD		as 158.4 to 173.8m above. Minor vugs with strong epidote alteration.
197.80	228.00	FRS	VTU		MA	GY	Ep	py			0	0	0	0	PA	EP				Medium grained, light gray, massive gabbro. Vuggy patches infilled with epidote and quartz crystals. Minor pyrite along fractures. Intercollated with mafic to intermediate tuff.
228.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-15

Date Logged: April 9, 2018

Geologist: JYD, ADG

Orientation Tool: Reflex
Ori top or bottom of hole: bottom

Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	1.50	1.50	0.00	0	OVBN									
1.50	3.00	1.50	1.50	100	VBA	W1	53	25+						
3.00	6.00	3.00	3.00	100	VBA	W1	86	12						
6.00	9.00	3.00	3.00	100	VBA	W1	94	9						
9.00	12.00	3.00	3.00	100	VBA	W1	98	7						
12.00	15.00	3.00	3.00	100	VBA	W1	96	12						
15.00	18.00	3.00	3.00	100	VBA	W1	98	15	G	40	220	FO	17.90	weak foliation
18.00	21.00	3.00	3.00	100	VBA	W1	94	8						
21.00	24.00	3.00	3.00	100	VBA	W1	92	10						
24.00	27.00	3.00	3.00	100	VBA	W1	100	5						
27.00	30.00	3.00	3.00	100	VBA	W1	63	16						
30.00	33.00	3.00	3.00	100	VBA	W1	85	11	G	30	190	FO	32.90	weak foliation
33.00	36.00	3.00	3.00	100	VBA	W1	98	6						
36.00	39.00	3.00	3.00	100	VBA	W1	97	8						
39.00	42.00	3.00	3.00	100	VBA	W1	81	7						
42.00	45.00	3.00	3.00	100	VBA	W1	98	2						
45.00	48.00	3.00	3.00	100	VBA	W1	100	4						
48.00	51.00	3.00	3.00	100	VBA	W1	100	3						
51.00	54.00	3.00	3.00	100	VBA	W1	98	4	G	50	240	FO	51.00	weak foliation
54.00	57.00	3.00	3.00	100	VBA	W1	100	3						
57.00	60.00	3.00	3.00	100	VBA	W1	98	8						
60.00	63.00	3.00	3.00	100	VBA	W1	96	6						
63.00	66.00	3.00	3.00	100	VBA	W1	100	6						
66.00	69.00	3.00	3.00	100	VBA	W1	96	9	G	40	180	FO	66.00	weak foliation

69.00	72.00	3.00	3.00	100	VBA	W1	100	4								
72.00	75.00	3.00	3.00	100	VBA	W1	96	6								
75.00	78.00	3.00	3.00	100	VBA	W1	98	2								
78.00	81.00	3.00	3.00	100	VBA	W1	100	3	G	30	160	FO	79.90	weak foliation		
81.00	84.00	3.00	3.00	100	VBA	W1	98	4								
84.00	87.00	3.00	3.00	100	VBA	W1	96	5								
87.00	90.00	3.00	3.00	100	VBA	W1	100	2								
90.00	93.00	3.00	3.00	100	VBA	W1	100	4								
93.00	96.00	3.00	3.00	100	VBA	W1	96	6								
96.00	99.00	3.00	3.00	100	VBA	W1	100	3	G	50	200	FO	99.00	Weak foliation		
99.00	102.00	3.00	3.00	100	VBA	W1	100	4								
102.00	105.00	3.00	3.00	100	VBA	W1	98	7								
105.00	108.00	3.00	3.00	100	VBA	W1	98	6								
108.00	111.00	3.00	3.00	100	VBA	W1	96	7								
111.00	114.00	3.00	3.00	100	VBA	W1	100	8								
114.00	117.00	3.00	3.00	100	VBA	W1	94	12	G	60	70	FO	114.00	weak foliation		
117.00	120.00	3.00	3.00	100	VBA	W1	98	5								
120.00	123.00	3.00	3.00	100	VBA	W1	96	7								
123.00	126.00	3.00	3.00	100	VBA	W1	77	13								
126.00	129.00	3.00	3.00	100	VBA	W1	94	8								
129.00	132.00	3.00	3.00	100	VBA	W1	96	7								
132.00	135.00	3.00	3.00	100	VBA	W1	88	13								
135.00	138.00	3.00	3.00	100	VBA	W1	98	4								
138.00	141.00	3.00	3.00	100	VBA	W1	98	6	G	60	170	FO	139.90	moderate foliation		
141.00	144.00	3.00	3.00	100	VBA	W1	96	7								
144.00	147.00	3.00	3.00	100	VBA	W1	98	5								
147.00	150.00	3.00	3.00	100	VBA	W1	96	7								
150.00	153.00	3.00	3.00	100	VBA	W1	98	10								
153.00	156.00	3.00	3.00	100	VBA	W1	72	13								
156.00	159.00	3.00	3.00	100	VBA	W1	20	25+						carbonate infilled brecciated zone.30cm core loss		
159.00	162.00	3.00	3.00	100	VBA	W1	54	25+								
162.00	165.00	3.00	3.00	100	VBA	W1	64	25+								
165.00	168.00	3.00	3.00	100	VBA	W1	72	11								
168.00	171.00	3.00	3.00	100	VBA	W1	94	7								
171.00	174.00	3.00	3.00	100	VBA	W1	84	13	G	80	240	CO	173.10	upper contact pegmatite		
174.00	177.00	3.00	3.00	100	VBA	W1	76	17	G	90	280	CO	174.80	lower contact pergamtite		
177.00	180.00	3.00	3.00	100	VBA	W1	98	6								
180.00	183.00	3.00	3.00	100	VBA	W1	96	8								
183.00	186.00	3.00	3.00	100	VBA	W1	94	7								
186.00	189.00	3.00	3.00	100	VBA	W1	78	14								
189.00	192.00	3.00	3.00	100	VBA	W1	96	6								
192.00	195.00	3.00	3.00	100	VBA	W1	84	11								
195.00	198.00	3.00	3.00	100	VTU	W1	94	8								

Project:	Seymour Lake
Prospect:	East Aubry
Claim #:	1245661

Declination: 4.6 W
Datum/Proj: NAD83 Z16N

Hole ID:	SA-18-16
Start Date:	11/Apr/18
End Date:	16/Apr/18
EOH Depth:	201

UTM North: 5584980.164
UTM East: 397186.910
Elevation: 381.387

Collar Survey Method: DGPS

Surveyed by: PS

Drill Co:	Rugged Aviation
Drill Rig:	1

m From	m To	Hole Size	Drill Type
0	3.7	HQ	diamond
3.7	201	BTW	

Drill comments:
Geology comments:

GEOLOGICAL CORE LOG

Hole ID: SA-18-16

Date Logged: 18/4/2018

EOH called by: SW (Ardiden)

EOH Reason: planned depth reached

Geologist: JYD

Depth From (m)	Depth To (m)	Oxidation	Lithology 1	Lithology 2	Texture	Colour	Mineral 1	Mineral 2	Mineral 3	Mineral 4	Spodumene %	Lepidolite %	Nb/Ta Oxide %	Fe/Mn Oxide %	Alteration style	Alteration 1	Alteration 2	Structure	Struct Intensity	Comments
0.00	3.70		OVBN																	Overburden; no recovery
3.70	124.90	FRS	VBA		MA PI	GY GN WH		Py	Ep		0	0	0	0	PA	EP		VN		Pillowed/massive mafic volcanic; very fine grained gray with strong qtz/ep/carb veining. Predominantly pillowed basalt with sections of intercalated bedded/compositionally banded mafic -intermed tuff. Carb veins are occasionally vesicular and infilled by qtz. Rock is moderately competent and wkly chloritized along fractures. Wk and patchy fol @ 30° TCA. 15 cm qtz vein at 11.8m. 10 cm qtz vein w minor pink garnets @ 51.3m. Blocky zone from 115 to 115.2m. Magnetic Susceptibility 1.5x10-3SI.
124.90	125.70	FRS	GPE		MA	GY WH PK		Fl/Ap	Nb/Ta		0	0	<1	0						Massive pegmatite; Sodic zones. Consists mainly of wh/pk kspar and often has cloudy/diffuse grain boundaries with gy qtz. Sodic zones are banded with flourapatite zones and qtz crystals- Muscovite. Magnetic Susceptibility 0.02x10-3SI.
125.70	201.00	FRS	VBA		FO PI MA	GY BK GN		EP			0	0	0	0	PA	EP				Mafic volcanic as above in 3.7-124.9m. Qtz/carb patches. 10cm qtz vein from 131.6 to 131.7m. 20cm blocky zone from 188.1 to 188.3m
201.00	EOH																			



STRUCTURAL CORE LOG



ARDIDEN

Hole ID: SA-18-16

Date Logged: 18 April 2018

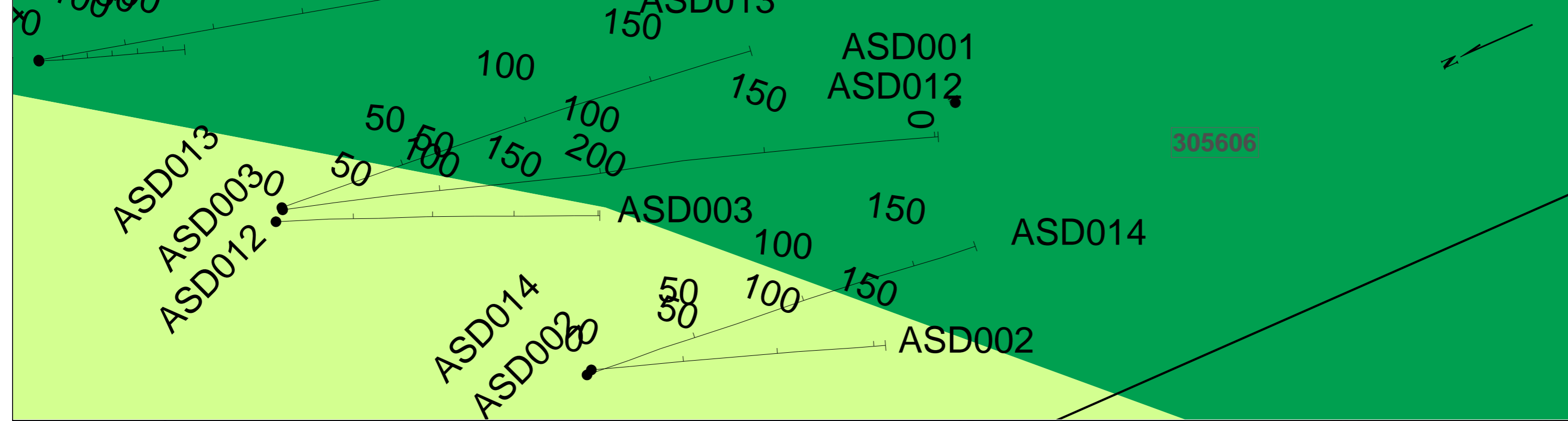
Geologist: JYD

Orientation Tool: Reflex
Ori top or bottom of hole: bottom

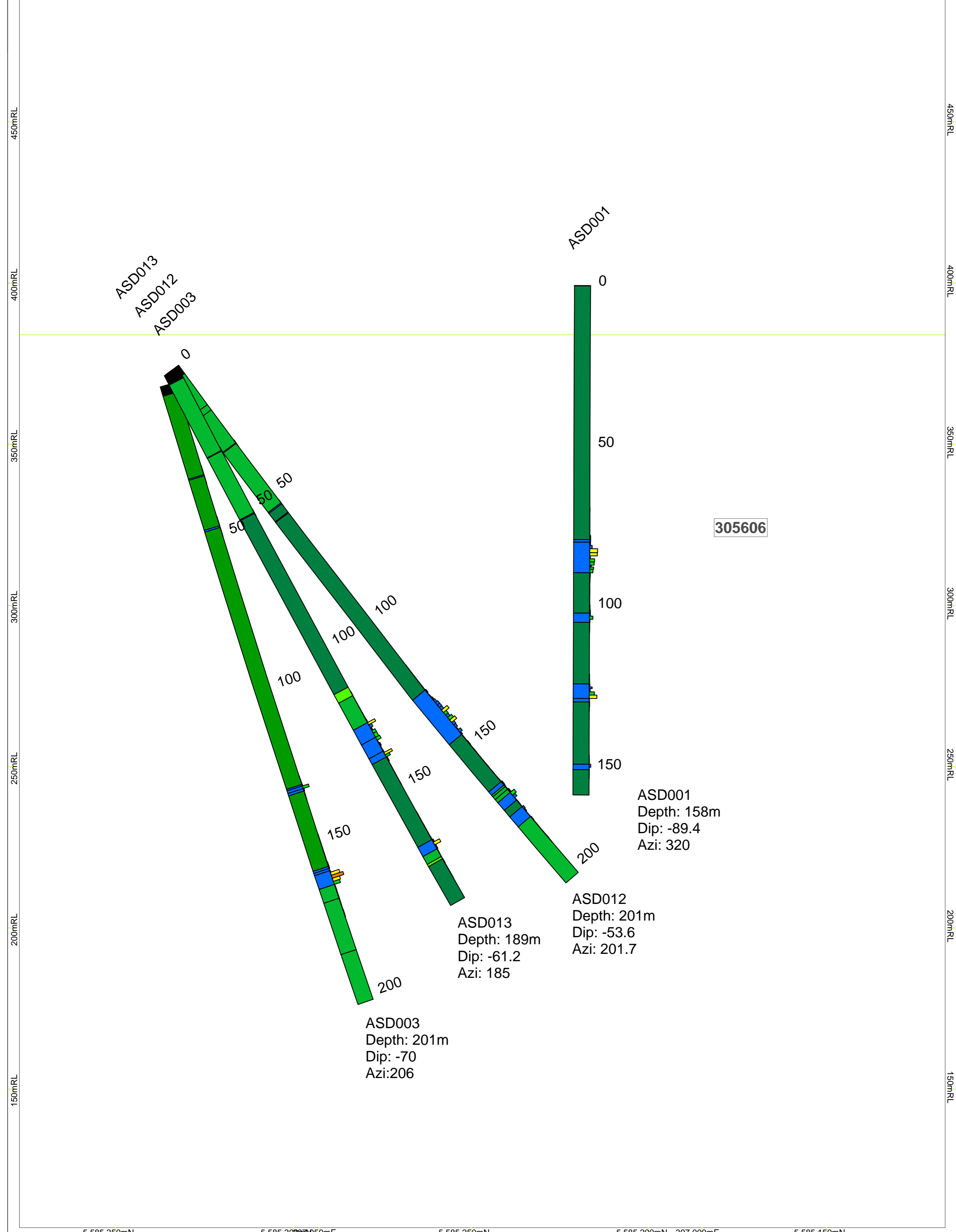
Drill Data							Defect Data		Orientated core data					Comments
Depth From (m)	Depth To (m)	Interval (m)	Recovery (m)	Recovery (%)	Rock Type	Weathering	RQD	No. Defects	Orient'n confidence	Alpha	Beta	Feature measured	depth (m)	Comments
0.00	3.70	3.70	0.00	0	OVBN									
3.70	6.00	2.30	2.30	100	VBA	W1	74	12						
6.00	9.00	3.00	3.00	100	VBA	W1	94	9						
9.00	12.00	3.00	3.00	100	VBA	W1	98	7						
12.00	15.00	3.00	3.00	100	VBA	W1	96	6						
15.00	18.00	3.00	3.00	100	VBA	W1	98	5	CO	30	120	FO	15.00	weak foliation
18.00	21.00	3.00	3.00	100	VBA	W1	94	8						
21.00	24.00	3.00	3.00	100	VBA	W1	100	4						
24.00	27.00	3.00	3.00	100	VBA	W1	100	5						
27.00	30.00	3.00	3.00	100	VBA	W1	96	5						
30.00	33.00	3.00	3.00	100	VBA	W1	93	11	CO	30	170	FO	30.50	weak foliation
33.00	36.00	3.00	3.00	100	VBA	W1	98	6						
36.00	39.00	3.00	3.00	100	VBA	W1	100	4						
39.00	42.00	3.00	3.00	100	VBA	W1	81	7						
42.00	45.00	3.00	3.00	100	VBA	W1	98	2						
45.00	48.00	3.00	3.00	100	VBA	W1	100	4						
48.00	51.00	3.00	3.00	100	VBA	W1	100	3						
51.00	54.00	3.00	3.00	100	VBA	W1	98	4	CO	40	180	FO	51.00	weak foliation
54.00	57.00	3.00	3.00	100	VBA	W1	100	3						
57.00	60.00	3.00	3.00	100	VBA	W1	98	8						
60.00	63.00	3.00	3.00	100	VBA	W1	96	6						
63.00	66.00	3.00	3.00	100	VBA	W1	100	6						
66.00	69.00	3.00	3.00	100	VBA	W1	100	7						
69.00	72.00	3.00	3.00	100	VBA	W1	96	8						

72.00	75.00	3.00	3.00	100	VBA	W1	100	5							
75.00	78.00	3.00	3.00	100	VBA	W1	98	7							
78.00	81.00	3.00	3.00	100	VBA	W1	98	6	CO	60	160	FO	78.10	weak foliation	
81.00	84.00	3.00	3.00	100	VBA	W1	98	5							
84.00	87.00	3.00	3.00	100	VBA	W1	84	13							
87.00	90.00	3.00	3.00	100	VBA	W1	88	11							
90.00	93.00	3.00	3.00	100	VBA	W1	96	9							
93.00	96.00	3.00	3.00	100	VBA	W1	98	7							
96.00	99.00	3.00	3.00	100	VBA	W1	100	4	CO	50	210	FO	98.90	Weak foliation	
99.00	102.00	3.00	3.00	100	VBA	W1	96	7							
102.00	105.00	3.00	3.00	100	VBA	W1	100	3							
105.00	108.00	3.00	3.00	100	VBA	W1	98	6							
108.00	111.00	3.00	3.00	100	VBA	W1	82	14							
111.00	114.00	3.00	3.00	100	VBA	W1	94	9							
114.00	117.00	3.00	3.00	100	VBA	W1	82	17	LC	60	110	FO	117.00	weak foliation	
117.00	120.00	3.00	3.00	100	VBA	W1	100	5							
120.00	123.00	3.00	3.00	100	VBA	W1	98	3							
123.00	126.00	3.00	3.00	100	VBA	W1	96	5	CO	70	80	CO	124.90	upper contact pegmatte	
126.00	129.00	3.00	3.00	100	VBA	W1	100	4							
129.00	132.00	3.00	3.00	100	VBA	W1	100	4							
132.00	135.00	3.00	3.00	100	VBA	W1	100	7							
135.00	138.00	3.00	3.00	100	VBA	W1	100	2							
138.00	141.00	3.00	3.00	100	VBA	W1	98	5	CO	60	180	FO	140.90	weak foliation	
141.00	144.00	3.00	3.00	100	VBA	W1	94	7							
144.00	147.00	3.00	3.00	100	VBA	W1	100	4							
147.00	150.00	3.00	3.00	100	VBA	W1	98	5							
150.00	153.00	3.00	3.00	100	VBA	W1	100	7							
153.00	156.00	3.00	3.00	100	VBA	W1	94	9							
156.00	159.00	3.00	3.00	100	VBA	W1	100	5							
159.00	162.00	3.00	3.00	100	VBA	W1	100	6							
162.00	165.00	3.00	3.00	100	VBA	W1	98	5	CO	50	210	FOL	164.90	weak foliation	
165.00	168.00	3.00	3.00	100	VBA	W1	100	5							
168.00	171.00	3.00	3.00	100	VBA	W1	100	6							
171.00	174.00	3.00	3.00	100	VBA	W1	96	7							
174.00	177.00	3.00	3.00	100	VBA	W1	98	4							
177.00	180.00	3.00	3.00	100	VBA	W1	98	2							
180.00	183.00	3.00	3.00	100	VBA	W1	100	2							
183.00	186.00	3.00	3.00	100	VBA	W1	100	4	CO	40	150	FOL	185.90	weak foliation	
186.00	189.00	3.00	3.00	100	VBA	W1	73	16							
189.00	192.00	3.00	3.00	100	VBA	W1	100	6							
192.00	195.00	3.00	3.00	100	VBA	W1	94	9							
195.00	198.00	3.00	3.00	100	VBA	W1	88	9							
198.00	201.00	3.00	3.00	100	VBA	W1	100	3							

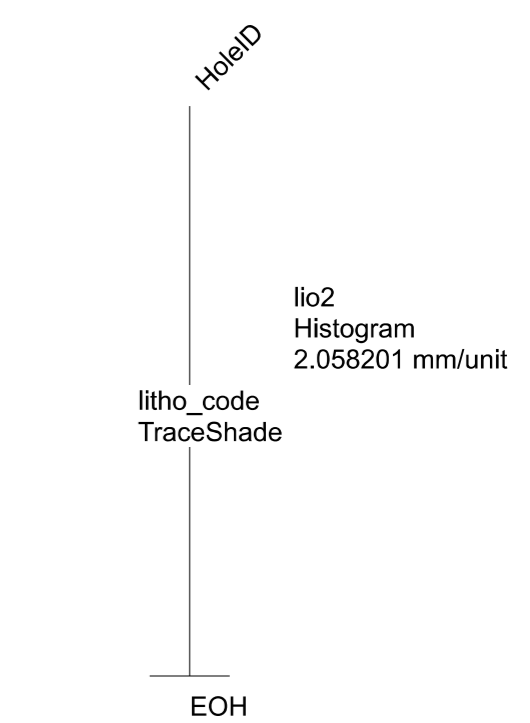
APPENDIX IV: DRILL VERTICAL SECTIONS



5,585,350mN 5,585,300mN 5,585,250mN 5,585,200mN 397,000mE 5,585,150mN



5,585,350mN 5,585,300mN 5,585,250mN 5,585,200mN 397,000mE 5,585,150mN



mm given at scale of 1:1000

Legends

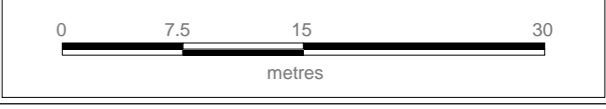
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic

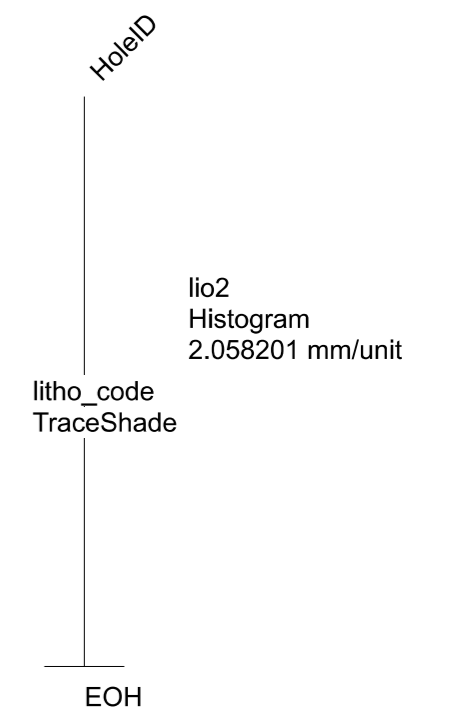
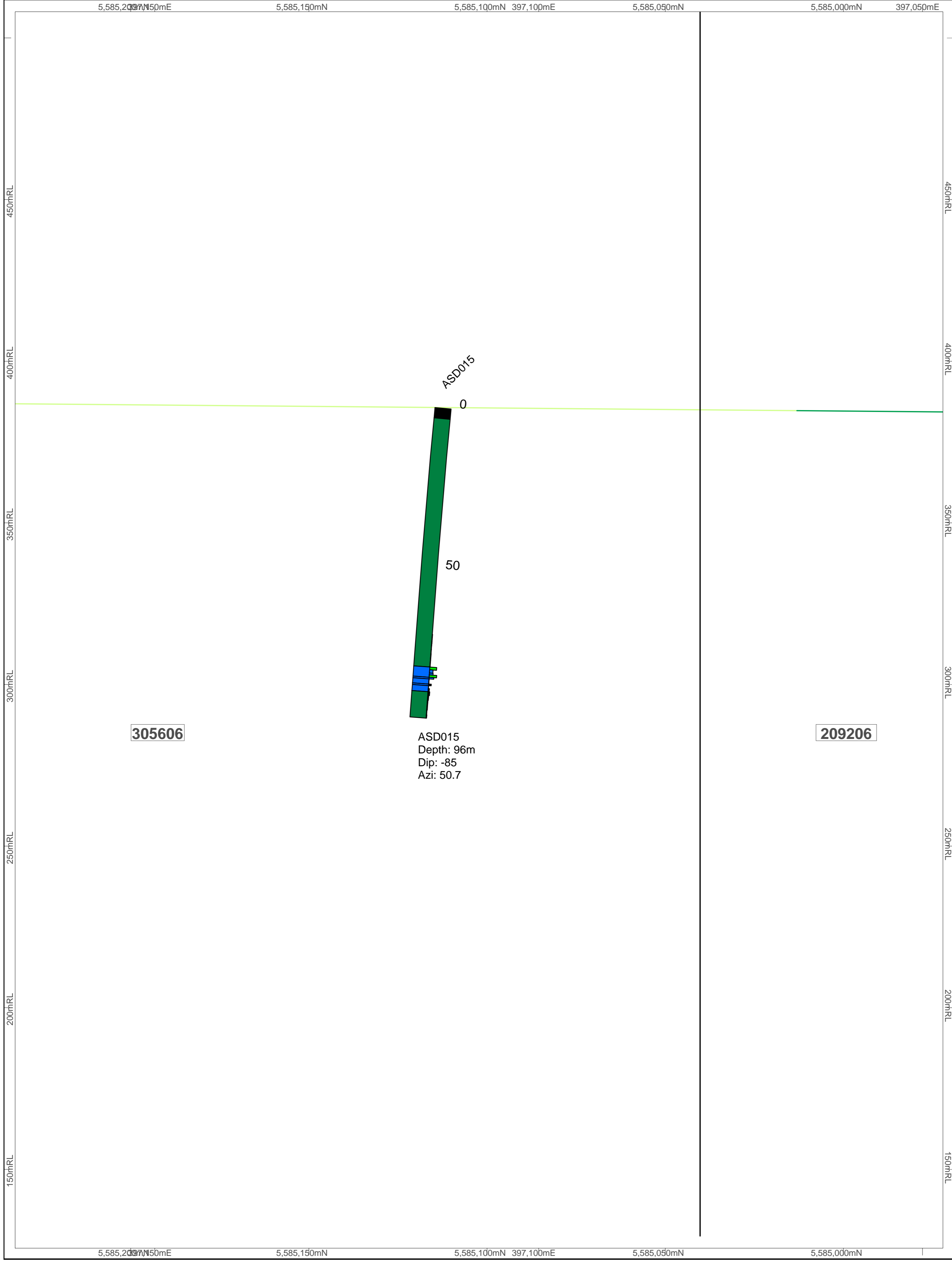
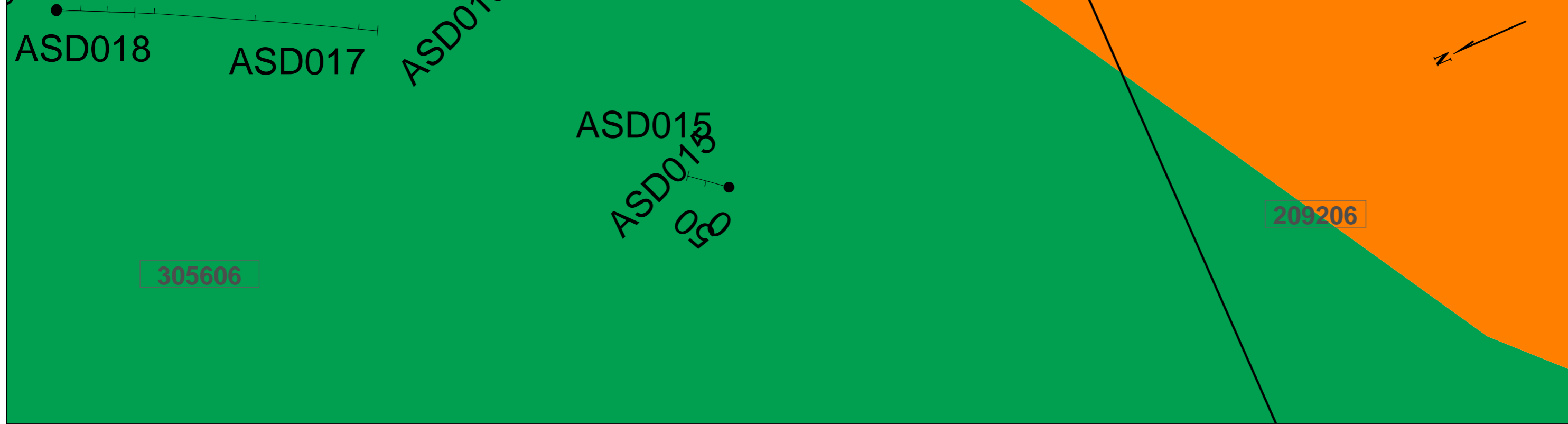
ASSAY

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 6

- 305606 Claim Number
- Claim Boundary

Ardiden Ltd.	
Date: 2/12/2020	ARD SEY 2018 DRILLING
Author: L. Clapp	ASD001 ASD003
Office:	ASD012 ASD013
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)





mm given at scale of 1:1000

Legends

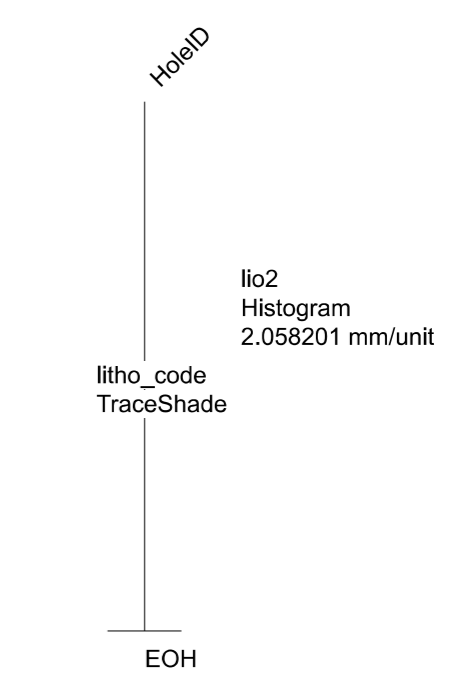
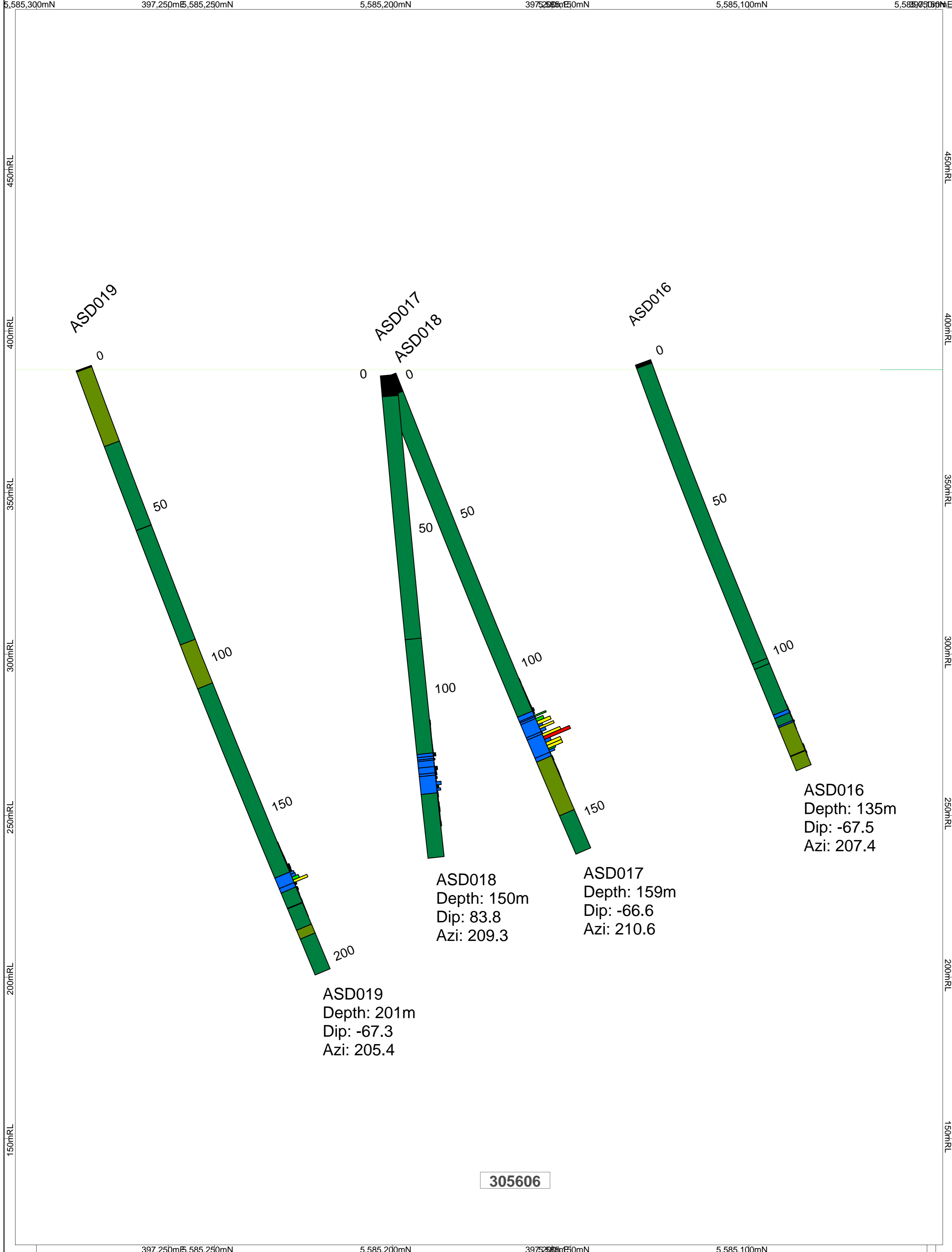
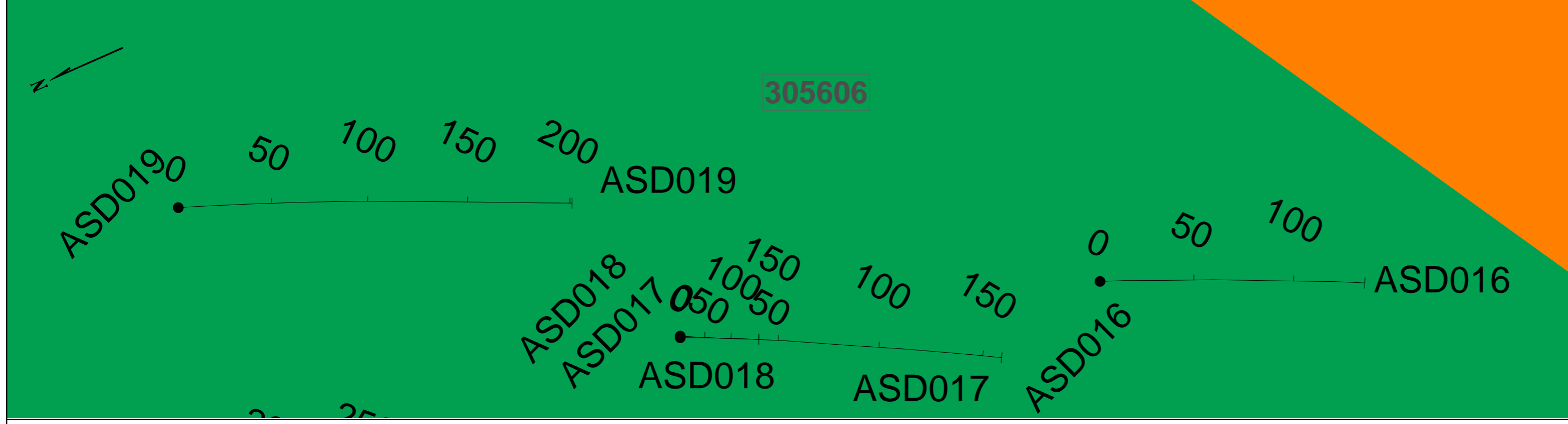
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic

ASSAY

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 6

305606 Claim Number
— Claim Boundary

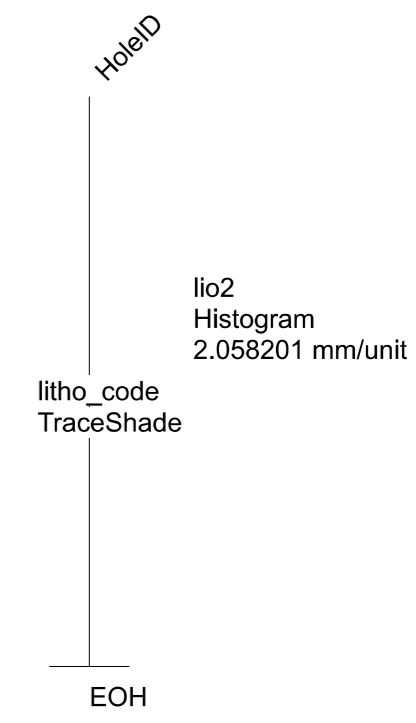
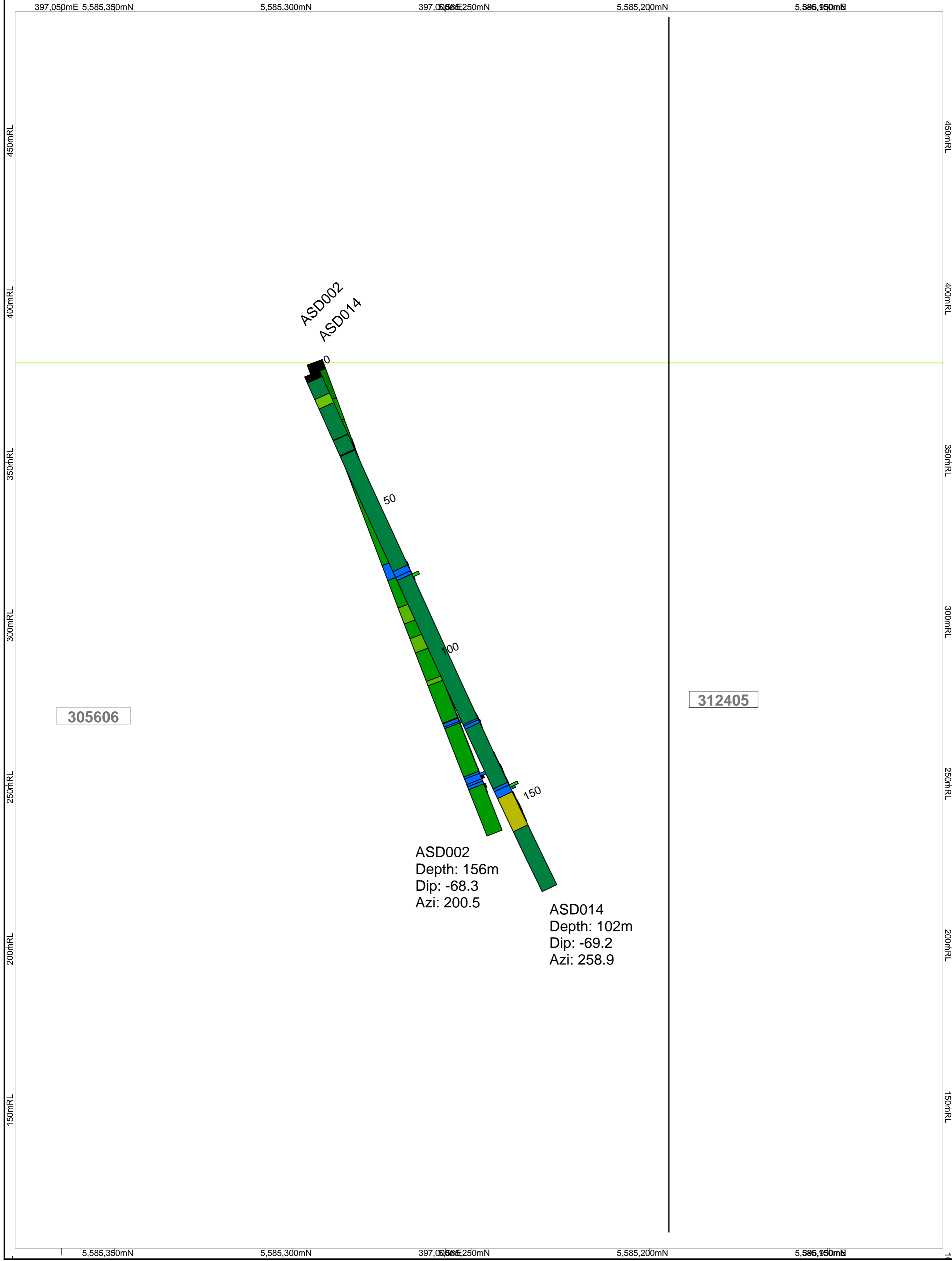
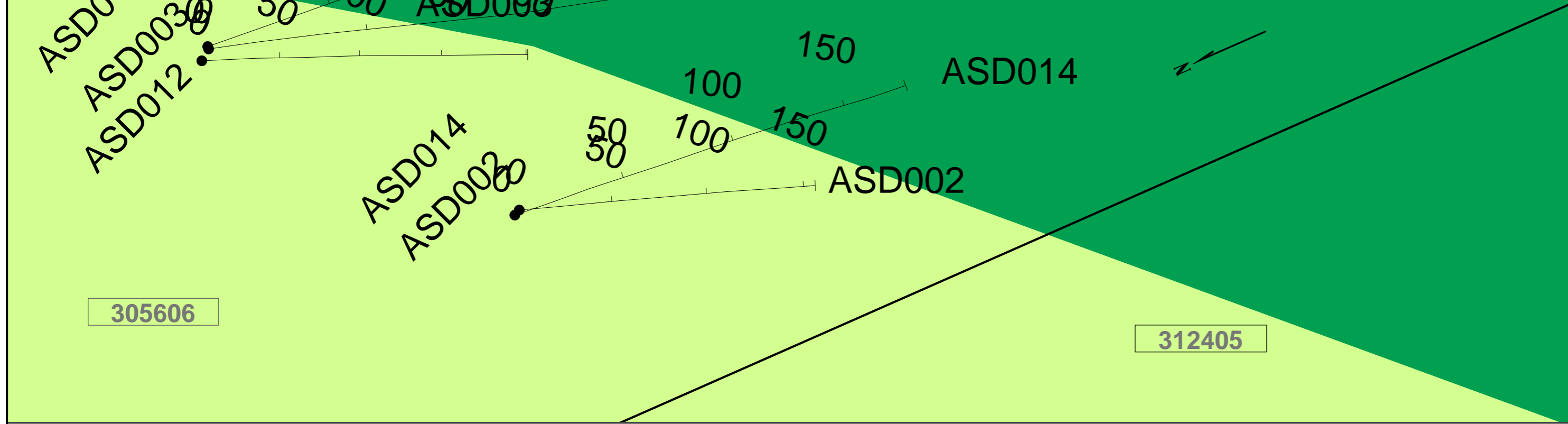
Ardiden Ltd	
Date: 2/11/2020	ARD SEY 2018 DRILLING ASD015
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



mm given at scale of 1:1000

- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6
- 305606 Claim Number
- Claim Boundary

Ardiden Ltd.	
Date: 2/10/2020	ARD SEY 2018 DRILLING ASD016 ASD017 ASD018 ASD019
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



mm given at scale of 1:1000

Legends

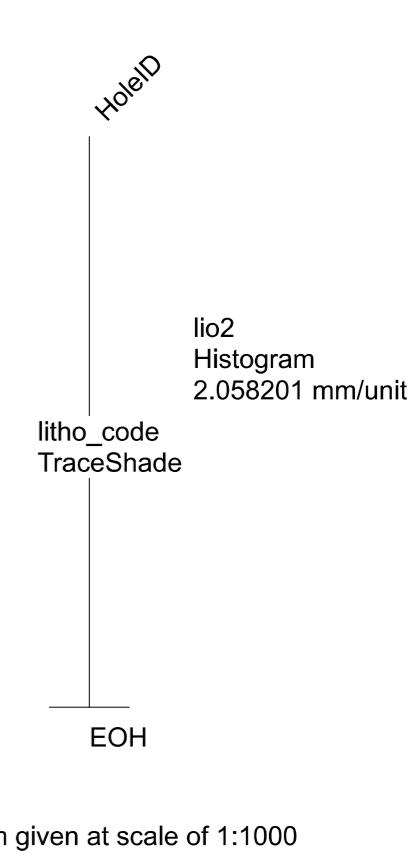
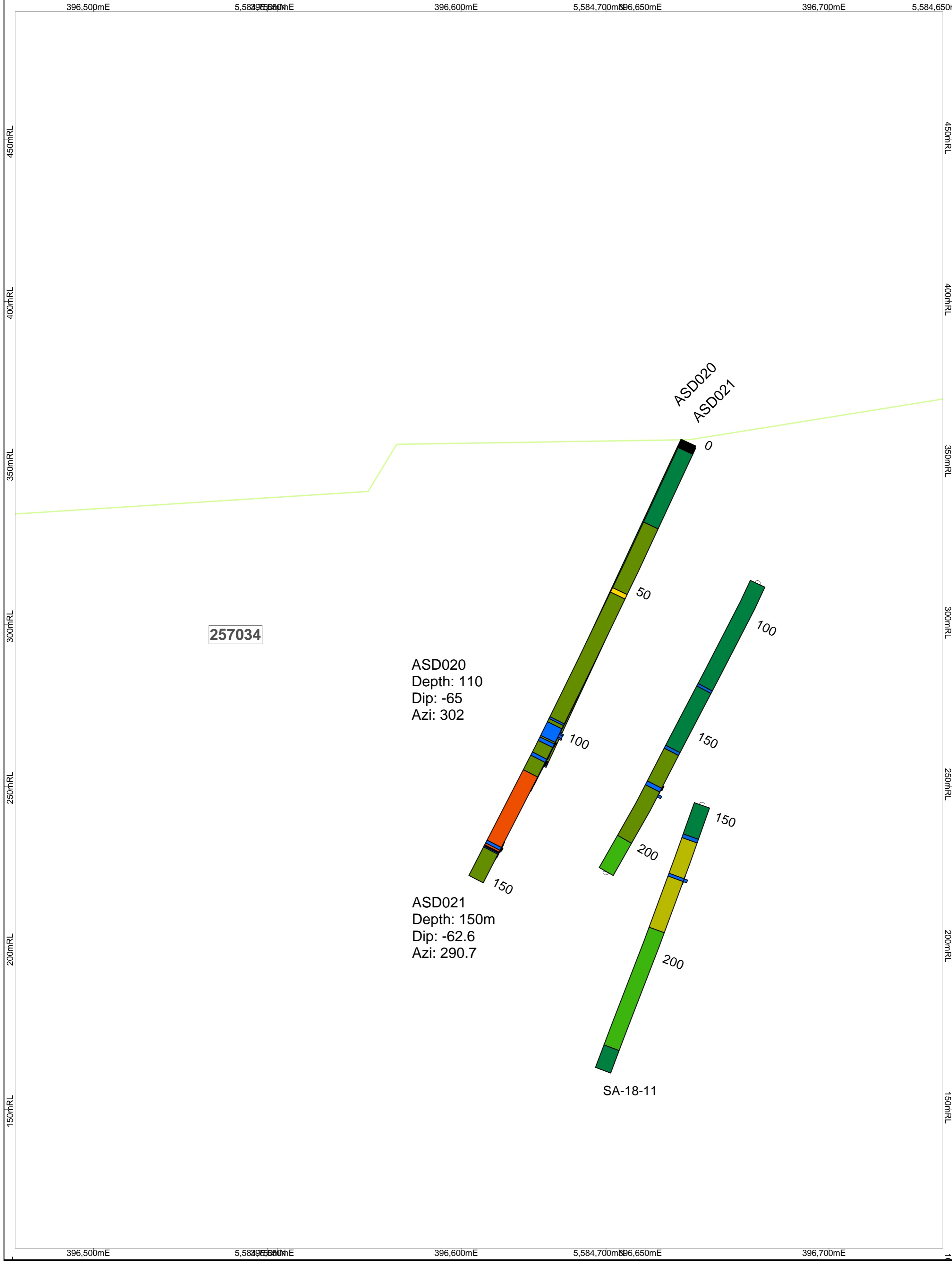
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic

ASSAY

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 6

305606 Claim Number
 ——— Claim Boundary

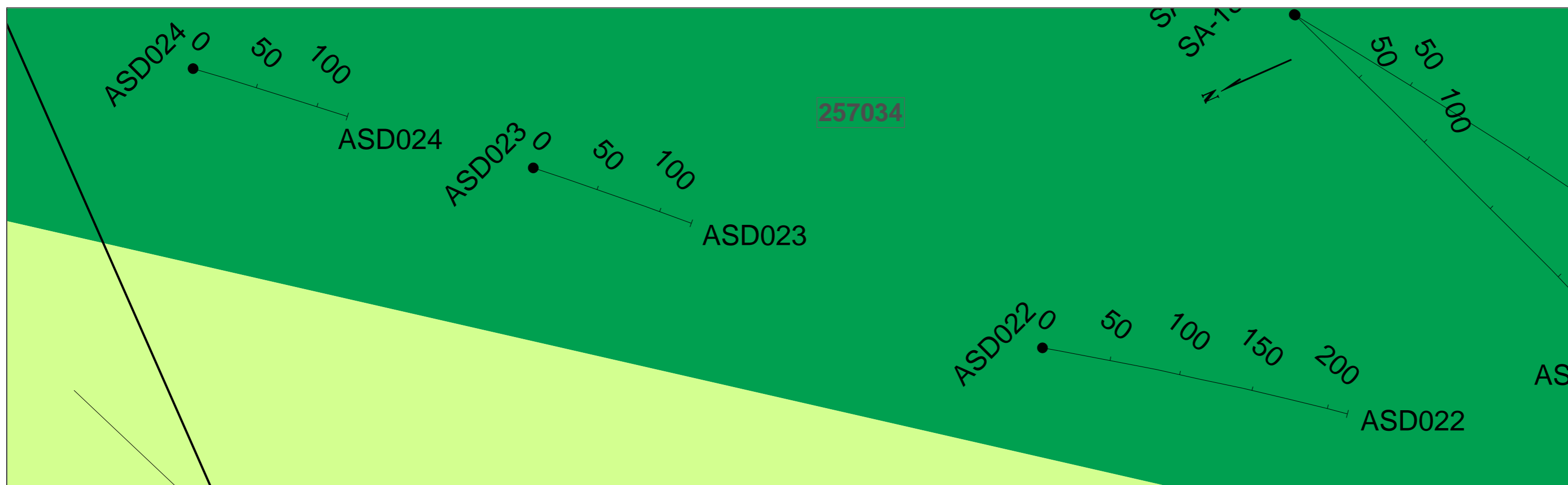
Ardiden Ltd	
Date: 2/11/2020	ARD SEY 2018 DRILLING ASD002 ASD014
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



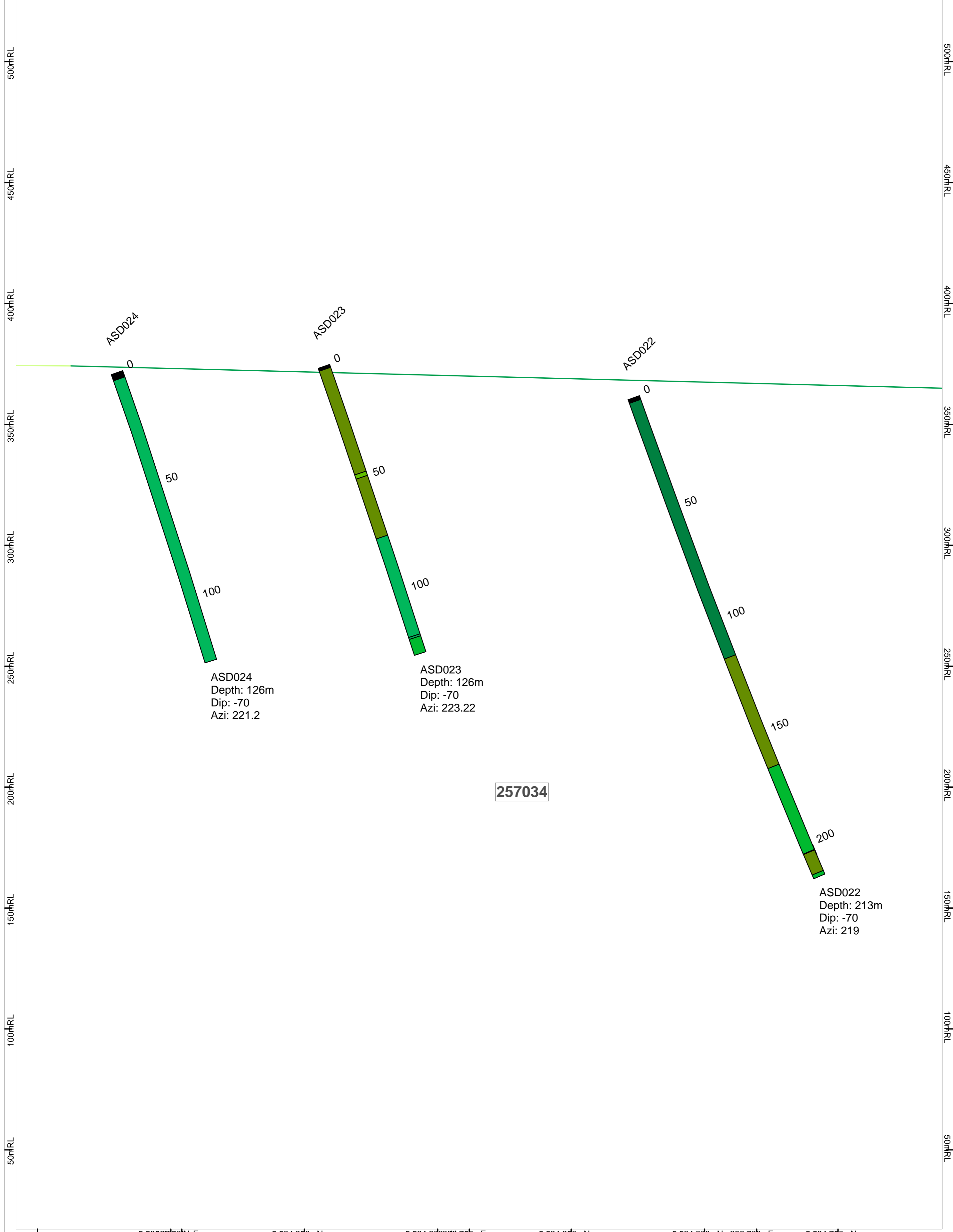
- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6

305606 Claim Number
 Claim Boundary

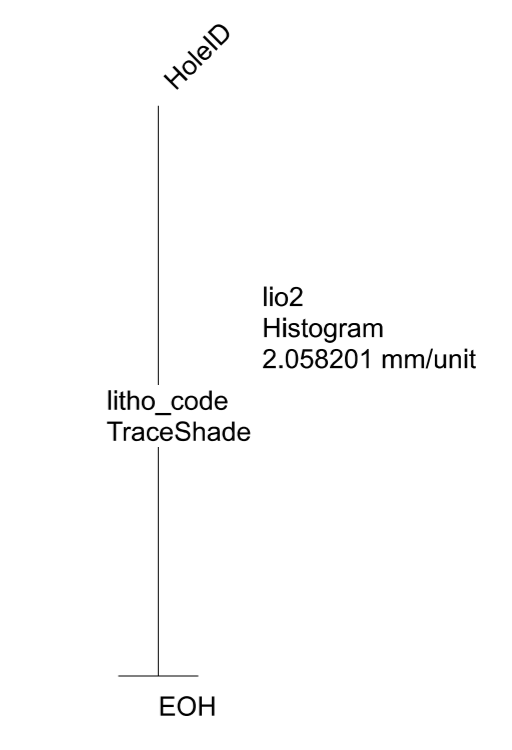
Ardiden Ltd.	
Date: 2/10/2020	ARD SEY 2018 DRILLING ASD020 ASD021
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



5,585,090mN 5,585,900mE 5,584,990mN 5,584,900mE 5,584,890mN 5,584,800mN 396,700mE 5,584,790mN 5,584,700mN



5,585,090mN 5,585,900mE 5,584,990mN 5,584,900mE 5,584,890mN 5,584,800mN 396,700mE 5,584,790mN 5,584,700mN

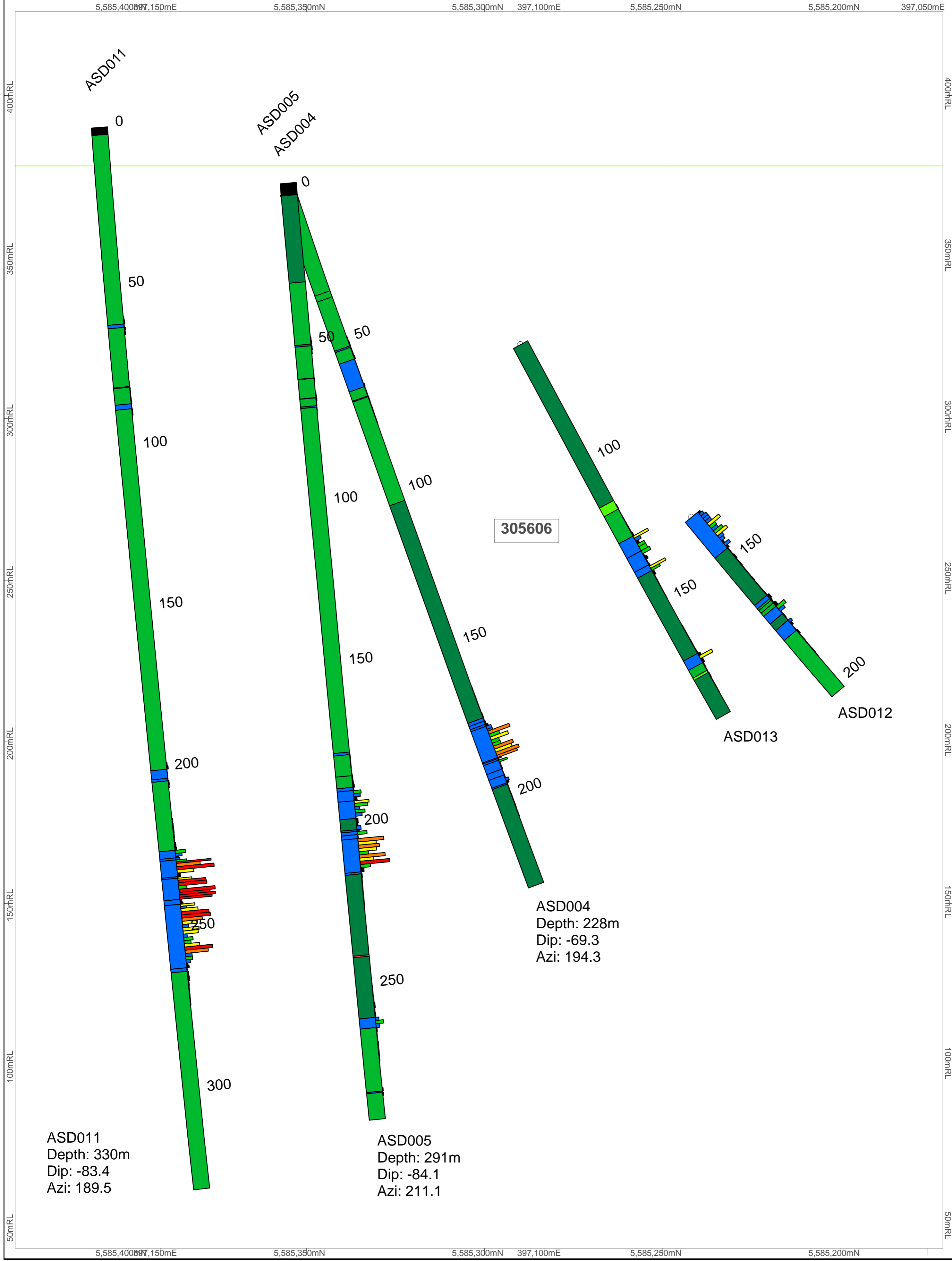
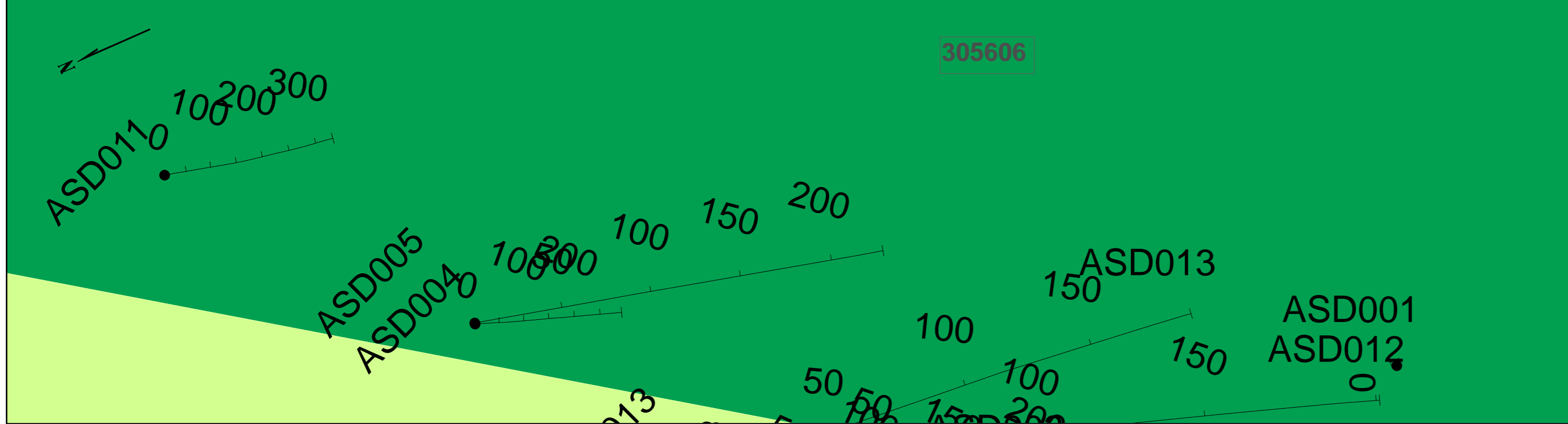


mm given at scale of 1:1000

- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6

305606 Claim Number
 Claim Boundary

Ardiden Ltd.	
Date: 2/12/2020	ARD SEY 2018 DRILLING ASD022 ASD023 ASD024
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



lio2
Histogram
2.058201 mm/unit

litho_code
TraceShade

EOH

mm given at scale of 1:1000

Legends

LITHOLOGY

- Overburden
- Mafic Extrusive Basaltic
- Felsic Intrusive Granitic
- Mafic Intrusive Doleritic/Diabase
- Mafic Extrusive Pillowed
- Mafic Doleritic/Diabase
- Meta Tuff/Mafic
- Quartz Vein
- Intermediate Extrusive
- Ultramafic Intrusive Pyroxenite
- Mafic Extrusive Tuff
- Volcanics Undifferentiated
- Mafic Extrusive Dolerite/Diabase
- Mafic Volcanics
- Mafic Basaltic Flow
- Intermediate Intrusive Lapilli Tuff
- Quartz Biotite Schist
- Mafic Porphyry
- Felsic Porphyry
- Mafic Intrusive Gabbroic

ASSAY

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 6

305606 Claim Number

Claim Boundary

Ardiden Ltd

Date: 2/11/2020

Author: L. Clapp

Office:

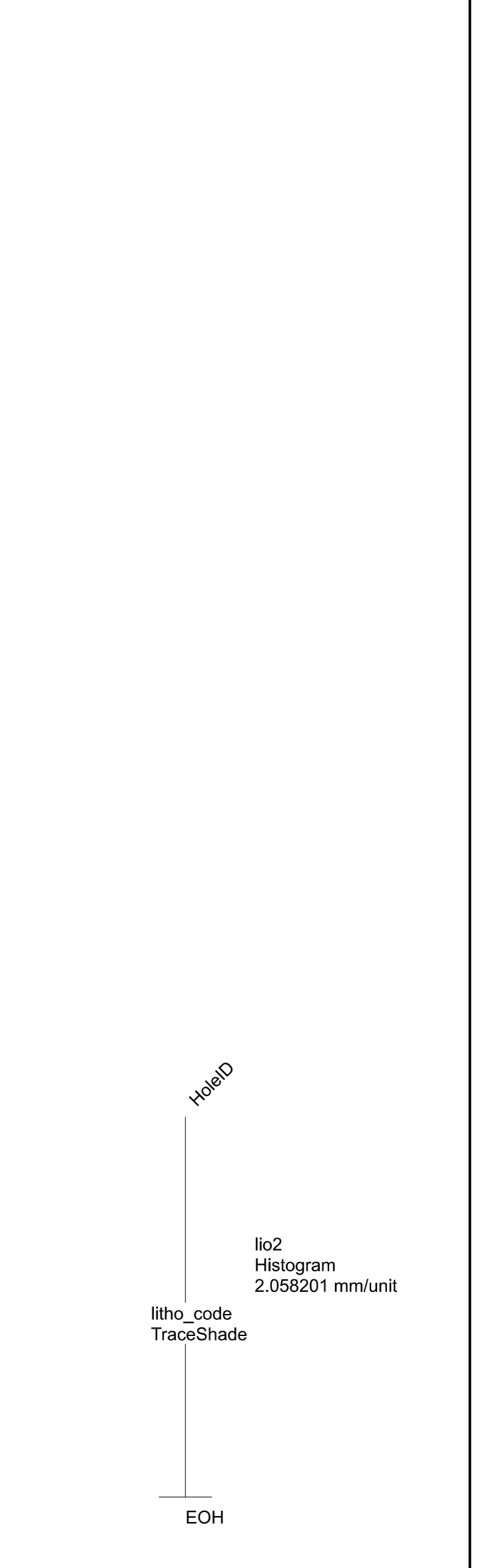
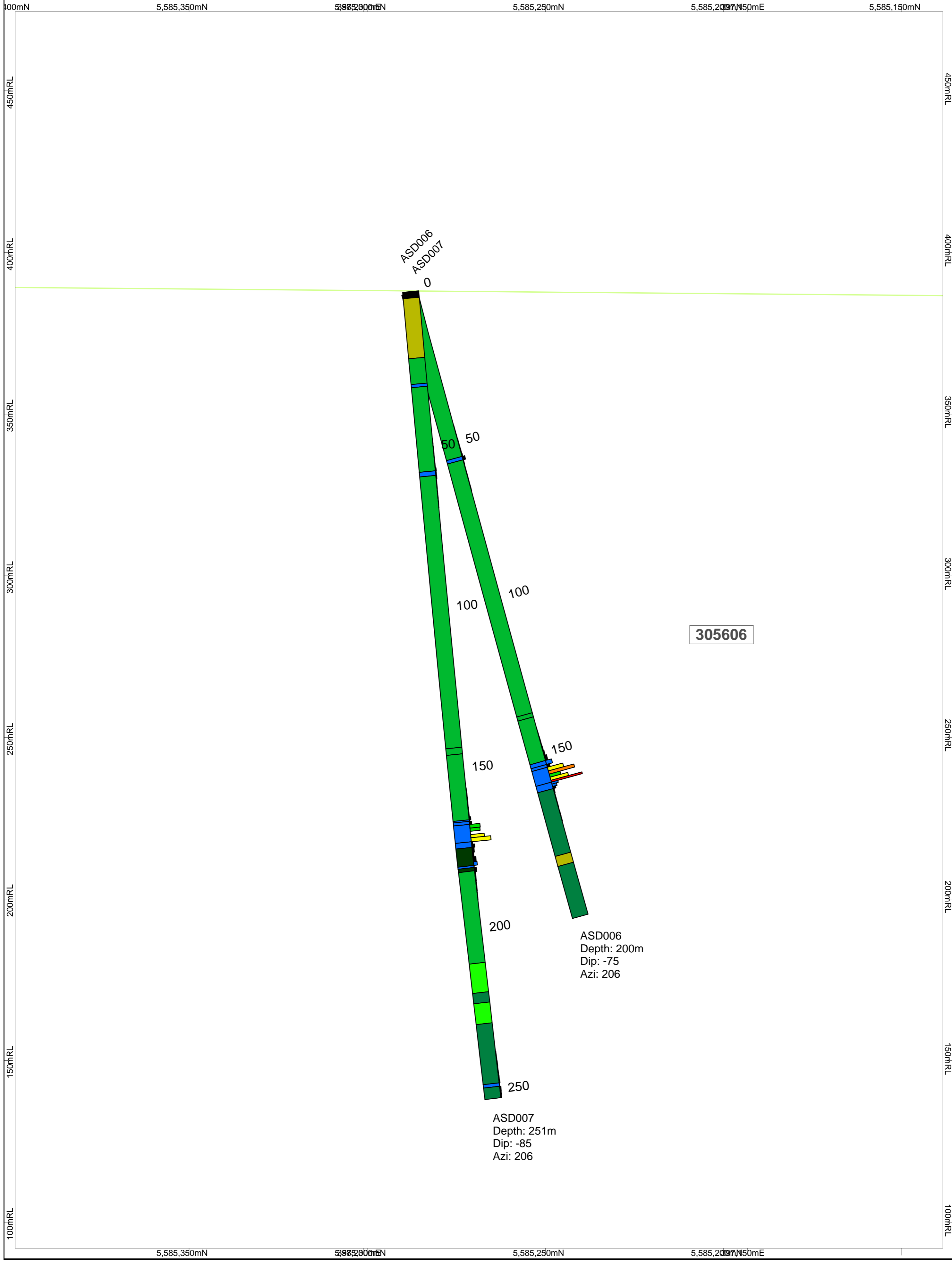
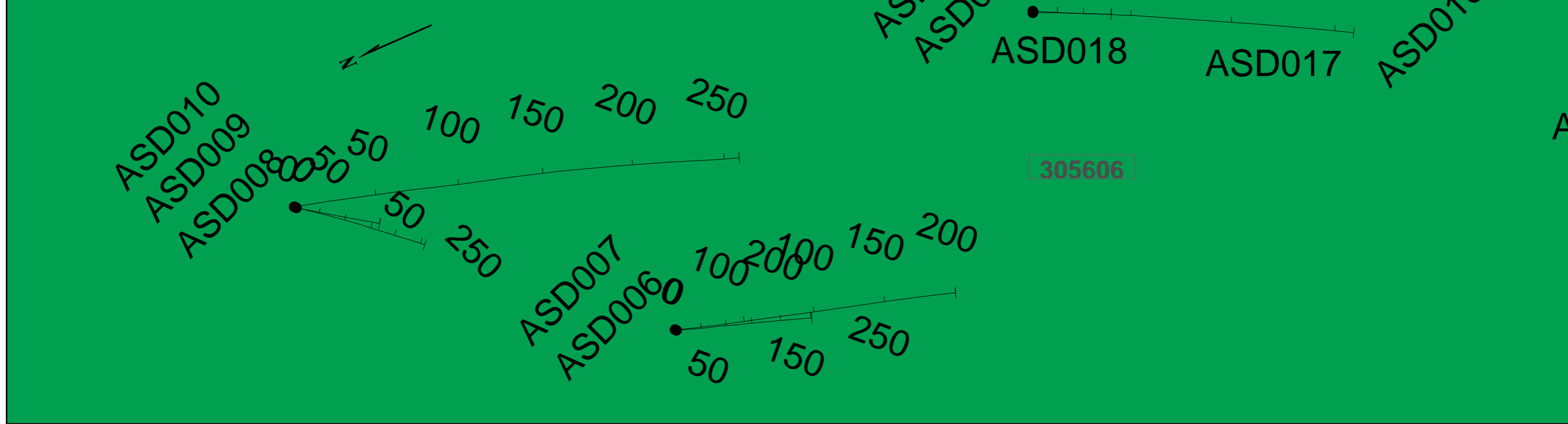
Drawing:

Scale: 1:750

Projection: Non-Earth (meters)

ARD SEY 2018 DRILLING
ASD004 ASD005
ASD011

0 7.5 15 30
metres

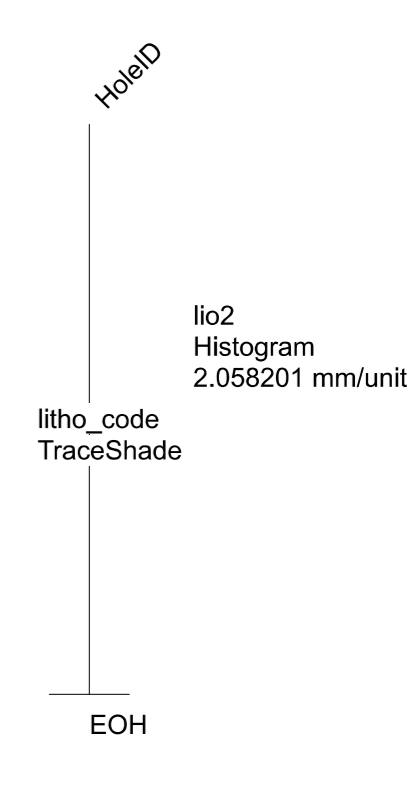
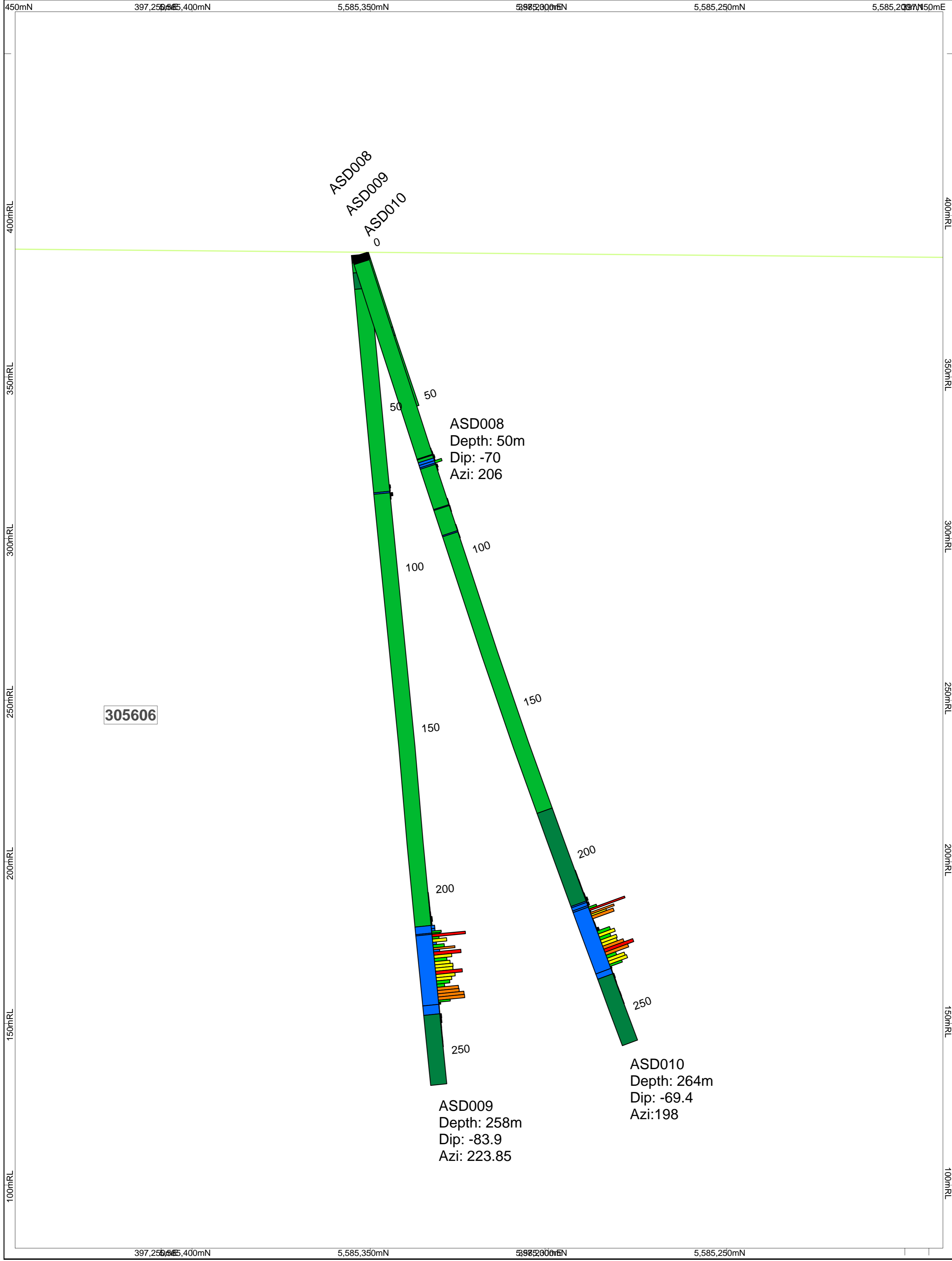
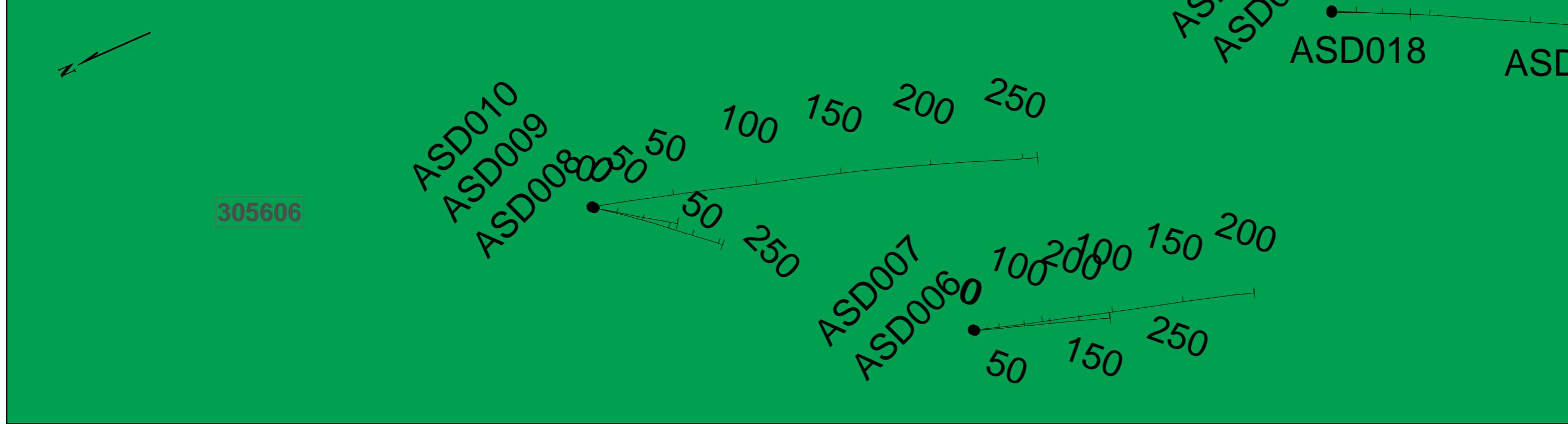


- mm given at scale of 1:1000
- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6
- 305606 Claim Number
- Claim Boundary

Ardiden Ltd

Date: 2/11/2020	ARD SEY 2018 DRILLING ASD006 ASD007
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)

0 7.5 15 30 metres

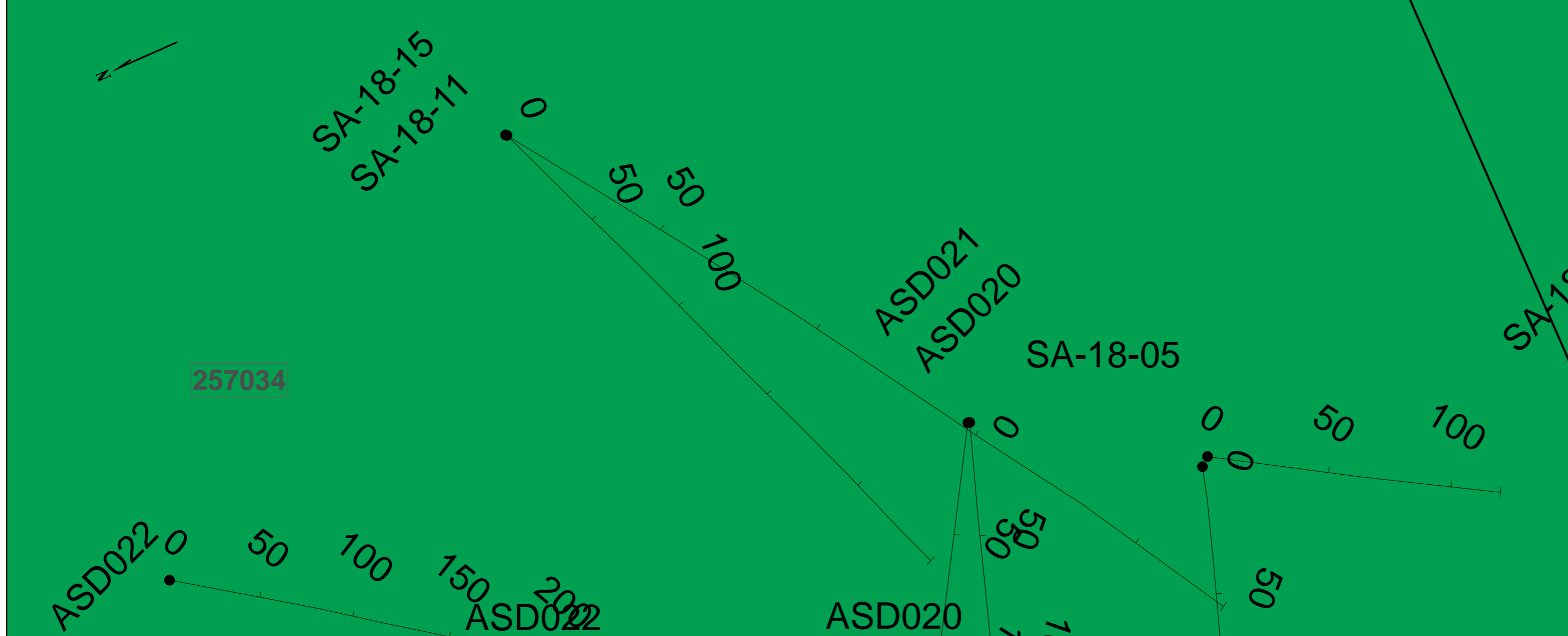


- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6

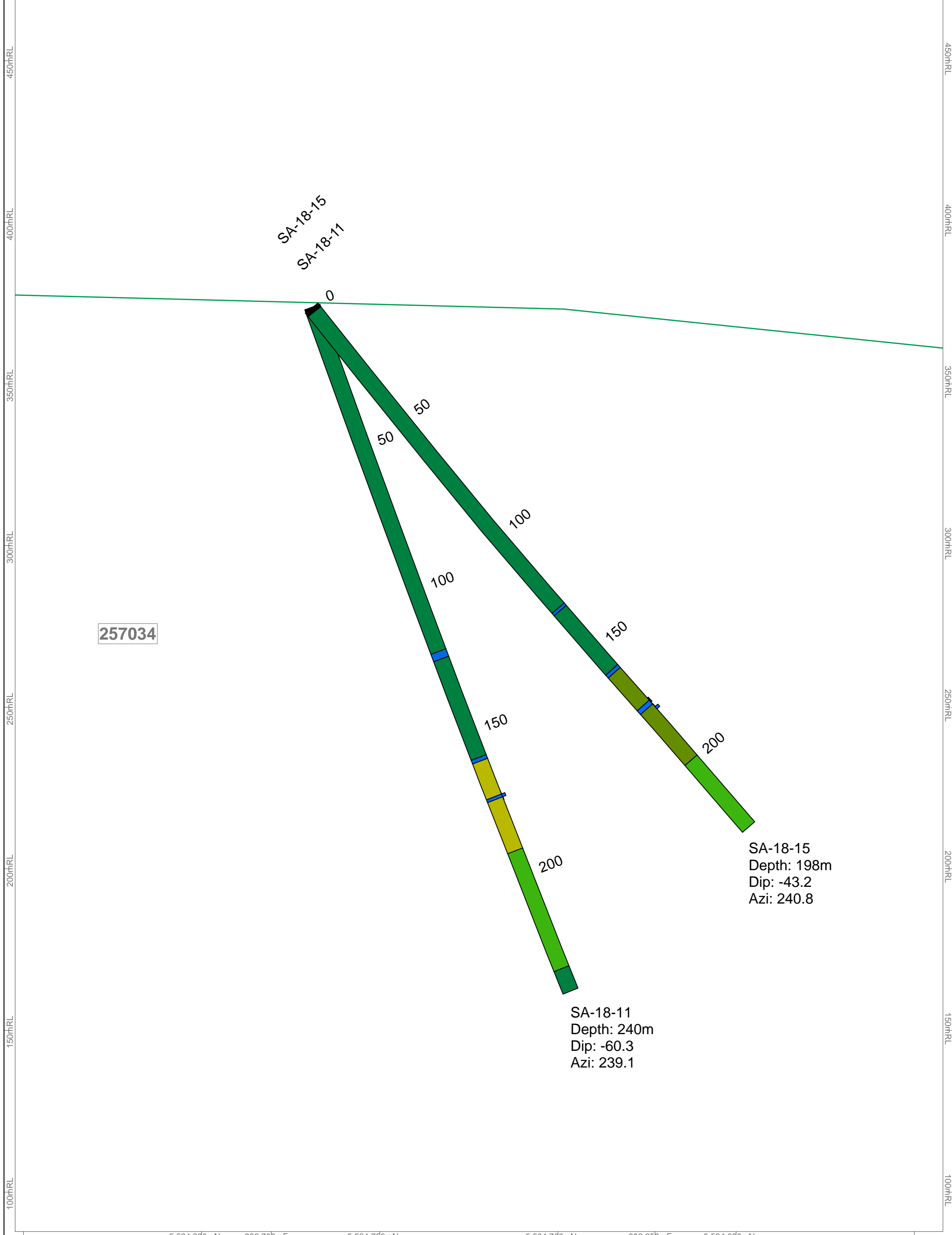
305606 Claim Number

Claim Boundary

Ardiden Ltd.	
ARD SEY 2018 DRILLING ASD008 ASD009 ASD010	
Date: 2/10/2020	
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



5,584,800mN 396,700mE 5,584,750mN 5,584,700mN 396,650mE 5,584,650mN 5,584,600mN



5,584,800mN 396,700mE 5,584,750mN 5,584,700mN 396,650mE 5,584,650mN

HoleID

lio2
Histogram
2.058201 mm/unit

litho_code
TraceShade

EOH

mm given at scale of 1:1000

Legends

LITHOLOGY

- Overburden
- Mafic Extrusive Basaltic
- Felsic Intrusive Granitic
- Mafic Intrusive Doleritic/Diabase
- Mafic Extrusive Pillowed
- Mafic Doleritic/Diabase
- Meta Tuff/Mafic
- Quartz Vein
- Intermediate Extrusive
- Ultramafic Intrusive Pyroxenite
- Mafic Extrusive Tuff
- Volcanics Undifferentiated
- Mafic Extrusive Dolerite/Diabase
- Mafic Volcanics
- Mafic Basaltic Flow
- Intermediate Intrusive Lapilli Tuff
- Quartz Biotite Schist
- Mafic Porphyry
- Felsic Porphyry
- Mafic Intrusive Gabbroic

ASSAY

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 6

305606 Claim Number

Claim Boundary

Ardiden Ltd.

Date: 2/12/2020

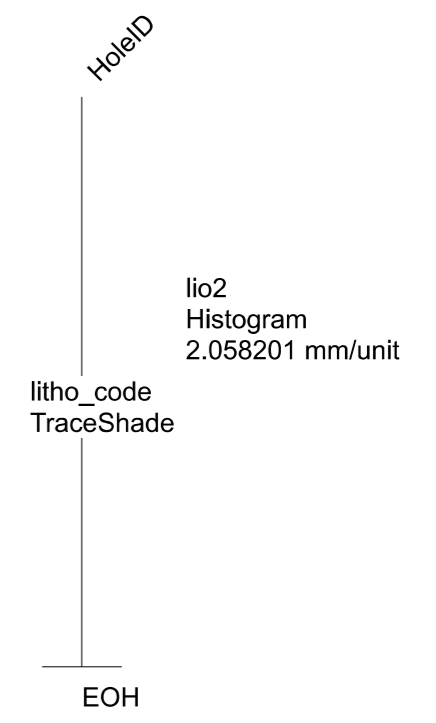
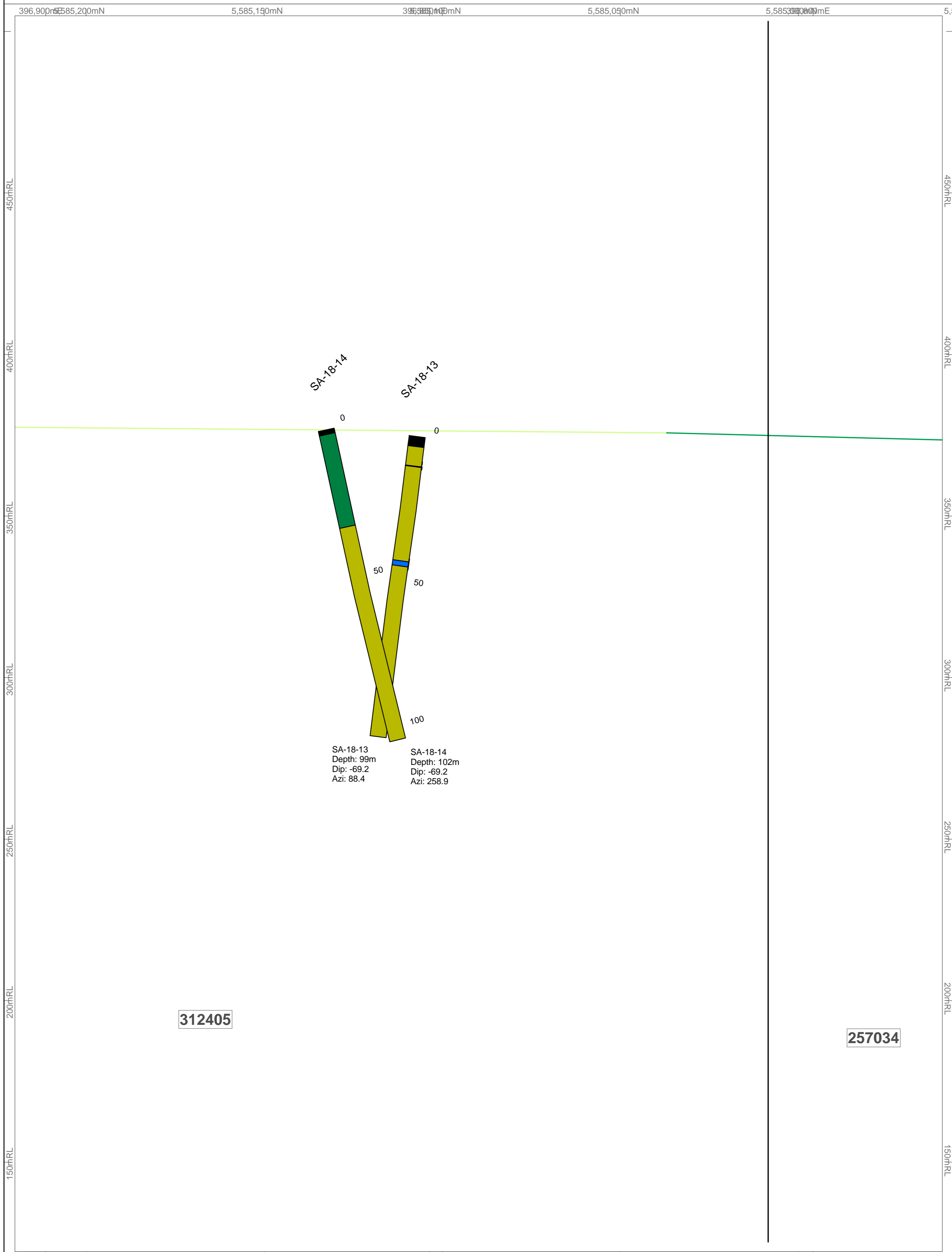
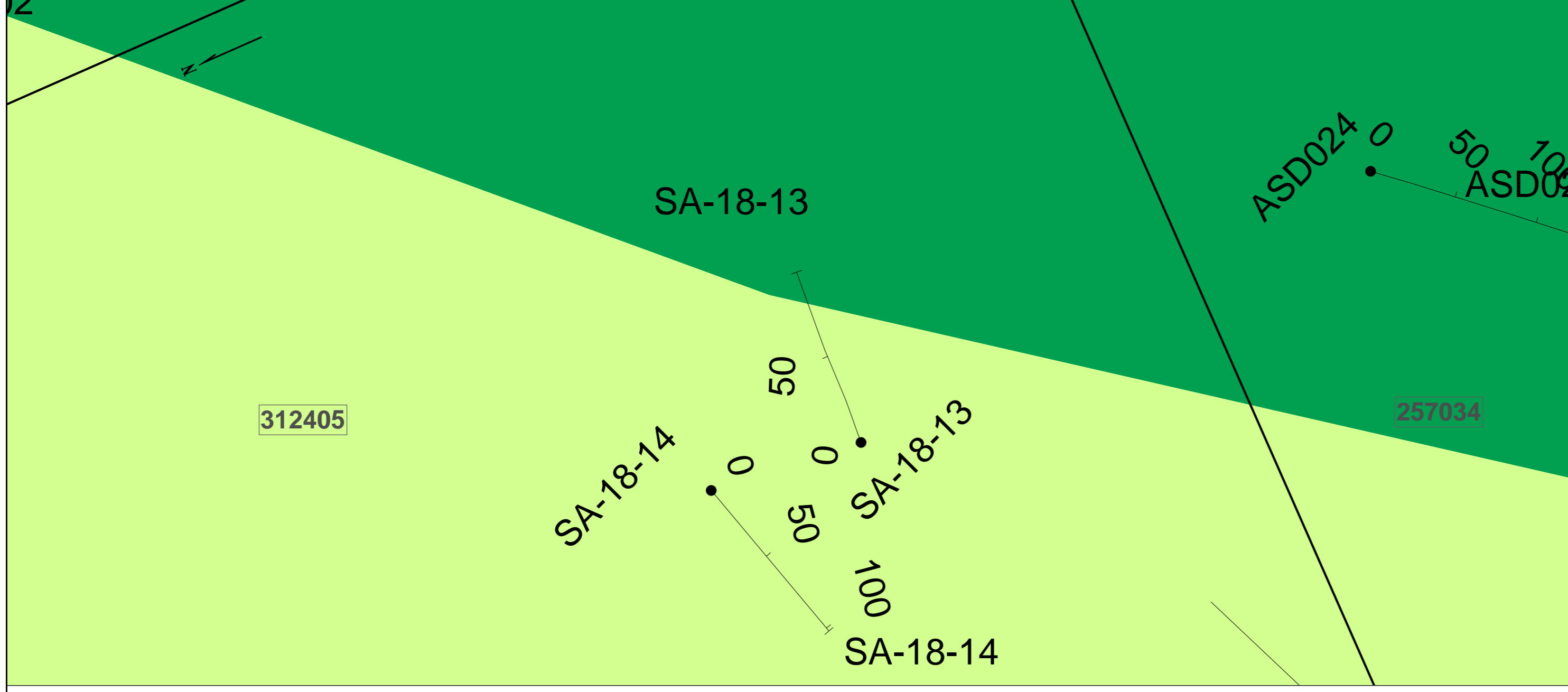
Author: L. Clapp

Office:

Drawing:

Scale: 1:750 Projection: Non-Earth (meters)

0 7.5 15 30
metres



mm given at scale of 1:1000

Legends
LITHOLOGY

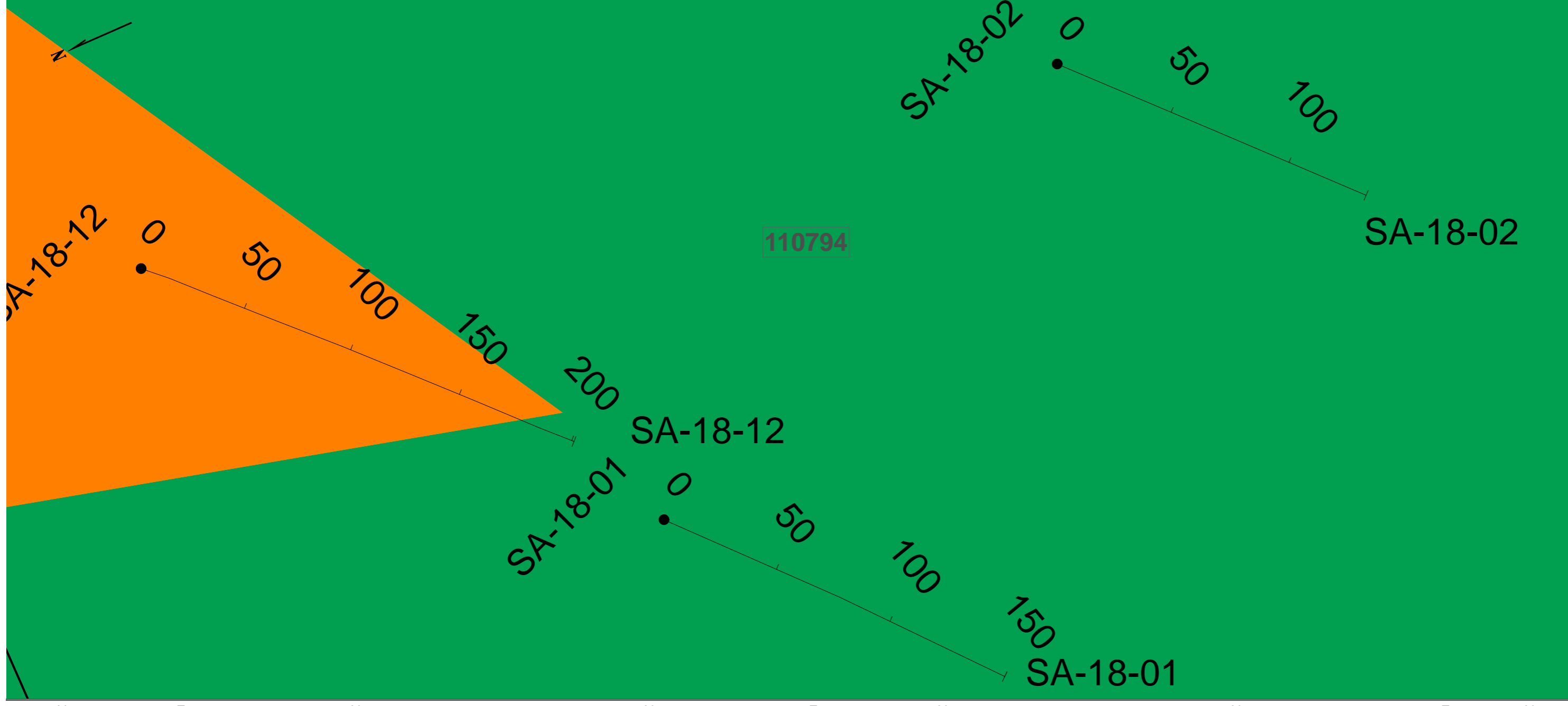
- Overburden
- Mafic Extrusive Basaltic
- Felsic Intrusive Granitic
- Mafic Intrusive Doleritic/Diabase
- Mafic Extrusive Pillowed
- Mafic Doleritic/Diabase
- Meta Tuff/Mafic
- Quartz Vein
- Intermediate Extrusive
- Ultramafic Intrusive Pyroxenite
- Mafic Extrusive Tuff
- Volcanics Undifferentiated
- Mafic Extrusive Dolerite/Diabase
- Mafic Volcanics
- Mafic Basaltic Flow
- Intermediate Intrusive Lapilli Tuff
- Quartz Biotite Schist
- Mafic Porphyry
- Felsic Porphyry
- Mafic Intrusive Gabbroic

ASSAY

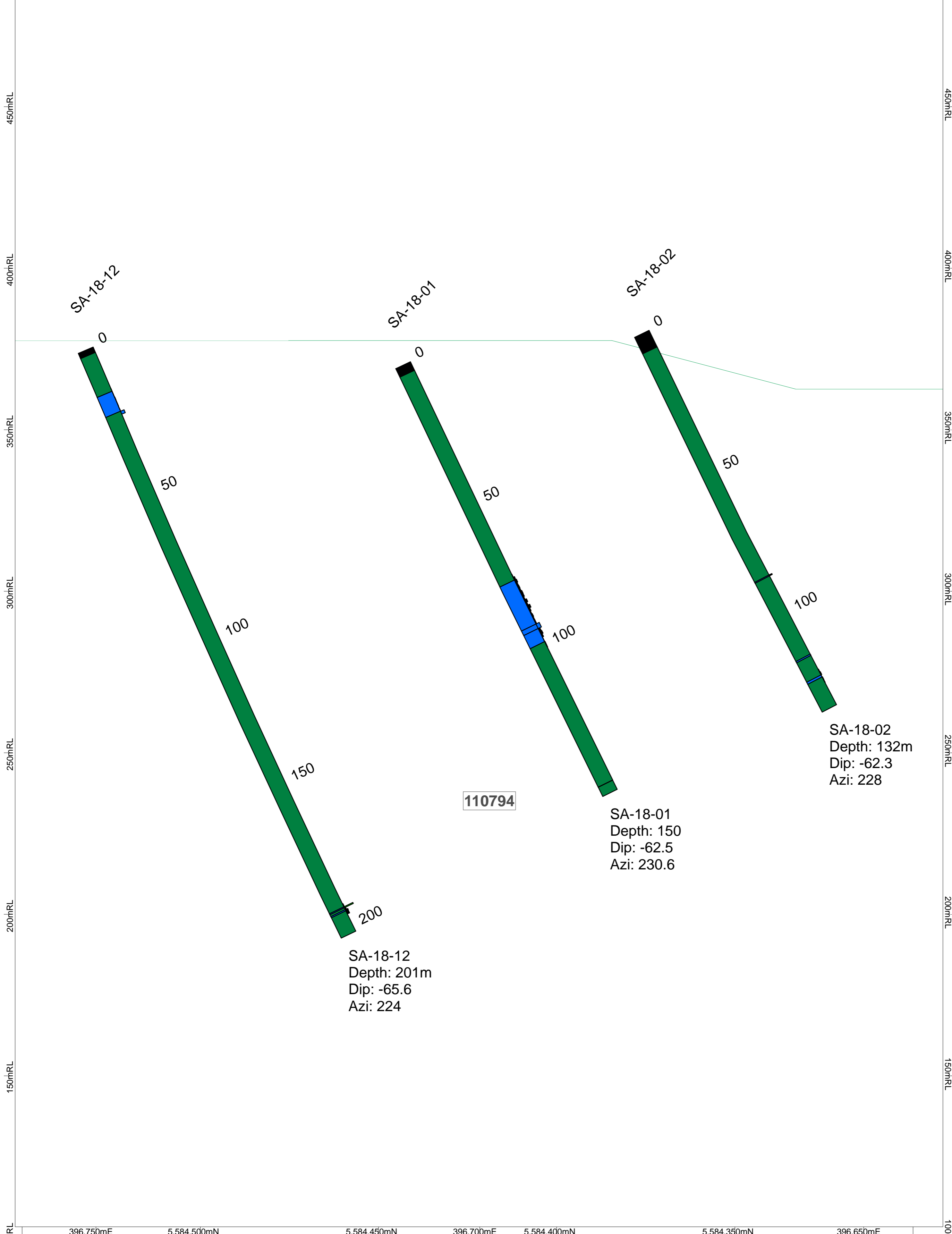
- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 6

- 305606 Claim Number
- Claim Number

Ardiden Ltd.	
Date: 2/12/2020 Author: L. Clapp Office: Drawing:	ARD SEY 2018 DRILLING SA-18-13 SA-18-14
Scale: 1:750	Projection: Non-Earth (meters)



34,550mN 396,750mE 5,584,500mN 5,584,450mN 396,700mE 5,584,400mN 5,584,350mN 396,650mE 5,584,300mN



lio2
Histogram
2.058201 mm/unit

litho_code
TraceShade

EOH

mm given at scale of 1:1000

- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6

305606 Claim Number

Claim Boundary

SA-18-02
Depth: 132m
Dip: -62.3
Azi: 228

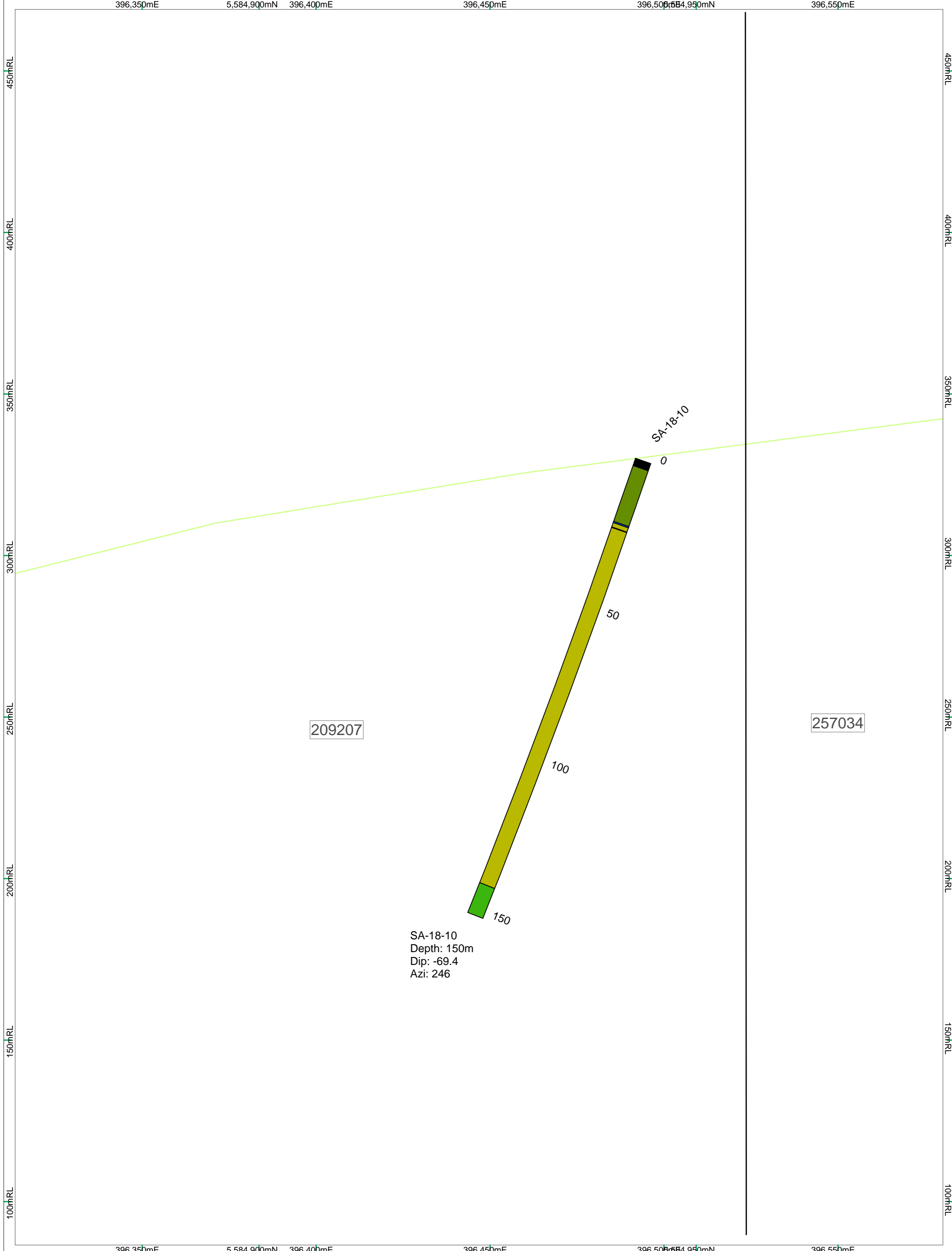
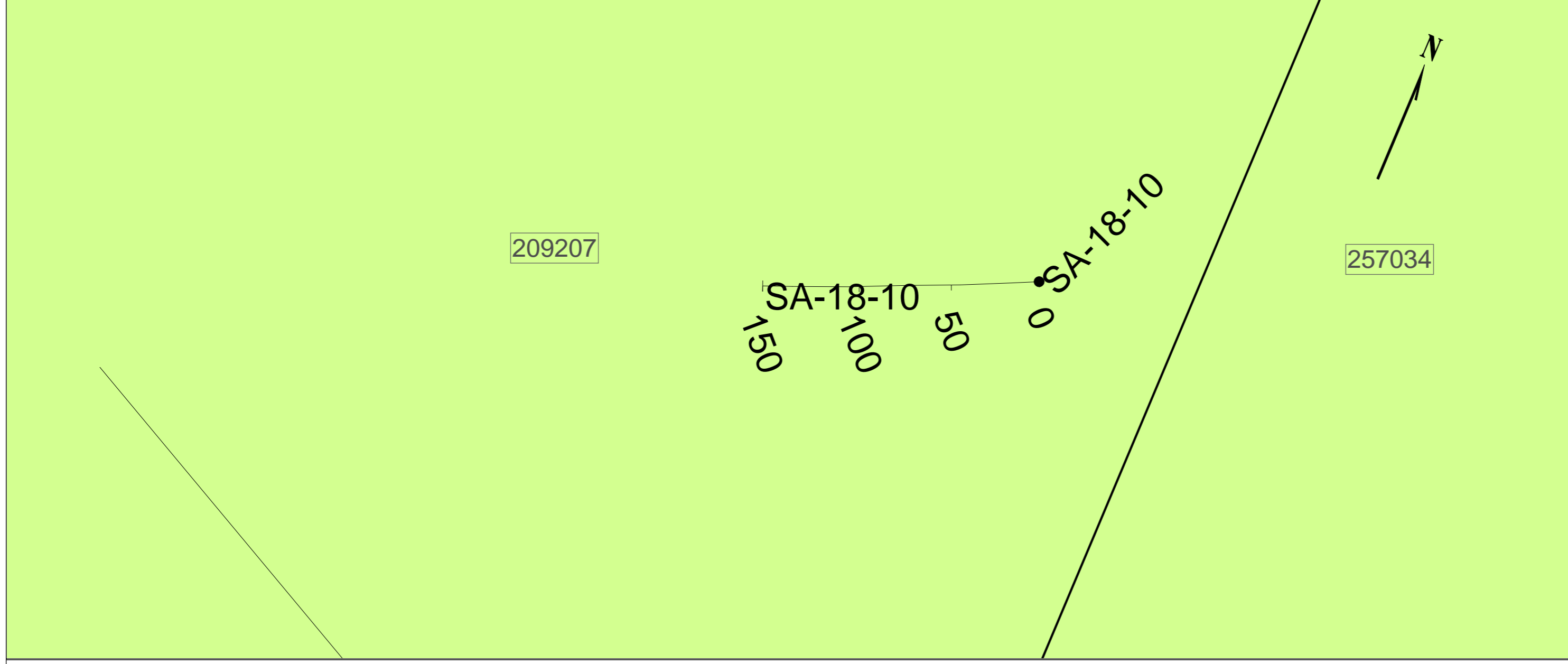
SA-18-01
Depth: 150
Dip: -62.5
Azi: 230.6

SA-18-12
Depth: 201m
Dip: -65.6
Azi: 224

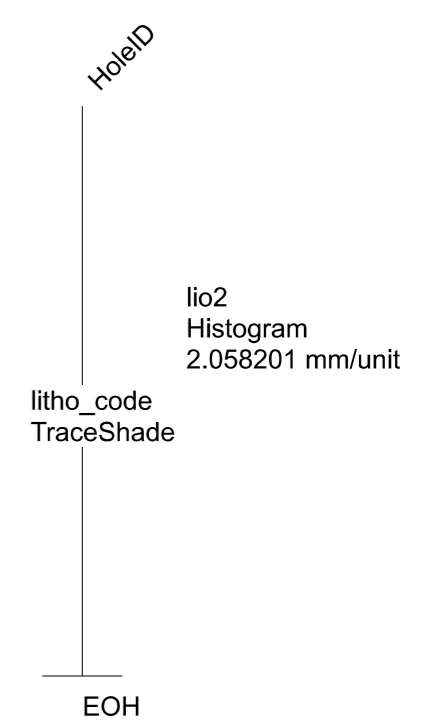
Ardiden Ltd.

Date: 2/12/2020 Author: L. Clapp Office: Drawing:	ARD SEY 2018 DRILLING SA-18-01 SA-18-02 SA-18-12
Scale: 1:750	Projection: Non-Earth (meters)

0 7.5 15 30 metres



SA-18-10
 Depth: 150m
 Dip: -69.4
 Azi: 246



mm given at scale of 1:1000

Legends

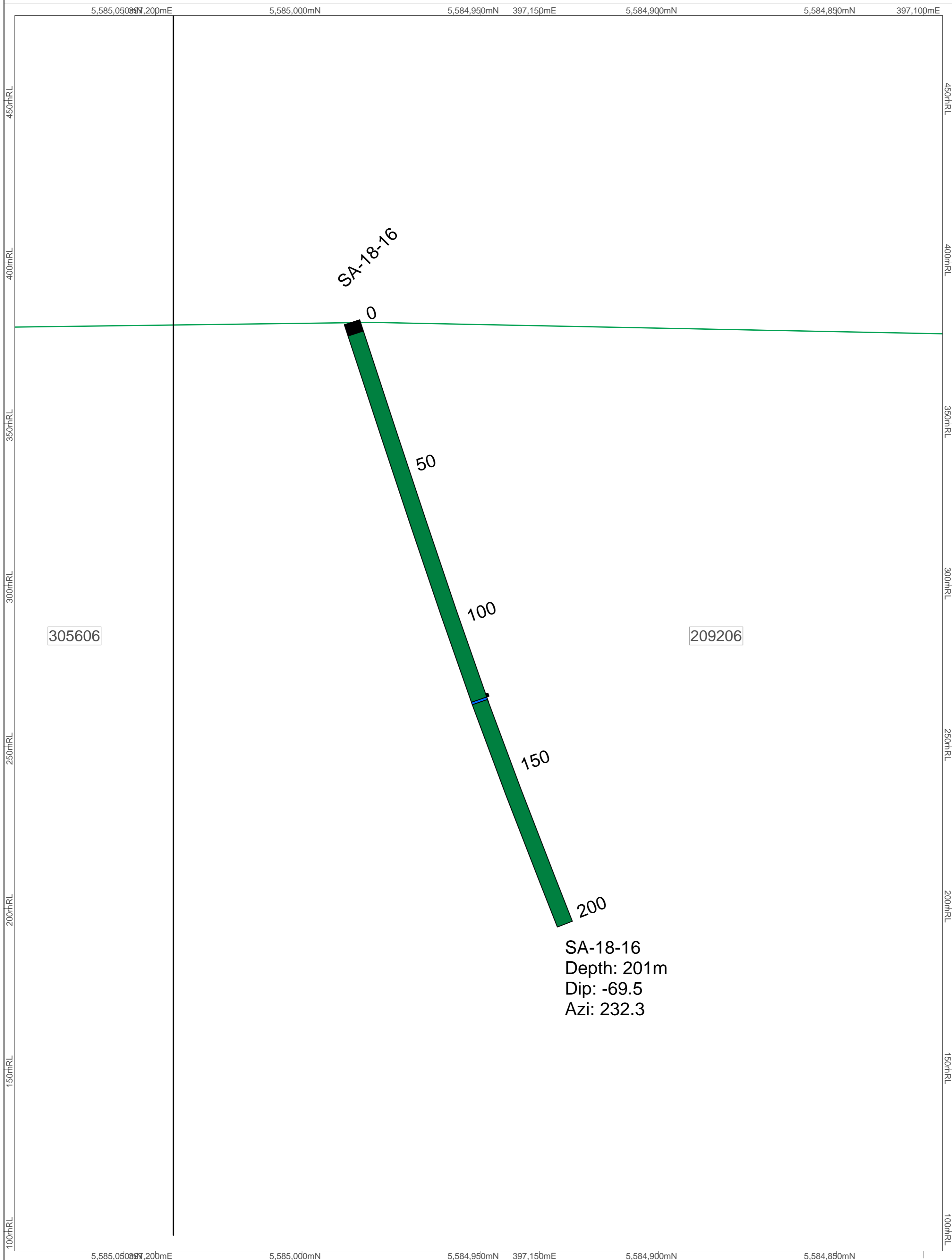
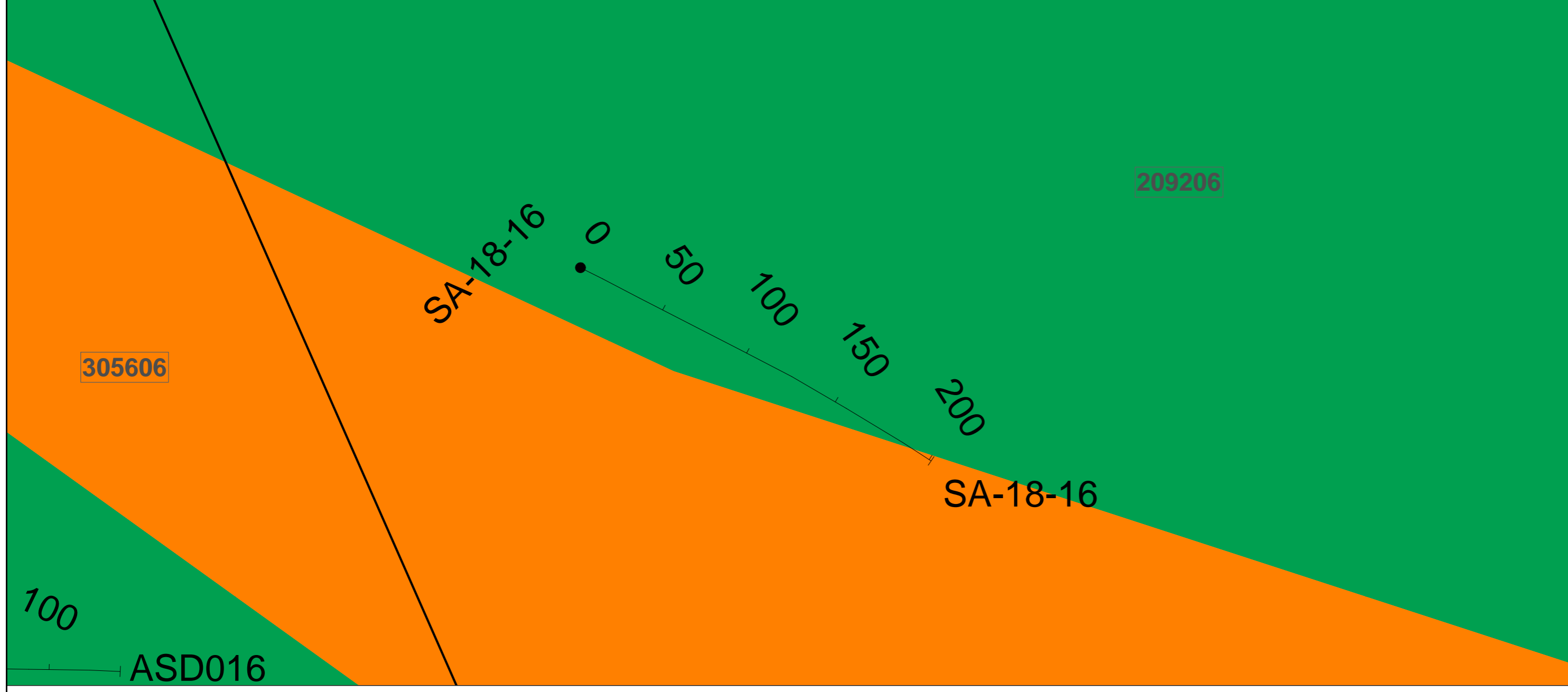
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic

ASSAY

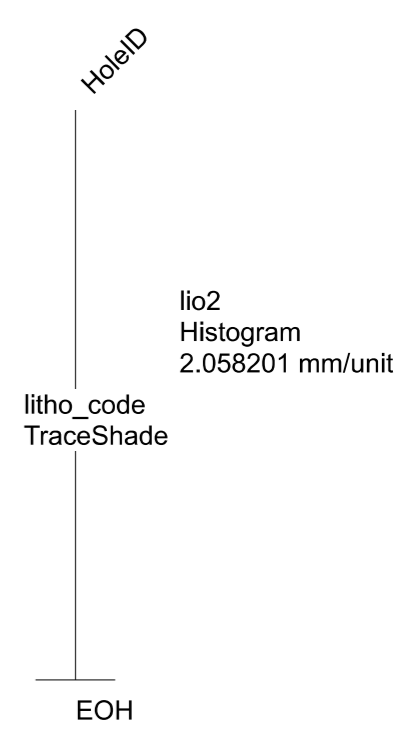
- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- 4 - 6

- 305606 Claim Number
- Claim Boundary

Ardiden Ltd.	
ARD SEY 2018 DRILLING SA-18-10	
Date: 21/2/2020	
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



SA-18-16
 Depth: 201m
 Dip: -69.5
 Azi: 232.3



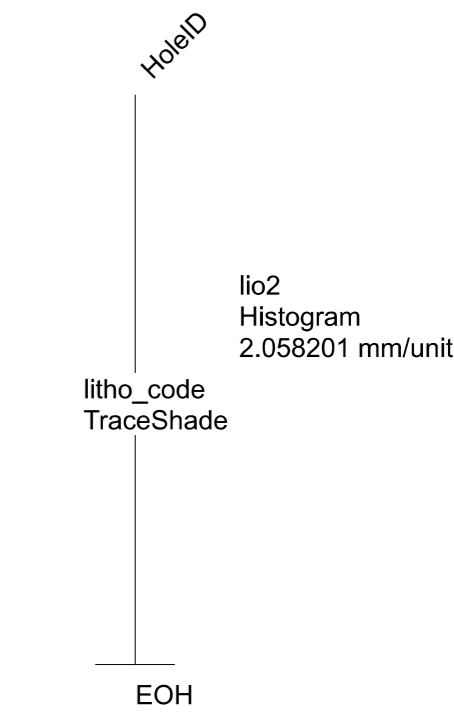
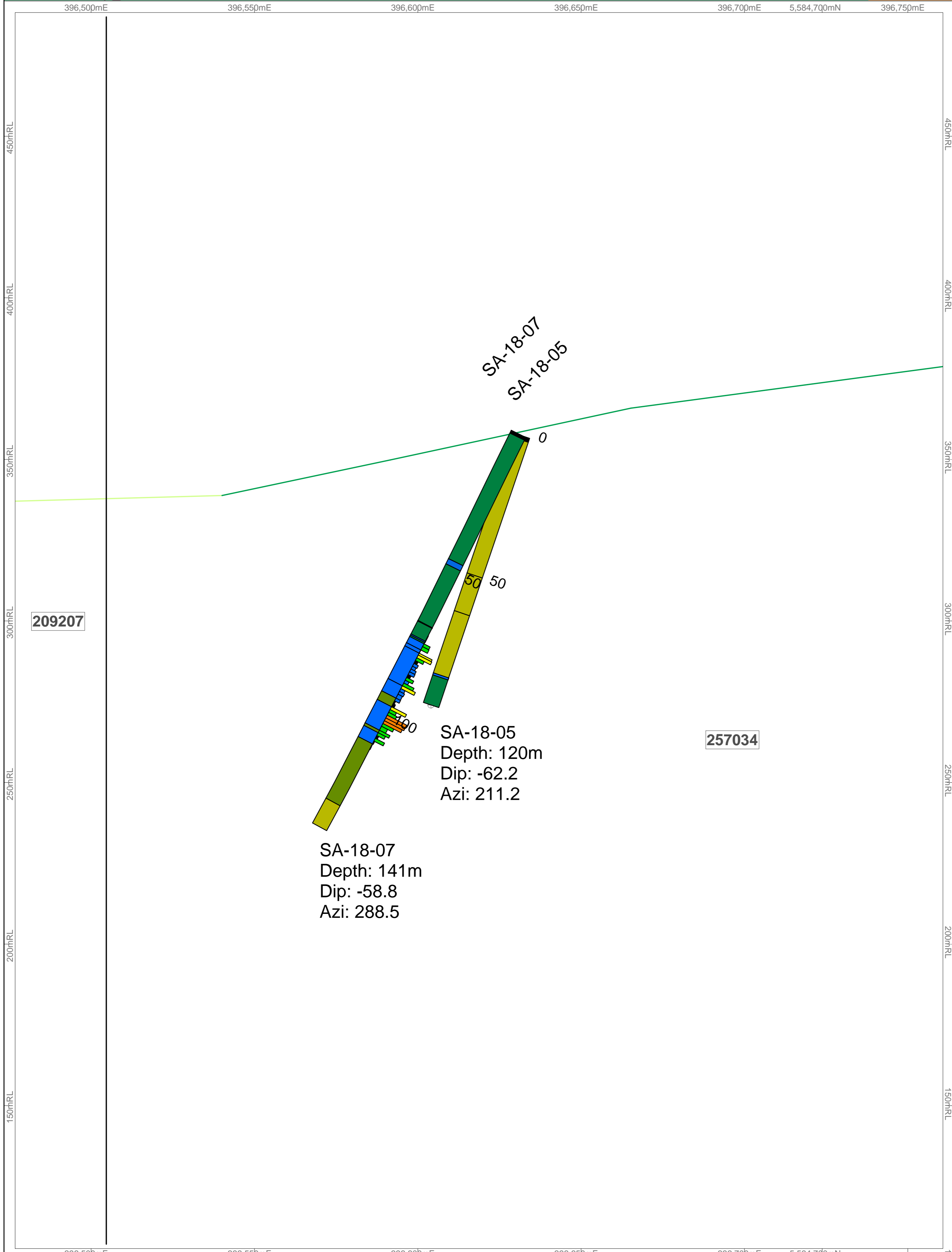
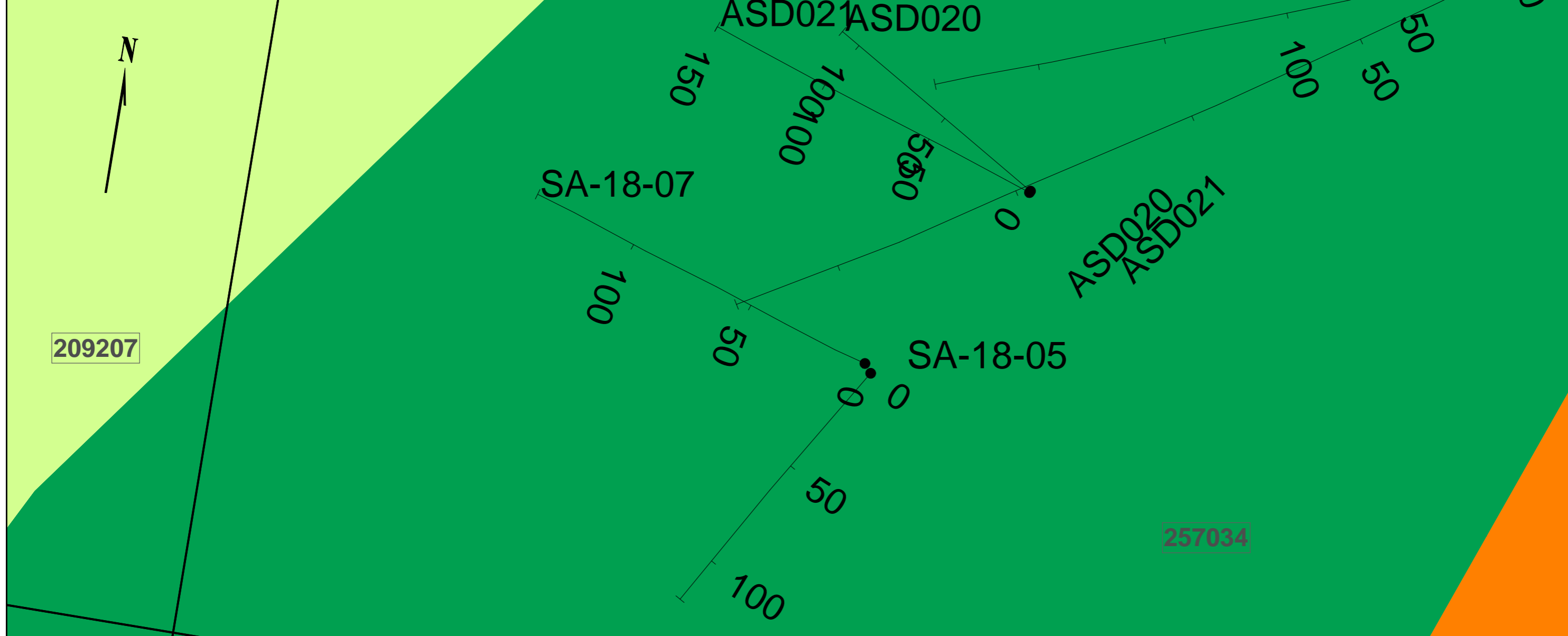
mm given at scale of 1:1000

- Legends**
LITHOLOGY
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic

- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6

305606 Claim Number
 — Claim Boundary

Ardiden Ltd.	
Date: 2/12/2020	ARD SEY 2018 DRILLING SA-18-16
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)



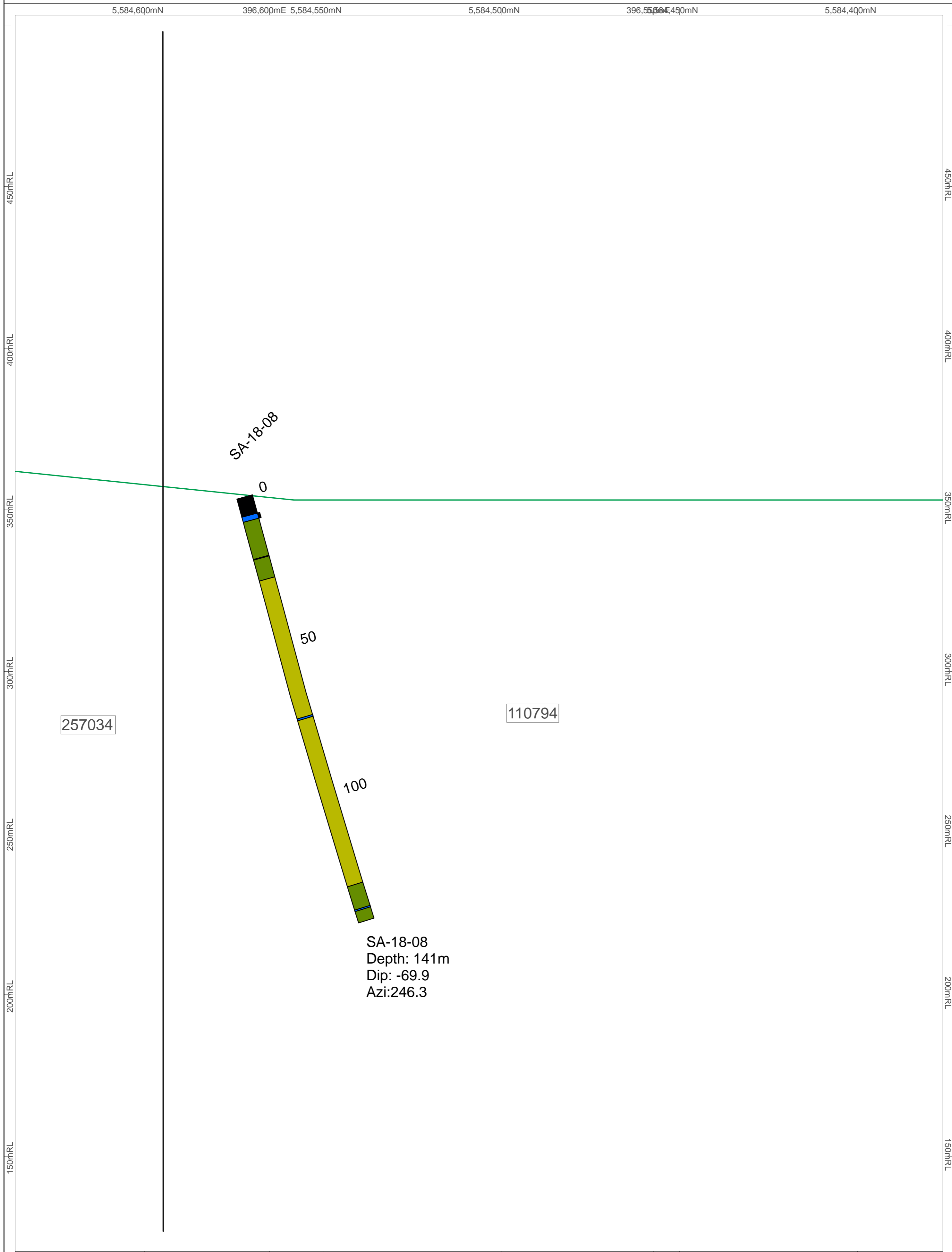
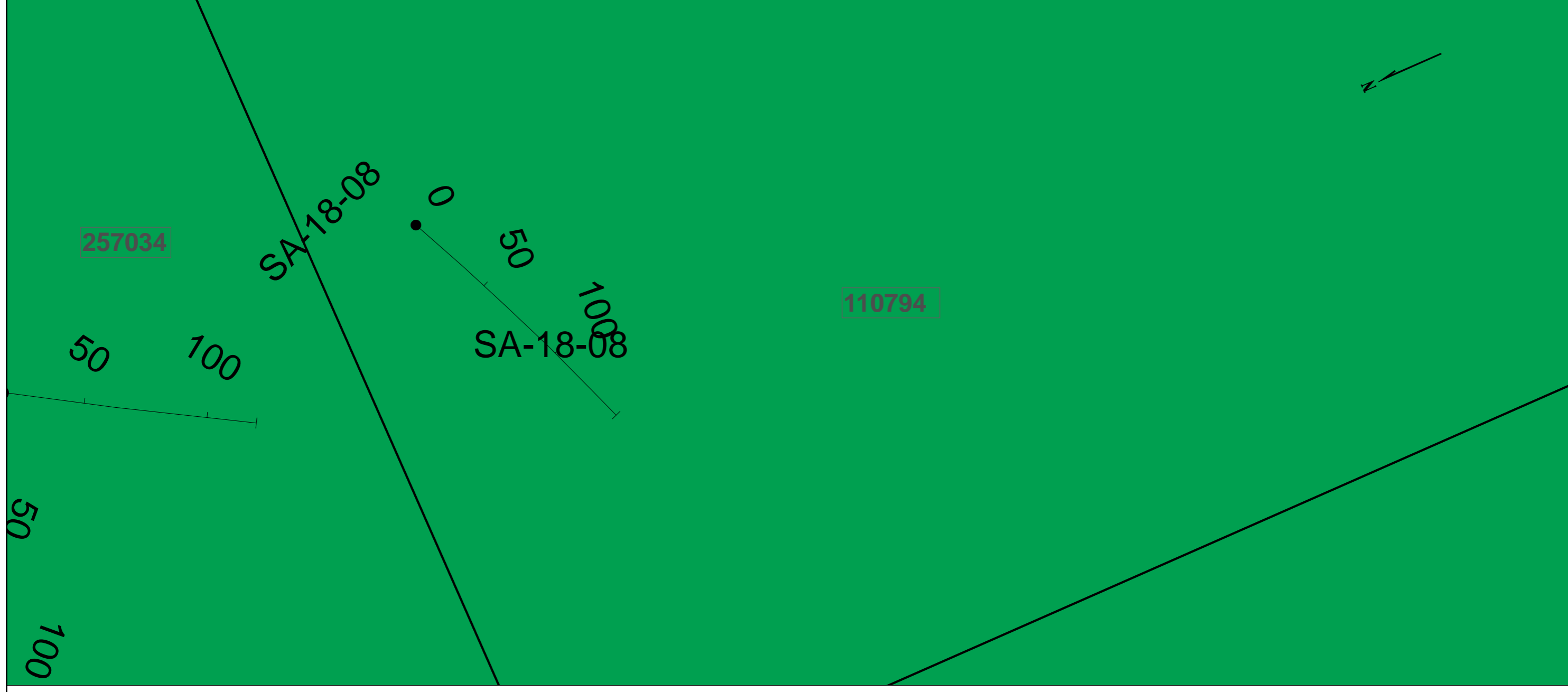
mm given at scale of 1:1000

- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic

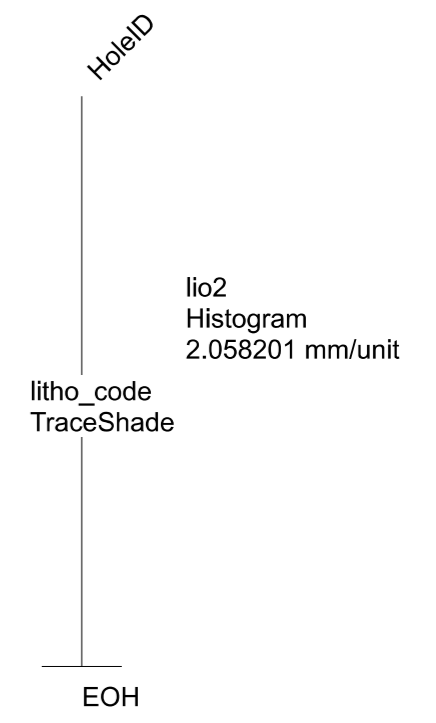
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6

305606 Claim Number
 — Claim Boundary

Ardiden Ltd.	
Date: 2/12/2020	ARD SEY 2018 DRILLING SA-18-05 SA-18-07
Author: L. Clapp	
Office:	
Drawing:	Scale: 1:750 Projection: Non-Earth (meters)



SA-18-08
 Depth: 141m
 Dip: -69.9
 Azi:246.3



- Legends**
- LITHOLOGY**
- Overburden
 - Mafic Extrusive Basaltic
 - Felsic Intrusive Granitic
 - Mafic Intrusive Doleritic/Diabase
 - Mafic Extrusive Pillowed
 - Mafic Doleritic/Diabase
 - Meta Tuff/Mafic
 - Quartz Vein
 - Intermediate Extrusive
 - Ultramafic Intrusive Pyroxenite
 - Mafic Extrusive Tuff
 - Volcanics Undifferentiated
 - Mafic Extrusive Dolerite/Diabase
 - Mafic Volcanics
 - Mafic Basaltic Flow
 - Intermediate Intrusive Lapilli Tuff
 - Quartz Biotite Schist
 - Mafic Porphyry
 - Felsic Porphyry
 - Mafic Intrusive Gabbroic
- ASSAY**
- 0 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 6

305606 Claim Number
 — Claim Number

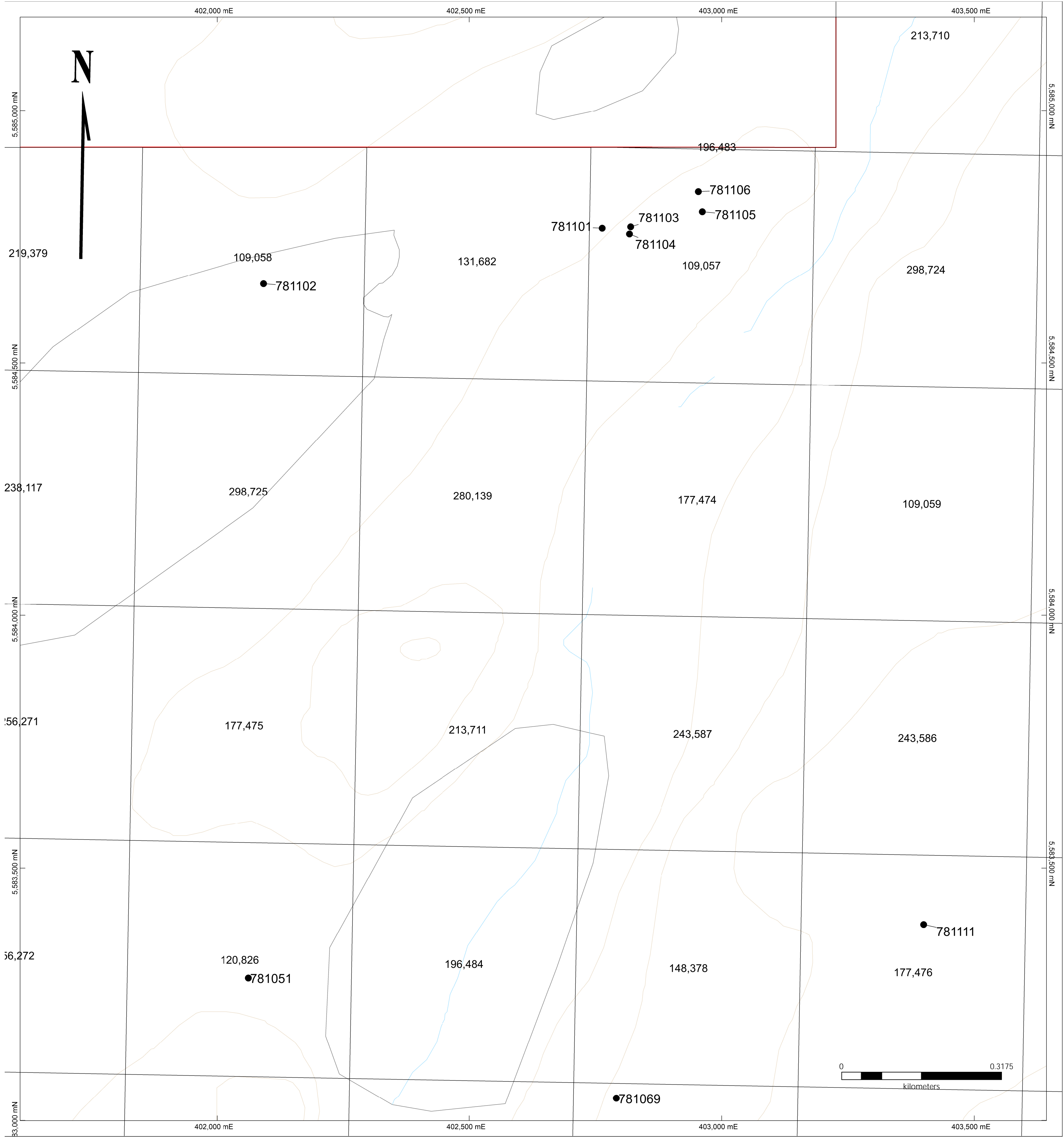
Ardiden Ltd.	
Date: 2/12/2020	ARD SEY 2018 DRILLING SA-18-08
Author: L. Clapp	
Office:	
Drawing:	
Scale: 1:750	Projection: Non-Earth (meters)

APPENDIX V - INVOICES





Withheld for client confidentiality.

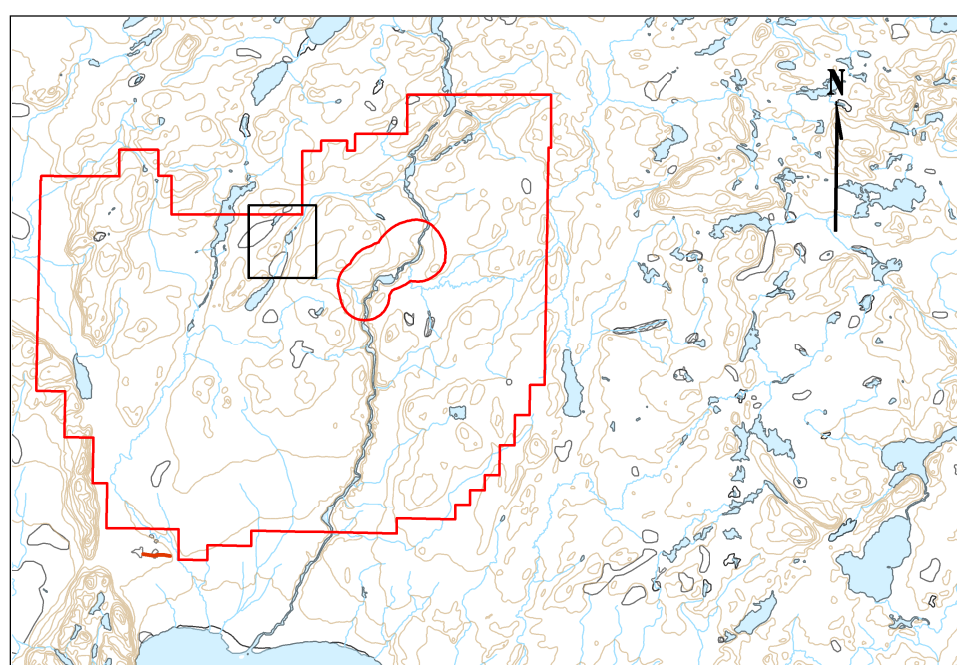
APPENDIX VI: WORK SUMMARY AND EXPENDITURES

APPENDIX VII – GRAB SAMPLE LOCATIONS



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

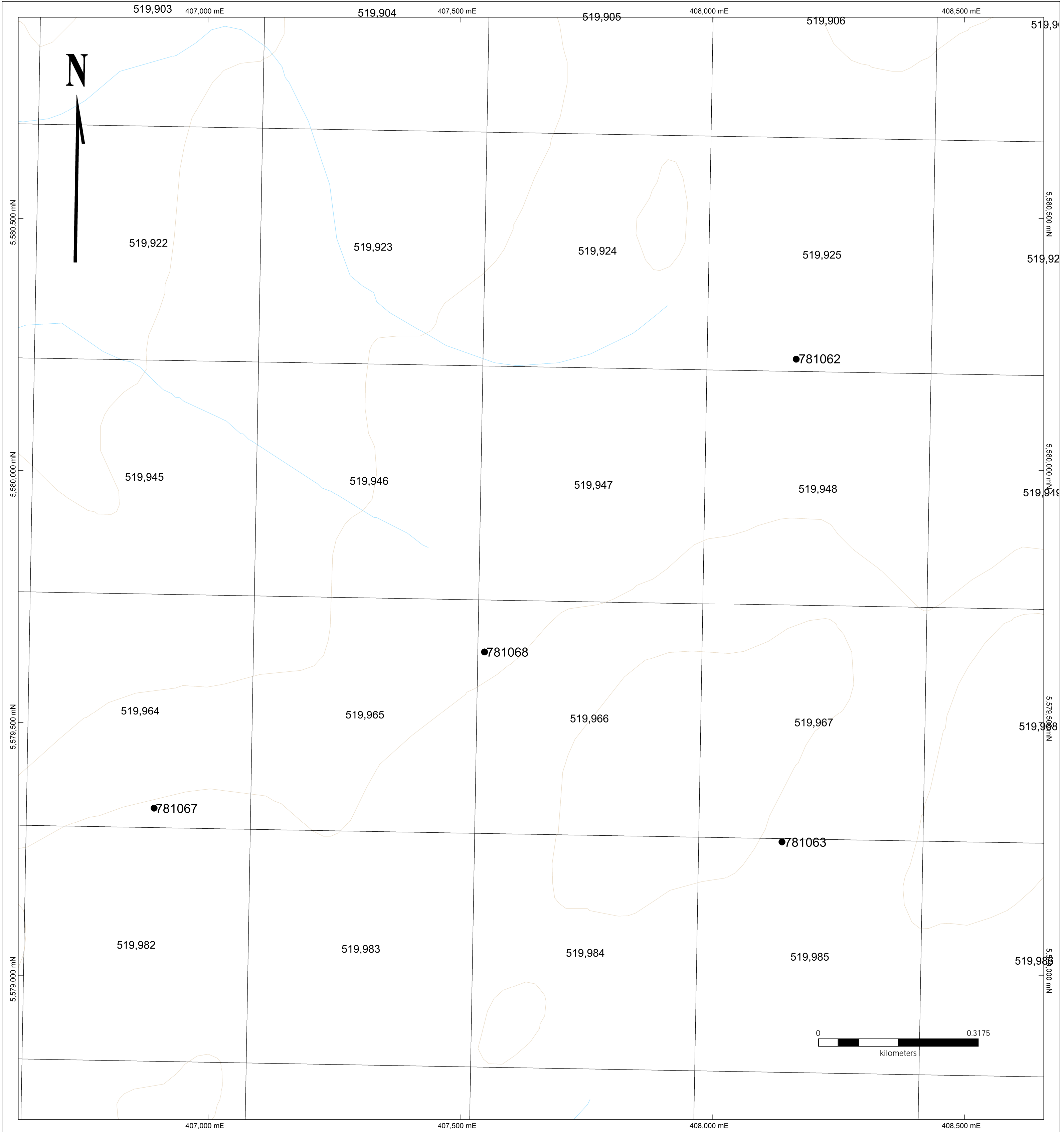
L. Clapp

Thunder Bay, ON

Drawing:

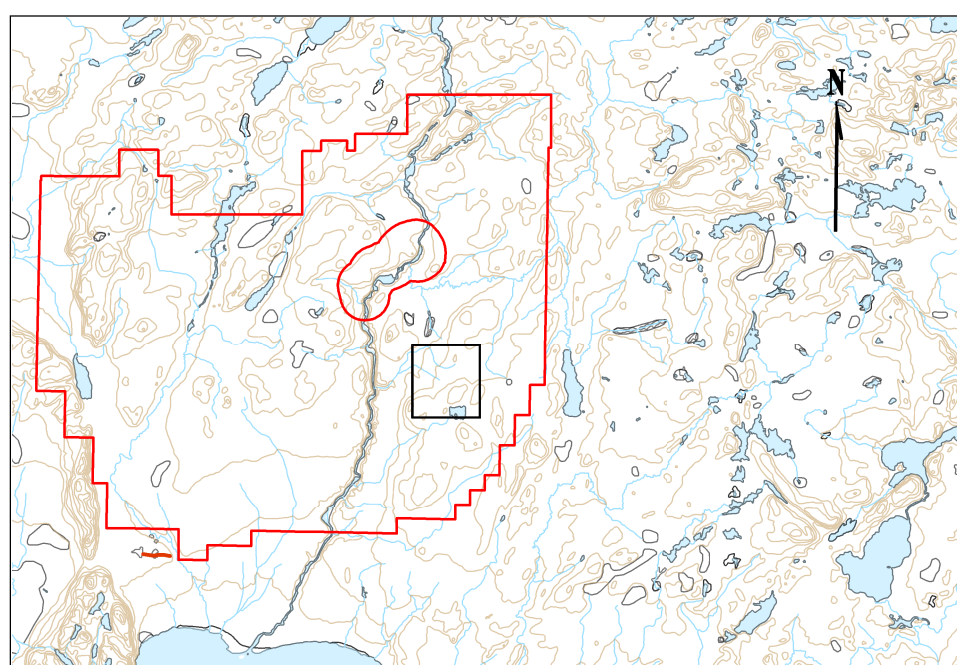
**Seymour Lake 2018 Project
Grab Sample Map**

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

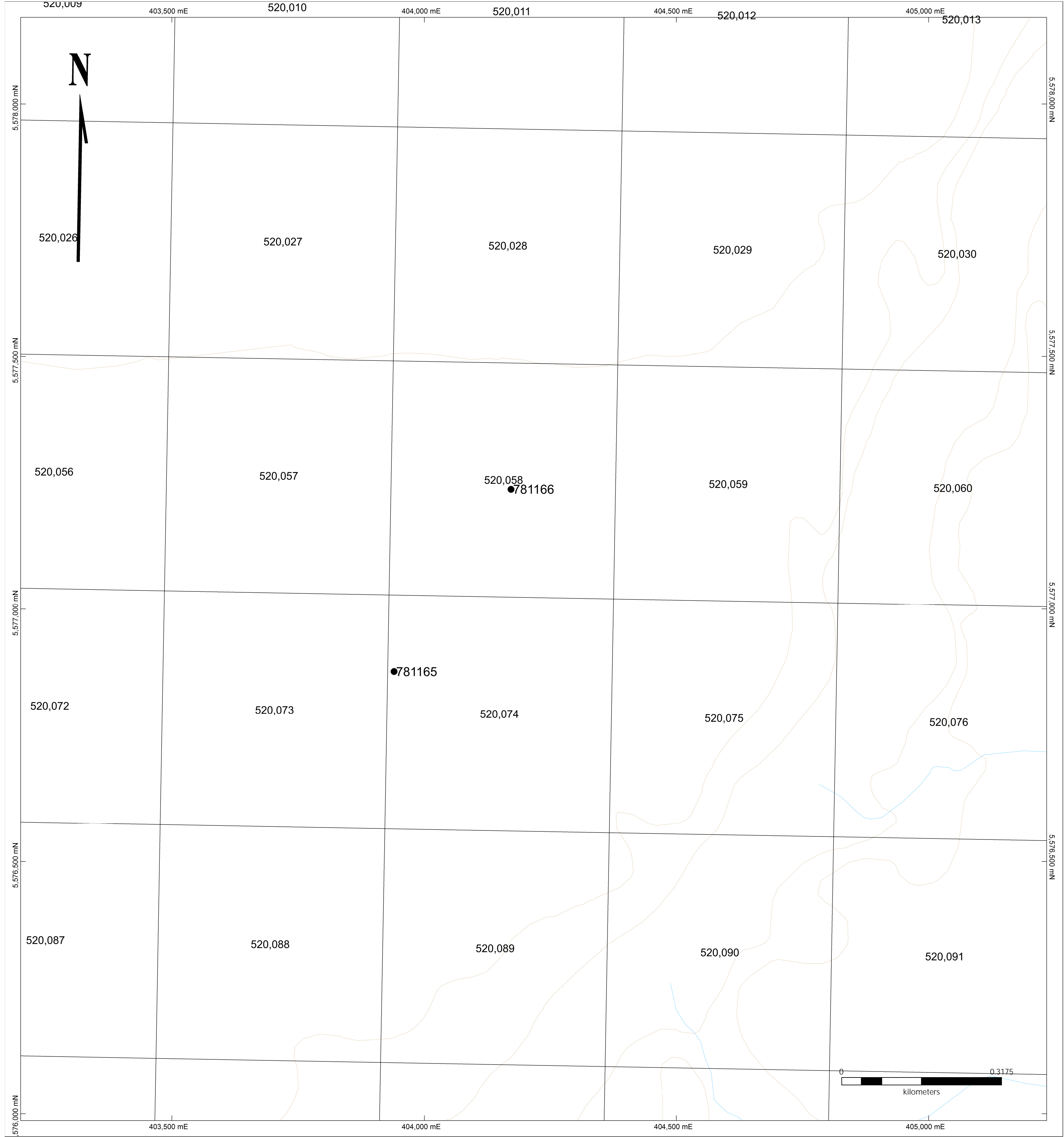
L. Clapp

Thunder Bay, ON

Drawing:

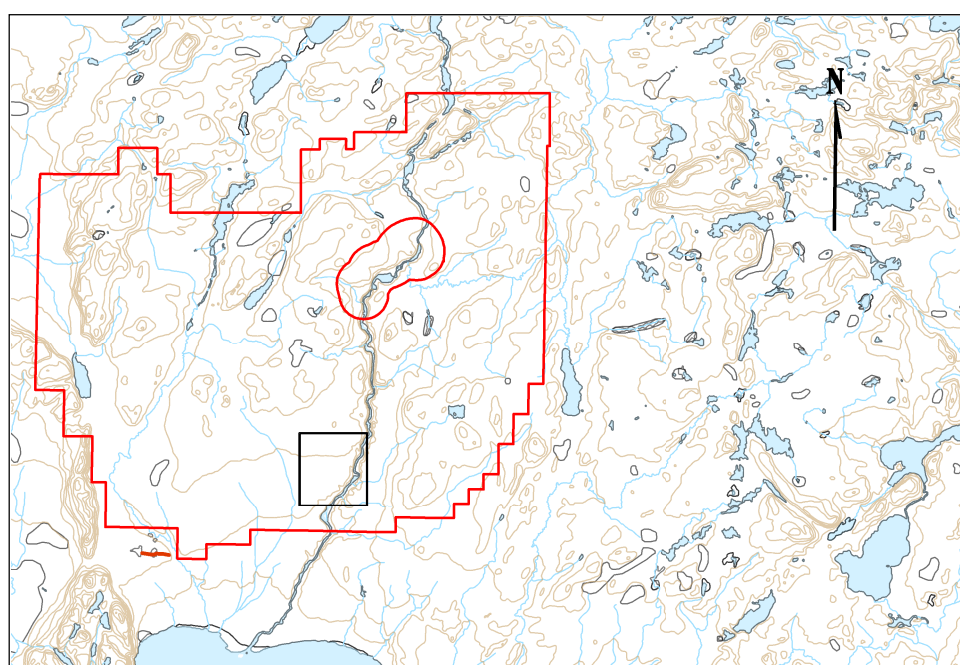
Seymour Lake 2018 Project Grab Sample Map

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

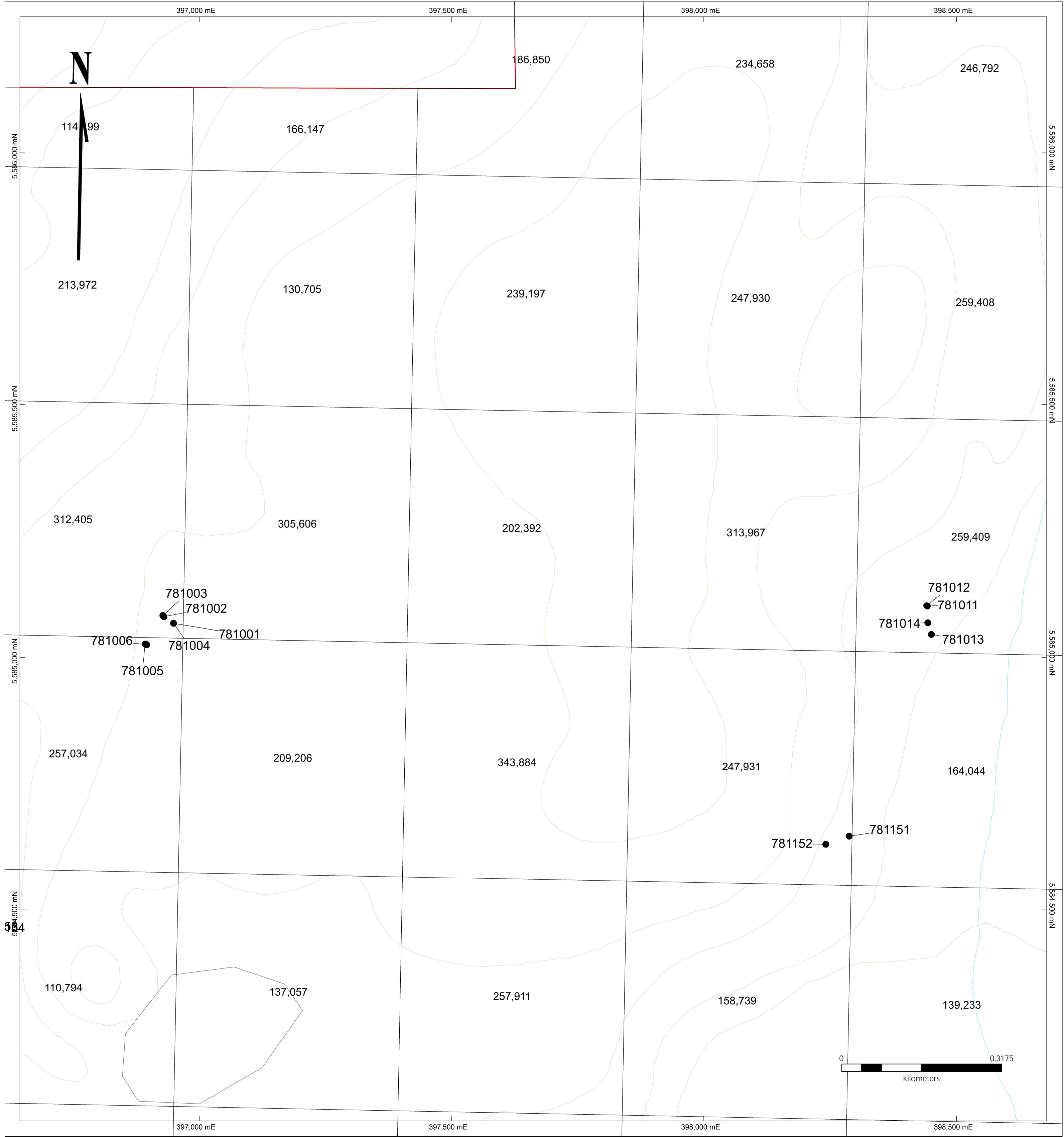
L. Clapp

Thunder Bay, ON



Drawing:

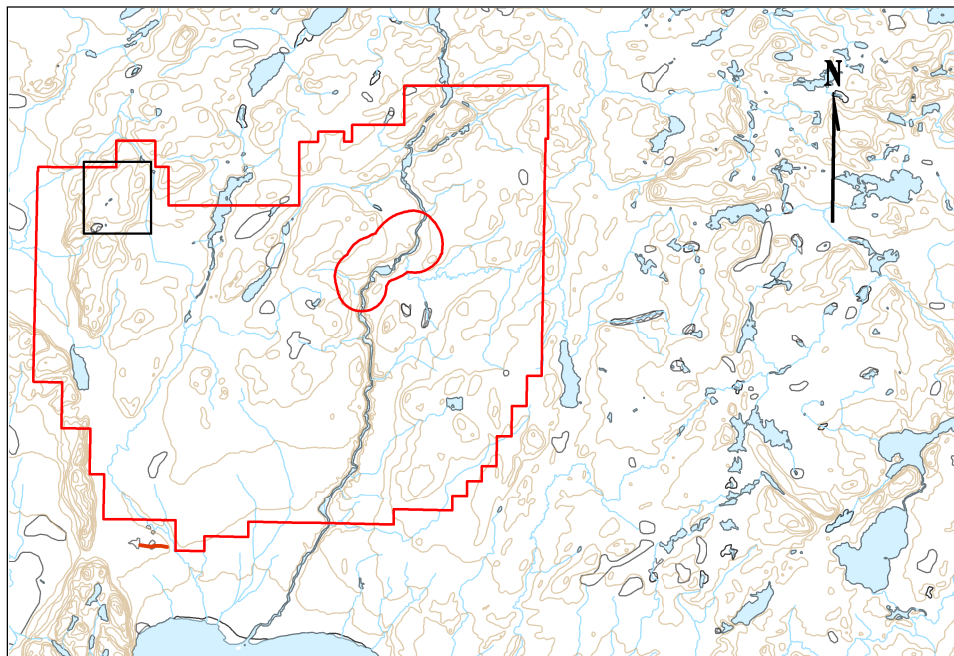
Seymour Lake 2018 Project Grab Sample Map

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

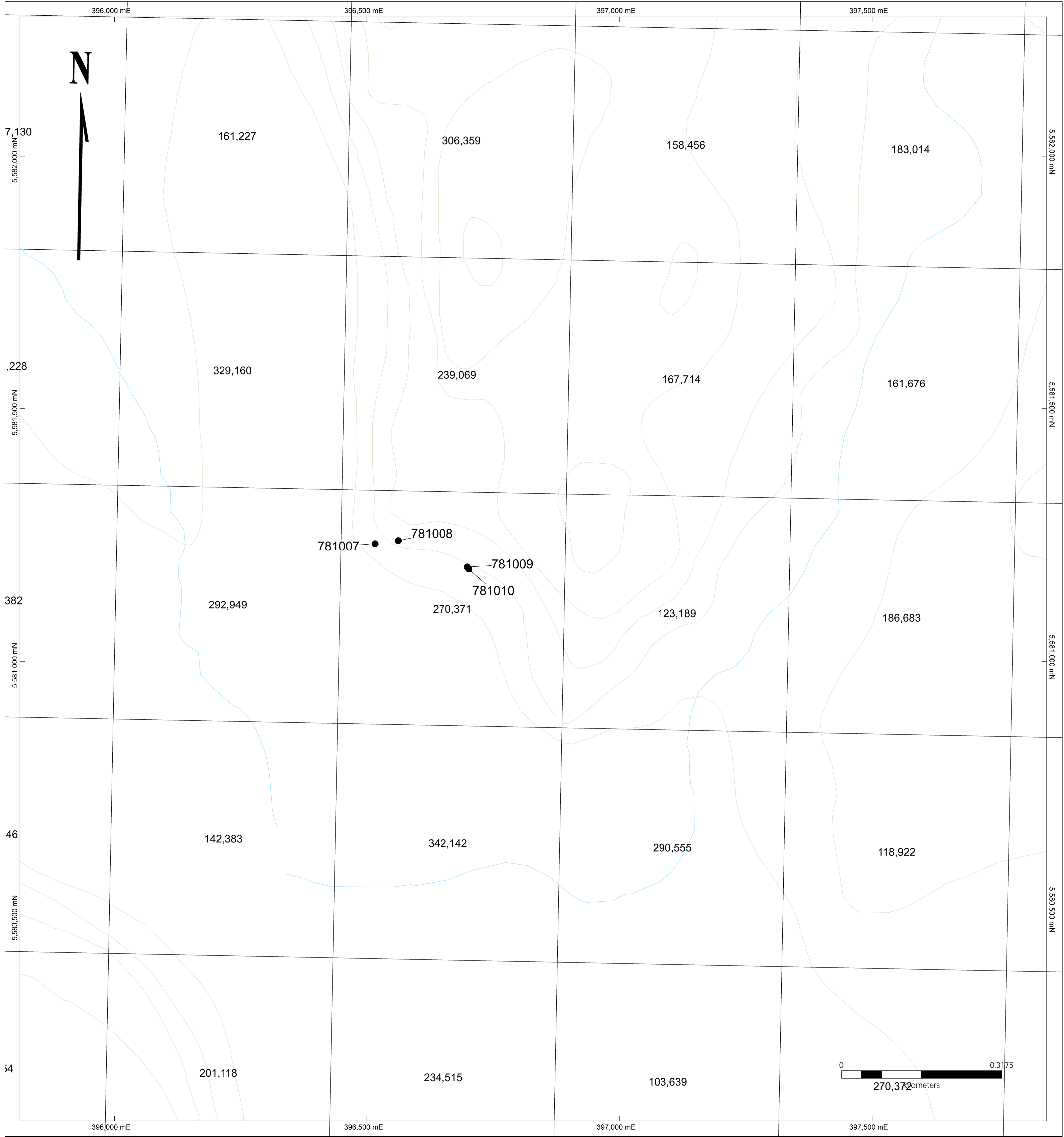
L. Clapp

Thunder Bay, ON




Drawing:

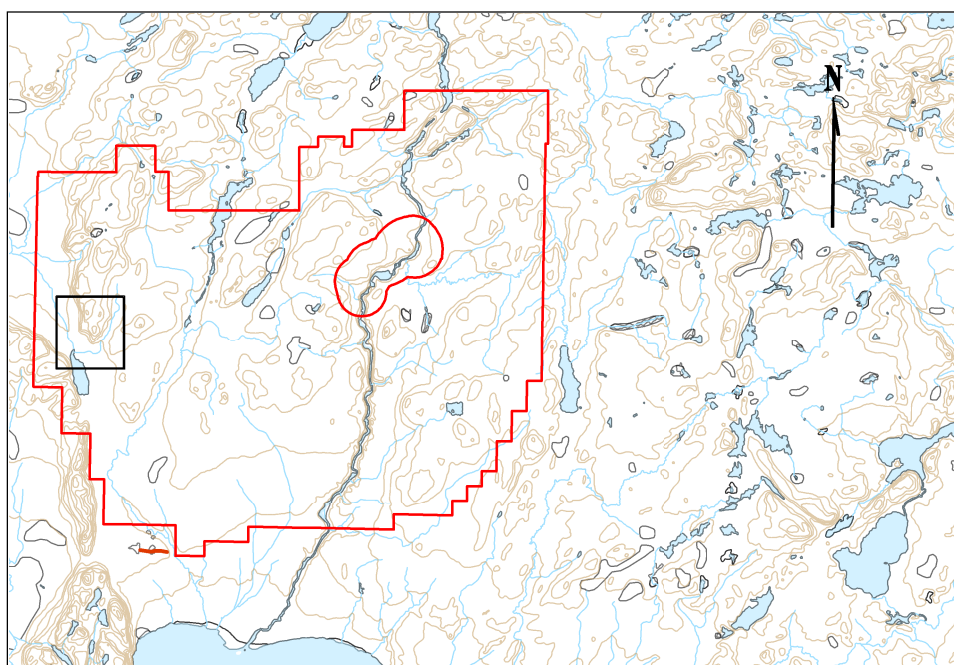
**Seymour Lake 2018 Project
Grab Sample Map**

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

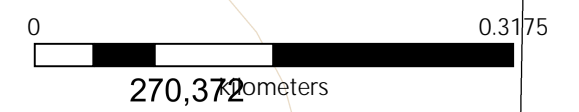
L. Clapp

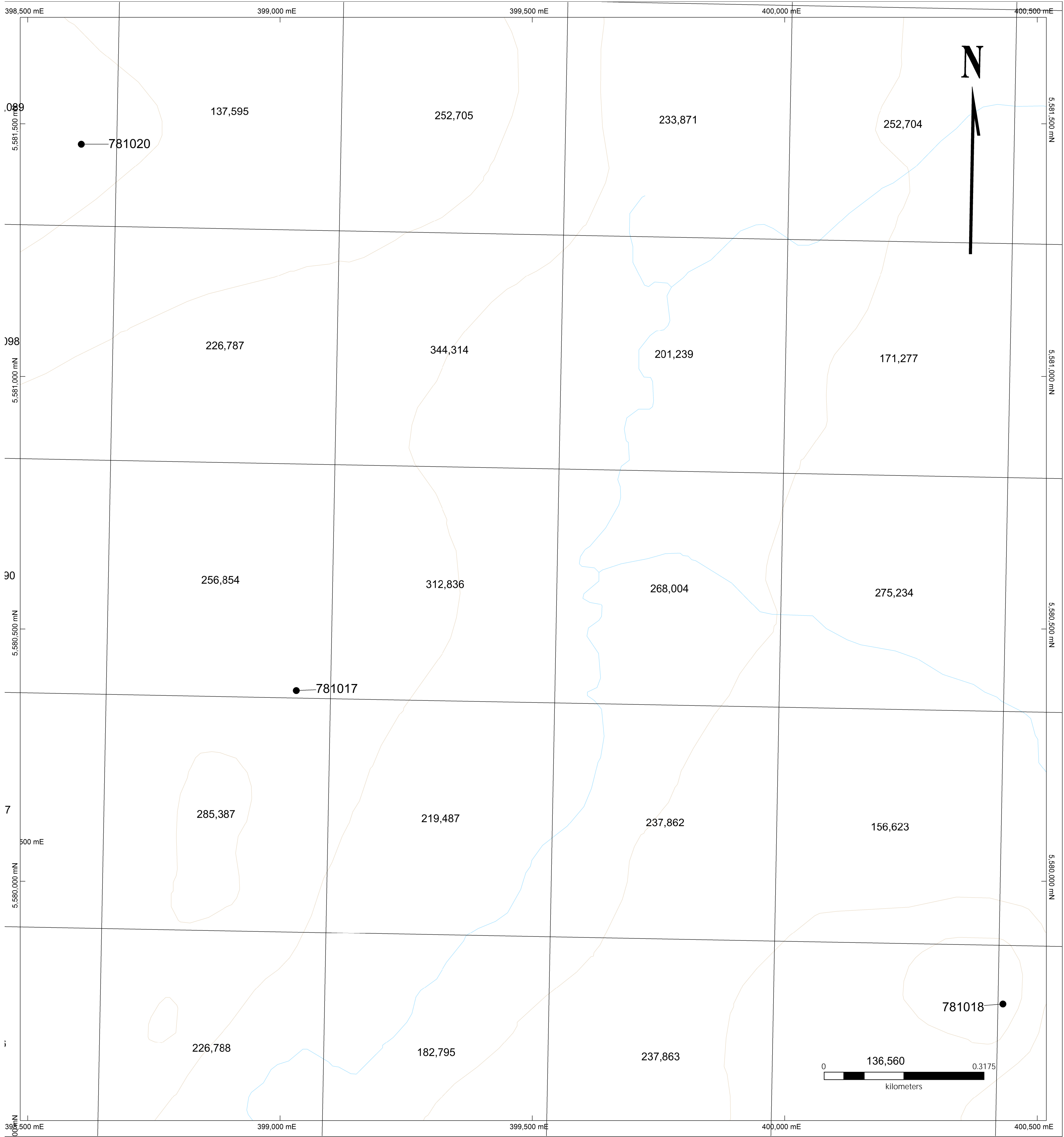
Thunder Bay, ON

Drawing:

Seymour Lake 2018 Project Grab Sample Map

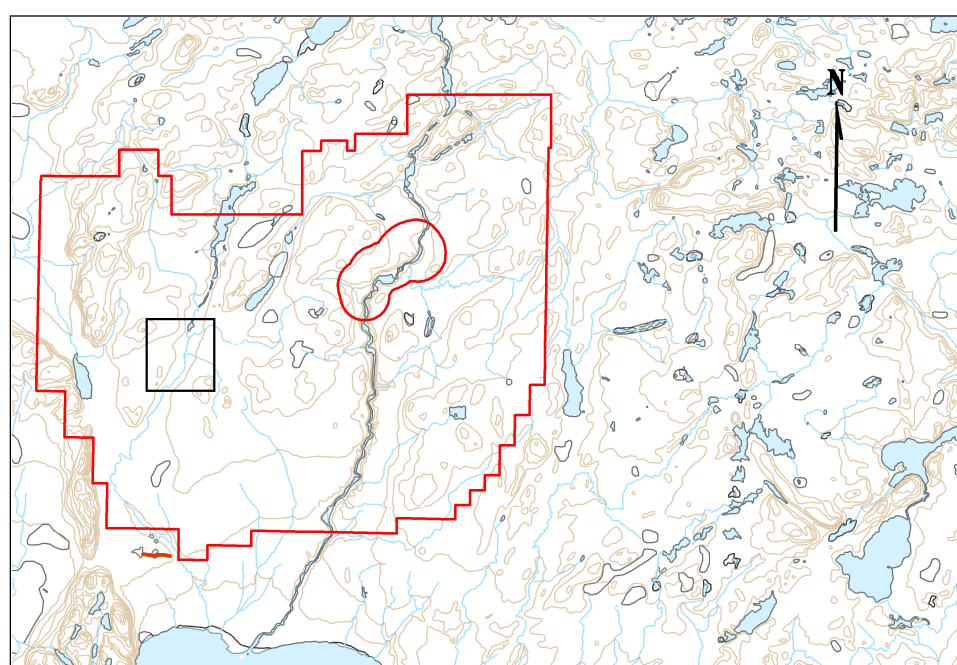
Projection: UTM Zone 16 (NAD 83)





Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

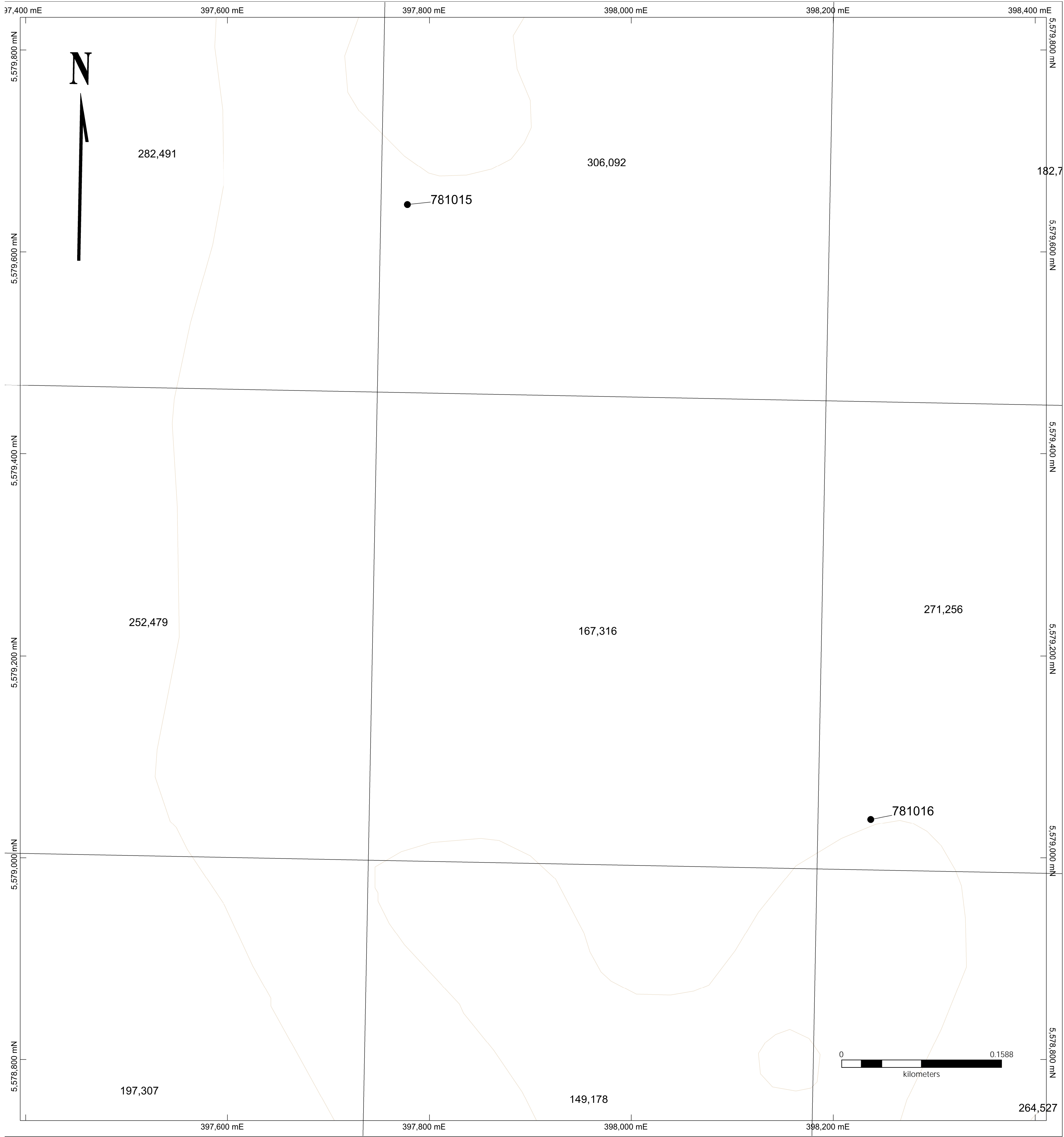
L. Clapp

Thunder Bay, ON

Drawing:

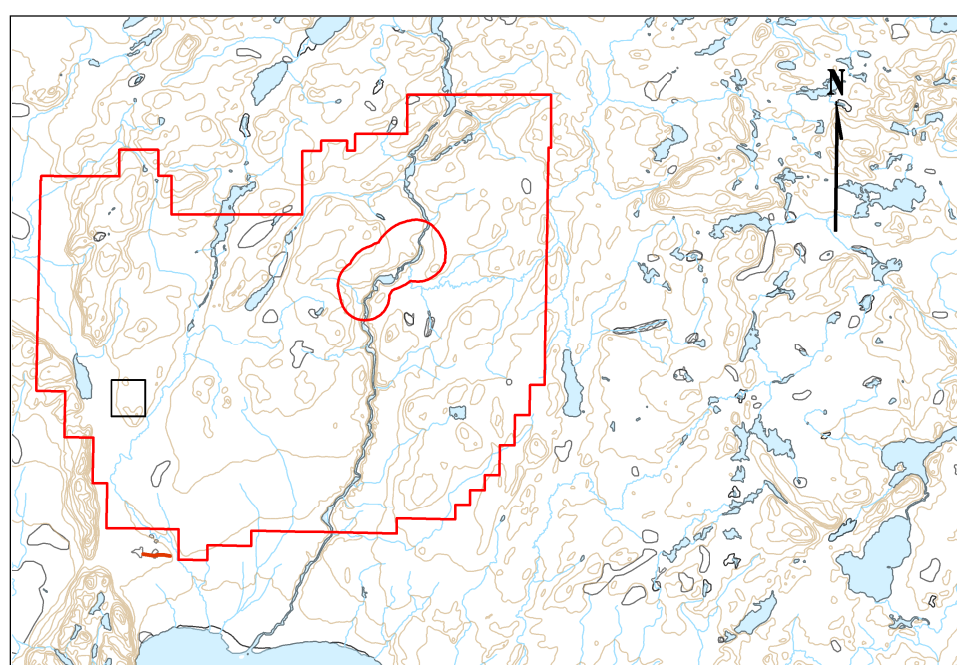
Seymour Lake 2018 Project
Grab Sample Map

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

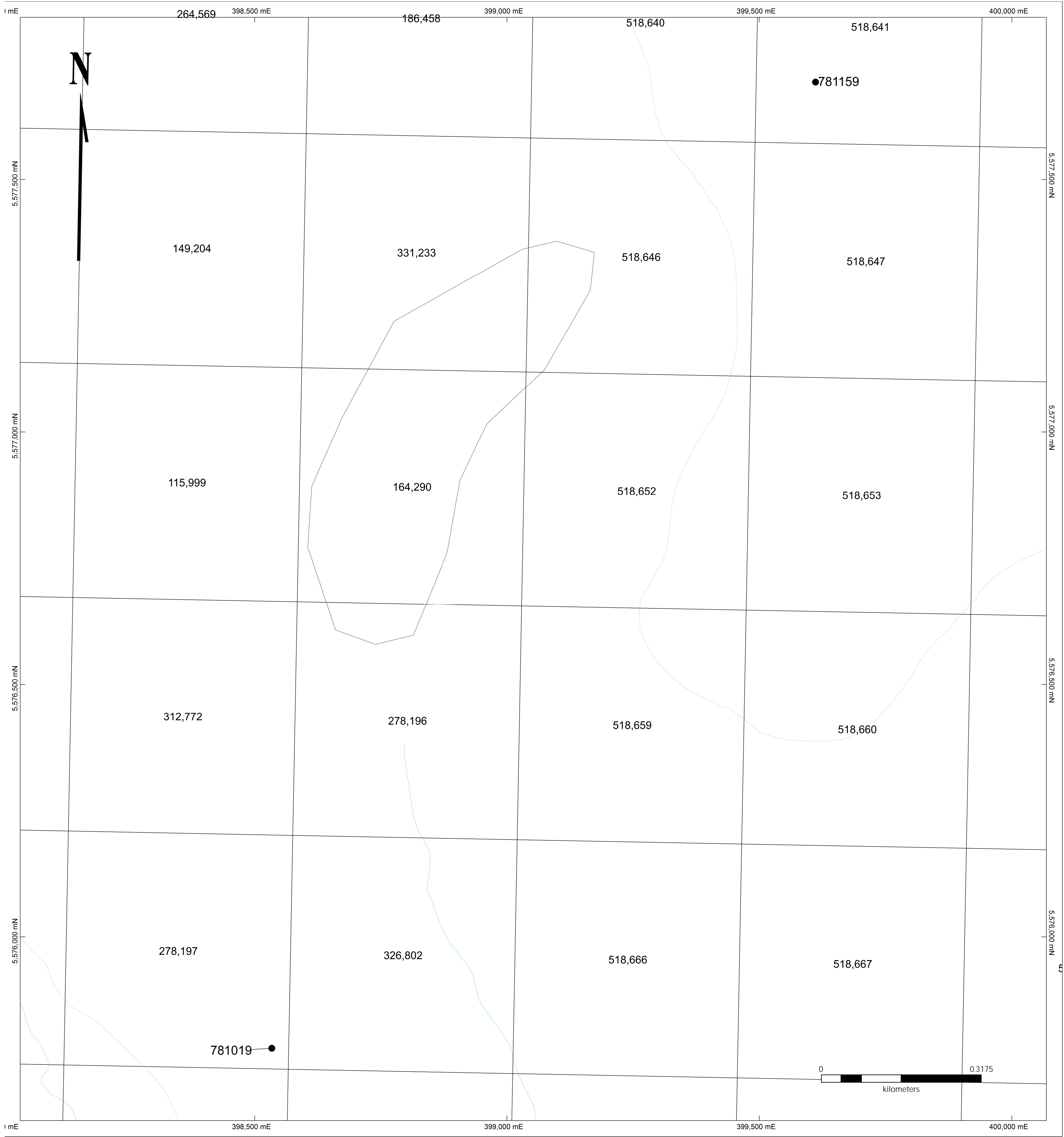
L. Clapp

Thunder Bay, ON

Drawing:

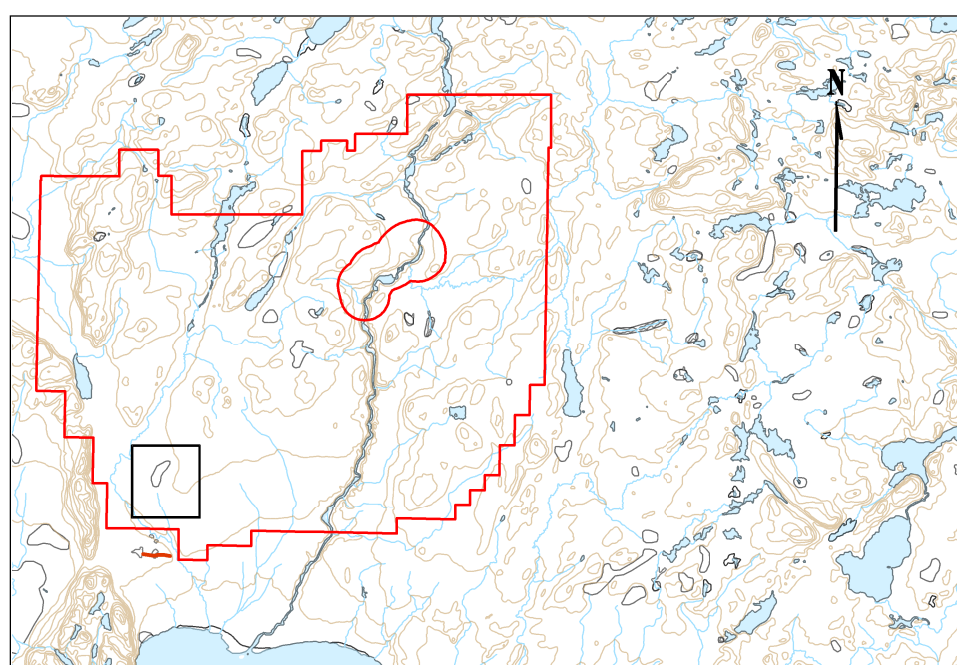
Seymour Lake 2018 Project
Grab Sample Map

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

L. Clapp

Thunder Bay, ON

Drawing:

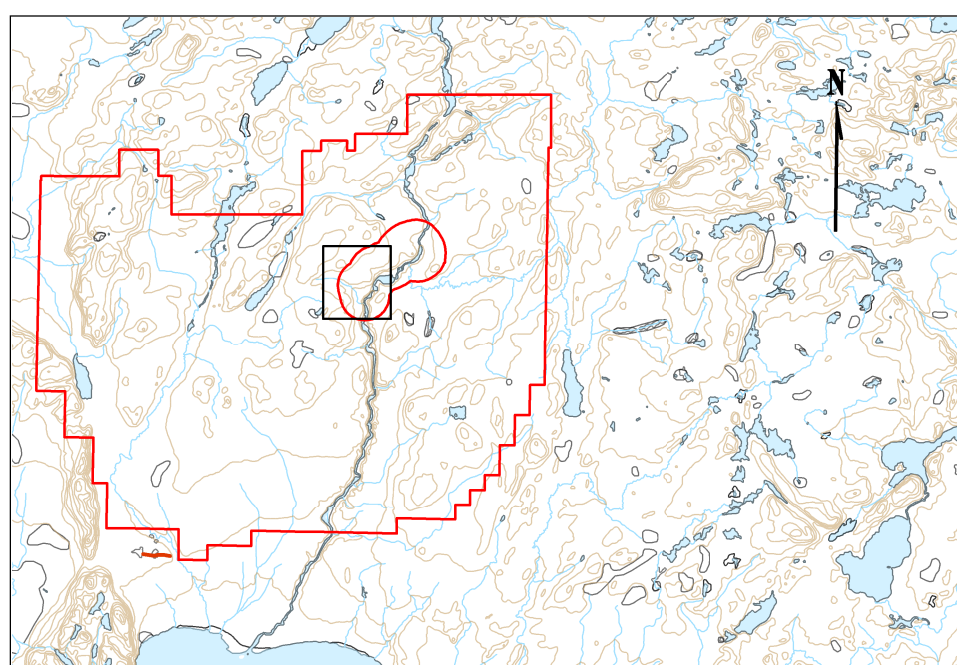
Seymour Lake 2018 Project
Grab Sample Map

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

L. Clapp

Thunder Bay, ON





Drawing:

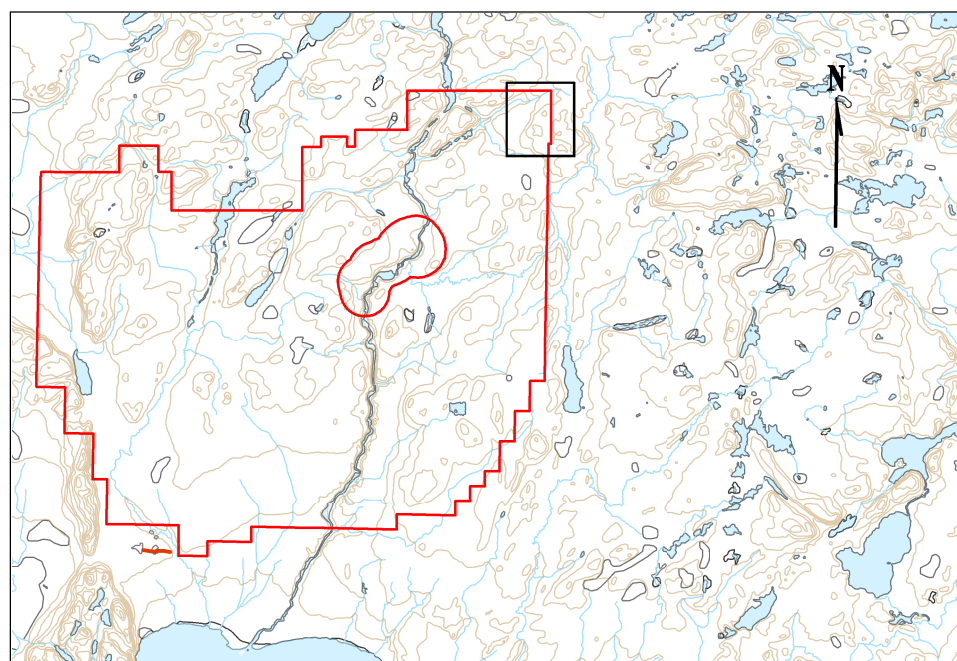
Seymour Lake 2018 Project Grab Sample Map

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

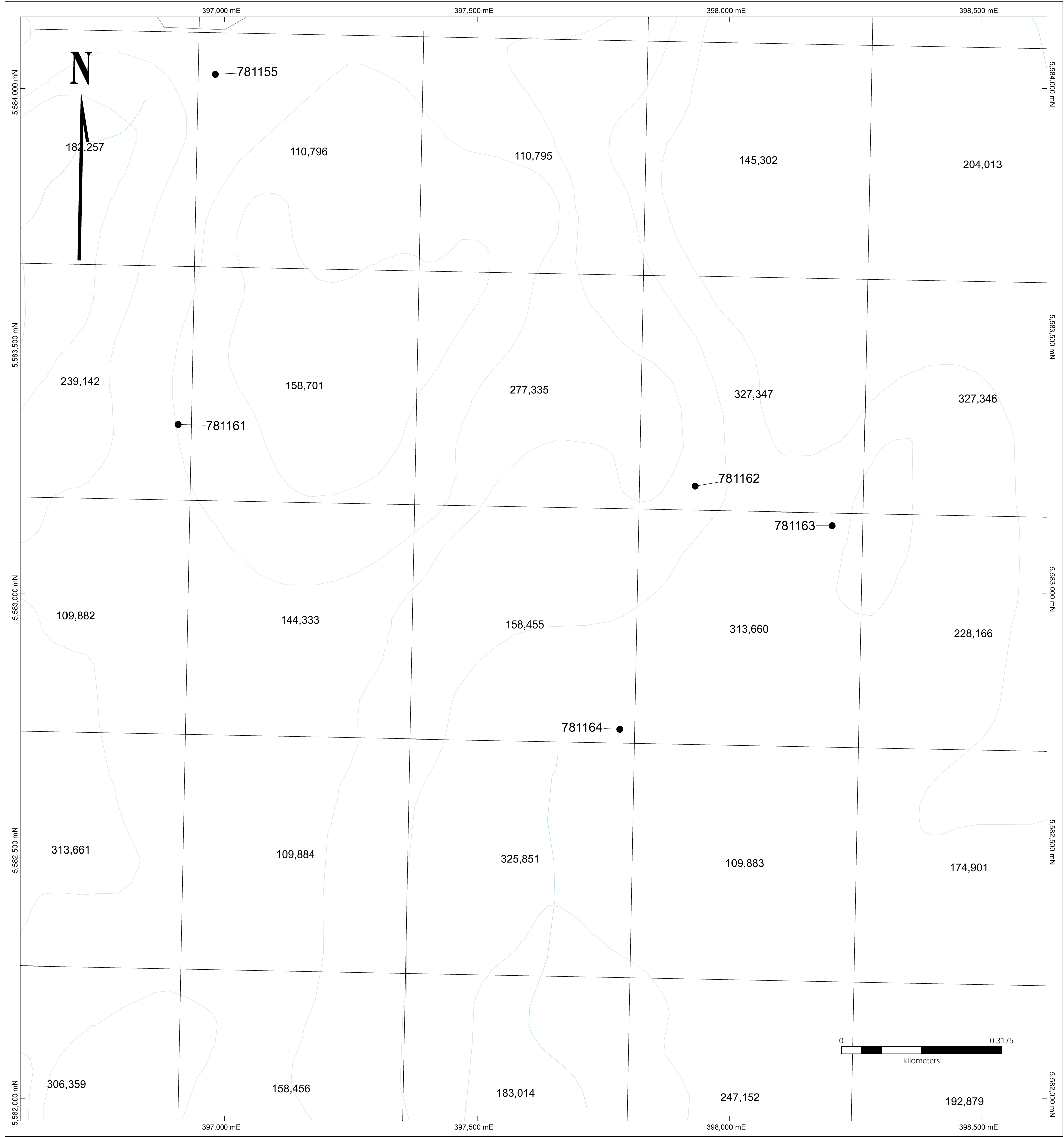
L. Clapp

Thunder Bay, ON





Drawing:

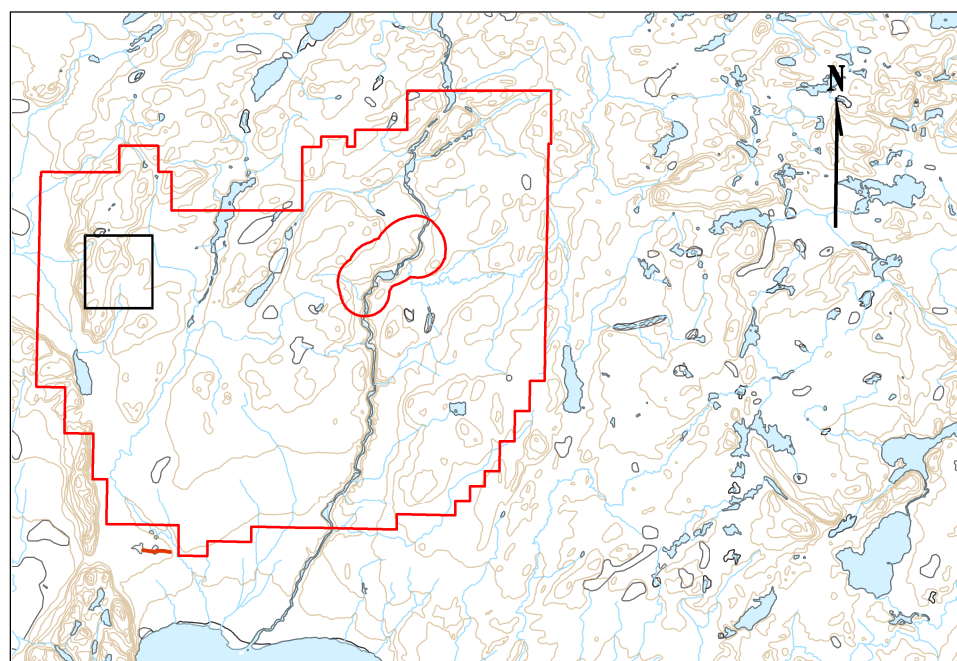
Seymour Lake 2018 Project Grab Sample Map

Projection: UTM Zone 16 (NAD 83)



Legend

-  Contour
-  Water
-  Wetland
-  SEY Property Boundary



Date: 10/23/2019

L. Clapp

Thunder Bay, ON

Drawing:

Seymour Lake 2018 Project
Grab Sample Map

Projection: UTM Zone 16 (NAD 83)