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ASSESSMENT WORK REPORT  
PROSPECTING & EXPLORATION  
ON ENVIROMINE INC. CLAIMS  
FOLEYET & LEMOINE TOWNSHIP  
PORCUPINE DISTRICT  
ONTARIO  
2019 PROSPECTING & EXPLORATION

PREPARED BY  
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TORONTO, ON



## Shawmere Anorthosite Project

### 2019 Technical Report

Report Completed by: Enviromine Inc., Andrew Glatzmayer, Jonathan Armes

Grass Roots Prospecting: Michael Tremblay, Marc Tremblay

Drilling: Vanguard Mining

### Introduction

Enviromine is a privately held exploration stage mineral company engaged in the acquisition, exploration and development of Anorthosite mineral properties located near the town of Foleyet in northern Ontario, Canada. The company holds 100% interest in 234 mining claims in the Shawmere Anorthosite Complex (“The Shawmere Project”) covering approximately 49.5 square kilometers.

Anorthosite is an intrusive igneous rock characterized by its composition: mostly plagioclase feldspar (90–100%), with a minimal mafic component (0–10%). Anorthosite is dominated by the mineral plagioclase, a sodium-calcium aluminum silicate.

The Shawmere Project has excellent potential to produce a finely ground anorthosite as an industrial mineral replacement to traditional raw material inputs across a broad range of end market manufacturers including, but not limited to;

- Glass & Glass fiber
- Paints & coatings
- Cement
- Insulation
- Ceramics

The Shawmere Anorthosite is a sodium-calcium aluminum silicate. Shawmere’s unique Anorthosite composition (50% Silicon, 30% alumina 15% calcium, low sodium, low iron) provides manufacturers the ability to produce superior end products with reduced energy consumption and zero carbon emissions relative to existing processes in many of the manufacturing methods for these industries today.

The town of Foleyet is located approximately 100 km west of Timmins, Ontario. Enviromine’s claims cover an area of known anorthosite occurrences with excellent potential to host a large resource of high quality calcium feldspar.

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The production process is straightforward whereby the calcium feldspar can be extracted at surface by conventional quarry mining operations and processed by several stages of crushing and magnetic separation to produce a high quality raw material for the manufacture of glass fibre and other industrial products. The location of the property is accessed directly by vehicle via 15 km by road and highway from Foleyet which hosts extensive rail transportation infrastructure. Foleyet's proximity to markets in North America offers the potential for development of a low-cost, profitable industrial minerals operation.

High purity anorthosite has been tested against kaolinite and nepheline syenite and recognized as a preferred source of alumina for glass manufacture. It promotes more rapid melting at lower temperatures, thus reducing energy consumption, lengthening the life of the furnace and improving the yield and quality of glass. The material is used in glass fibre, ceramic glazes and enamels and in fillers in paints, papers, plastics and cement.

EnviroMine obtained Exploration Permit# PR-19-000226, the "Shawmere Project" within the Lemoine and Foleyet Townships in the District of Sudbury on October 16, 2019.

EnviroMine carried out a prospecting and surface sampling program at its Shawmere Project throughout 2019 as follows:

1. June: Grass Roots prospecting and outcrop sampling
  - 10 days 33 outcrop samples
  - 33 outcrop samples collected
2. July: Grass Roots reconnaissance
  - 5 days
3. October – November: Grass Roots prospecting and outcrop sampling and Percussion Drilling
  - 10 days
  - 6 Percussion drill holes ~25-30 metres vertical
  - 141 drill samples
4. December: - Grass Roots prospecting and outcrop sampling
  - 4 days
  - 7 outcrop samples

In November 2019 EnviroMine drilled 6 percussion holes to confirm the anorthosite's composition consistency at depth. The company has subsequently submitted an application for Bulk Sample Permission for less than 100 tonnes to the Ministry of Northern Development and Mines. The purpose of the bulk sample is to conduct product development testing (crushing methods and magnetic separation) and also to provide end users sample material for manufacturing assessments.



## Mineral Properties

EnviroMine Inc. holds 100% interest in 234 mining claims in the Shawmere Anorthosite Complex (“The Shawmere Project”) covering approximately 49.5 square kilometers.

Township / Area	Tenure ID	Tenure Type	Anniversary Date	Tenure Status	Tenure Percentage	Work Required
LEMOINE	534075	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534074	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534073	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534072	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534071	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534070	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534069	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534068	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534067	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534066	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534065	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534064	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534063	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534062	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534061	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534060	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534059	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534058	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534057	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534056	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534055	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534054	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534053	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534052	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534051	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534050	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534049	Single Cell Mining Claim	2020-10-31	Active	100	400
FOLEYET,LEMOINE	534045	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534044	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534043	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534042	Single Cell Mining Claim	2020-10-31	Active	100	400
FOLEYET	534041	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534040	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534039	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534038	Single Cell Mining Claim	2020-10-31	Active	100	400
FOLEYET	534037	Single Cell Mining Claim	2020-10-31	Active	100	400
FOLEYET,LEMOINE	534036	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534035	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534034	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534033	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534032	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534031	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534030	Single Cell Mining Claim	2020-10-31	Active	100	400
FOLEYET,LEMOINE	534029	Single Cell Mining Claim	2020-10-31	Active	100	400
FOLEYET,LEMOINE	534028	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534027	Single Cell Mining Claim	2020-10-31	Active	100	400
LEMOINE	534026	Single Cell Mining Claim	2020-10-31	Active	100	400











LEMOINE	553047	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553046	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553045	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553044	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553043	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553042	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553041	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553040	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553039	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553038	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553037	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553036	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553035	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553034	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553033	Single Cell Mining Claim	2021-07-03	Active	100	400
LEMOINE	553032	Single Cell Mining Claim	2021-07-03	Active	100	400

## Previous Exploration

### North American Palladium

On October 11, 2007, North American Palladium Ltd. (NAP) announced that it had acquired a 100% interest in a portion of the Shawmere Anorthosite Complex, located approximately 110 kilometres southwest of Timmins, Ontario. NAP intended to conduct a grassroots exploration program to identify a new platinum group metal project. The property was acquired by staking 40 contiguous claims containing 631 claim units in the Shawmere Anorthosite Complex. Access to most of the claim group was provided by Highway 101 and existing forest access roads. NAP completed an exploration program in the summer of 2008. While small geochemical anomalies were identified, the results were not sufficiently prospective to warrant further exploration activity by NAP.

### Avalon Advanced Materials

The Warren Township Calcium Feldspar Project is an advanced mineral development opportunity located in the Shawmere Anorthosite Complex near the Village of Foleyet, 100 km west of Timmins, Ontario. The project consists of three mining claims totalling 728.43 ha staked by Avalon in 2002. The three claims cover a portion of the Shawmere Anorthosite Complex hosting a resource (in excess of 800,000 tonnes, not yet audited for compliance with NI 43-101) of a high purity anorthosite consisting of up to 98% high calcium plagioclase feldspar. Previous work on the property demonstrated that the material can be processed to produce a high quality calcium feldspar raw material for the manufacture of reinforcing glass fibre and other industrial products such as mineral fillers.

The average elevation on the property is approximately 390 m above sea level. Avalon staked the property in October 2002. The Warren Township project was previously covered by claims owned by Purechem Limited, a private company which spent over \$200,000 from 1993 to

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2001 evaluating the property first as a potential producer of aluminum chemicals and later as a producer of high-purity calcium feldspar. This involved geological mapping, trenching, market development and percussion drilling to define mineral resources. Purechem's consultants prepared a resource estimate which reported 506,208 tonnes of measured resources and 351,796 tonnes of indicated resources in two separate areas. A qualified person has not done sufficient work to classify the historic estimate as current mineral resources and the Company is not treating the historic estimate as current mineral resources. Purechem was successful in identifying a major potential customer for the calcium feldspar product in southern Ontario and completed a positive pre-feasibility study for the development of the project on this basis. The glass company had indicated a willingness to purchase a minimum of 12,000 tonnes per year of the product subject to the successful completion of an in-plant evaluation of a 320 tonne bulk sample of the product. However, Purechem was unable to secure the estimated \$250,000 in new financing required to extract, process and deliver the bulk sample, and was forced to abandon the project in 2002.

The calcium feldspar product was deemed to be well suited as a raw material for the textile glass reinforcement product and would replace high cost kaolin and high purity limestone. After staking the property, Avalon prepared a new pre-feasibility study and business plan updating the original study prepared for Purechem. (with the support of Hains Technology Associates the author of the pre-feasibility study for Purechem) The February, 2003 study concluded that the market opportunity in reinforcing glass fiber identified by Purechem still existed. (note: Since that time the fibreglass market has continued to grow with new applications emerging such as in composites for wind turbine blades). In 2004, Avalon carried out an \$80,000 work program involving the collection and processing of a 10 tonne bulk sample to produce test quantities of the calcium product for two potential customers, one in the glass industry and the other in the paper industry. The Company also completed engineering work to design a pilot plant and work program for carrying out a larger scale bulk sampling program. The bulk sampling program did not proceed at the time after the glass industry customer concluded that the soda level in the product exceeded their limits and the specialty paper producer, considering the product for a filler application, indicated that it required a larger test sample to complete its evaluation of the material.

In early 2006, Avalon received an expression of interest for the calcium feldspar product from a major US-based fibreglass producer. A longer term price for the material was established and an order was received for a 400 ton product sample for a full-scale furnace trial at one of the customer's plants in the United States. The process flowsheet is a relatively simple one involving dry grinding and magnetic removal of the very small amounts of contained ferromagnesian minerals from the ore.

In late 2006, arrangements were made for extracting up to 1000 tonnes of material for processing and delivery to the only available suitable toll milling facility (based in southern



Alberta) in early 2007. This overall program, including the products integration into the batch of a production line furnace was completed over a nine month period from February to October, 2007. The program cost including sample extraction, shipping, processing and supervision was budgeted at \$500,000 but due to operational inefficiencies, ended up costing \$850,000, net of cost recoveries from the customer.

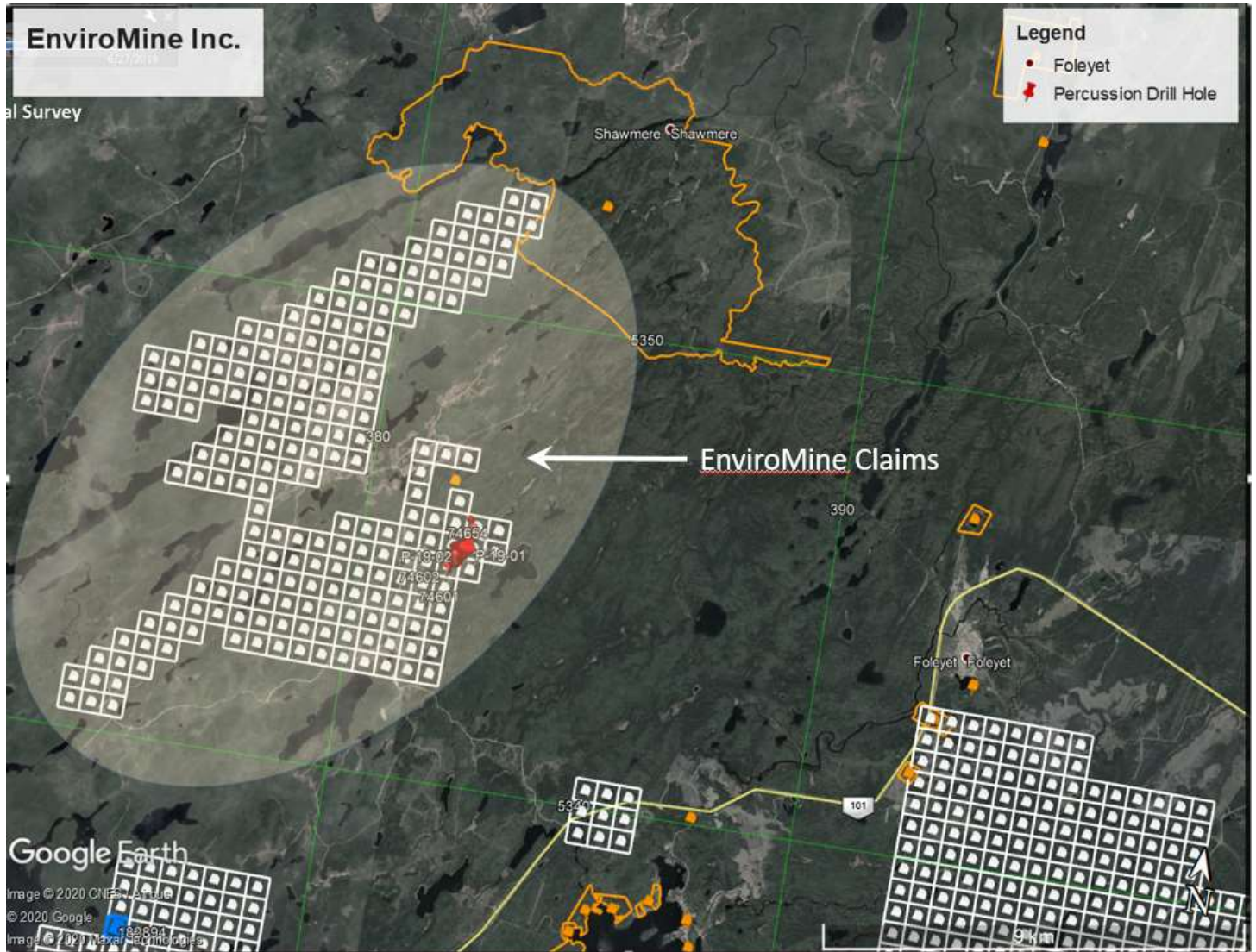
The bulk sample program proved to be successful in delivering a 417 tonne of pure anorthosite product sample which was used in a furnace trial to evaluate its performance as an alternative raw material for certain fiberglass applications offering potential product quality, cost and environmental benefits including reduction of furnace greenhouse gas emissions. The tests confirmed that substituting anorthosite into the batch formula, whereby it partially or fully replaced the requirement for two other raw materials, reduced energy demand by at least 10% and significantly reduced greenhouse gas emissions..

### **Ontario Geological Survey & Ministry of Natural Resources**

In the 1970's, the Shawmere anorthosite project was developed and implemented by the Ontario Geological Survey, Ministry of Natural Resources on behalf of the Ministry of Northern Affairs. The Shawmere Anorthosite body was first discovered by the Ontario Geological Survey during a reconnaissance survey in 1970 (Operation Chapleau). The body is located near Chapleau and is close to road and rail transportation. Similarities between the Shawmere Anorthosite and chrome bearing anorthosites in Greenland were noted as a result of the 1970 reconnaissance work and since that time the extraction of aluminum from high purity anorthosite has been proven technologically feasible. The detailed survey of part of the Shawmere anorthosite was undertaken to assess the potential of this body for chromite mineralization and to generally delineate high purity anorthosite zones of potential interest for aluminum..

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EnviroMine's Shawmere Project property location is approximately 15 kilometres from the Town of Foleyet. It is accessed travelling 10 km west along highway #101 from Foleyet and 5 km along logging roads directly to the project.



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## 1. Grass Roots Prospecting

Conducted by: Michael Tremblay, Marc Tremblay

June 8<sup>th</sup> – 19<sup>th</sup>

- 33 Outcrop samples
- Mining Claims: 534038, 534059, 534066, 546263, 566312, 546297, 546322, 553042, 553052, 553050, 553051, 553049, 546339, 546358, 546334, 546348, 546303, 546312, 546320, 546317, 546295

EACOM Timber Corporation has conducted extensive logging throughout the Shawmere complex within the Lemoine and Foleyet townships. Logging road access directly from Highway #101 provides access to outcrops used for sampling. These are accessible by either pickup truck and/or ATV.

Typical outcrop exposure and road conditions within the property are shown below:



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Assay results from 40 outcrop samples throughout EnviroMine's Shawmere Project property indicated favorable results in geochemical consistency for alumina, silica and calcium with minimal impurities of sodium and iron. The table 1.1 below presents GPS coordinates for each sample obtained and their corresponding geochemical composition.

## **2. Grass Roots Prospecting Reconnaissance**

Conducted by: Michael Tremblay, Andrew Glatzmayer, Jonathan Armes

July 31<sup>st</sup> – August 4<sup>th</sup>

- Reconnaissance of prospected areas in conjunction with June prospecting program and outcrop geochemical assay results.
- Narrow down target areas for access logistics and favourable landscape potential with strong geochemical properties.



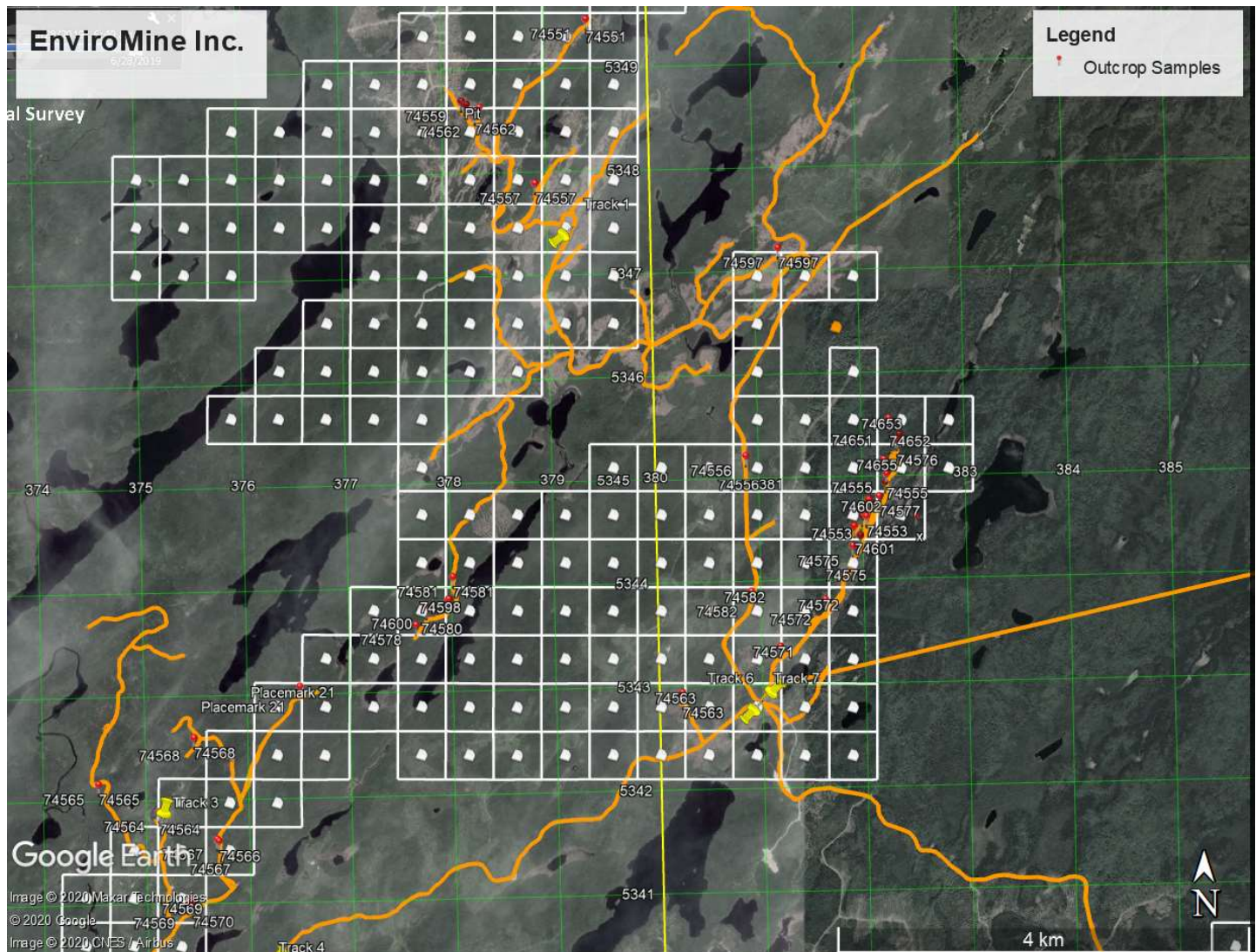
Geochemical Assays Conducted by: ALS Canada Ltd.

Table 1.1

ALS Geochem Results: ME-ICP06																		
Sample	Name	ns1:longitude	ns1:latitude	Total	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
Outcrop	74551	-82.6255749	48.2860249	100.11	48.4	32	1.06	15.5	0.45	2.15	0.07	<0.002	0.03	0.01	0.02	0.02	<0.01	0.4
Outcrop	74552	-82.5896706	48.2410204	99.79	48.8	31.2	1.28	15.15	0.39	2.4	0.07	<0.002	0.06	0.02	<0.01	0.02	<0.01	0.4
Outcrop	74553	-82.5888920	48.2427519	100.09	48.3	31.4	1.31	15.2	0.45	2.23	0.11	<0.002	0.07	0.02	0.02	0.02	<0.01	0.96
Outcrop	74554	-82.5864399	48.2457242	101.04	49.5	31.6	1.15	15.15	0.32	2.24	0.06	<0.002	0.05	0.01	0.03	0.02	<0.01	0.91
Outcrop	74555	-82.5862712	48.2465283	99.58	47.4	32.6	0.66	16.15	0.13	1.81	0.05	0.002	0.01	0.01	0.02	0.02	<0.01	0.72
Outcrop	74556	-82.6046253	48.2480533	100.78	48.7	30.8	1.75	14.8	0.77	2.36	0.07	0.004	0.05	0.03	0.01	0.02	<0.01	1.42
Outcrop	74557	-82.6321518	48.2717114	101.89	49.3	31.5	1.05	15.05	0.34	2.65	0.22	<0.002	0.04	0.02	0.03	0.03	<0.01	1.66
Outcrop	74558	-82.6417653	48.2788292	100.95	49.1	31.1	1.38	15.1	0.25	2.66	0.1	<0.002	0.05	0.02	0.03	0.02	<0.01	1.14
Outcrop	74559	-82.6419070	48.2788461	99.27	49.1	30.7	1.31	14.85	0.3	2.38	0.1	<0.002	0.07	0.02	0.01	0.02	<0.01	0.41
Outcrop	74560	-82.6414033	48.2785424	98.09	47.5	30.7	1.21	14.95	0.35	2.29	0.05	0.002	0.06	0.01	0.01	0.02	<0.01	0.94
Outcrop	74561	-82.6411068	48.2785372	100.49	48.2	31.7	1.16	15.5	0.34	2.54	0.09	<0.002	0.06	0.01	0.01	0.02	<0.01	0.86
Outcrop	74562	-82.6400384	48.2777124	100.28	48.7	30.7	1.79	14.9	0.97	2.14	0.07	0.004	0.08	0.02	0.02	0.02	<0.01	0.87
Outcrop	74563	-82.6128601	48.2274456	100.44	48.3	30.6	2.01	14.9	0.73	2.03	0.12	<0.002	0.17	0.03	0.03	0.02	0.01	1.49
Outcrop	74564	-82.6811513	48.2170378	100.2	48.7	30.9	1.68	15.4	0.66	2.07	0.09	0.004	0.06	0.02	<0.01	0.02	<0.01	0.6
Outcrop	74565	-82.6891344	48.2193367	99.79	49	31.3	1.08	15.15	0.26	2.2	0.05	<0.002	0.06	0.01	<0.01	0.02	<0.01	0.66
Outcrop	74566	-82.6732743	48.2145102	100.98	49.6	31.8	1.1	15.3	0.33	2.33	0.07	<0.002	0.04	0.01	0.01	0.02	<0.01	0.37
Outcrop	74567	-82.6735050	48.2146578	99.81	48.4	31.6	1.21	15.25	0.31	2.34	0.11	<0.002	0.06	0.01	0.01	0.02	<0.01	0.49
Outcrop	74568	-82.6766161	48.2234456	99.29	48.5	31.1	1.3	14.6	0.22	2.3	0.06	<0.002	0.04	0.02	0.01	0.02	<0.01	1.12
Outcrop	74569	-82.6771990	48.2091524	99.68	48	30.7	1.42	15.2	0.58	2.29	0.09	0.002	0.06	0.02	0.01	0.02	<0.01	1.29
Outcrop	74570	-82.6767322	48.2092852	100.64	48.4	31.4	1.73	15.4	0.54	2.36	0.09	0.004	0.08	0.02	0.01	0.03	0.01	0.57
Outcrop	74571	-82.6000744	48.2314592	99.34	47.7	30.5	2.19	14.9	1.07	2.21	0.08	<0.002	0.16	0.03	0.02	0.02	<0.01	0.46
Outcrop	74572	-82.5942190	48.2355372	99.68	48.1	30.9	1.75	15.25	0.91	2.15	0.08	0.003	0.1	0.02	<0.01	0.02	<0.01	0.4
Outcrop	74573	-82.5896333	48.2411075	99.27	49.3	30.4	1.29	14.6	0.56	2.26	0.07	0.003	0.06	0.01	0.01	0.02	<0.01	0.69
Outcrop	74574	-82.5894445	48.2427846	100.19	49.2	31.7	0.98	15.05	0.32	2.49	0.06	<0.002	0.03	0.02	0.01	0.03	<0.01	0.3
Outcrop	74575	-82.5906297	48.2401777	100.21	49.3	27.1	2.94	13.05	3.18	2.45	0.04	0.006	0.16	0.04	0.03	0.02	<0.01	1.89
Outcrop	74576	-82.5849586	48.2494567	99.5	47	33	0.58	16.4	0.13	1.56	0.02	0.002	0.01	0.01	0.01	0.02	<0.01	0.76
Outcrop	74577	-82.5872300	48.2445000	99.52	48.3	28.9	2.44	14.7	2.08	2.18	0.08	0.015	0.12	0.03	0.02	0.02	<0.01	0.63
Outcrop	74578	-82.6476303	48.2333031	101.12	48.6	30.9	0.97	13.55	0.24	2.54	0.16	<0.002	0.03	0.01	0.02	0.02	0.01	4.07
Outcrop	74578	-82.6476303	48.2333031	101.12	48.6	30.9	0.97	13.55	0.24	2.54	0.16	<0.002	0.03	0.01	0.02	0.02	0.01	4.07
Outcrop	74579	-82.6433574	48.2354935	98.32	47.2	29.9	1.32	14.65	0.54	2.29	0.09	0.003	0.06	0.02	0.01	0.02	<0.01	2.22
Outcrop	74580	-82.6433584	48.2355244	98.16	48.2	30	1.26	14.3	0.44	2.36	0.09	0.002	0.07	0.02	0.01	0.02	<0.01	1.39
Outcrop	74581	-82.6428183	48.2374496	99.46	48.5	30.1	1.67	14.7	1.37	2.37	0.15	0.007	0.07	0.02	0.01	0.03	0.01	0.45
Outcrop	74582	-82.6038453	48.2362113	99.05	48.7	31.6	0.66	14.75	0.23	2.41	0.08	<0.002	0.02	0.01	0.02	0.03	0.01	0.53
Outcrop	74601	-82.6059630	48.2431811	100.07	48.2	31.9	1.29	15.25	0.41	2.21	0.09	0.002	0.06	0.02	<0.01	0.02	<0.01	0.62
Outcrop	74602	-82.5810381	48.2402739	100.1	48	29.1	2.58	14.25	2.05	2.34	0.12	0.011	0.08	0.04	<0.01	0.02	<0.01	1.51
Outcrop	74651	-82.5807723	48.2465240	100.63	47.8	32.1	0.88	16.1	0.5	2.26	0.02	0.004	0.06	0.01	0.02	0.02	<0.01	0.86
Outcrop	74652	-82.5859391	48.2511063	99.9	47.2	31.4	1.28	14.95	0.61	2.36	0.3	0.002	0.05	0.02	0.02	0.02	0.01	1.68
Outcrop	74653	-82.5859391	48.2511063	99.74	47.5	30.6	1.97	15.55	1.12	2.13	0.05	0.006	0.07	0.02	0.01	0.02	<0.01	0.69
Outcrop	74654	-82.5857904	48.2494155	100.43	47.2	32.9	0.99	15.9	0.29	2.19	0.03	<0.002	0.03	0.02	<0.01	0.02	<0.01	0.86
Outcrop	74655	-82.5857904	48.2494155	100.24	46.6	32.8	0.93	15.85	0.68	1.91	0.05	0.009	0.03	0.01	0.01	0.02	<0.01	1.34
Drill Holes	P-19-01	-82.5833075	48.2455092															
Drill Holes	P-19-02	-82.5833075	48.2455092															
Drill Holes	P-19-03	-82.5833075	48.2455092															
Drill Holes	P-19-04	-82.5864518	48.2453175															
Drill Holes	P-19-05	-82.5838620	48.2450670															
Drill Holes	P-19-06	-82.5852673	48.2435885															

See Drill Results Table

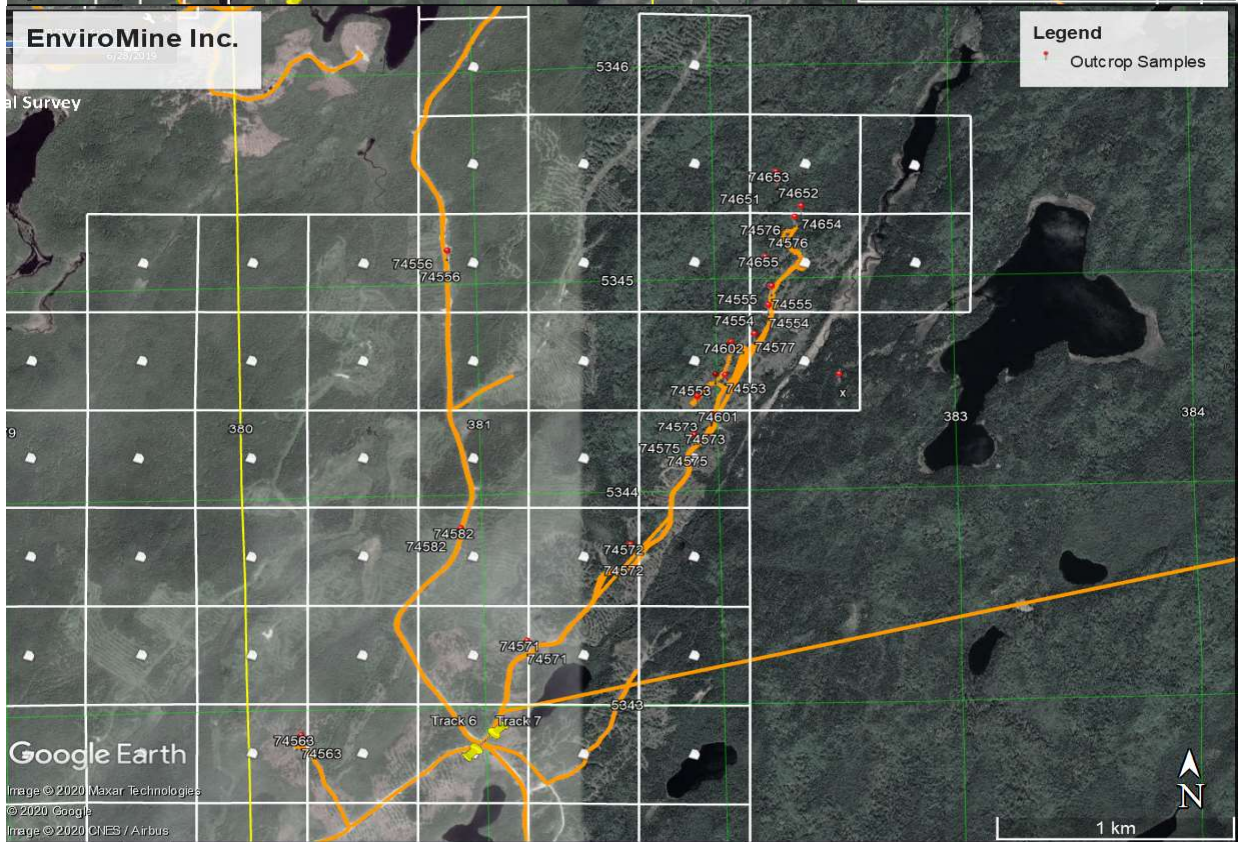
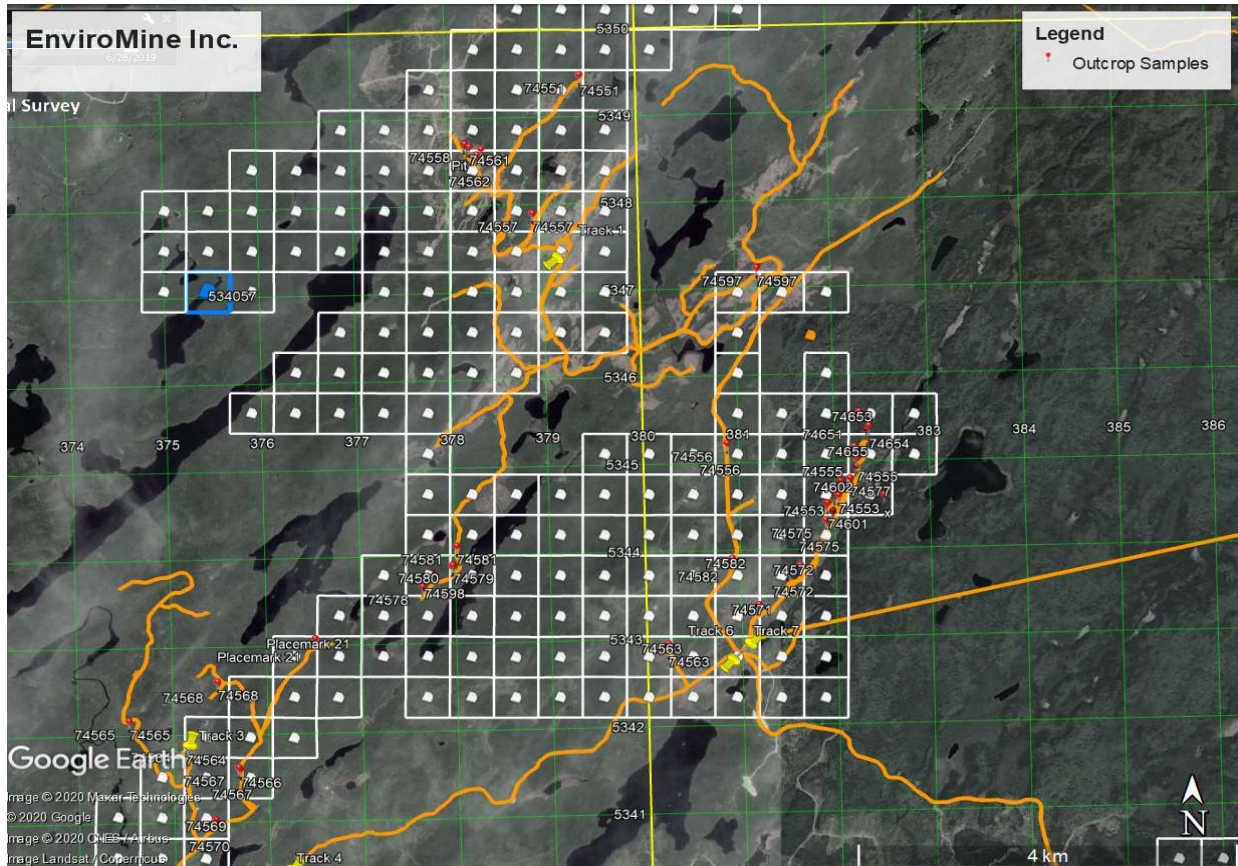
## Map of Outcrop Sampling Targets



Following the prospecting programs, EnviroMine’s area of focus was narrowed to include single claim cells, 546314, 546304, 546320, 546309, 546312, 546295 and 546303. Prospecting within these claims identified favourable proximity and access from Foleyet. Topographic features within these claims also provide access to an approximately 30 m high ridge that continues greater than 1 km in length parallel to, and beside existing logging roads. Significant outcrop exposure exists along the ridge face and top with little overburden. The maps below display the south-east area of focus location within EnviroMine’s Shawmere Project claims.



# EnviroMine



### 3. Grass Roots Prospecting Reconnaissance

Conducted by: Michael Tremblay, Andrew Glatzmayer, Jonathan Armes

October 14<sup>th</sup> – 17<sup>th</sup>

- Targeted potential drilling areas to determine geochemical consistency at depth.
- Additional samples collected from previous outcrop locations for metallurgical testing and XRF analysis.

### 4. Drilling

Conducted by: Vanguard Mining (Mike Kernick)

On-site: Michael Tremblay, Andrew Glatzmayer, Jonathan Armes

October 14<sup>th</sup> – 17<sup>th</sup>

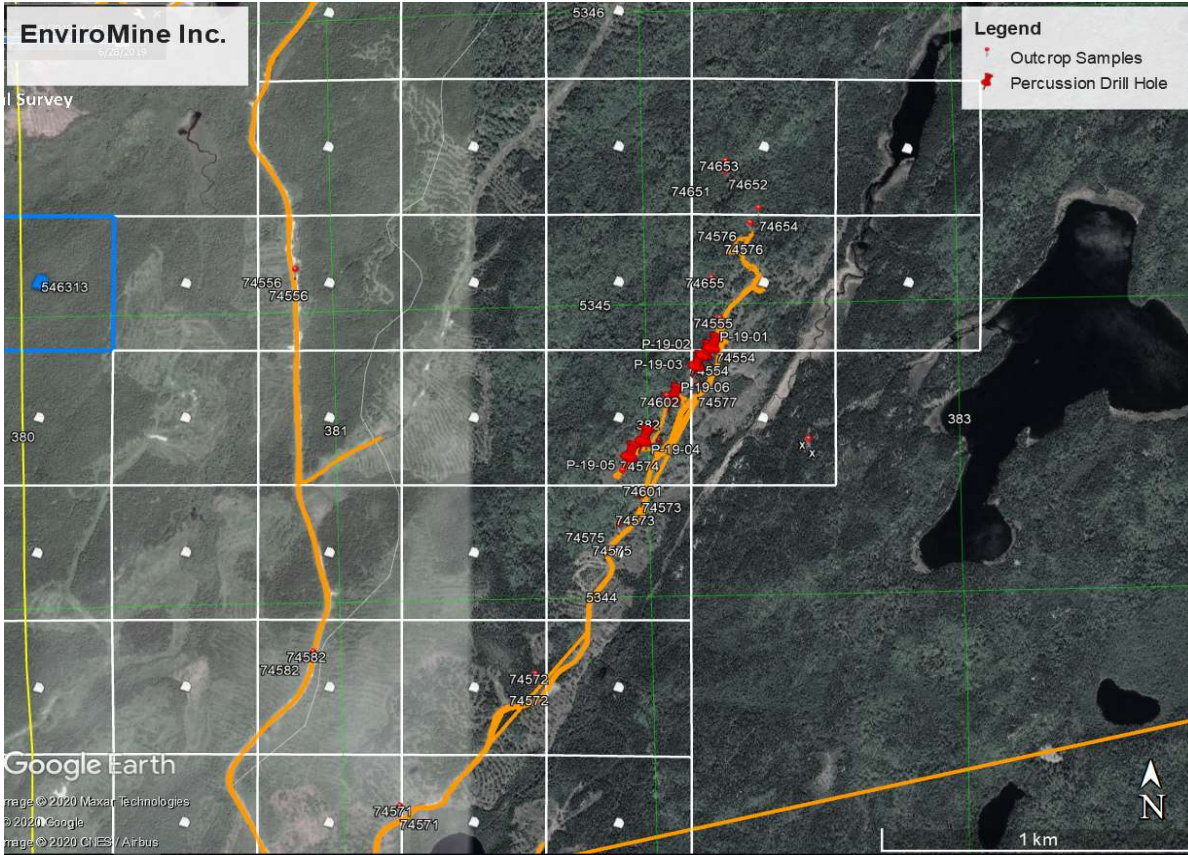
EnviroMine contracted Vanguard Mining in Cochrane Ontario to drill 6 percussion drill holes to determine geochemical consistency of the anorthosite at depth. All drill holes were located in claim cell 546312 and 546295. Each hole was drilled to a vertical depth of approximately 30 metres. Hole # P-19-02 ended at 17 metres due to sample loss from water. The maps below display the location of drill collar locations.

Assay results from drilling indicated favorable results in geochemical consistency for alumina, silica and calcium. Holes #P-19-01 and #P-19-02 produced the best results with minimal impurities of sodium and iron while the remaining holes presented favourable results for alumina, silica and calcium, there is evidence of elevated levels of iron and magnesium. The tables below presents GPS coordinates for each drill collar and their corresponding geochemical composition taken at 1.2 metre intervals.

Table 1.2

Drill Hole	P-19-01	-82.5867908	48.2455432
Drill Hole	P-19-02	-82.5871205	48.2453138
Drill Hole	P-19-03	-82.5874608	48.2449942
Drill Hole	P-19-04	-82.5897598	48.2426771
Drill Hole	P-19-05	-82.5903646	48.2422009
Drill Hole	P-19-06	-82.5884801	48.2439814

# EnviroMine



**Geochemical Assays Conducted by: ALS Canada Ltd.**

**Table 1.3**

<b>Drill Hole</b>	<b>Sample #</b>	<b>Depth (m)</b>		<b>Wt. kg</b>	<b>Total %</b>	<b>SiO2 %</b>	<b>Al2O3 %</b>	<b>Fe2O3 %</b>	<b>CaO %</b>	<b>MgO %</b>	<b>Na2O %</b>	<b>K2O %</b>	<b>LOI %</b>
		<b>From</b>	<b>To</b>										
P-19-01	40151	0	1.2	3.24	99.41	47.5	29.8	2	15.45	1.19	2.1	0.06	1.21
P-19-01	40152	1.2	2.4	2.87	99.21	47.5	30.8	1.26	15.45	0.47	2.17	0.06	1.42
P-19-01	40153	2.4	3.6	2.73	98.26	46.3	30.1	1.12	15	0.42	2.12	0.06	3.06
P-19-01	40154	3.6	4.8	3.22	98.65	46.9	30.5	1.15	15.35	0.37	2.04	0.06	2.19
P-19-01	40155	4.8	6	2.85	98.29	47.1	30.4	1.13	15.3	0.39	2.09	0.07	1.73
P-19-01	40156	6	7.2	2.41	99.25	47.8	30.6	1.16	14.85	0.48	2.25	0.11	1.91
P-19-01	40157	7.2	8.4	3.49	99.18	47.4	30.4	1.09	14.9	0.43	2.34	0.08	2.45
P-19-01	40158	8.4	9.6	2.08	99.64	47.9	31	0.95	15.25	0.27	2.27	0.08	1.85
P-19-01	40159	9.6	10.8	3.51	99.46	47.6	30.7	1.12	15.45	0.36	2.28	0.06	1.82
P-19-01	40160	10.8	12	2.87	99.24	46.7	30.7	1.01	15.25	0.28	2.14	0.06	3.01
P-19-01	40161	12	13.2	3.42	100.56	48	31.1	1.41	15.7	0.46	2.21	0.08	1.49
P-19-01	40162	13.2	14.4	3.66	100.45	49.6	29.8	1.23	14.85	0.44	2.21	0.07	2.16
P-19-01	40163	14.4	15.6	3.99	100.75	47.7	31.1	1.14	15.6	0.33	2.22	0.06	2.51
P-19-01	40164	15.6	16.8	3.19	99.69	47.4	30.7	1.11	15.2	0.36	2.22	0.07	2.54
P-19-01	40165	16.8	18	3.98	100.46	47.7	31.3	1.15	15.5	0.42	2.23	0.07	2
P-19-01	40166	18	19.2	4.73	99.26	46.9	30.7	1.15	15.25	0.39	2.23	0.07	2.49
P-19-01	40167	19.2	20.4	5.02	100.22	47.6	31	1.23	15.15	0.51	2.37	0.1	2.17
P-19-01	40168	20.4	21.6	2.94	100.08	47.1	30.9	1.18	15.3	0.55	2.25	0.13	2.54
P-19-01	40169	21.6	22.8	2.89	101.44	48.5	30.2	0.98	14.45	0.52	2.75	0.14	3.8
P-19-01	40170	22.8	24	3.71	99.69	46.7	29.8	1.34	14.85	0.66	2.27	0.1	3.84
P-19-01	40171	24	25.2	4.41	101.13	47.7	27.6	2.98	14.7	3.8	2.15	0.16	1.77
P-19-01	40172	25.2	26.4	4.65	100.31	44.6	20.3	8.44	11.2	11.05	1.92	0.21	2.32
P-19-01	40173	26.4	27.6	4.38	100.26	45.7	22.1	6.75	13.1	8.35	2.04	0.28	1.56
P-19-01	40174	27.6	28.8	3.7	100.43	44.5	19.85	7.71	13.7	10.4	1.77	0.31	1.76
P-19-01	40175	28.8	30	4.37	98.31	43.4	19.75	7.02	13.05	9.41	1.84	0.39	3.03
<b>Drill Hole</b>	<b>Sample #</b>	<b>Depth (m)</b>		<b>Wt. kg</b>	<b>Total %</b>	<b>SiO2 %</b>	<b>Al2O3 %</b>	<b>Fe2O3 %</b>	<b>CaO %</b>	<b>MgO %</b>	<b>Na2O %</b>	<b>K2O %</b>	<b>LOI %</b>
		<b>From</b>	<b>To</b>										
P-19-02	40176	0	1.2	4.13	100.5	47.7	31.1	0.98	15.25	0.25	2.19	0.07	2.88
P-19-02	40177	1.2	2.4	4.93	99.75	47.1	30.8	1.03	14.85	0.33	2.24	0.08	3.23
P-19-02	40178	2.4	3.6	4	101.33	48.1	31.4	1.05	15.25	0.32	2.32	0.07	2.73
P-19-02	40179	3.6	4.8	5.23	101.52	48.5	31.6	1.08	15.55	0.33	2.3	0.04	2.05
P-19-02	40180	4.8	6	5.51	101.96	48.5	31.7	1	15.45	0.26	2.35	0.06	2.56
P-19-02	40181	6	7.2	4.21	101.73	48.6	31.7	1.13	15.6	0.37	2.36	0.05	1.82
P-19-02	40182	7.2	8.4	4.95	100.62	47.5	31.6	1.24	15.15	0.35	2.36	0.1	2.25
P-19-02	40183	8.4	9.6	5.33	100.95	48.6	30.8	1.14	15.2	0.46	2.47	0.07	2.11

# EnviroMine

P-19-02	40184	9.6	10.8	4.2	100.5	48.5	31.4	1.07	15.35	0.39	2.36	0.05	1.28
P-19-02	40185	10.8	12	4.87	99.76	47.5	31.3	1.23	15.55	0.3	2.22	0.05	1.52
P-19-02	40186	12	13.2	3.09	99.66	46.8	30.5	1.2	15.25	0.45	2.12	0.07	3.16
P-19-02	40187	13.2	14.4	3.16	98.03	46.3	29.4	1.66	14.7	1.17	2.23	0.09	2.34
P-19-02	40188	14.4	15.6	3.88	98.7	45.9	26.2	3.86	14.2	4.18	2.06	0.19	1.77
P-19-02	40189	15.6	16.8	0.73	98.99	46.4	25.9	4.01	13.75	4.29	2.27	0.19	1.84
Drill Hole	Sample #	Depth (m)		Wt. kg	Total %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	LOI %
P-19-03	40190	0	1.2	2.36	100.35	47.2	29.2	2.6	15	1.94	2.22	0.23	1.75
P-19-03	40191	1.2	2.4	2.12	100.04	46.8	30.3	1.93	15.3	1.43	2.18	0.1	1.84
P-19-03	40192	2.4	3.6	3.39	99.9	45.4	30	2.83	15.6	1.7	2.12	0.13	1.89
P-19-03	40193	3.6	4.8	4.26	100.63	46.5	27.7	2.62	14.45	2.29	2.72	0.12	4.02
P-19-03	40194	4.8	6	3.74	100.9	45	31	2.37	16.55	1.39	1.87	0.08	2.46
P-19-03	40195	6	7.2	4.07	100.5	46.3	29.3	3.12	14.9	2.1	2.45	0.12	1.94
P-19-03	40196	7.2	8.4	3.93	100.5	46.3	31.1	2.01	15.8	1.31	2.16	0.07	1.58
P-19-03	40197	8.4	9.6	4.28	100.02	46.1	29.3	2.27	15.45	1.8	2.38	0.1	2.46
P-19-03	40198	9.6	10.8	4.21	100.35	45	30.4	1.95	15.6	1.07	2.11	0.08	4
P-19-03	40199	10.8	12	3.67	100.44	44.4	26.9	2.9	14.8	2.36	2.72	0.09	6.08
P-19-03	40200	12	13.2	4.02	100.74	46.7	28.7	2.64	14.8	2.23	2.68	0.08	2.75
P-19-03	40201	13.2	14.4	4.05	100.99	47.1	28.3	2.47	14.85	2.03	2.73	0.08	3.28
P-19-03	40202	14.4	15.6	3.11	100.72	45.7	29.4	2.56	15.75	2.04	2.25	0.08	2.77
P-19-03	40203	15.6	16.8	3.61	100.47	43.5	29.1	3.35	16.75	2.33	1.82	0.07	3.31
P-19-03	40204	16.8	18	2.87	101.27	46.5	29.6	2.66	15.95	2.04	2.28	0.08	1.97
P-19-03	40205	18	19.2	3.98	101.15	47.5	29.8	2.04	15.65	1.26	2.61	0.07	2.07
P-19-03	40206	19.2	20.4	4.23	101.1	47.3	29.2	2.17	15.7	1.63	2.58	0.05	2.31
P-19-03	40207	20.4	21.6	2.32	101.03	46.9	29.1	2.35	15.85	1.74	2.48	0.08	2.35
P-19-03	40208	21.6	22.8	3.63	100.76	45	29.7	3.25	16.35	2.05	2.15	0.1	1.9
P-19-03	40209	22.8	24	3.05	100.72	46.2	30.1	2.39	15.9	1.43	2.45	0.08	1.97
P-19-03	40210	24	25.2	3.47	101.56	46.9	29.9	2.85	15.8	2.23	2.49	0.09	1.07
P-19-03	40211	25.2	26.4	2.53	101.49	46.1	30	2.55	16.25	1.84	2.28	0.08	2.17
P-19-03	40212	26.4	27.6	3.94	101.18	45.9	29.8	3.12	16.15	2.31	2.3	0.1	1.27
P-19-03	40213	27.6	28.8	3.97	101.36	45.1	30.1	2.97	17.65	2.1	1.97	0.07	1.15
P-19-03	40214	28.8	30	4.51	101.89	47.1	30.5	2.51	16.45	1.68	2.43	0.09	0.91
Drill Hole	Sample #	Depth (m)		Wt. kg	Total %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	LOI %
P-19-04	40215	0	1.2	2.43	99.18	48.1	23.2	6.57	13.25	4.08	1.89	0.08	1.32
P-19-04	40216	1.2	2.4	4.07	98.65	48	26.5	3.14	14.8	2.64	2.02	0.05	1.23
P-19-04	40217	2.4	3.6	2.99	101.28	48.7	29.6	2.23	15.3	1.53	2.27	0.05	1.4
P-19-04	40218	3.6	4.8	3.55	101.1	49.4	29.3	2.16	14.8	1.61	2.33	0.04	1.27
P-19-04	40219	4.8	6	4.07	100.72	48.4	30.7	1.76	15.15	0.59	2.06	0.07	1.81
P-19-04	40220	6	7.2	3.6	100.57	48.4	30	1.9	15.25	1.19	2.14	0.04	1.47
P-19-04	40221	7.2	8.4	3.84	101.36	49.3	28.9	2.16	15.2	1.78	2.08	0.05	1.73
P-19-04	40222	8.4	9.6	4.47	101.74	48.7	29.8	1.85	15.25	1.31	2.15	0.07	2.46

# EnviroMine

P-19-04	40223	9.6	10.8	3.93	100.13	48.4	28.9	2.11	14.95	1.64	2.14	0.03	1.81
P-19-04	40224	10.8	12	4.11	101.38	47.6	29.8	1.81	15.05	1.04	2.14	0.05	3.74
P-19-04	40225	12	13.2	4.74	100.09	47.9	29.9	1.93	15.2	1.07	2.2	0.04	1.7
P-19-04	40226	13.2	14.4	4.93	99.05	47.8	30.4	1.43	14.9	0.59	2.16	0.05	1.59
P-19-04	40227	14.4	15.6	4.97	100.48	48.3	30	1.78	15.2	1.04	2.16	0.05	1.77
P-19-04	40228	15.6	16.8	4.35	100.72	48.1	29.7	1.93	15.2	1.2	2.05	0.04	2.33
P-19-04	40229	16.8	18	5.06	99.46	46.5	29	2	14.7	1.39	1.97	0.08	3.66
P-19-04	40230	18	19.2	4.29	100.03	47.3	28.2	2.49	15.2	2.15	2.03	0.09	2.36
P-19-04	40231	19.2	20.4	4.39	101.01	47.3	28.5	2.43	14.65	1.8	2.15	0.16	3.81
P-19-04	40232	20.4	21.6	3.86	100.73	47.3	28.8	1.99	14.25	1.51	2.07	0.14	4.49
P-19-04	40233	21.6	22.8	3.8	101.33	49.1	28.5	2.17	14.15	1.57	2.41	0.19	3.06
P-19-04	40234	22.8	24	3.72	100.55	48.7	29.8	1.7	14.75	1.15	2.6	0.16	1.54
P-19-04	40235	24	25.2	5	100.32	47.3	29.4	2.26	15.45	1.7	2.22	0.14	1.68
P-19-04	40236	25.2	26.4	3.28	100.86	47.5	29.8	1.76	15.5	1.32	2.34	0.08	2.42
P-19-04	40237	26.4	27.6	8.24	101.3	48	28.9	2.37	15.4	1.83	2.19	0.14	2.26
P-19-04	40238	27.6	28.8	5.03	100.58	48.2	28.7	2.25	15.4	1.75	2.15	0.07	1.87
P-19-04	40239	28.8	30	3.88	100.27	46.9	30.2	1.81	15.55	0.95	2.21	0.06	2.47
P-19-04	40240	30	31.2	7.47	100.53	47.6	29.3	2.39	15.2	1.75	2.26	0.07	1.8
Drill Hole	Sample #	Depth (m)		Wt. kg	Total %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	LOI %
P-19-05	40241	0	1.2	2.56	98.52	47.8	26.3	2.82	15.05	2.76	2.02	0.11	1.43
P-19-05	40242	1.2	2.4	3.26	100.86	48.1	28.1	2.64	14.8	2.35	2.07	0.11	2.46
P-19-05	40243	2.4	3.6	3.6	99.45	47.8	27.8	2.43	15.45	2.1	2.04	0.08	1.54
P-19-05	40244	3.6	4.8	3.29	98.07	46.3	27.7	2.21	14.95	1.66	1.97	0.07	3.03
P-19-05	40245	4.8	6	3.26	100.57	47.5	29.3	2.31	15.55	1.94	2.12	0.1	1.59
P-19-05	40246	6	7.2	3.16	98.22	46.2	28.2	2.12	15	1.45	2.1	0.06	2.91
P-19-05	40247	7.2	8.4	3.03	98.55	47.8	29.2	1.7	14.3	0.96	2.72	0.07	1.65
P-19-05	40248	8.4	9.6	3.42	100.82	46.6	28.5	2.87	14.15	1.95	2.48	0.15	3.89
P-19-05	40249	9.6	10.8	2.97	100.48	46.9	29.2	2.58	15.25	1.88	2.5	0.11	1.87
P-19-05	40250	10.8	12	3.18	99.21	45.6	27.7	2.77	14.75	2.25	2.25	0.13	3.57
P-19-05	40251	12	13.2	3.01	99.77	46.4	30.2	1.83	14	1.3	2.41	0.14	3.35
P-19-05	40252	13.2	14.4	3.79	100.1	46.4	29.8	2.17	15.4	1.54	2.33	0.15	2.14
P-19-05	40253	14.4	15.6	3.32	101.21	48	30.1	1.98	15.35	1.48	2.35	0.07	1.74
P-19-05	40254	15.6	16.8	3	98.7	46.2	30.2	1.85	15.4	1.32	2.36	0.14	1.11
P-19-05	40255	16.8	18	3.61	101.33	48	31.3	1.6	15.4	0.67	2.42	0.04	1.77
P-19-05	40256	18	19.2	3.13	98.45	45.4	30.9	1.8	15.35	0.66	2.29	0.09	1.78
P-19-05	40257	19.2	20.4	3.43	99.63	46.6	31.7	1.64	15.8	0.57	2.32	0.07	0.81
P-19-05	40258	20.4	21.6	2.9	101.11	47.9	32.2	1.37	15.85	0.37	2.24	0.04	0.99
P-19-05	40259	21.6	22.8	3.45	101.5	48	31.8	1.37	15.6	0.4	2.24	0.06	1.91
P-19-05	40260	22.8	24	4.7	101.26	47.4	31.4	1.4	15.6	0.46	2.23	0.06	2.61
Drill Hole	Sample #	Depth (m)		Wt. kg	Total %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	LOI %
P-19-06	40261	0	1.2	3.29	100.22	49.2	27.7	2.5	13.8	1.91	2.12	0.17	2.64

P-19-06	40262	1.2	2.4	3.39	100.52	47.9	28.5	2.41	14.35	2.03	2.16	0.09	2.94
P-19-06	40263	2.4	3.6	3.75	100.69	48.7	29.3	2.36	14.9	1.76	2.14	0.08	1.3
P-19-06	40264	3.6	4.8	3.66	100.62	47.6	29.5	2.03	14.7	1.35	2.12	0.06	3.12
P-19-06	40265	4.8	6	3.77	99.86	47.4	28	2.51	14.75	2.22	2.01	0.06	2.73
P-19-06	40266	6	7.2	4.06	101.65	48	27.6	2.7	15.2	2.62	1.93	0.05	3.36
P-19-06	40267	7.2	8.4	3.86	98.25	46.1	28.3	2.59	14.7	2.04	2.18	0.09	2.09
P-19-06	40268	8.4	9.6	4.39	98.3	45.7	29.1	2.35	15.05	1.57	2.23	0.1	2.03
P-19-06	40269	9.6	10.8	3.84	101.41	48.9	27.9	3.95	14.15	2.57	2.24	0.07	1.35
P-19-06	40270	10.8	12	3.81	100.41	48.1	28.4	3.37	14.25	2.36	2.2	0.05	1.46
P-19-06	40271	12	13.2	4	101.77	48.2	28.4	2.98	14.85	2.33	2.21	0.06	2.51
P-19-06	40272	13.2	14.4	2.65	101.54	48.3	29.2	2.39	15.35	1.97	2.09	0.04	2.01
P-19-06	40273	14.4	15.6	3.83	99.76	47.4	27.6	2.31	15.35	1.92	1.95	0.05	3.01
P-19-06	40274	15.6	16.8	4.18	101.23	49.4	27.9	2.51	15.15	2.1	2.26	0.09	1.61
P-19-06	40275	16.8	18	4.03	101.46	49	27.6	2.48	15.45	2.32	2.04	0.07	2.32
P-19-06	40276	18	19.2	3.89	100.49	48.4	28	2.29	15.4	2.07	2.03	0.04	2.1
P-19-06	40277	19.2	20.4	3.87	100.64	48.8	28.4	2.43	15.2	2.12	2.15	0.06	1.32
P-19-06	40278	20.4	21.6	3.37	100.14	47.2	28.1	2.08	15.35	1.48	1.97	0.06	3.75
P-19-06	40279	21.6	22.8	4.55	100.32	48.3	27.5	2.46	15.6	2.04	1.97	0.04	2.23
P-19-06	40280	22.8	24	4.58	101.72	49.2	30.3	1.64	15.65	0.87	2.13	0.04	1.75
P-19-06	40281	24	25.2	3.99	99.89	48	27.1	2.64	15.15	2.17	2	0.04	2.61
P-19-06	40282	25.2	26.4	4.29	99.43	47.9	29.5	1.99	15.4	1.02	2.04	0.04	1.37
P-19-06	40283	26.4	27.6	4.32	99.79	47.9	27.5	2.47	15.3	1.81	1.96	0.06	2.59
P-19-06	40284	27.6	28.8	4.78	98.98	47.7	27.8	2.39	15.4	1.8	1.97	0.04	1.7
P-19-06	40285	28.8	30	4.24	99.68	48.5	27.9	2.29	14.9	1.79	2.04	0.04	2.07

## 5. Grass Roots Prospecting

Conducted by: Michael Tremblay

December 26<sup>th</sup> – December 29<sup>th</sup>

- Conducted additional outcrop sampling in mining cells; 546320 & 546304. These locations are north of drill holes P-19-01 & P-19-02 which produced strong geochemical results with very low impurities. Drill holes #3 to #6 were south of holes P-19-01 & P-19-02. It was anticipated that the anorthosite's purity strengthened to the north of previous work conducted to date.
- Samples 74651, 74652, 74653, 74654 and 74655 were collected and assayed for whole rock geochemical analysis. These samples returned favourable geochemical analysis.

## Summary and Recommendations

A drilling program to determine an extension of stronger geochemical results to the north of previous drill holes P-19-01 and P-19-02 is recommended.

Recommended drill program:

A drill program could be developed on a grid of 250m wide x 1,000m long following the ridge north of where previously explored. Assuming 30m drill depth and density of 2.76t/cu.m and using drill spacing of 125 m x 100 m sections, 30 holes would be required to define a 20 million tonne inferred resource. This would consist of 900m of NQ diamond core drilling. A 10 million inferred resource could also be established by only drilling along 500m of the ridge using the same space for total drilling of 450m of NQ diamond core.

Drilling costs for NQ size may be expected to be about \$150 - \$200/m, plus assaying costs. Allowing for site supervision, corporate overheads, resource estimation reporting, etc., a budget of \$300K - \$400K would be sufficient to get to the initial NI 43-101 report.

Infill drilling to close the grid to 62.5 m x 50 m would be required to upgrade the resource estimate to the Indicated or Measured level.

SGS Lakefield is also recommended for bulk material testing. Recommended initial test program:

Thin section petrographic analysis

1. XRD analysis for mineralogy
2. XRF analysis for geochemistry
3. Stage crush/grind sample to ~20 mesh with screening at -270 mesh to remove fines, followed by dry magnetic separation on rare earth roll to remove magnetics. Assay of non-mag fraction.

Target processed material results:

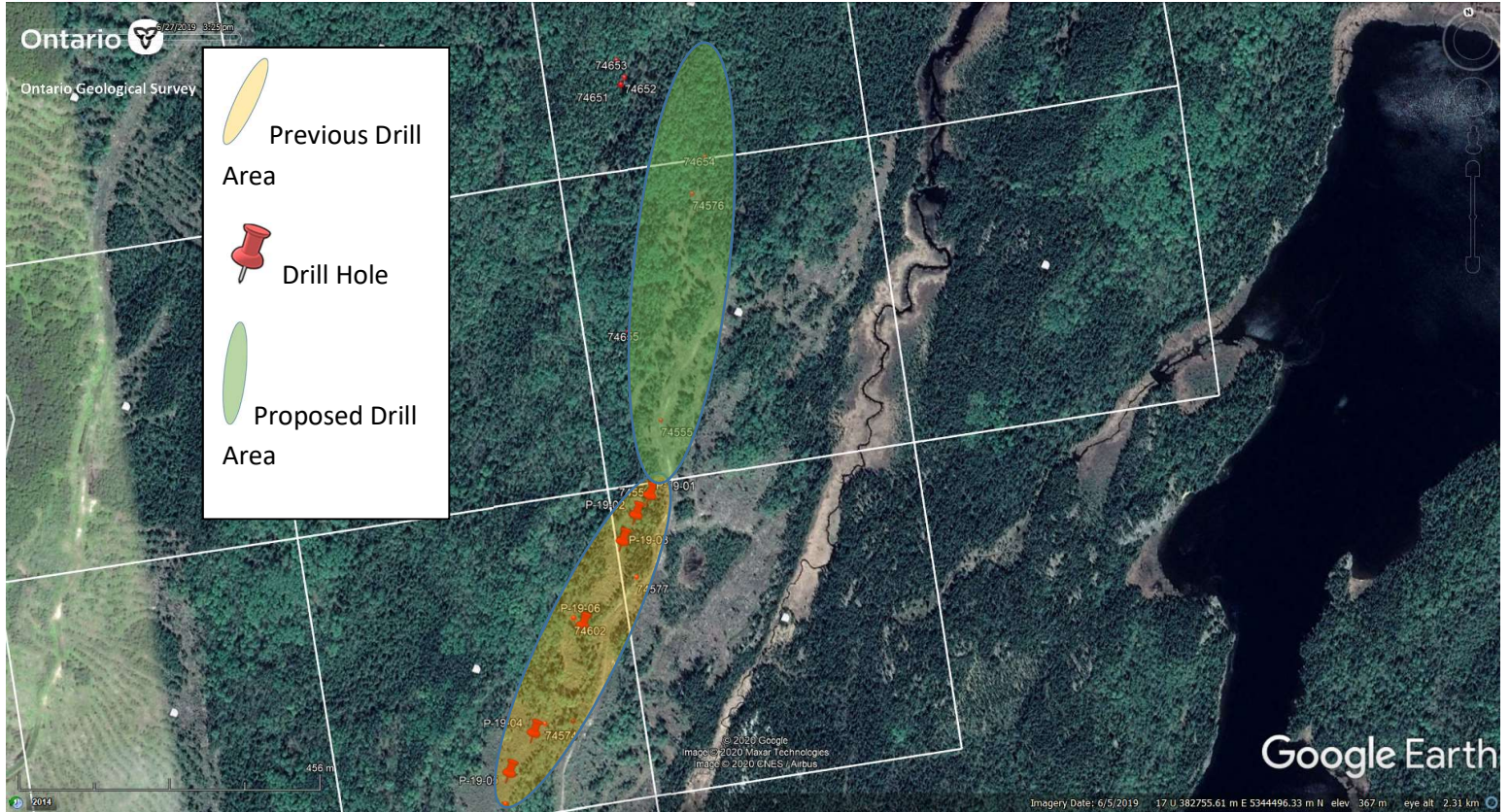
- Fe<sub>2</sub>O<sub>3</sub> level should be <0.35%, with maximum level of 0.5% Fe<sub>2</sub>O<sub>3</sub>.
- Target Na<sub>2</sub>O level should be <2.0%.



# EnviroMine



# EnviroMine



# EnviroMine

logging road at top of ridge to access percussion drill targets



logging road leading to top of ridge



drill hole P-19-02



view from top of ridge



# EnviroMine

percussion drill during drilling



percussion drill setup



drilling into anorthosite



percussion drill set-up



# EnviroMine

sample collection: 1.2 metre intervals from drilling (P-19-02)



drill samples for lab analysis (ALS Canada – Timmins, ON. & Vancouver B.C.)



CMAC-Thyssen mobile electrohydraulic percussion drill rig



EnviroMine Inc.

6/27/2019

al Survey

Legend

- Foleyet
- Percussion Drill Hole

Shawmere Shawmere

5350

380

← EnviroMine Claims

390

74654  
P-19-02 P-19-01  
74602  
74601

Foleyet Foleyet

101

5340

Google Earth

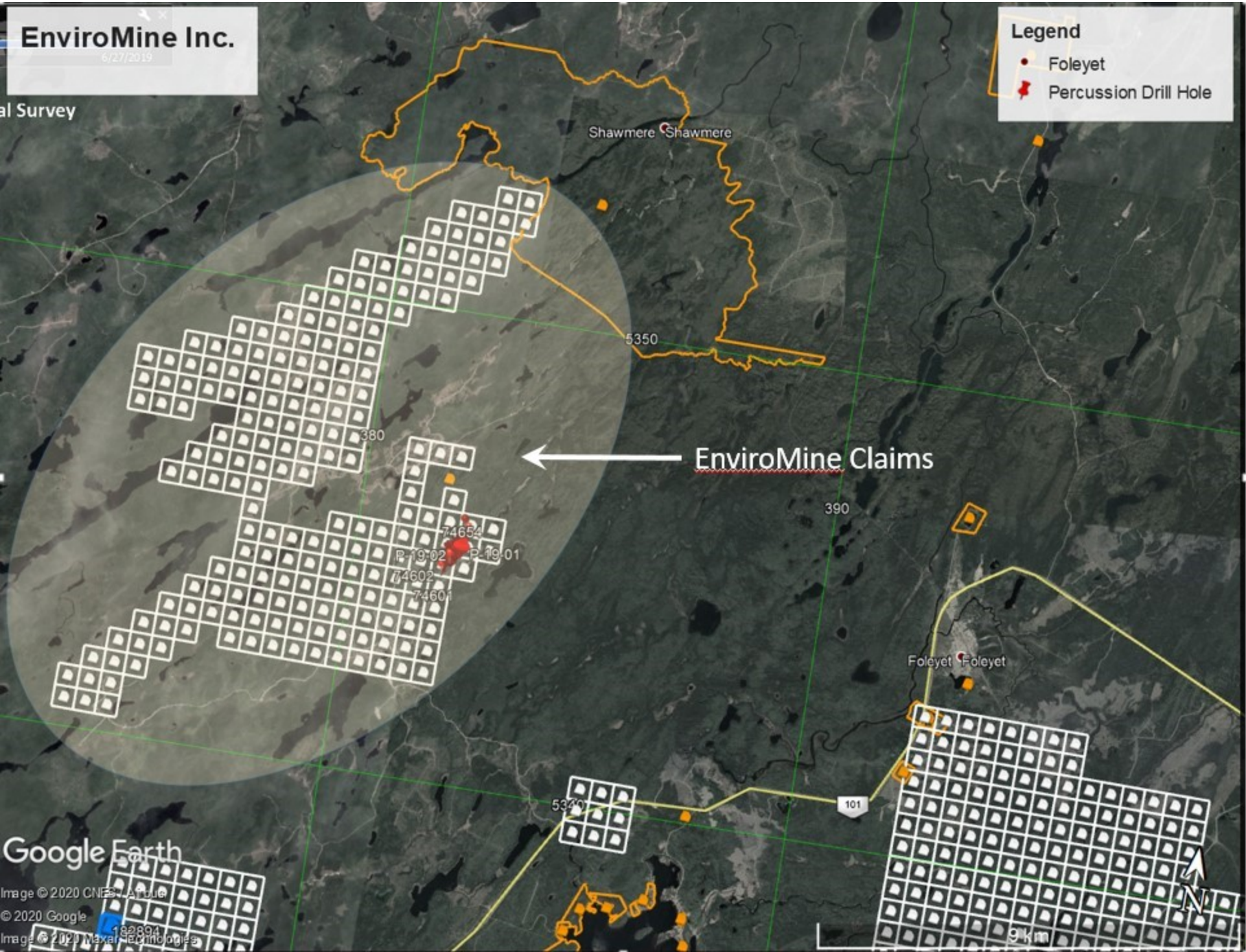
Image © 2020 CNES/Airbus

© 2020 Google

Image © 2020 Maxar Technologies

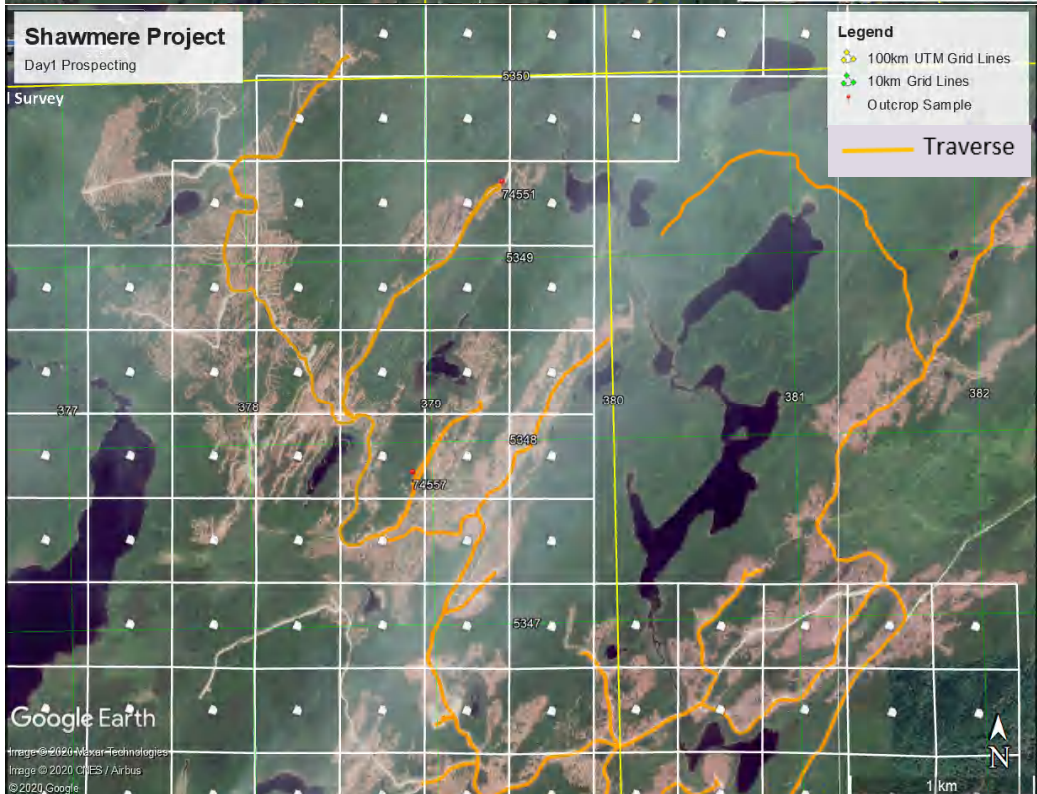
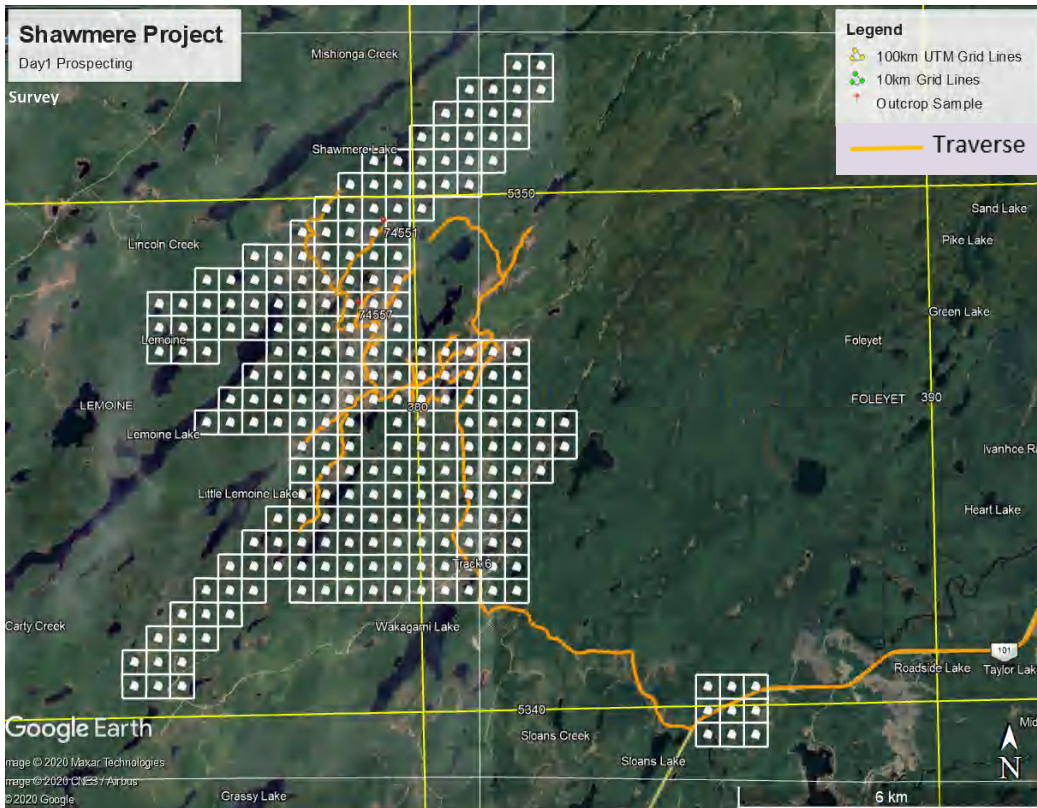
182894

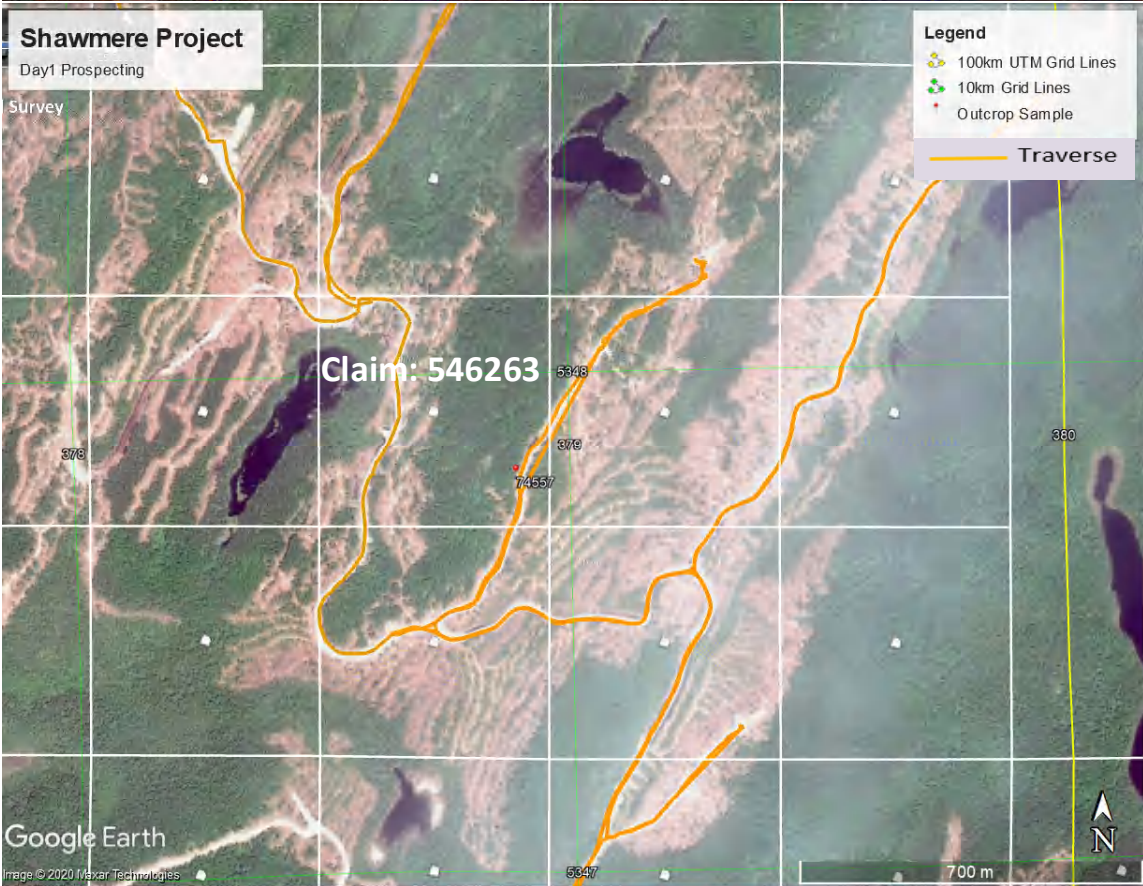
9 km



# Prospecting: June 10, 2019 - Day 1

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 1 prospecting focussed on claim 534038 & 546263. Two outcrop samples were collected.







**Sample: 74551**

**Claim: 534038**

**Zone: 17 U**

**Easting: 379413**

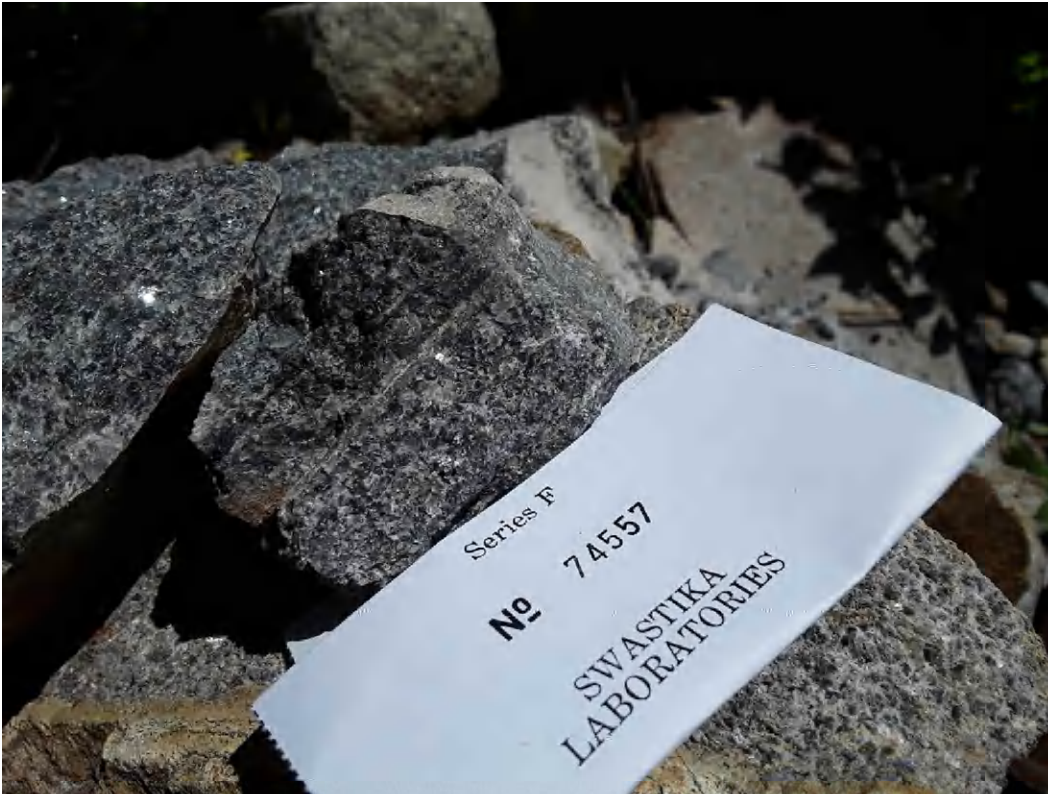
**Northing: 5349368**

white anorthosite, tr blach mineral, garnet wispy patches



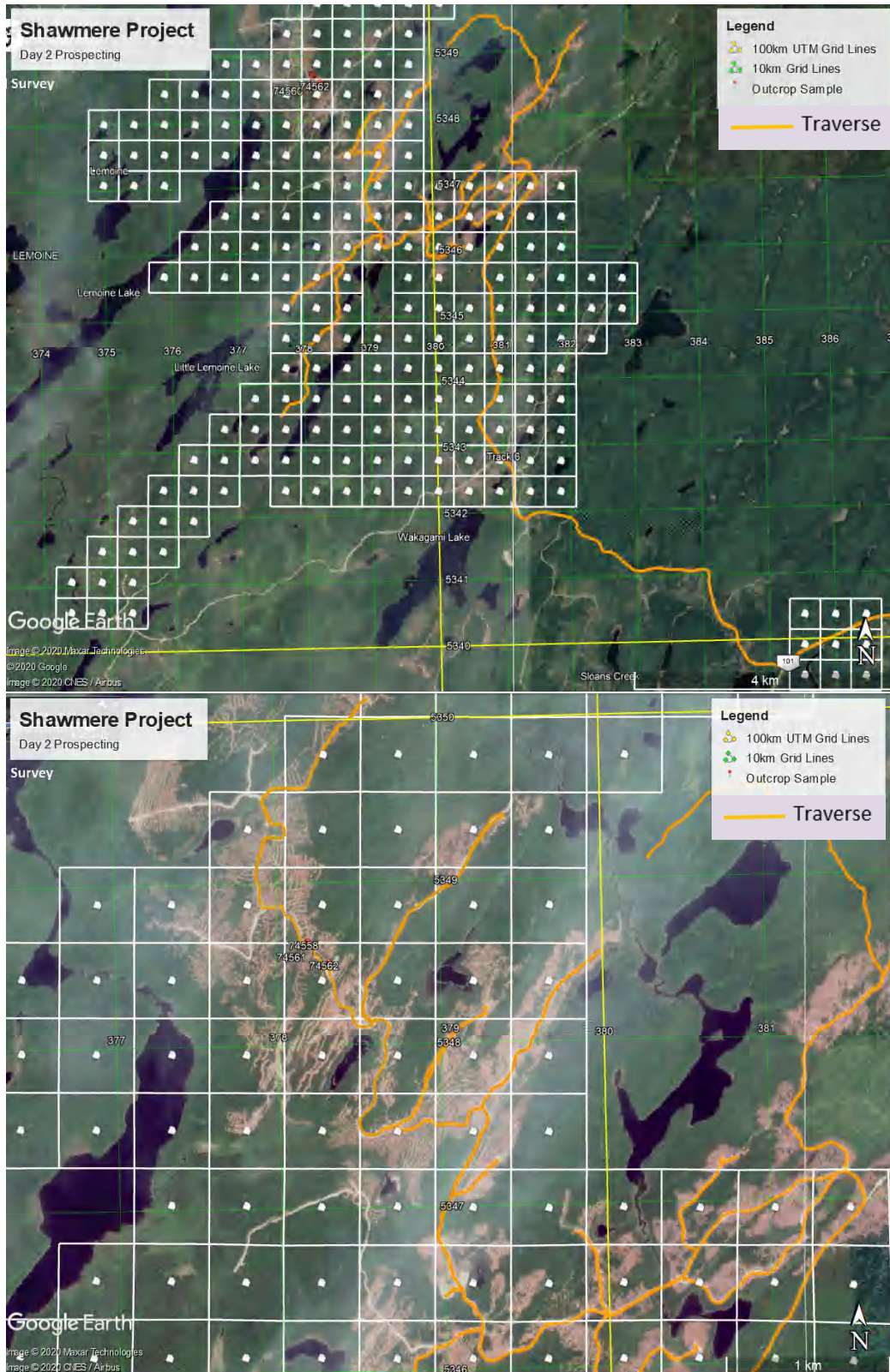
Sample: 74557  
Claim #: 534263  
Zone: 17 U  
Easting: 378891  
Northing: 5347788

gabbro anorthosite. dike grey/blue, unknown size, upland with cedar



## Prospecting: June 11, 2019 - Day 2

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 2 prospecting focussed on claim 534066. Five outcrop samples were collected.



# Shawmere Project

Day 2 Prospecting

Survey

## Legend

- 100km UTM Grid Lines
- 10km Grid Lines
- Outcrop Sample

Traverse

378

74559 74558

74560 74561

74562

Claim: 534066

Google Earth

Image © 2020 Maxar Technologies

100 m



Sample: 74558  
Claim: 534066  
Zone: 17 U  
Easting: 378195  
Northing: 5348594

light grey anorth, tr yellow mineral 2% mg rich stringers in outcrop



Sample: 74559  
Claim #: 534066  
Zone: 17 U  
Easting: 378187  
Northing: 5348598

anorth., min 10m wide, more upland, high purity, cliffs to west



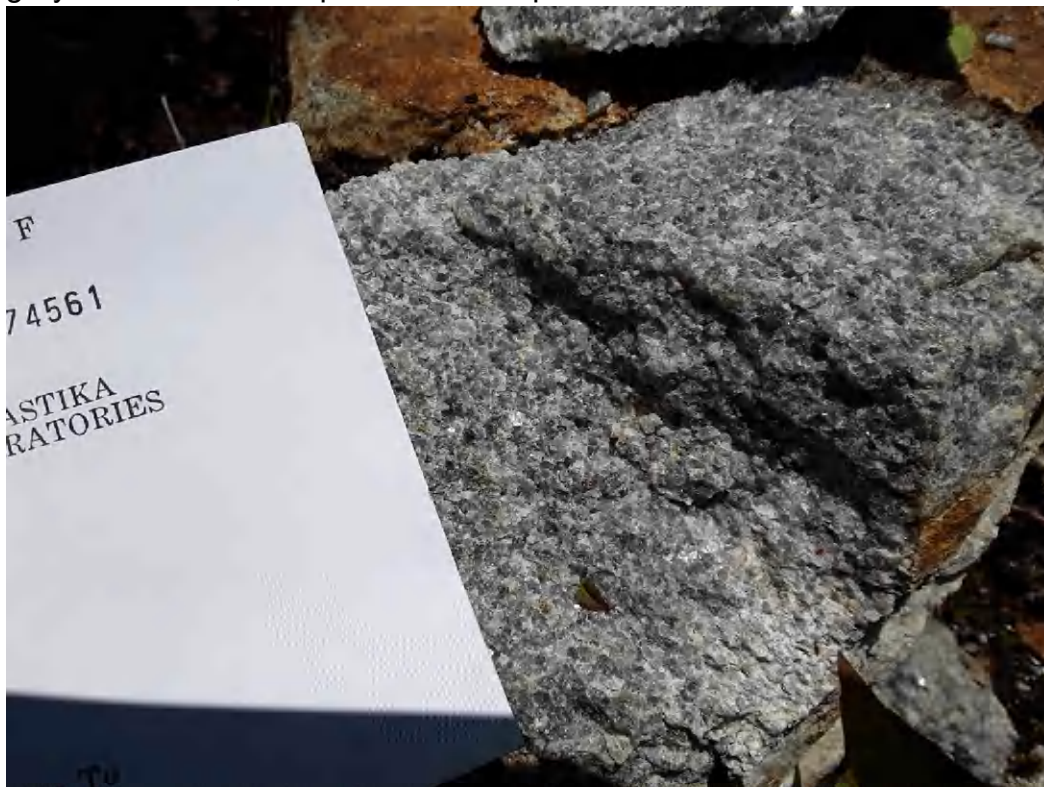
**Sample: 74560**  
**Claim #: 534066**  
**Zone: 17 U**  
**Easting: 378224**  
**Northing: 5348563**

anorthosite, grey, outcrop about 10 m Wide



**Sample: 74561**  
**Claim #: 534066**  
**Zone: 17 U**  
**Easting: 378243**  
**Northing: 5348561**

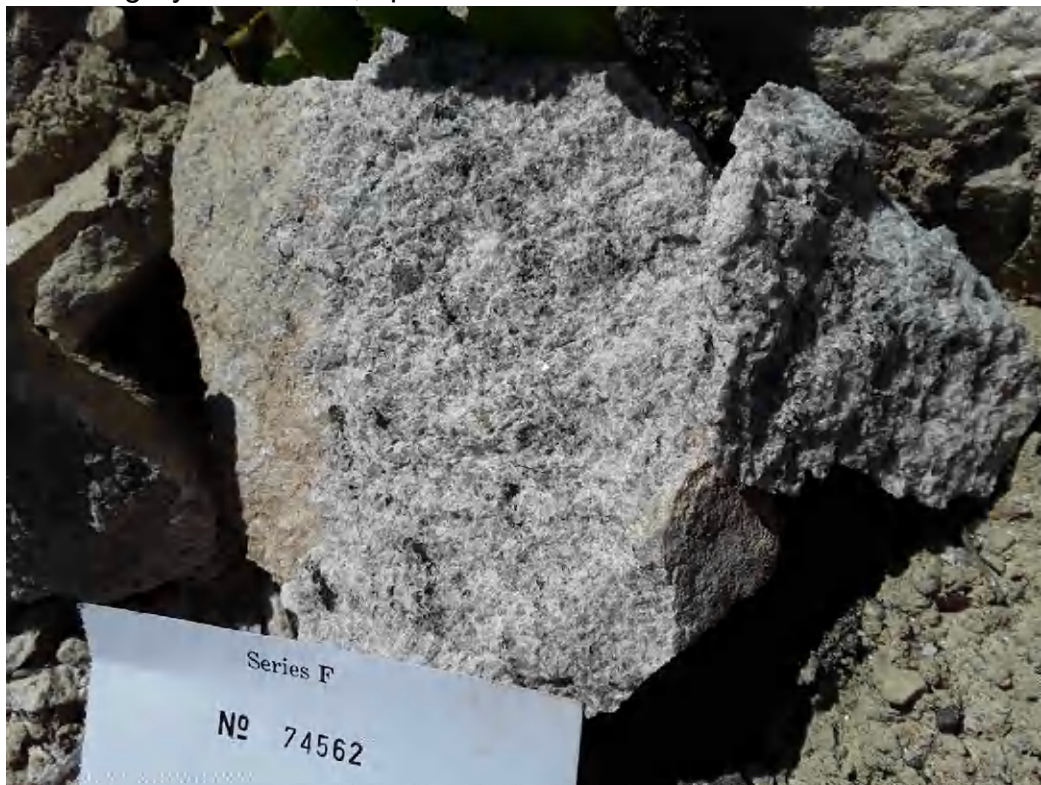
grey anorthosite, multiple 10m outcrops. Hillside





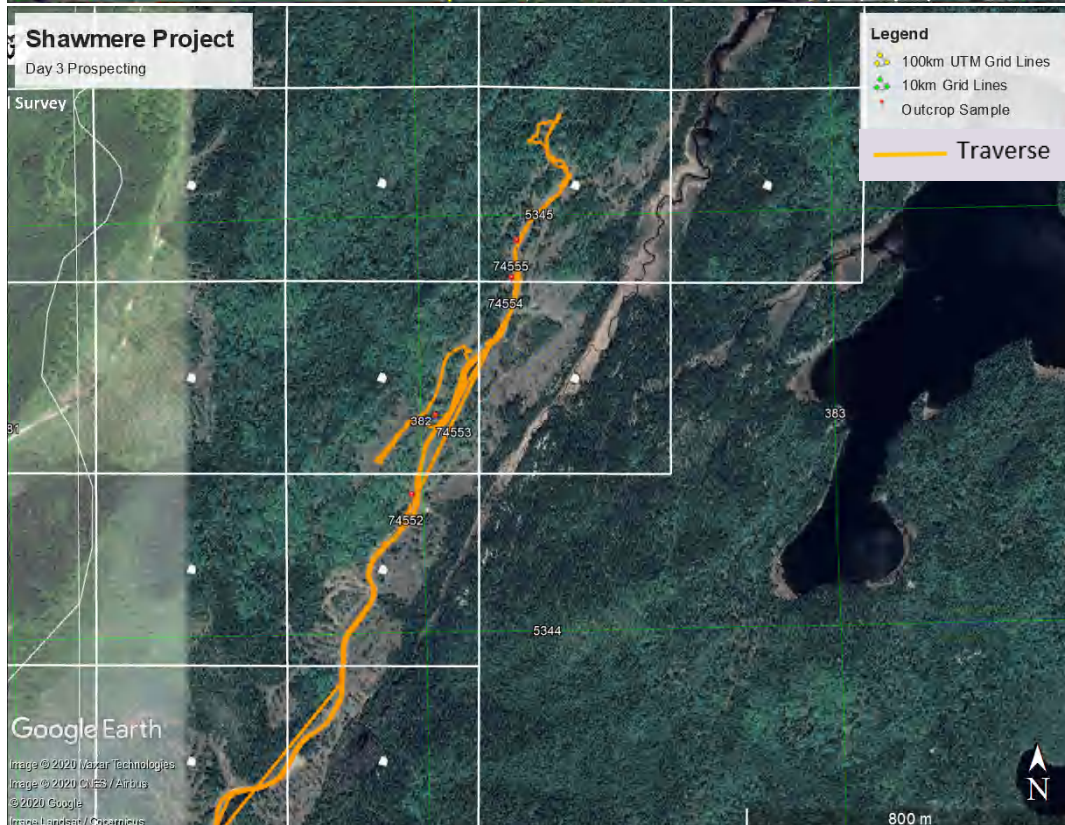
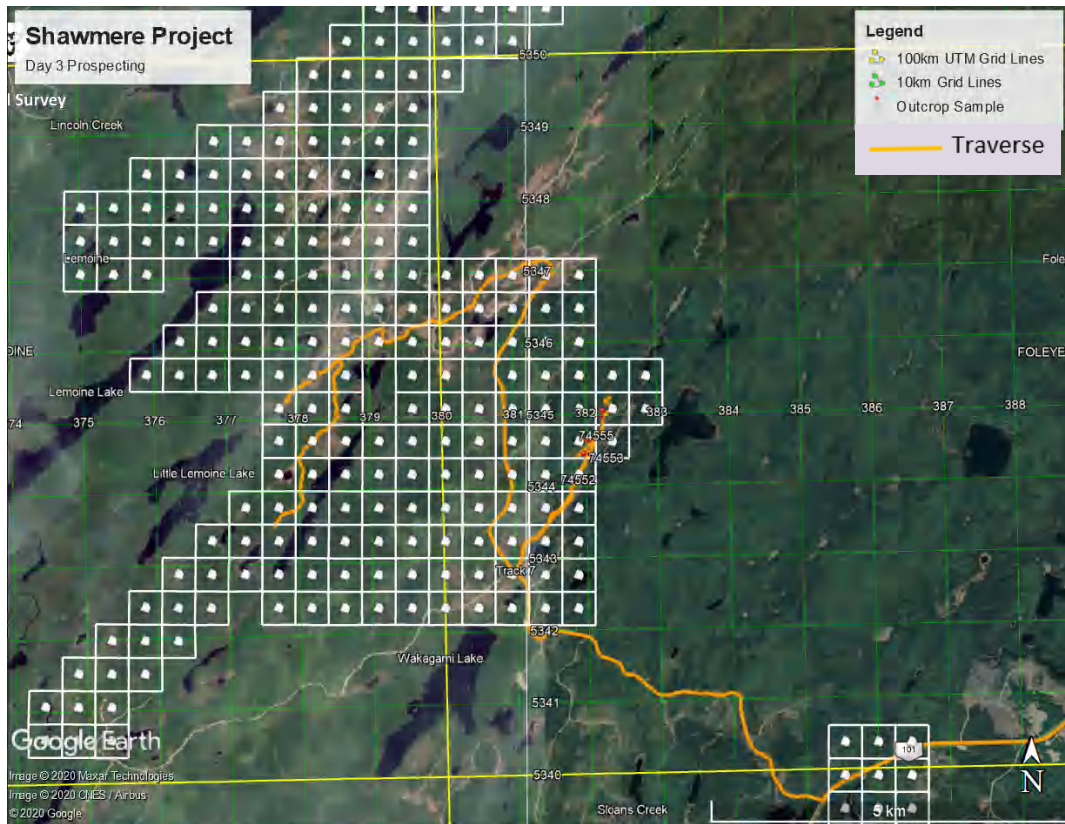
**Sample: 74562**  
**Claim #: 534066**  
**Zone: 17 U**  
**Easting: 378320**  
**Northing: 5348467**

white to grey anorthosite, upland - 10m



## Prospecting: June 12, 2019 - Day 3

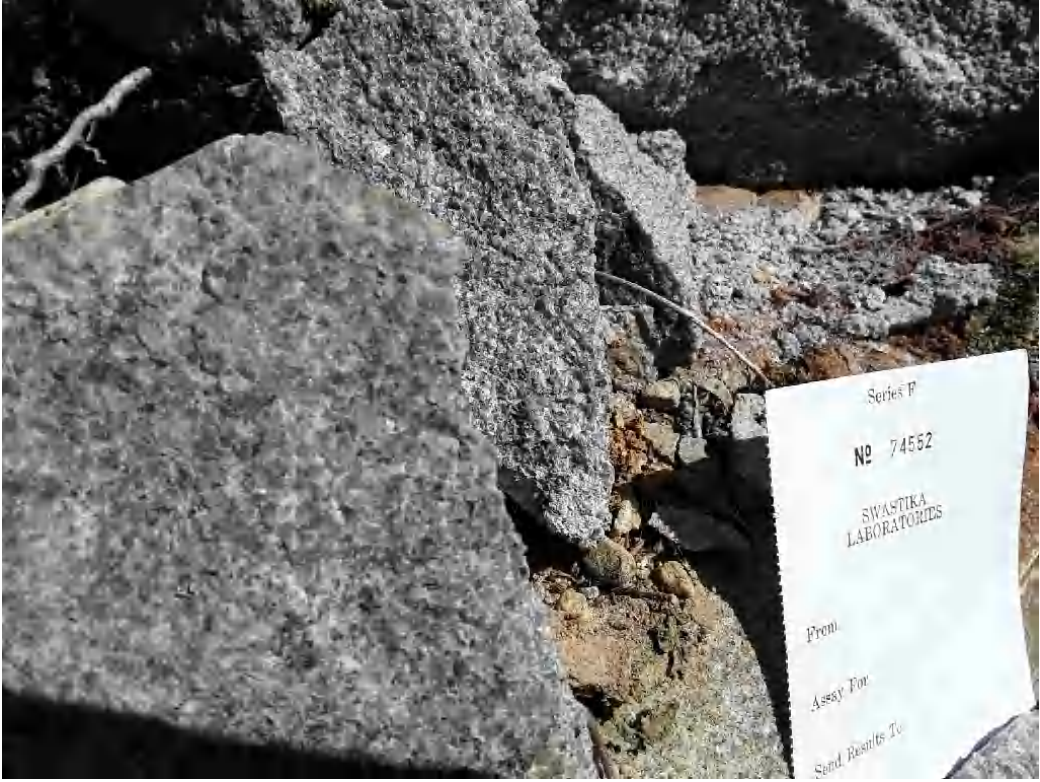
Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 3 prospecting focussed on claims 546312, 546303, 546295 & 546320. Four outcrop samples were collected.





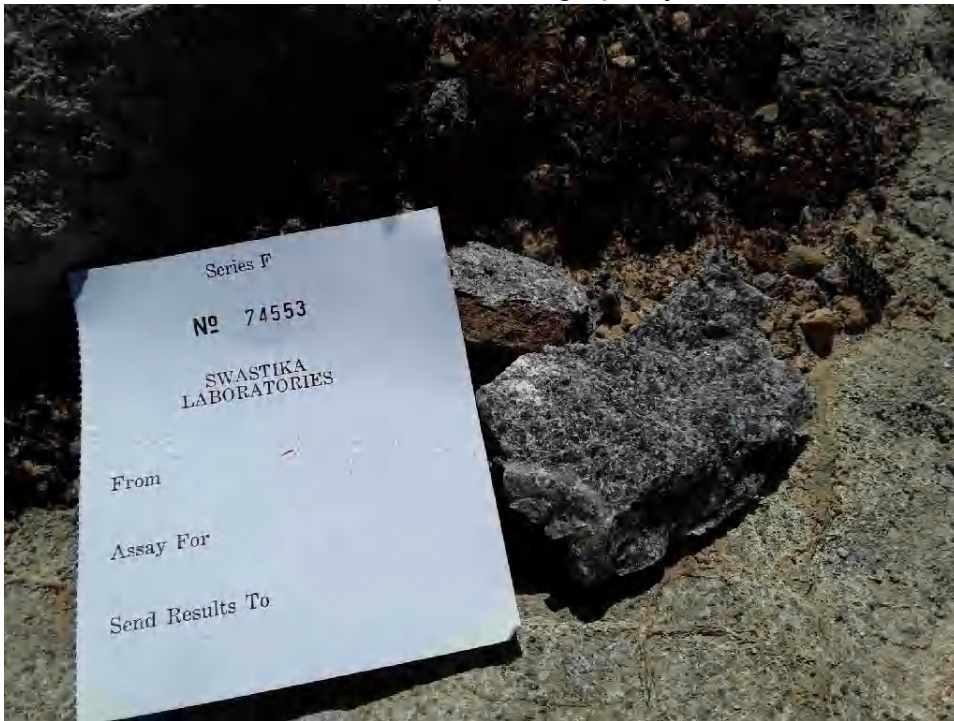
Sample: 74552  
Claim: 546303  
Zone: 17 U  
Easting: 381977  
Northing: 5344306

granular anorthosite purple blue tinge, tr garnet, wispy black seams. 10m wide of fairly pure material, upland area



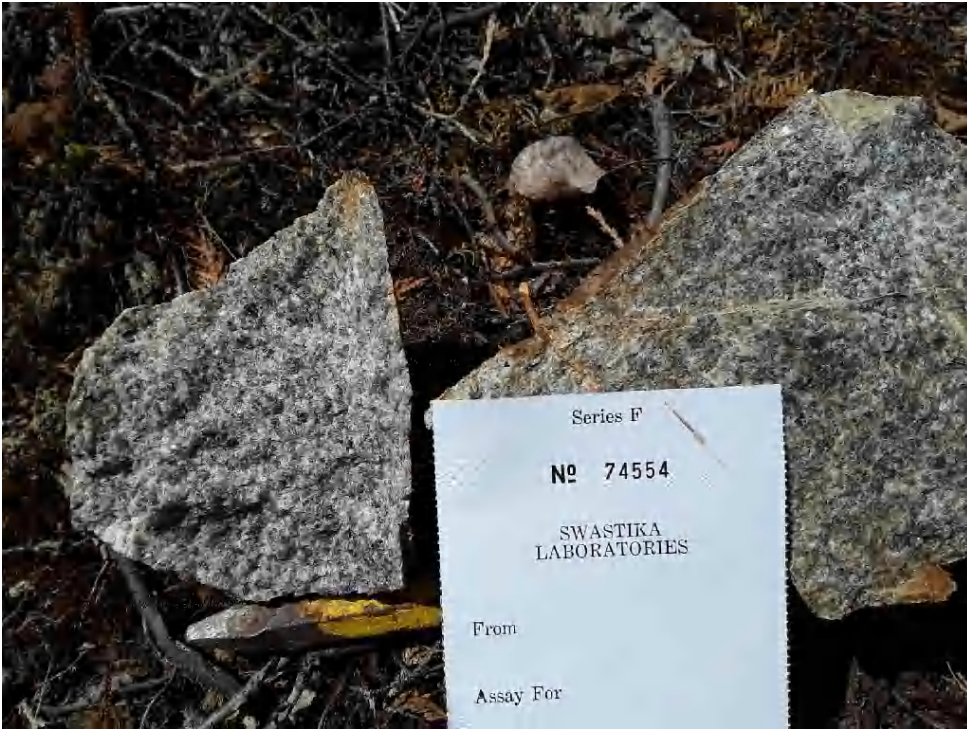
**Sample: 74553**  
**Claim #: 546312**  
**Zone: 17 U**  
**Easting: 382035**  
**Northing: 5344502**

anorth., min 10m wide, more upland, high purity, cliffs to west



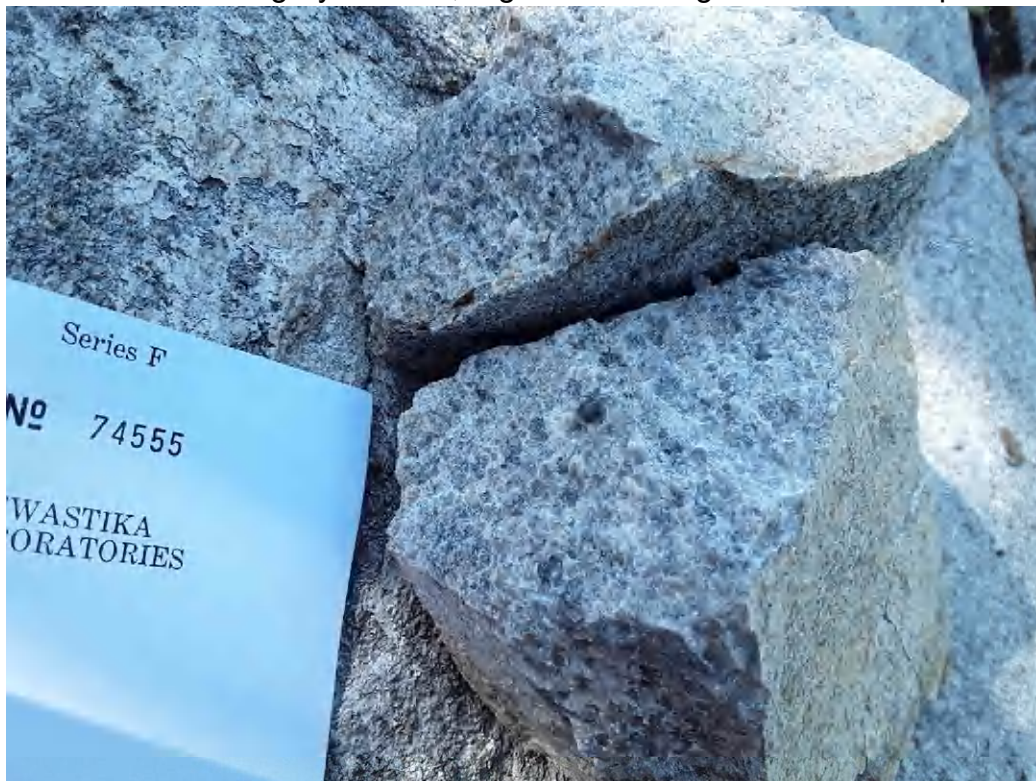
Sample: 74554  
Claim #: 546295  
Zone: 17 U  
Easting: 382223  
Northing: 5344829

anorthosite, tr garnet, tr black mnrl, pinkish hue to some grains. just above cedar swp



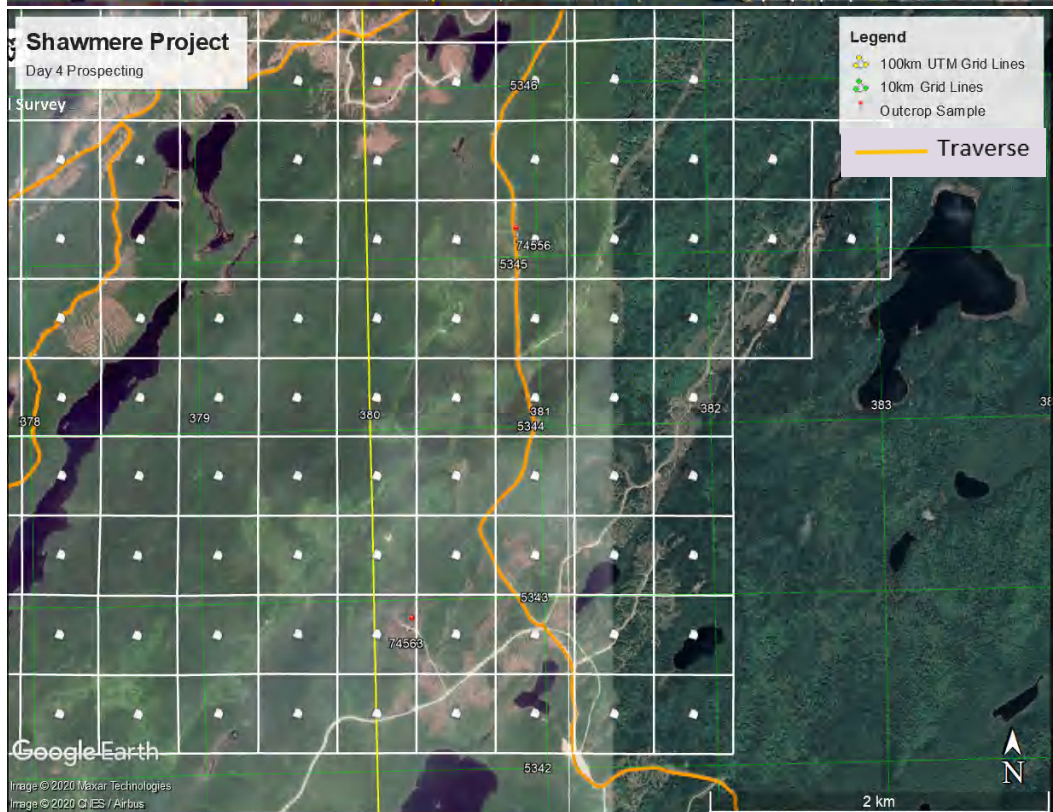
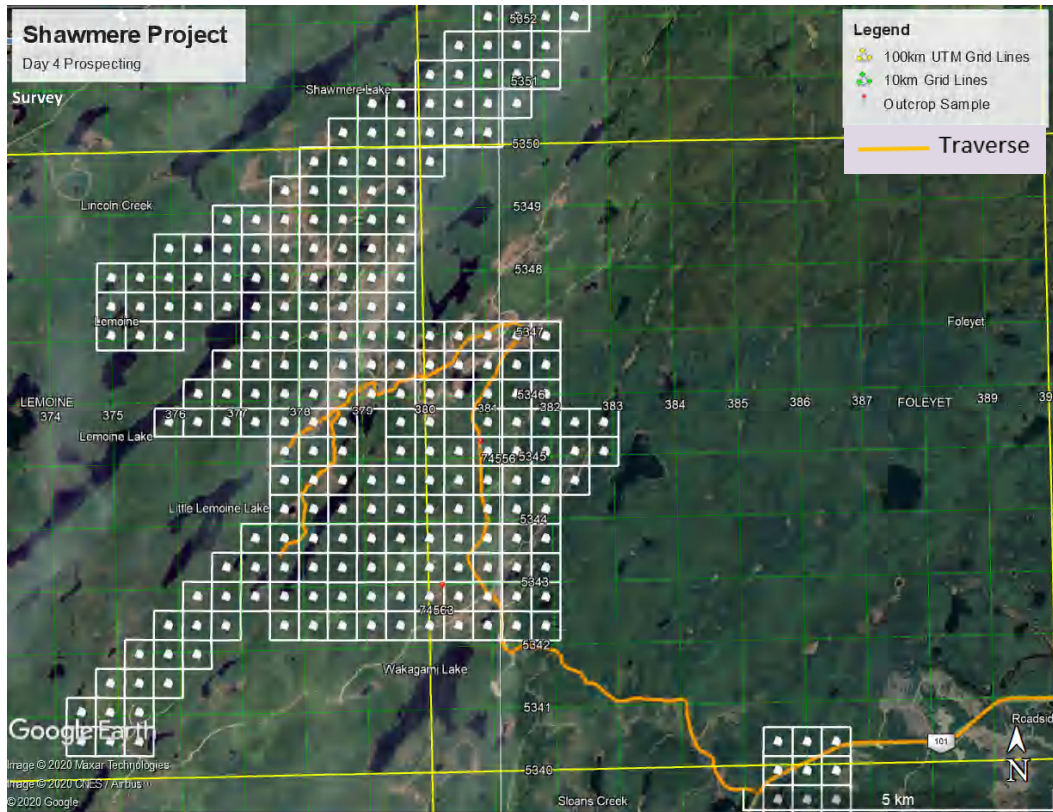
Sample: 74555  
Claim #: 546320  
Zone: 17 U  
Easting: 382238  
Northing: 5344918

white anorth. Blue/grey to white, tr garnet. sticking out of cedar swp



## Prospecting: June 13, 2019 - Day 4

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 4 prospecting focussed on claims 546339 & 546317. Two outcrop samples were collected.

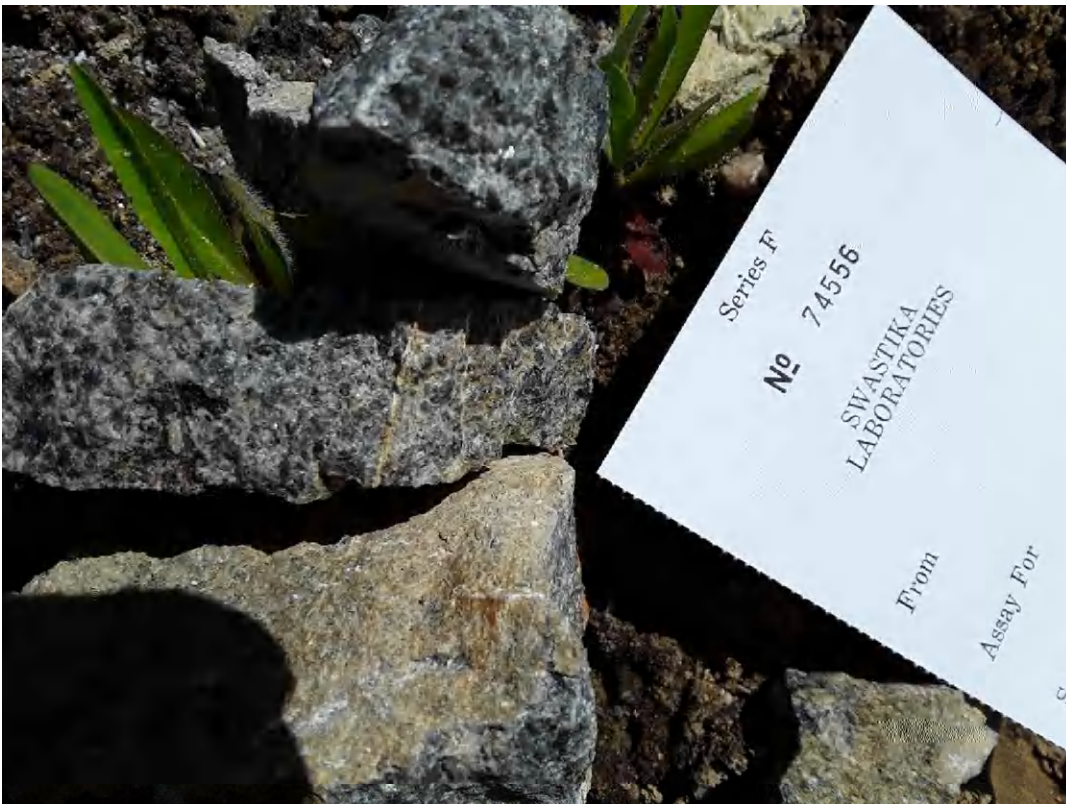






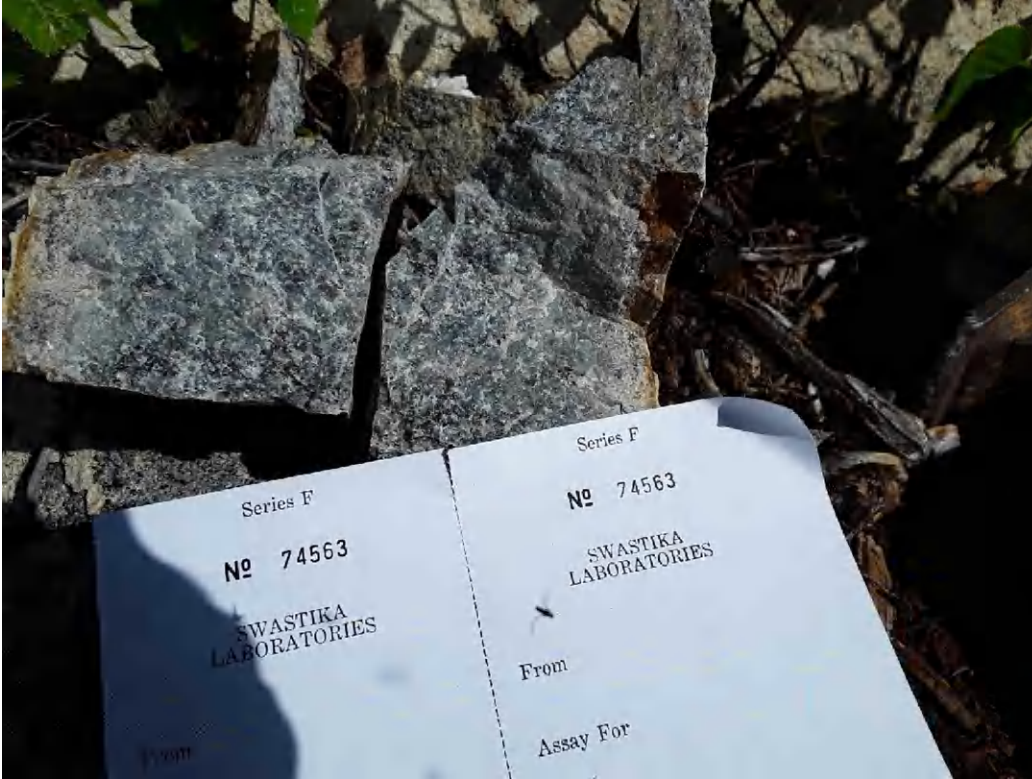
Sample: 74556  
Claim: 546317  
Zone: 17 U  
Easting: 380879  
Northing: 5345115

grey anorthosite, 2% garnet with other impurities. along main road.



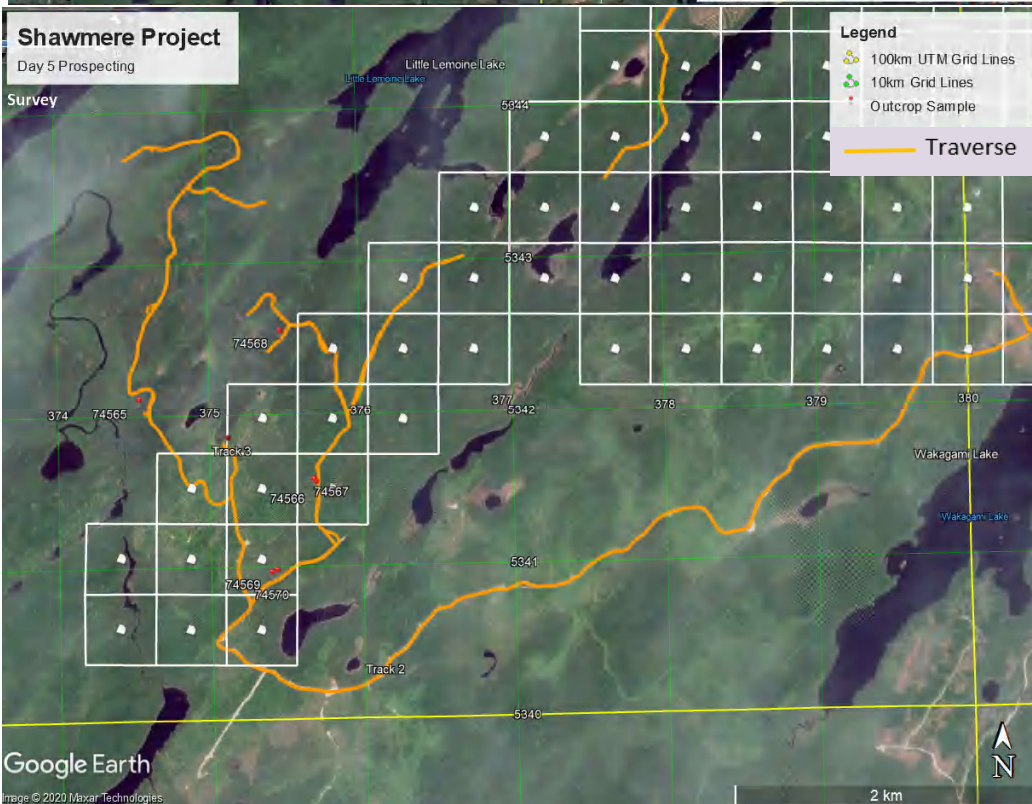
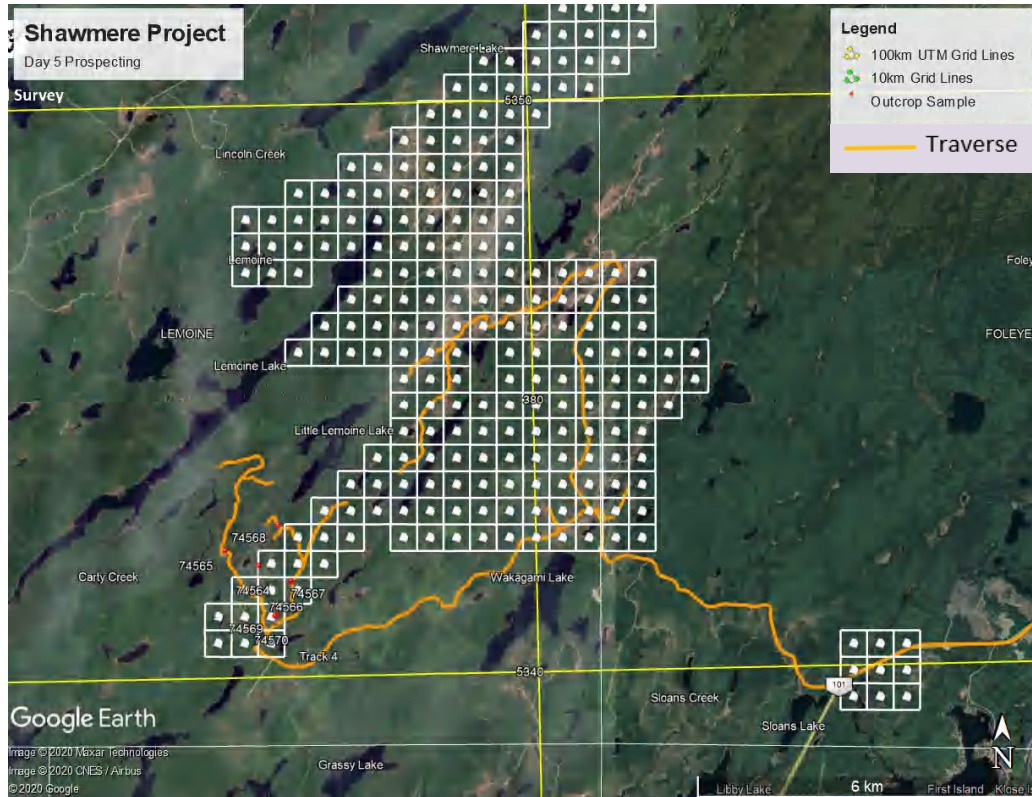
**Sample: 74563**  
**Claim #: 546339**  
**Zone: 17 U**  
**Easting: 380219**  
**Northing: 5342838**

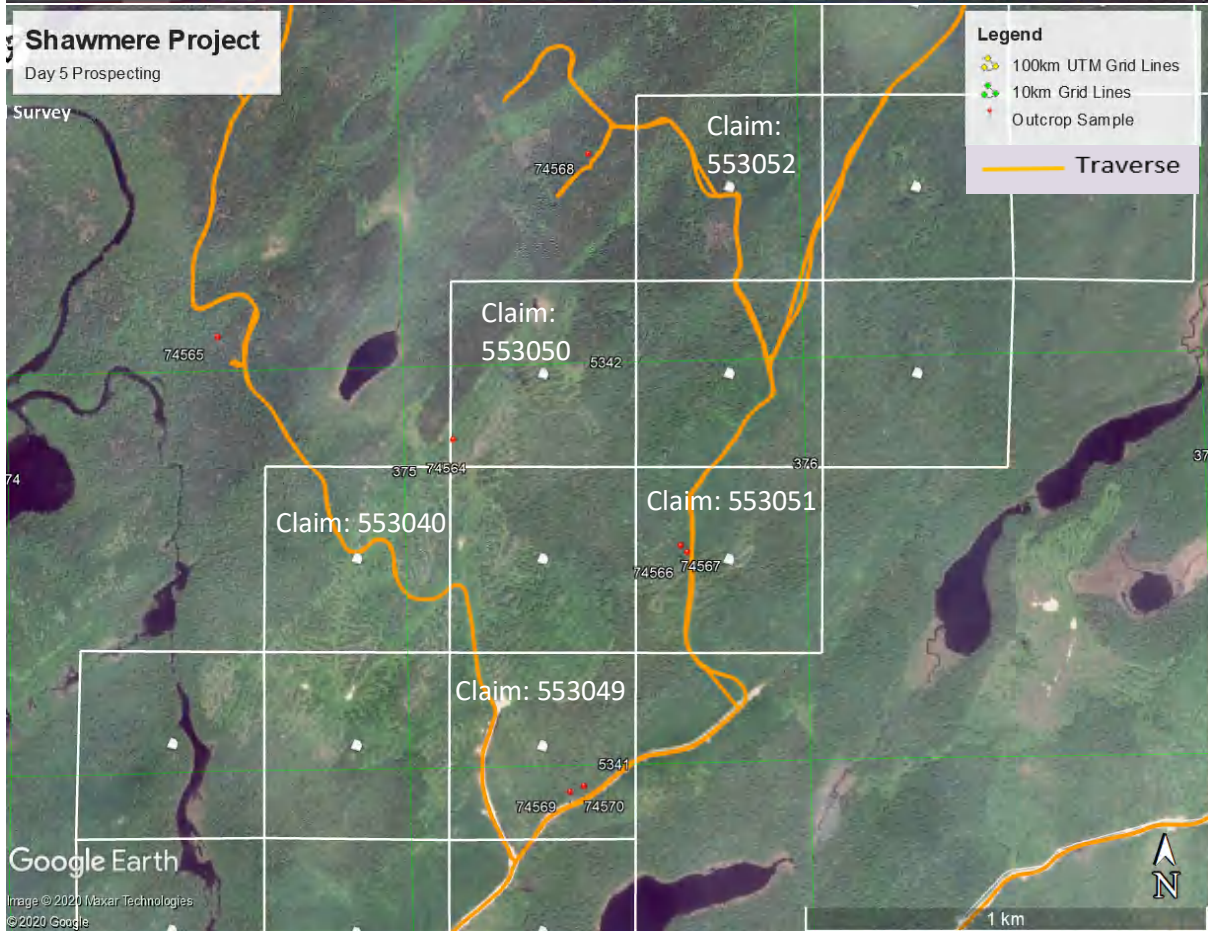
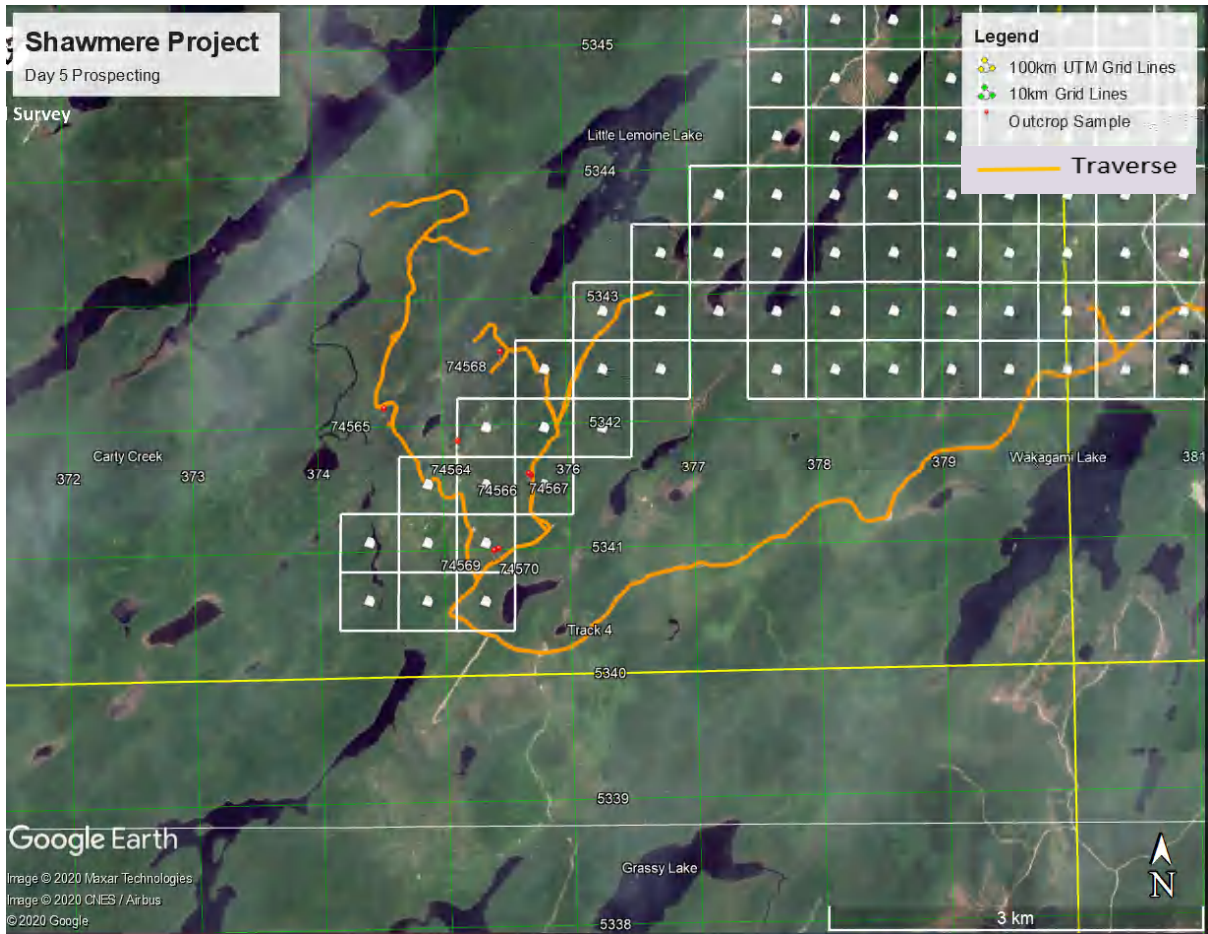
white to light grey anorthosite numerous cc mg stringers 3% dark minerals



## Prospecting: June 14, 2019 - Day 5

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 5 prospecting focussed on claims 553049, 553050 and 553051. Seven outcrop samples were collected. Five samples were collected on these claims while sample 74568 was taken 120 metres west of claim 553052 and one sample was collected 327 metres northwest of claim 553040.





**Sample: 74564**  
**Claim: 553050**  
**Zone: 17 U**  
**Easting: 381184**  
**Northing: 5343256**  
grey / white anorthosite



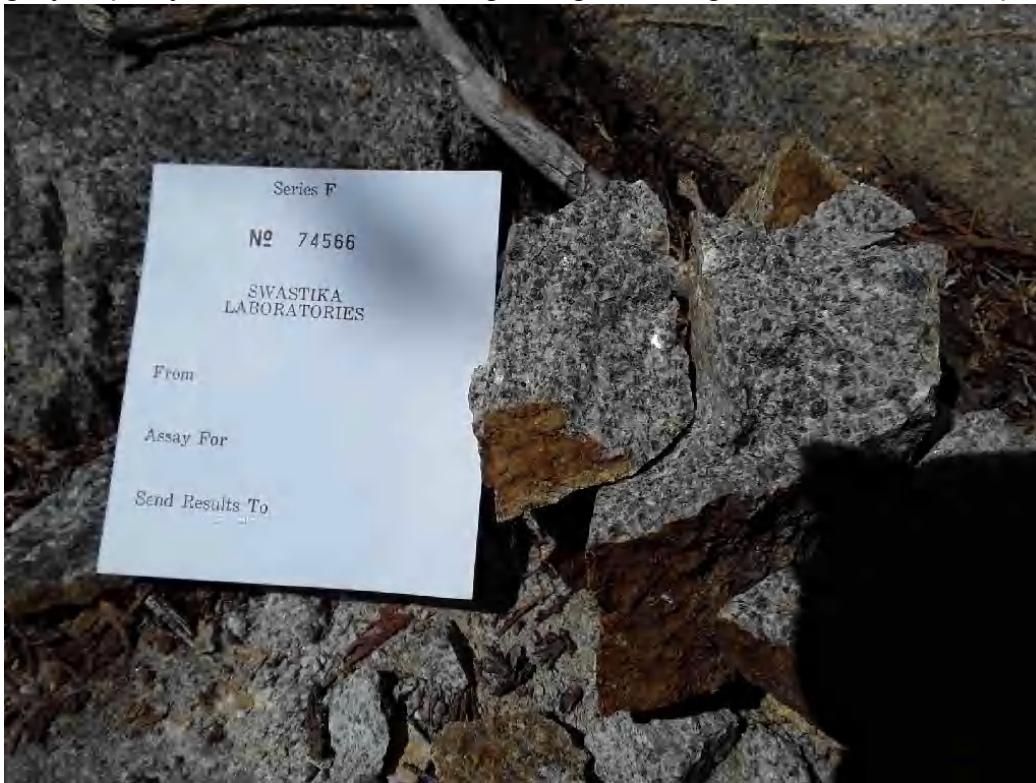
Sample: 74565  
Claim #: N/A  
Zone: 17 U  
Easting: 374535  
Northing: 5342058

grey to pinky anorthosite, 5% gt, lrg body multi 10m upland



**Sample: 74566**  
**Claim #: 553051**  
**Zone: 17 U**  
**Easting: 375701**  
**Northing: 5341496**

grey to pinky anorthosite, 5% ccmg stringers, 5% gt, wide multi 10m, upland on road





**Sample: 74567**  
**Claim #: 553051**  
**Zone: 17 U**  
**Easting: 381994**  
**Northing: 5344506**

dark grey anorthosite, 10m, upland, on road, 5% ccmg stringers



**Sample: 74568**  
**Claim #: N/A**  
**Zone: 17 U**  
**Easting: 375479**  
**Northing: 5342483**  
grey / pink / white anorthosite, small outcrop. 10m+



Sample: 74569  
Claim #: 553049  
Zone: 17 U  
Easting: 382342  
Northing: 5345241

grey green anorthosite, roadside, low country, min. 5m wide



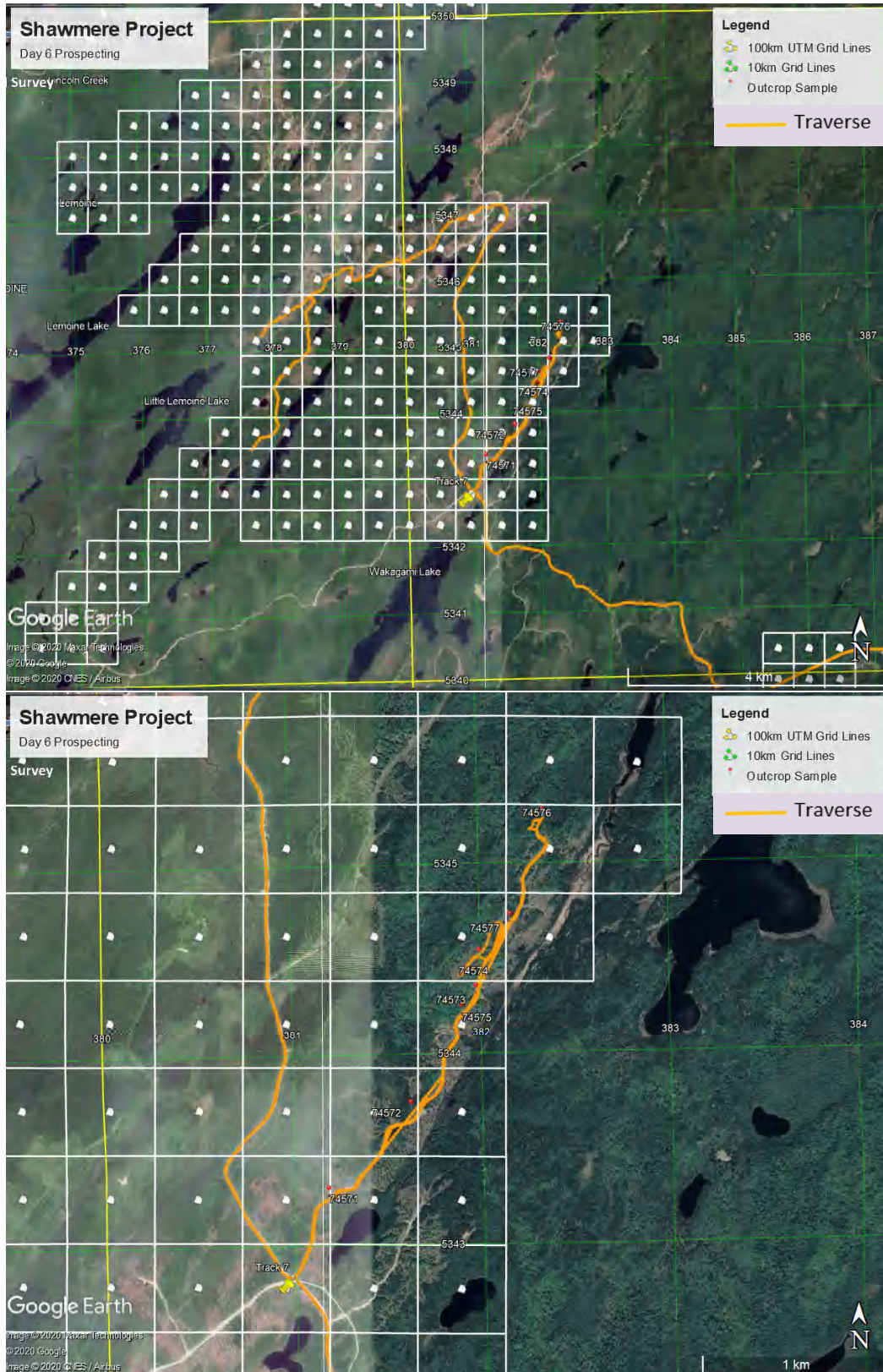
**Sample: 74570**  
**Claim #: 553049**  
**Zone: 17 U**  
**Easting: 375433**  
**Northing: 5340919**

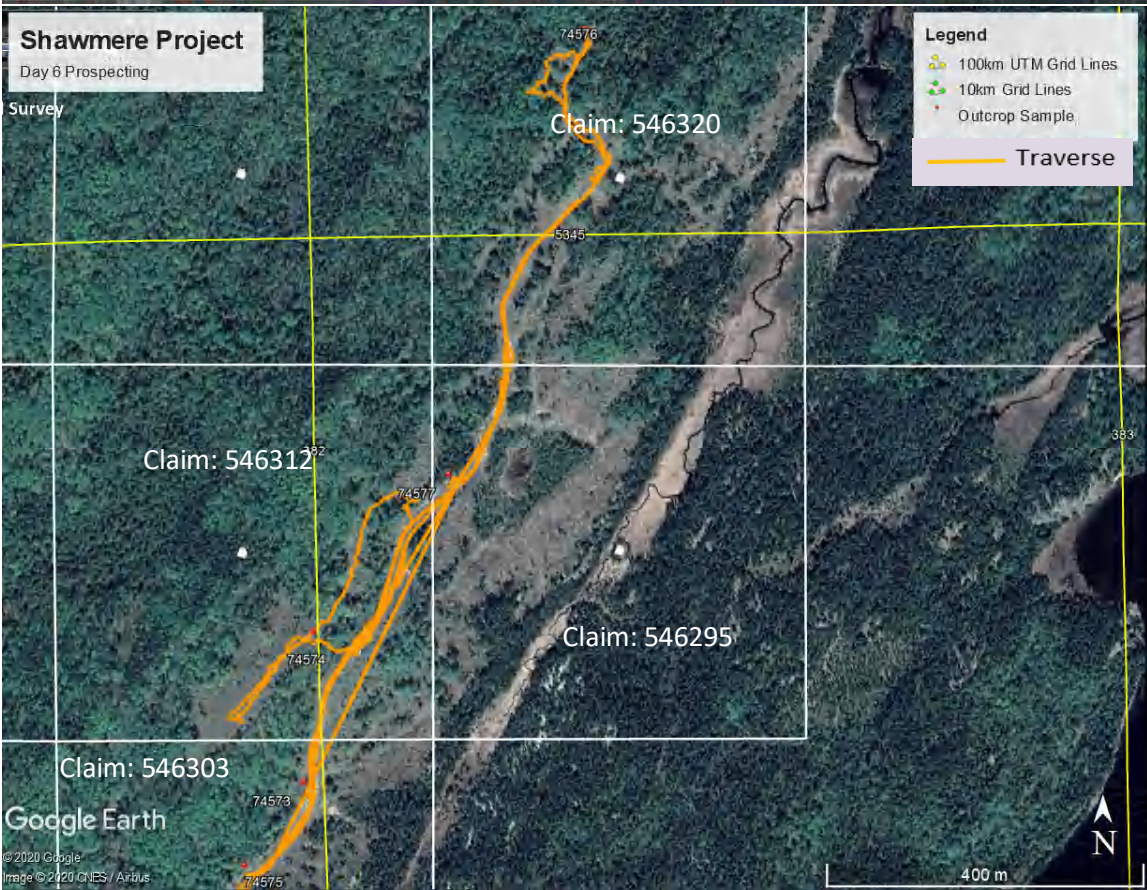
grey / dark grey, < 3% dk minerals, low country, 5m Wide



## Prospecting: June 15, 2019 - Day 6

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 6 prospecting focussed on claims 546295, 546303, 546312, 546320, 546348, 546350, 546358 & 546377. Seven outcrop samples were collected.





Sample: 74571  
Claim: 556358  
Zone: 17 U  
Easting: 381184  
Northing: 5343256

grey anorthosite, tr gt 5% wispy mafic bands, roadside, above lowlands



**Sample: 74572**  
**Claim #: 546348**  
**Zone: 17 U**  
**Easting: 381622**  
**Northing: 5343708**

grey anorthosite, 5% wispy mafic layers and disseminations, roadside, above lowland in gravel pit





**Sample: 74573**  
**Claim #: 546303**  
**Zone: 17 U**  
**Easting: 381975**  
**Northing: 5344320**

grey to white anorthosite, 2% gt, 2% mfc minrls. (ric 13). roadside, upland, +10m



**Sample: 74574**  
**Claim #: 546312**  
**Zone: 17 U**  
**Easting: 381994**  
**Northing: 5344506**

grey anorthosite, variable mafic content from tr to 5% wispy bands. on cliffside, 30M above lows, 30m from rd. min 5m wide



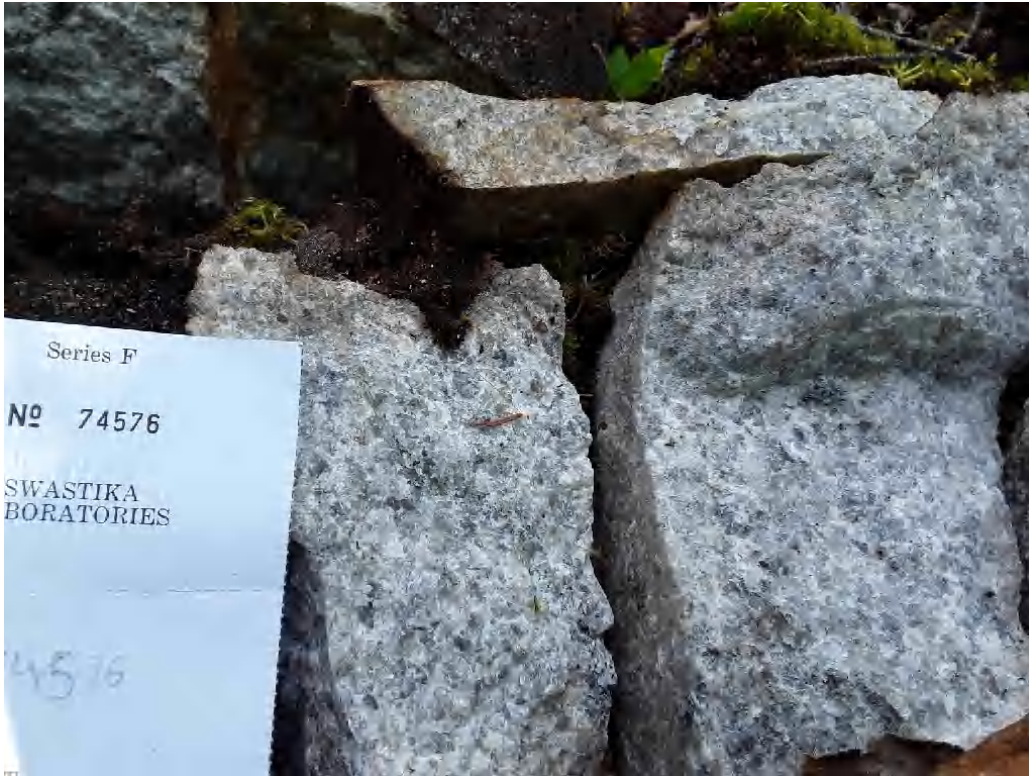
**Sample: 74575**  
**Claim #: 546303**  
**Zone: 17 U**  
**Easting: 381899**  
**Northing: 5344218**

grey to grey anorthosite/gabbro, 5--10% wispy mafic ands, rdside, ? width, upland



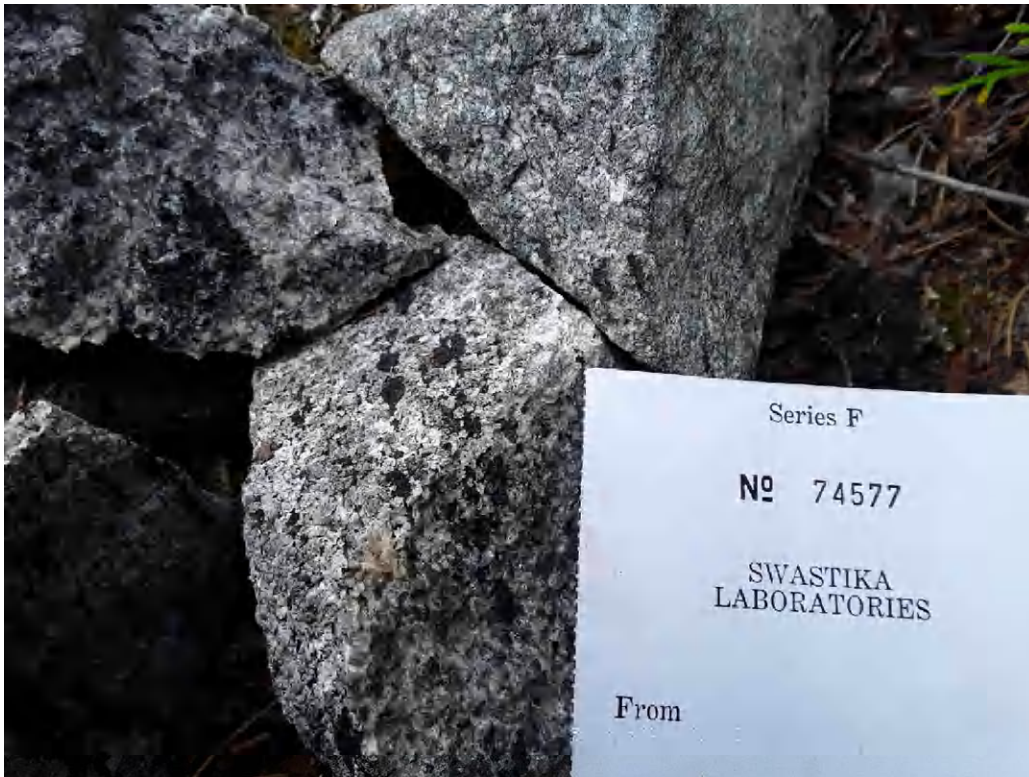
**Sample: 74576**  
**Claim #: 546320**  
**Zone: 17 U**  
**Easting: 382342**  
**Northing: 5345241**

grey to white anorthosite, upland on skidway off main rd, potentially good width, rare tr mafic minerals...bush exposure traced for 50m strike?



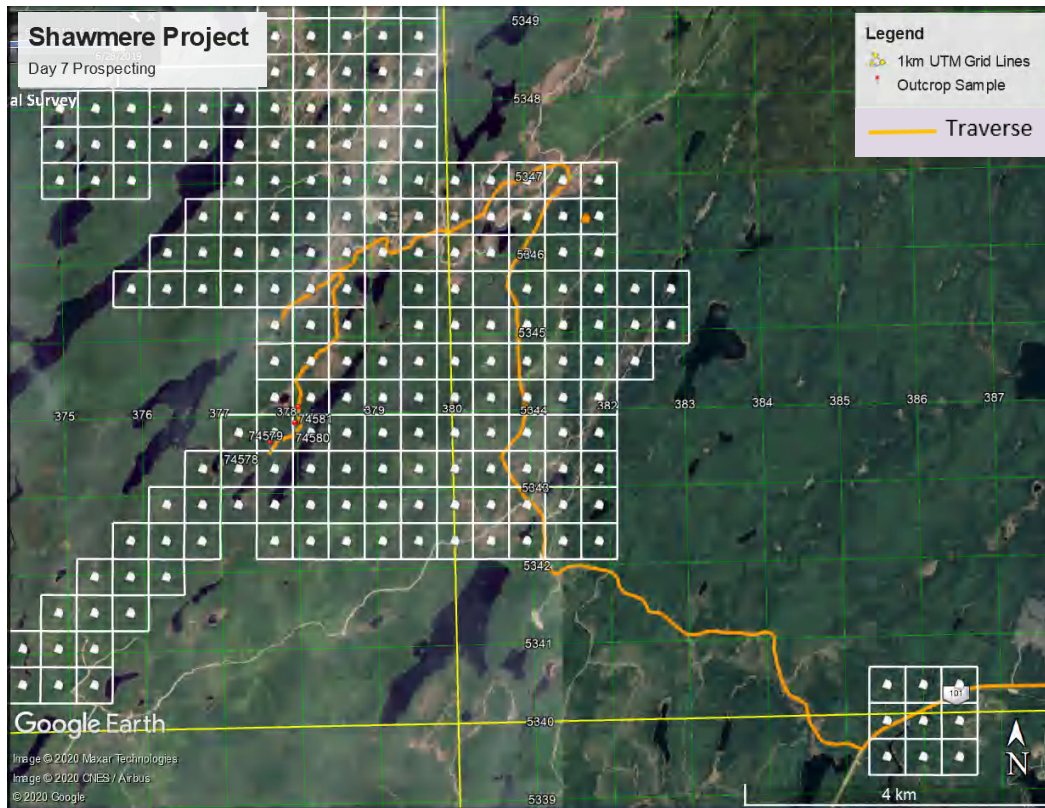
**Sample: 74577**  
**Claim #: 546295**  
**Zone: 17 U**  
**Easting: 382162**  
**Northing: 5344694**

grey to white anorthosite, 10% mafics mainly in wispy bands. cliffside, rdside



## Prospecting: June 16, 2019 - Day 7

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 7 prospecting focussed on claims 553042 & 546322. Four outcrop samples were collected.



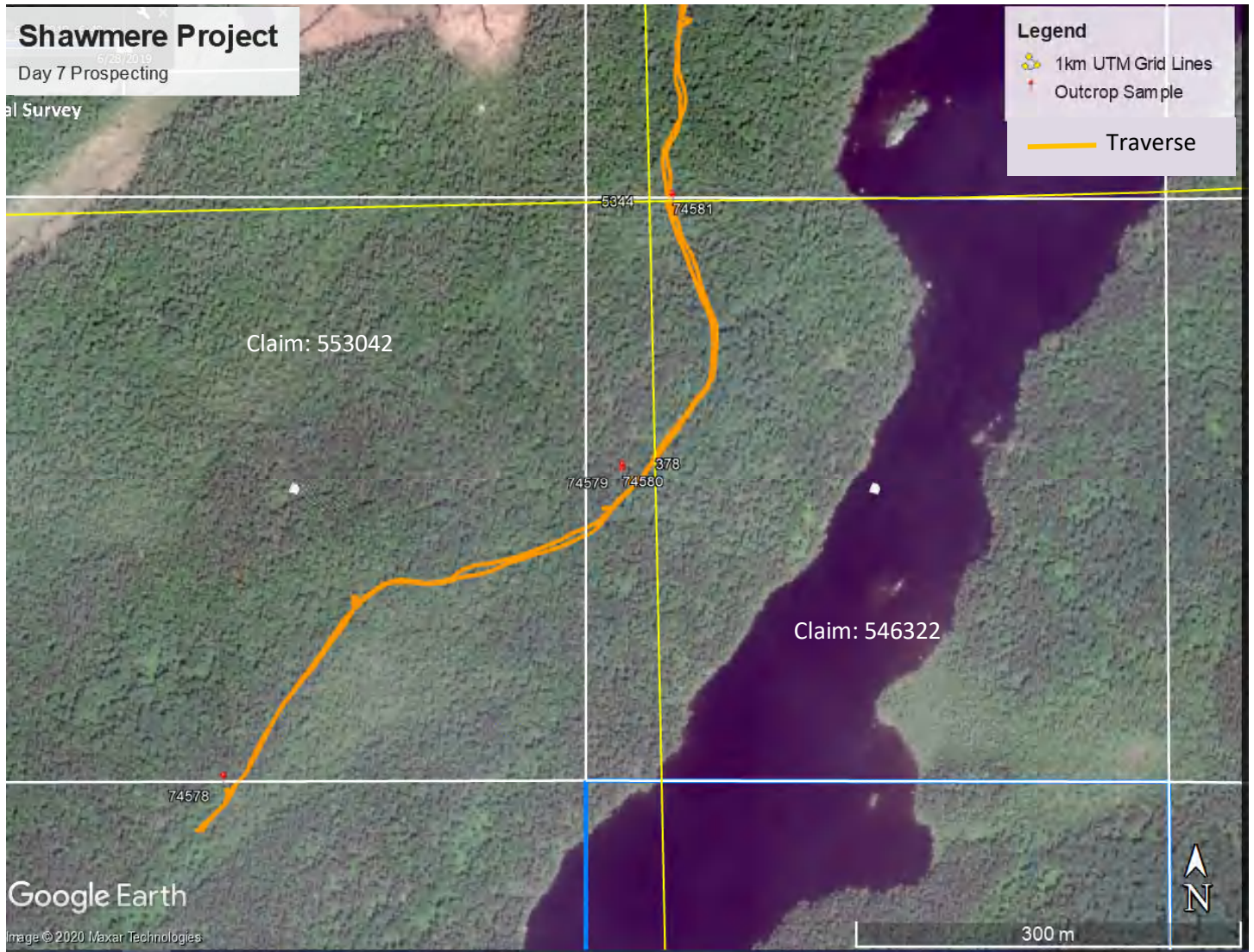
# Shawmere Project

6/28/2019  
Day 7 Prospecting

al Survey

## Legend

- 1km UTM Grid Lines
- Outcrop Sample
- Traverse



Google Earth

Image © 2020 Maxar Technologies

300 m

**Sample: 74578**  
**Claim: 553042**  
**Zone: 17 U**  
**Easting: 377654**  
**Northing: 5343539**

white to pinkish anorthosite, trailside, upland, potential for width





Sample: 74579  
Claim #: 546322  
Zone: 17 U  
Easting: 377976  
Northing: 5343766

Grey anorthosite, trailside, rare mafic mins. trace mm pink stringer



**Sample: 74580**  
**Claim #: 546322**  
**Zone: 17 U**  
**Easting: 377980**  
**Northing: 5343781**

Grey anorthosite trailside, width potential. upland

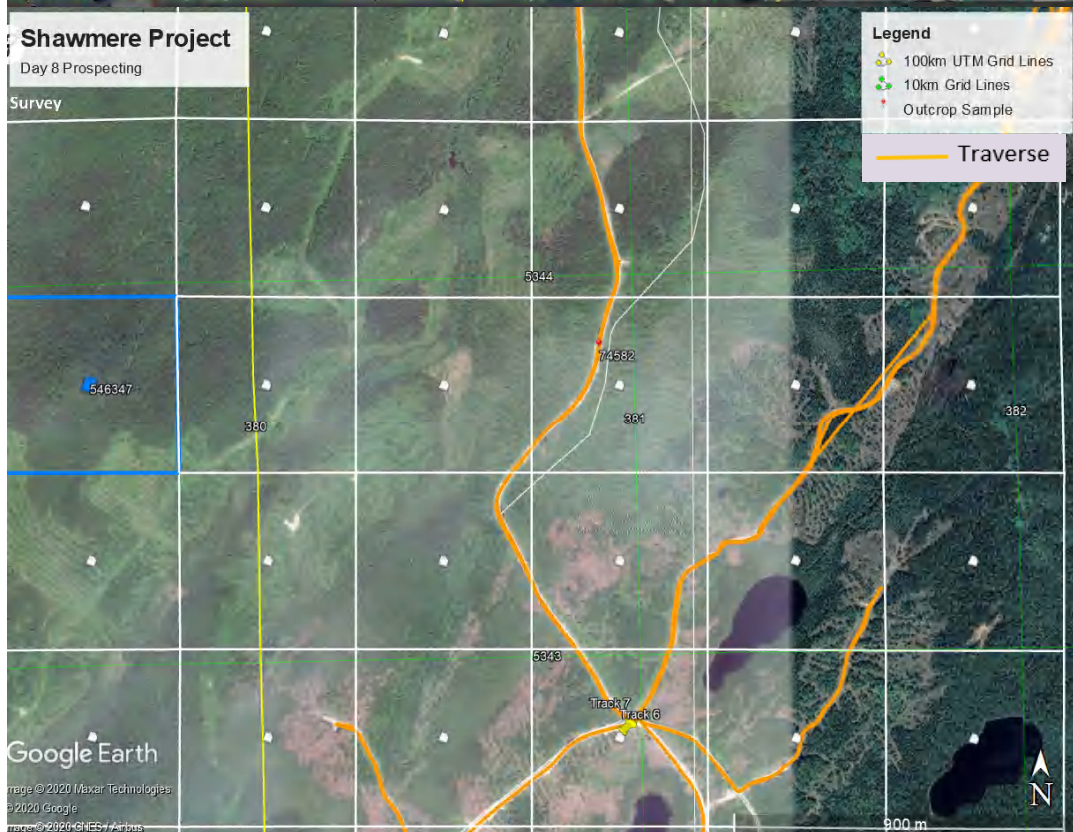
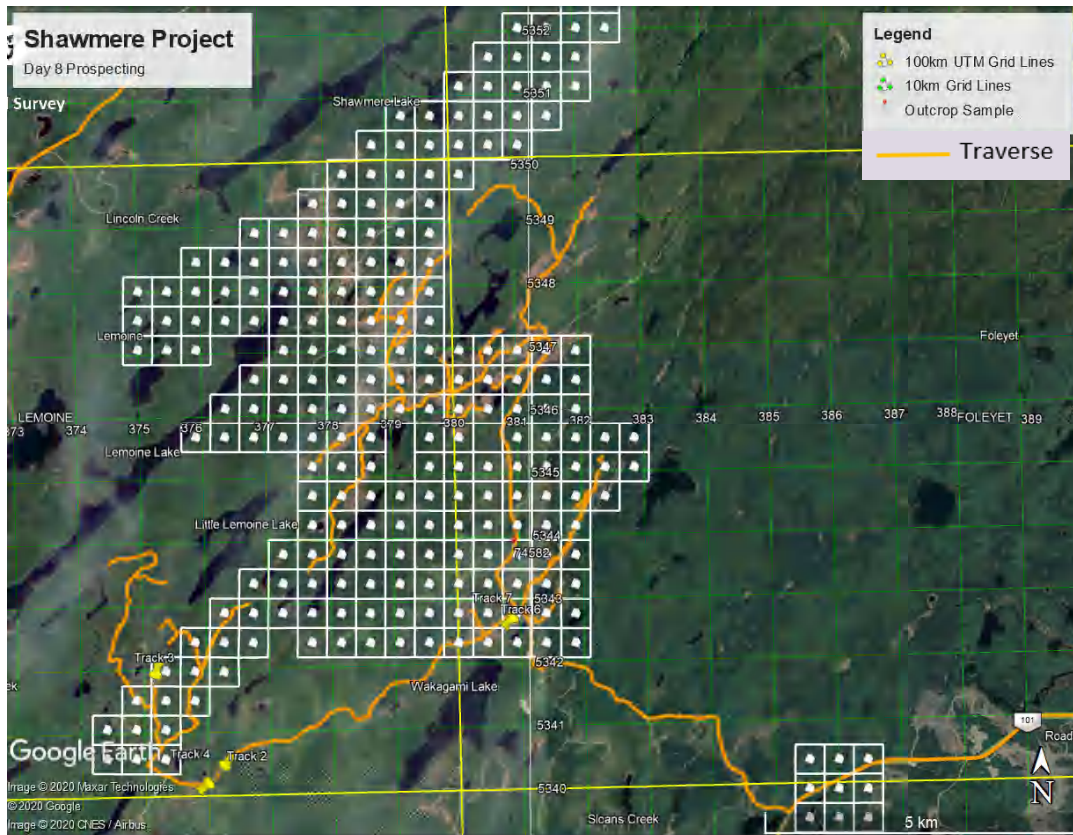


**Sample: 74581**  
**Claim #: 546322**  
**Zone: 17 U**  
**Easting: 378024**  
**Northing: 5343999**  
Grey anorthosite ~5% mafics



## Prospecting: June 17, 2019 - Day 8

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 8 prospecting focussed on claims 546344. One outcrop sample was collected.



# Shawmere Project

Day 8 Prospecting  
Survey

**Legend**

- 100km UTM Grid Lines
- 10km Grid Lines
- Outcrop Sample

— Traverse

5344

74582

381

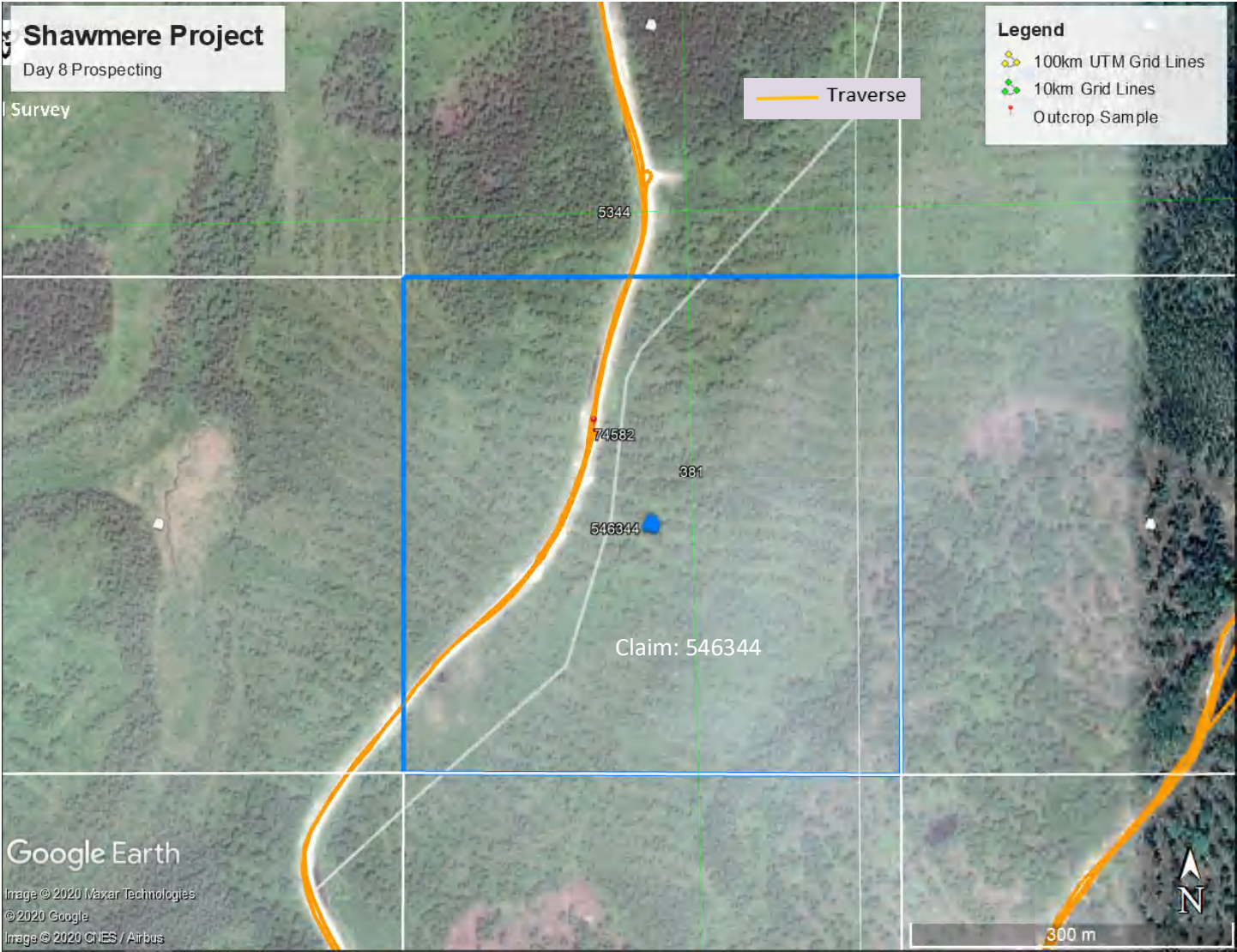
546344

Claim: 546344

Google Earth

Image © 2020 Maxar Technologies  
© 2020 Google  
Image © 2020 CNES / Airbus

300 m



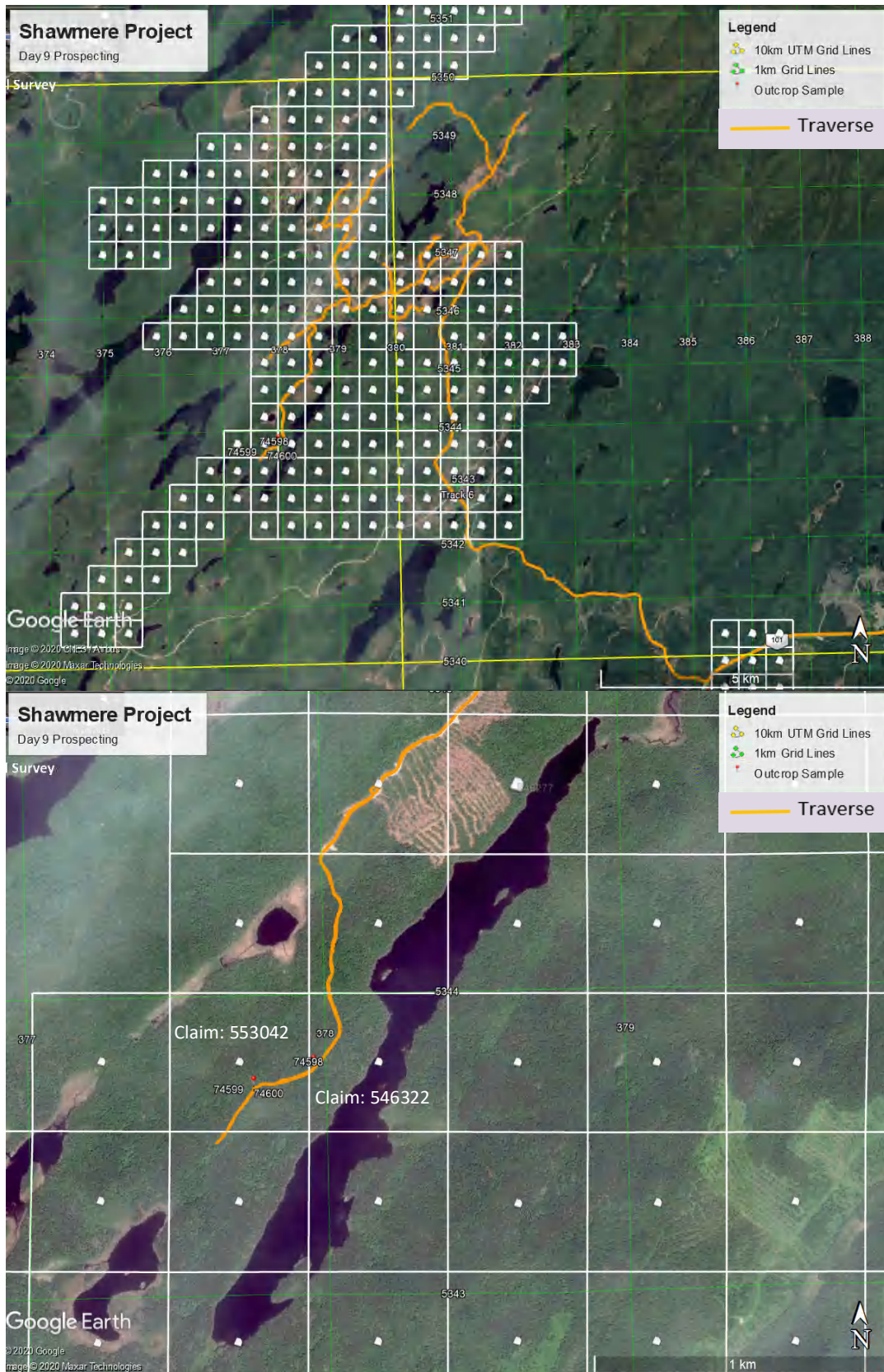
**Sample: 74582**  
**Claim 546344**  
**Zone: 17 U**  
**Easting: 380912**  
**Northing: 5343790**

grey anorthosite roadside. Has width potential...flat area



## Prospecting: June 18, 2019 - Day 9

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Day 9 prospecting focussed on claims 553042 & 546322. Three outcrop samples were collected.







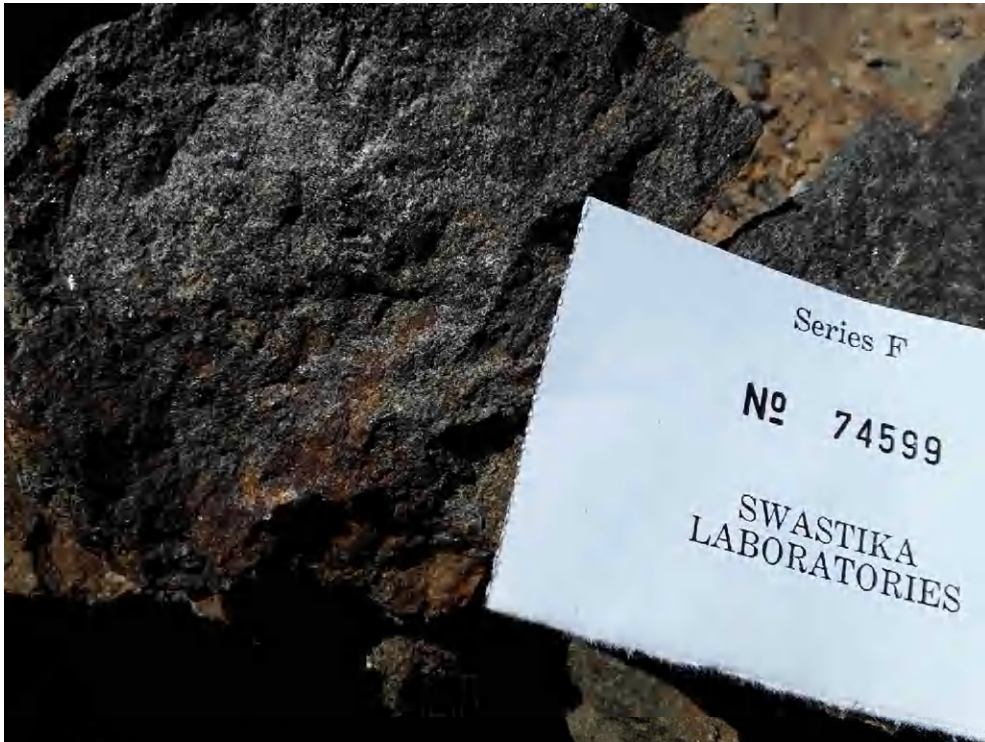
Sample: 74598  
Claim 546322  
Zone: 17 U  
Easting: 377961  
Northing: 5343757

rusty weathering gabbro in anorthosite, greenish mineral, olivine?



Sample: 74599  
Claim #: 553042  
Zone: 17 U  
Easting: 377758  
Northing: 5343696

coarser phase of gabbro/troctolite, rusty



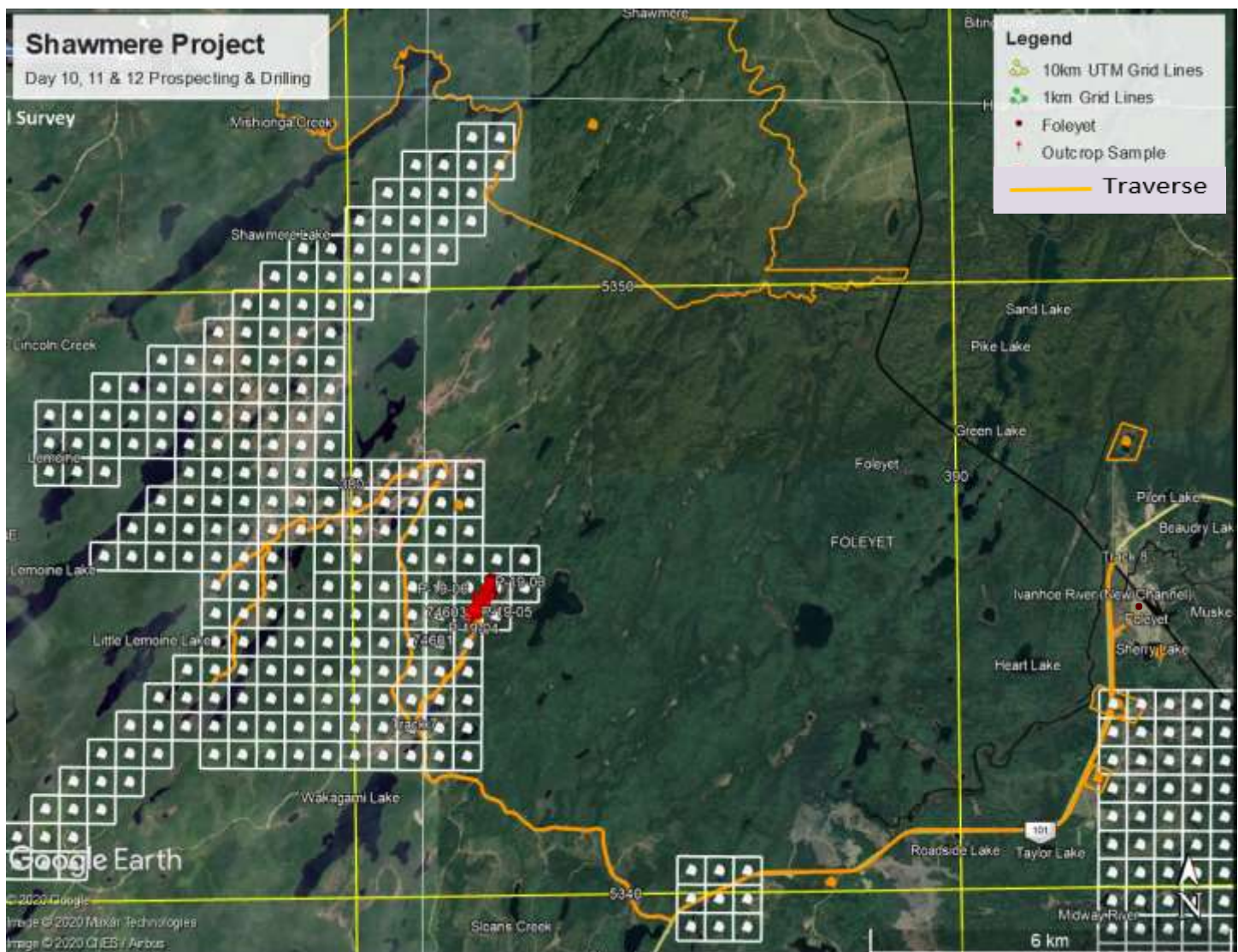
Sample: 74600  
Claim #: 553042  
Zone: 17 U  
Easting: 377760  
Northing: 5343691

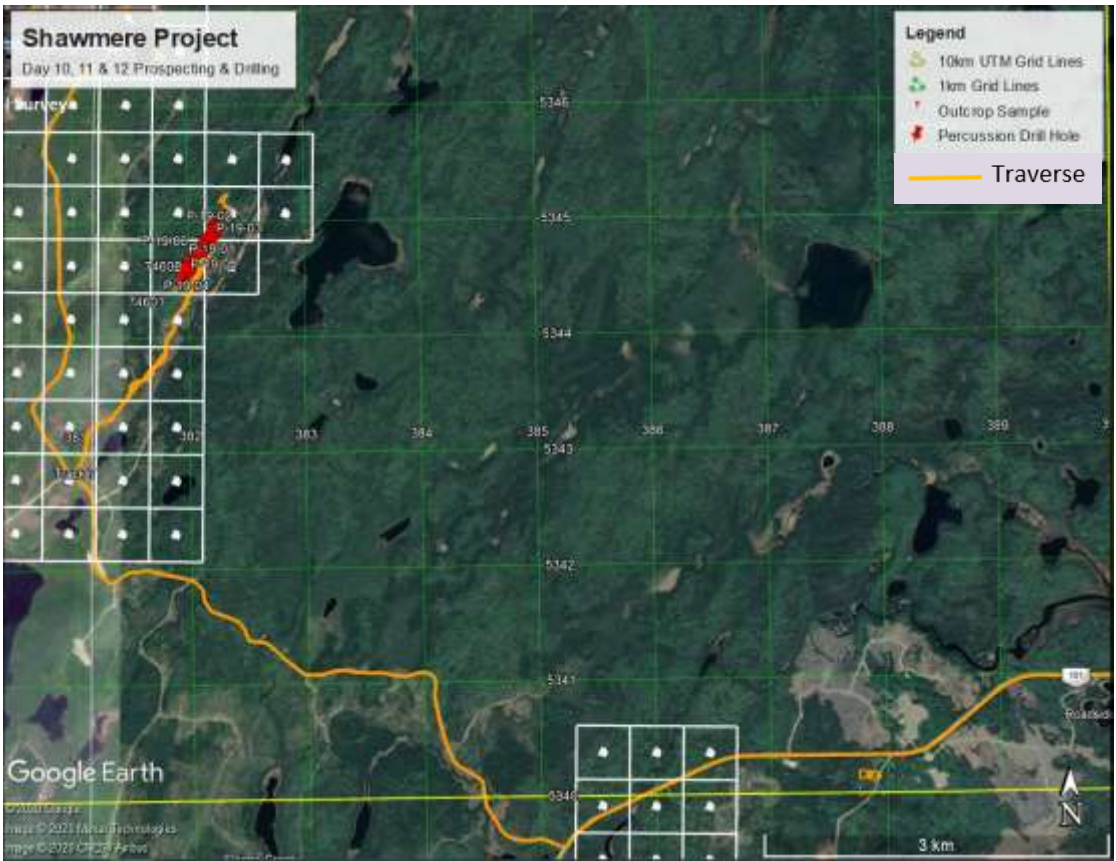
gabbro/troctolite phase of Shawmere

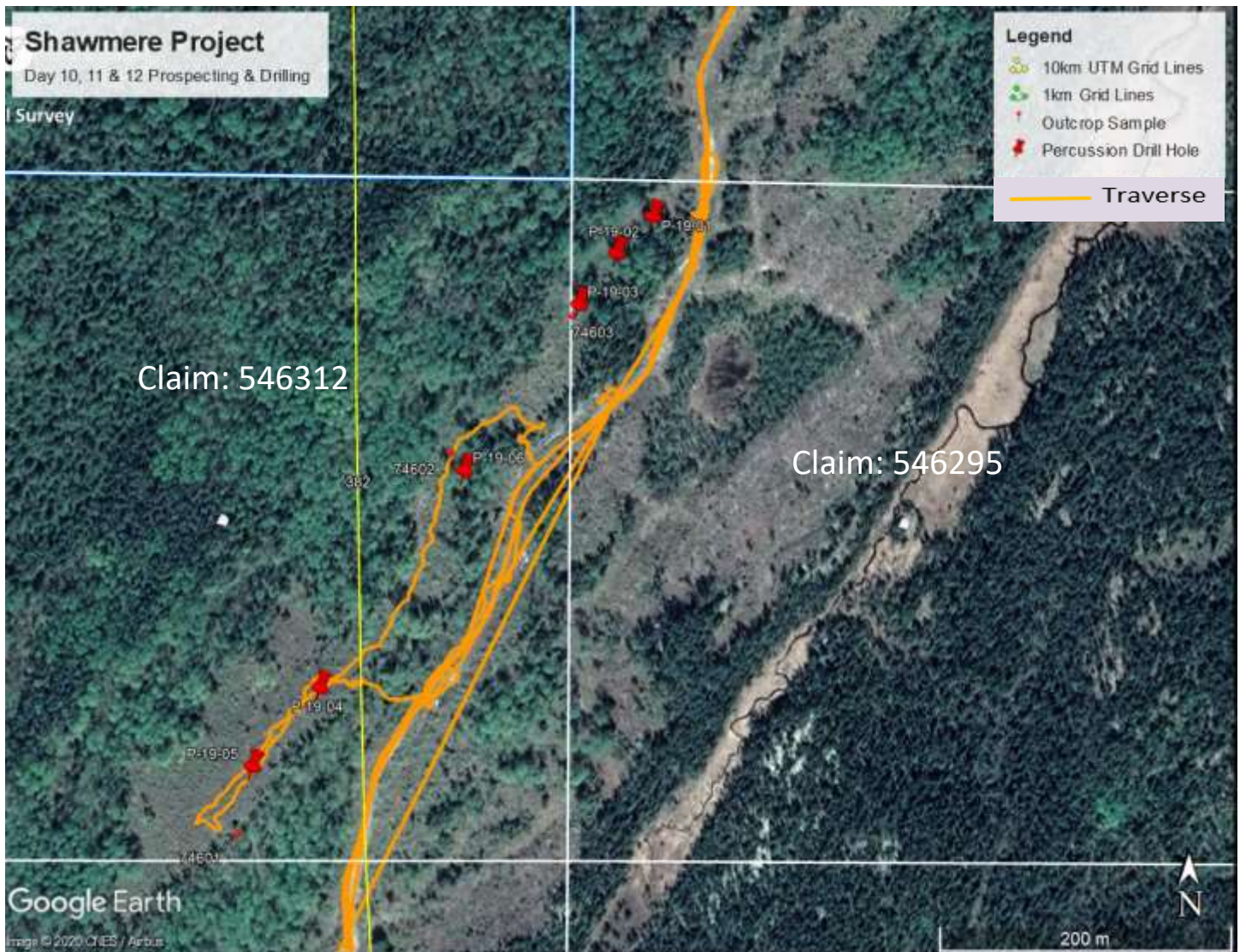


## Prospecting & Drilling: October 16-20 2019 - Day 10, 11 & 12

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Access is via pickup truck directly to sight. Following a successful prospecting program in the summer, we followed up with further prospecting and percussion drilling focussing on claims 546312 & 546295. Outcrop geochemical sampling analysis completed in the summer indicated the purity of the anorthosite (lower iron, sodium and magnesium) was favourable in this area and proximity to beneficial infrastructure logistics were also recognized. Three additional samples were collected and six percussion drill holes were completed in this area. Enviromine applied for and obtained Exploration Permit# PR-19-000226 to conduct the drilling. The percussion drilling was undertaken to provide a third dimension to the potential resource by ensuring geochemical consistency below surface based on previous outcrop sampling and favourable topography – a 30+ metre high ridge that runs along the logging roads for over 1 km. These parameters are in line with the objective of defining a large homogenous resource of high purity anorthosite with favourable property access and road logistics of operating low cost quarry mining operation.







**Day 10 (October 17) – three samples collected near drill collar locations**

**Sample: 74601**

**Claim: 546312**

**Zone: 17 U**

**Easting: 381916**

**Northing: 5344399**

anorthosite, white. top of ridge near edge. No overburden

**Sample: 74602**

**Claim: 546312**

**Zone: 17 U**

**Easting: 382062**

**Northing: 5344651**

anorthosite, grey/white. Extensive outcrop exposure 10m<sup>2</sup>+, Outcrop near planned drill location.

**Sample: 74603**

**Claim: 546295**

**Zone: 17 U**

**Easting: 382144**

**Northing: 5344742**

anorthosite, white. No overburden. Outcrop at planned drill location.

All percussion drilling was contracted to Vanguard Mining Corp. of South Porcupine Ontario using a CMAC Long Hole self propelled percussion Drill. All drill holes used a 64mm alloy steel and tungsten carbide tip drill bit. Each drill target location was clear of overburden and was exposed bedrock. Casings were capped and labelled using local fitted logs. Percussion drill samples were collected at each 1.2 metre interval as additional rods were added to the drill. Samples were sent to ALS Canada Ltd in Timmins Ontario for whole rock geochemical analysis. Drill samples are stored with ALS Canada in Timmins. Mike Tremblay oversaw the drilling carried out by Vanguard Mining.

### **Day 11 (October 18) – Percussion Drilling**

#### **Drill Hole: P-19-01**

Claim #: 546295  
Zone: 17 U  
Easting: 382197  
Northing: 5344809  
Dip: -90°, drill hole diameter: 64mm  
Length: 30.0 Metres

#### **Drill Hole: P-19-02**

Claim #: 546295  
Zone: 17 U  
Easting: 382172  
Northing: 5344784  
Dip: -90°, drill hole diameter: 64mm  
Length: 16.8 Metres

#### **Drill Hole: P-19-03**

Claim #: 546295  
Zone: 17 U  
Easting: 382146  
Northing: 5344749  
Dip: -90°, drill hole diameter: 64mm  
Length: 30.0 Metres

### **Day 12 (October 19) – Percussion Drilling**

#### **Drill Hole: P-19-04**

Claim #: 546312  
Zone: 17 U  
Easting: 381970  
Northing: 5344495  
Dip: -90°, drill hole diameter: 64mm  
Length: 31.2 Metres

#### **Drill Hole: P-19-05**

Claim #: 546312  
Zone: 17 U  
Easting: 381924  
Northing: 5344443  
Dip: -90°, drill hole diameter: 64mm  
Length: 24.0 Metres

**Drill Hole: P-19-06**

Claim #: 546312

Zone: 17 U

Easting: 382068

Northing: 5344638

Dip: -90°, drill hole diameter: 64mm

Length: 30 Metres

Drill hole P-19-01 outcrop exposure target location



Drill hole P-19-01 Percussion Drill rig setup





Drill hole P-19-01 Drilling into anorthosite. White rock grains indicate high purity anorthosite



Drill hole P-19-02 Casing capped



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## Drill Hole Summary Sheet

### Office Use Only

Folder Identification Number

Drill Hole Identification

### DRILL HOLE IDENTIFICATION

Name of Claim Holder or Mining Land Holder

Company Hole Identification Number

MNDM Core Library Identification (Office Use Only)

### CO-ORDINATE INFORMATION

Indicate method used to obtain drill hole location co-ordinate:

- Don't know
- GPS reading (Geographic Positioning System)
- MNDM CLAIMaps system
- NTS 1:250,000 map
- NTS 1:50,000 map
- Ontario OBM Series map
- Paper claim map
- Sketch map
- Surveyed co-ordinates
- Other

### DRILL HOLE COLLAR LOCATION CO-ORDINATES

Collar Location Co-ordinates. You may provide co-ordinates in UTM or Latitude and Longitude

Datum	NAD 27 or 83	83
UTM	Zone 15, 16, 17 or 18	17
UTM	Easting	382197
UTM	Northing	5344809
Latitude and longitude data (degrees/minutes/seconds or decimal values)	Latitude	
Latitude and longitude	Longitude	

data(degrees/minutes/seconds  
or decimal values)

**OTHER DRILL HOLE DATA**

Hole Type (examples percussion, diamond drill, underground)	Percussion
Year Drilled	October 15, 2019
Azimuth	
Dip	-90°
Length (metres)	30.0
Overburden Depth (metres)	0

**ELEMENTS PRESENT ABOVE DEFINED THRESHOLD LEVELS**

- none
  Silver - at least 35 grams per ton
  Nickel - at least 0.1%
- Gold - at least 3000 ppb
  Lead - at least 1.0%
- Gold - between 500 and 3000 ppb
  Platinum group elements - at least 500 ppb
- Copper - at least 0.1%
  Zinc - at least 0.25%

**TYPE OF LOGS ASSOCIATED WITH THIS DRILL HOLE**

- none
  geochemistry
  geophysics
- geology
  geochronology
  petrography

"Mining Lands Website: [http://www.mndm.gov.on.ca/mndm/mines/lands/default\\_e.asp](http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp)"

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Name of Claim Holder or Mining Land Holder

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### CO-ORDINATE INFORMATION

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- Don't know  
 GPS reading (Geographic Positioning System)  
 MNDM CLAIMaps system  
 NTS 1:250,000 map  
 NTS 1:50,000 map  
 Ontario OBM Series map  
 Paper claim map  
 Sketch map  
 Surveyed co-ordinates  
 Other

### DRILL HOLE COLLAR LOCATION CO-ORDINATES

Collar Location Co-ordinates. You may provide co-ordinates in UTM or Latitude and Longitude

Datum	NAD 27 or 83	83
UTM	Zone 15, 16, 17 or 18	17
UTM	Easting	382172
UTM	Northing	5344784
Latitude and longitude data (degrees/minutes/seconds or decimal values)	Latitude	
Latitude and longitude	Longitude	

data(degrees/minutes/seconds  
or decimal values)

**OTHER DRILL HOLE DATA**

Hole Type (examples percussion, diamond drill, underground)	Percussion
Year Drilled	October 15, 2019
Azimuth	
Dip	-90°
Length (metres)	16.8
Overburden Depth (metres)	0

**ELEMENTS PRESENT ABOVE DEFINED THRESHOLD LEVELS**

- none
  Silver - at least 35 grams per ton
  Nickel - at least 0.1%
- Gold - at least 3000 ppb
  Lead - at least 1.0%
- Gold - between 500 and 3000 ppb
  Platinum group elements - at least 500 ppb
- Copper - at least 0.1%
  Zinc - at least 0.25%

**TYPE OF LOGS ASSOCIATED WITH THIS DRILL HOLE**

- none
  geochemistry
  geophysics
- geology
  geochronology
  petrography

"Mining Lands Website: [http://www.mndm.gov.on.ca/mndm/mines/lands/default\\_e.asp](http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp)"

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## Drill Hole Summary Sheet

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Drill Hole Identification

### DRILL HOLE IDENTIFICATION

Name of Claim Holder or Mining Land Holder

Company Hole Identification Number

MNDM Core Library Identification (**Office Use Only**)

### CO-ORDINATE INFORMATION

Indicate method used to obtain drill hole location co-ordinate:

- Don't know  
 GPS reading (Geographic Positioning System)  
 MNDM CLAIMaps system  
 NTS 1:250,000 map  
 NTS 1:50,000 map  
 Ontario OBM Series map  
 Paper claim map  
 Sketch map  
 Surveyed co-ordinates  
 Other

### DRILL HOLE COLLAR LOCATION CO-ORDINATES

**Collar Location Co-ordinates. You may provide co-ordinates in UTM or Latitude and Longitude**

Datum	NAD 27 or 83	83
UTM	Zone 15, 16, 17 or 18	17
UTM	Easting	382146
UTM	Northing	5344749
Latitude and longitude data (degrees/minutes/seconds or decimal values)	Latitude	
Latitude and longitude	Longitude	

data(degrees/minutes/seconds  
or decimal values)

**OTHER DRILL HOLE DATA**

Hole Type (examples percussion, diamond drill, underground)	Percussion
Year Drilled	October 15, 2019
Azimuth	
Dip	-90°
Length (metres)	30
Overburden Depth (metres)	0

**ELEMENTS PRESENT ABOVE DEFINED THRESHOLD LEVELS**

- none
  Silver - at least 35 grams per ton
  Gold - at least 3000 ppb
  Gold - between 500 and 3000 ppb
  Copper - at least 0.1%
  Nickel - at least 0.1%
  Lead - at least 1.0%
  Platinum group elements - at least 500 ppb
  Zinc - at least 0.25%

**TYPE OF LOGS ASSOCIATED WITH THIS DRILL HOLE**

- none
  geochemistry
  geochronology
  geophysics
  petrography
  geology

"Mining Lands Website: [http://www.mndm.gov.on.ca/mndm/mines/lands/default\\_e.asp](http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp)"

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### DRILL HOLE IDENTIFICATION

Name of Claim Holder or Mining Land Holder

Company Hole Identification Number

MNDM Core Library Identification (Office Use Only)

### CO-ORDINATE INFORMATION

Indicate method used to obtain drill hole location co-ordinate:

- Don't know
- GPS reading (Geographic Positioning System)
- MNDM CLAIMaps system
- NTS 1:250,000 map
- NTS 1:50,000 map
- Ontario OBM Series map
- Paper claim map
- Sketch map
- Surveyed co-ordinates
- Other

### DRILL HOLE COLLAR LOCATION CO-ORDINATES

Collar Location Co-ordinates. You may provide co-ordinates in UTM or Latitude and Longitude

Datum	NAD 27 or 83	83
UTM	Zone 15, 16, 17 or 18	17
UTM	Easting	381970
UTM	Northing	5344495
Latitude and longitude data (degrees/minutes/seconds or decimal values)	Latitude	
Latitude and longitude	Longitude	



data(degrees/minutes/seconds  
or decimal values)

**OTHER DRILL HOLE DATA**

Hole Type (examples percussion, diamond drill, underground)	Percussion
Year Drilled	October 15, 2019
Azimuth	
Dip	-90°
Length (metres)	31.2
Overburden Depth (metres)	0

**ELEMENTS PRESENT ABOVE DEFINED THRESHOLD LEVELS**

- none
  Silver - at least 35 grams per ton
  Gold - at least 3000 ppb
  Gold - between 500 and 3000 ppb
  Copper - at least 0.1%
  Nickel - at least 0.1%
  Lead - at least 1.0%
  Platinum group elements - at least 500 ppb
  Zinc - at least 0.25%

**TYPE OF LOGS ASSOCIATED WITH THIS DRILL HOLE**

- none
  geochemistry
  geochronology
  geophysics
  petrography
  geology

"Mining Lands Website: [http://www.mndm.gov.on.ca/mndm/mines/lands/default\\_e.asp](http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp)"

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## Drill Hole Summary Sheet

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Folder Identification Number

Drill Hole Identification

### DRILL HOLE IDENTIFICATION

Name of Claim Holder or Mining Land Holder

Company Hole Identification Number

MNDM Core Library Identification (Office Use Only)

### CO-ORDINATE INFORMATION

Indicate method used to obtain drill hole location co-ordinate:

- Don't know
- GPS reading (Geographic Positioning System)
- MNDM CLAIMaps system
- NTS 1:250,000 map
- NTS 1:50,000 map
- Ontario OBM Series map
- Paper claim map
- Sketch map
- Surveyed co-ordinates
- Other

### DRILL HOLE COLLAR LOCATION CO-ORDINATES

Collar Location Co-ordinates. You may provide co-ordinates in UTM or Latitude and Longitude

Datum	NAD 27 or 83	83
UTM	Zone 15, 16, 17 or 18	17
UTM	Easting	381924
UTM	Northing	5344443
Latitude and longitude data (degrees/minutes/seconds or decimal values)	Latitude	
Latitude and longitude	Longitude	

data(degrees/minutes/seconds  
or decimal values)

**OTHER DRILL HOLE DATA**

Hole Type (examples percussion, diamond drill, underground)	Percussion
Year Drilled	October 15, 2019
Azimuth	
Dip	-90°
Length (metres)	24
Overburden Depth (metres)	0

**ELEMENTS PRESENT ABOVE DEFINED THRESHOLD LEVELS**

- none
  Silver - at least 35 grams per ton
  Nickel - at least 0.1%
- Gold - at least 3000 ppb
  Lead - at least 1.0%
- Gold - between 500 and 3000 ppb
  Platinum group elements - at least 500 ppb
- Copper - at least 0.1%
  Zinc - at least 0.25%

**TYPE OF LOGS ASSOCIATED WITH THIS DRILL HOLE**

- none
  geochemistry
  geophysics
- geology
  geochronology
  petrography

"Mining Lands Website: [http://www.mndm.gov.on.ca/mndm/mines/lands/default\\_e.asp](http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp)"

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## Drill Hole Summary Sheet

### Office Use Only

Folder Identification Number

Drill Hole Identification

### DRILL HOLE IDENTIFICATION

Name of Claim Holder or Mining Land Holder

Company Hole Identification Number

MNDM Core Library Identification (Office Use Only)

### CO-ORDINATE INFORMATION

Indicate method used to obtain drill hole location co-ordinate:

- Don't know
- GPS reading (Geographic Positioning System)
- MNDM CLAIMaps system
- NTS 1:250,000 map
- NTS 1:50,000 map
- Ontario OBM Series map
- Paper claim map
- Sketch map
- Surveyed co-ordinates
- Other

### DRILL HOLE COLLAR LOCATION CO-ORDINATES

Collar Location Co-ordinates. You may provide co-ordinates in UTM or Latitude and Longitude

Datum	NAD 27 or 83	83
UTM	Zone 15, 16, 17 or 18	17
UTM	Easting	382068
UTM	Northing	5344638
Latitude and longitude data (degrees/minutes/seconds or decimal values)	Latitude	
Latitude and longitude	Longitude	

data(degrees/minutes/seconds  
or decimal values)

**OTHER DRILL HOLE DATA**

Hole Type (examples percussion, diamond drill, underground)	Percussion
Year Drilled	October 15, 2019
Azimuth	
Dip	-90°
Length (metres)	30
Overburden Depth (metres)	0

**ELEMENTS PRESENT ABOVE DEFINED THRESHOLD LEVELS**

- none
  Silver - at least 35 grams per ton
  Gold - at least 3000 ppb
  Gold - between 500 and 3000 ppb
  Copper - at least 0.1%
  Nickel - at least 0.1%
  Lead - at least 1.0%
  Platinum group elements - at least 500 ppb
  Zinc - at least 0.25%

**TYPE OF LOGS ASSOCIATED WITH THIS DRILL HOLE**

- none
  geochemistry
  geochronology
  geophysics
  petrography
  geology

"Mining Lands Website: [http://www.mndm.gov.on.ca/mndm/mines/lands/default\\_e.asp](http://www.mndm.gov.on.ca/mndm/mines/lands/default_e.asp)"

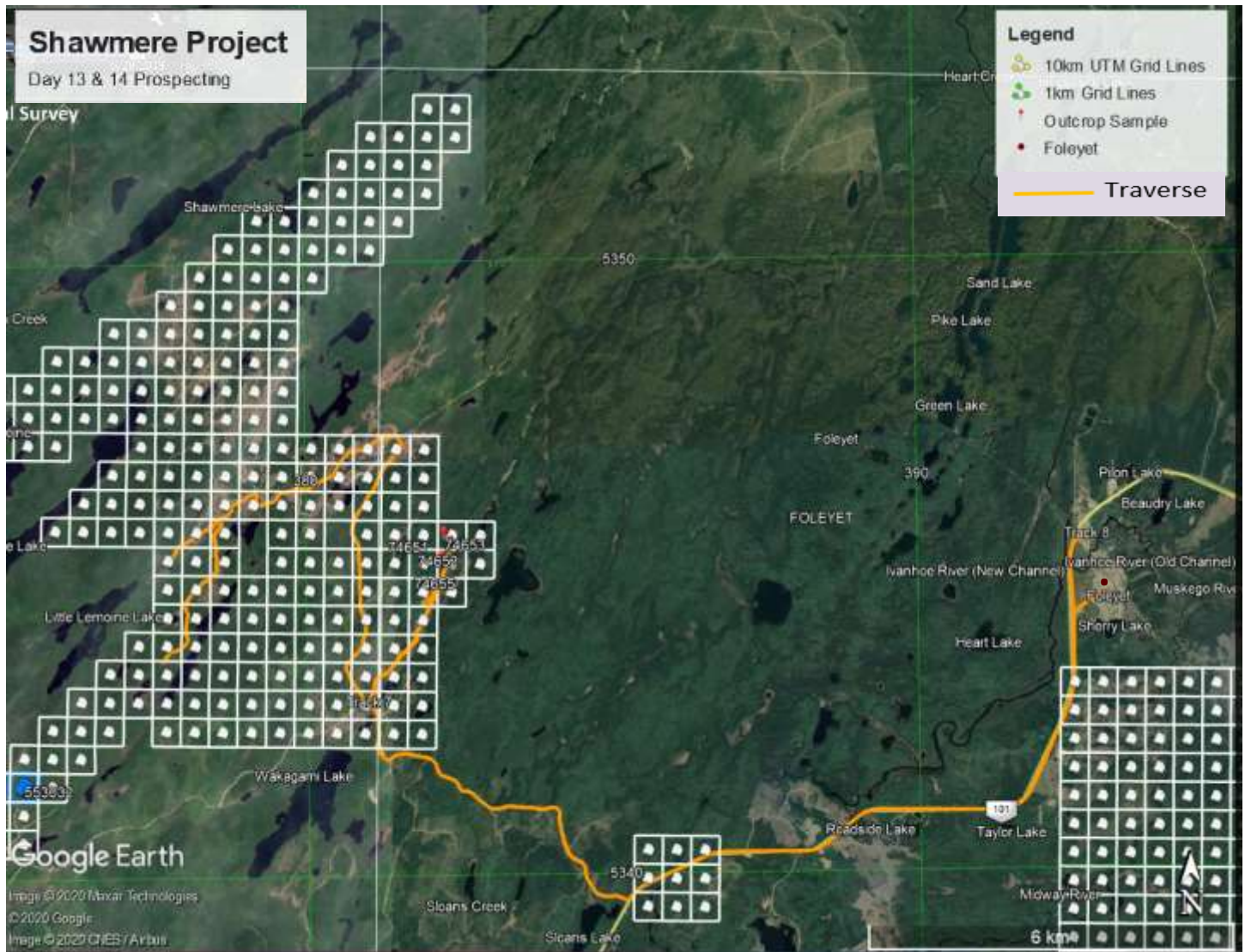
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## Prospecting: December 27 2019 - Day 13 & 14

Prospecting for high purity anorthosite (high alumina, calcium, silica with low mafic content). From highway 101, south-east of the EnviroMine Claims, access to the property is along well maintained logging roads (Road 1002) that are quite extensive through the property. Access in December was via pickup truck and snowmobile. Following a successful prospecting and drilling program in the summer and fall, we followed up with further prospecting to the north and east of claims 546312 & 546295 and focussed on claims 546320 & 546304. The sampling and drilling work completed earlier indicated the purity of the anorthosite (lower iron and magnesium) increased as we moved to the north and east. Five additional samples were collected on December 27 & 28 to determine if this trend continued and to help identify the next drill program.







**Day 13 –three samples taken from same ridge face that runs at least 35 metres in length**

**Sample: 74651**

**Claim: 546304**

**Zone: 17 U**

**Easting: 382260**

**Northing: 5345415**

anorthosite, cliff exposure, 20+m tall, exposed, high purity, white – white/grey

**Sample: 74652**

**Claim: 546304**

**Zone: 17 U**

**Easting: 382273**

**Northing: 5345426**

anorthosite, cliff exposure, 20+m tall, exposed, high purity, white – white/grey

**Sample: 74653**

**Claim: 546304**

**Zone: 17 U**

**Easting: 382266**

**Northing: 5345452**

anorthosite, cliff exposure, 20+m tall, exposed, high purity, white – white/grey



**Day 14 –two samples**

**Sample: 74654**

**Claim #: 534066**

**Zone: 17 U**

**Easting: 382370**

**Northing: 5345292**

Slightly exposed, minimal snow cover, elevated outcrop from surroundings. white/grey anorthosite

**Sample: 74655**

**Claim #: 534066**

**Zone: 17 U**

**Easting: 382214**

**Northing: 5345055**

some snow cover, elevated but flatter, outcrop, dipping from east. Greyish-pure anorthosite

Claim #546304: Ridge: samples 74651, 74652 & 74653 were collected





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: ENVIROMINE INC.  
 133 RICHMOND ST. W.  
 SUITE 501  
 TORONTO ON M5H 2L3

Page: 1  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 19-JUL-2019  
 Account: EIKLDXVN

**CERTIFICATE TM19164098**

Project: SHAWMERE

This report is for 36 Rock samples submitted to our lab in Timmins, ON, Canada on 28-JUN-2019.

The following have access to data associated with this certificate:

JON ARMES	ANDREW GLATZMAYER	ACCOUNTS PAYABLE
-----------	-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS23	Pt, Pd, Au 30g FA ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: ENVIROMINE INC.  
 133 RICHMOND ST. W.  
 SUITE 501  
 TORONTO ON M5H 2L3

Page: 2 - A  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 19-JUL-2019  
 Account: EIKLDXVN

Project: SHAWMERE

**CERTIFICATE OF ANALYSIS TM19164098**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %
	LOD	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01	0.01
74551		1.82	48.4	32.0	1.06	15.50	0.45	2.15	0.07	<0.002	0.03	0.01	0.02	0.02	<0.01	0.40
74552		3.42	48.8	31.2	1.28	15.15	0.39	2.40	0.07	<0.002	0.06	0.02	<0.01	0.02	<0.01	0.40
74553		1.66	48.3	31.4	1.31	15.20	0.45	2.23	0.11	<0.002	0.07	0.02	0.02	0.02	<0.01	0.96
74554		2.84	49.5	31.6	1.15	15.15	0.32	2.24	0.06	<0.002	0.05	0.01	0.03	0.02	<0.01	0.91
74555		2.37	47.4	32.6	0.66	16.15	0.13	1.81	0.05	0.002	0.01	0.01	0.02	0.02	<0.01	0.72
74556		0.81	48.7	30.8	1.75	14.80	0.77	2.36	0.07	0.004	0.05	0.03	0.01	0.02	<0.01	1.42
74557		1.70	49.3	31.5	1.05	15.05	0.34	2.65	0.22	<0.002	0.04	0.02	0.03	0.03	<0.01	1.66
74558		3.13	49.1	31.1	1.38	15.10	0.25	2.66	0.10	<0.002	0.05	0.02	0.03	0.02	<0.01	1.14
74559		1.61	49.1	30.7	1.31	14.85	0.30	2.38	0.10	<0.002	0.07	0.02	0.01	0.02	<0.01	0.41
74560		0.81	47.5	30.7	1.21	14.95	0.35	2.29	0.05	0.002	0.06	0.01	0.01	0.02	<0.01	0.94
74561		2.32	48.2	31.7	1.16	15.50	0.34	2.54	0.09	<0.002	0.06	0.01	0.01	0.02	<0.01	0.86
74562		1.60	48.7	30.7	1.79	14.90	0.97	2.14	0.07	0.004	0.08	0.02	0.02	0.02	<0.01	0.87
74563		3.65	48.3	30.6	2.01	14.90	0.73	2.03	0.12	<0.002	0.17	0.03	0.03	0.02	0.01	1.49
74564		2.60	48.7	30.9	1.68	15.40	0.66	2.07	0.09	0.004	0.06	0.02	<0.01	0.02	<0.01	0.60
74565		1.94	49.0	31.3	1.08	15.15	0.26	2.20	0.05	<0.002	0.06	0.01	<0.01	0.02	<0.01	0.66
74566		1.25	49.6	31.8	1.10	15.30	0.33	2.33	0.07	<0.002	0.04	0.01	0.01	0.02	<0.01	0.37
74567		2.03	48.4	31.6	1.21	15.25	0.31	2.34	0.11	<0.002	0.06	0.01	0.01	0.02	<0.01	0.49
74568		3.81	48.5	31.1	1.30	14.60	0.22	2.30	0.06	<0.002	0.04	0.02	0.01	0.02	<0.01	1.12
74569		2.62	48.0	30.7	1.42	15.20	0.58	2.29	0.09	0.002	0.06	0.02	0.01	0.02	<0.01	1.29
74570		2.31	48.4	31.4	1.73	15.40	0.54	2.36	0.09	0.004	0.08	0.02	0.01	0.03	0.01	0.57
74571		1.88	47.7	30.5	2.19	14.90	1.07	2.21	0.08	<0.002	0.16	0.03	0.02	0.02	<0.01	0.46
74572		3.37	48.1	30.9	1.75	15.25	0.91	2.15	0.08	0.003	0.10	0.02	<0.01	0.02	<0.01	0.40
74573		2.59	49.3	30.4	1.29	14.60	0.56	2.26	0.07	0.003	0.06	0.01	0.01	0.02	<0.01	0.69
74574		2.79	49.2	31.7	0.98	15.05	0.32	2.49	0.06	<0.002	0.03	0.02	0.01	0.03	<0.01	0.30
74575		2.61	49.3	27.1	2.94	13.05	3.18	2.45	0.04	0.006	0.16	0.04	0.03	0.02	<0.01	1.89
74576		4.74	47.0	33.0	0.58	16.40	0.13	1.56	0.02	0.002	0.01	0.01	0.01	0.02	<0.01	0.76
74577		1.60	48.3	28.9	2.44	14.70	2.08	2.18	0.08	0.015	0.12	0.03	0.02	0.02	<0.01	0.63
74578		2.21	48.6	30.9	0.97	13.55	0.24	2.54	0.16	<0.002	0.03	0.01	0.02	0.02	0.01	4.07
74579		2.76	47.2	29.9	1.32	14.65	0.54	2.29	0.09	0.003	0.06	0.02	0.01	0.02	<0.01	2.22
74580		3.68	48.2	30.0	1.26	14.30	0.44	2.36	0.09	0.002	0.07	0.02	0.01	0.02	<0.01	1.39
74581		3.59	48.5	30.1	1.67	14.70	1.37	2.37	0.15	0.007	0.07	0.02	0.01	0.03	0.01	0.45
74582		0.89	48.7	31.6	0.66	14.75	0.23	2.41	0.08	<0.002	0.02	0.01	0.02	0.03	0.01	0.53
74597		1.24	34.4	6.87	12.45	9.74	13.70	2.61	1.52	0.106	2.86	0.16	0.26	0.06	0.06	14.45
74598		2.60	46.4	15.60	12.35	9.42	6.95	2.44	0.51	0.016	1.21	0.18	0.14	0.03	0.03	6.07
74599		2.69	49.2	15.80	14.65	9.44	6.73	2.96	0.77	0.013	1.60	0.20	0.20	0.03	0.04	-0.25
74600		1.42	49.0	16.50	13.10	9.96	7.55	2.79	0.54	0.017	1.29	0.19	0.14	0.03	0.03	-0.10



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Page: 2 - B  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 19-JUL-2019  
 Account: EIKLDXVN

Project: SHAWMERE

**CERTIFICATE OF ANALYSIS TM19164098**

Sample Description	Method Analyte Units LOD	TOT-ICP06	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Total %	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.01	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002
74551		100.11														
74552		99.79														
74553		100.09														
74554		101.04														
74555		99.58														
74556		100.78														
74557		101.89														
74558		100.95														
74559		99.27														
74560		98.09														
74561		100.49														
74562		100.28														
74563		100.44														
74564		100.20														
74565		99.79														
74566		100.98														
74567		99.81														
74568		99.29														
74569		99.68														
74570		100.64														
74571		99.34														
74572		99.68														
74573		99.27														
74574		100.19														
74575		100.21														
74576		99.50														
74577		99.52														
74578		101.12														
74579		98.32														
74580		98.16														
74581		99.46														
74582		99.05														
74597		99.25	0.072	3.42	0.29	470	2.16	0.053	6.27	0.144	107.0	78.4	505	1.23	122.0	8.05
74598		101.35	0.048	7.89	0.18	263	0.46	0.006	6.33	0.111	25.4	57.5	88.9	0.26	73.9	8.16
74599		101.38	0.029	7.79	0.20	321	0.64	0.016	6.14	0.108	36.2	56.6	68.0	0.30	93.5	9.41
74600		101.04	0.028	8.24	0.16	244	0.46	0.005	6.56	0.096	25.2	58.6	88.2	0.18	75.1	8.55



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Page: 2 - C  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 19-JUL-2019  
 Account: EIKLDXVN

Project: SHAWMERE

<b>CERTIFICATE OF ANALYSIS TM19164098</b>
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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
74551		0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
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74597		12.70	0.19	5.78	0.040	1.18	47.4	6.4	7.89	1095	1.27	1.815	50.5	634	0.110	18.35
74598		18.80	0.11	1.955	0.044	0.39	10.95	4.9	3.96	1220	0.46	1.750	7.56	122.5	0.059	6.74
74599		20.9	0.13	2.87	0.066	0.56	15.20	6.8	3.71	1355	0.60	2.04	10.45	98.4	0.085	2.40
74600		18.75	0.14	2.18	0.056	0.42	10.85	6.6	4.27	1260	0.48	1.955	7.45	129.0	0.062	1.82

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



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Page: 2 - D  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 19-JUL-2019  
 Account: EIKLDXVN

Project: SHAWMERE

**CERTIFICATE OF ANALYSIS TM19164098**

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
74551		0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
74552																
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74597		53.7	<0.0004	0.45	0.18	19.40	0.231	1.66	539	3.05	0.122	3.94	1.565	0.280	0.83	204
74598		9.36	0.0006	0.06	0.02	28.5	0.154	0.69	305	0.42	<0.005	0.973	0.696	0.039	0.21	198.5
74599		18.25	0.0005	0.03	<0.02	30.7	0.175	0.96	301	0.60	<0.005	1.435	0.887	0.051	0.31	220
74600		10.30	0.0007	0.06	0.02	28.5	0.167	0.71	311	0.42	<0.005	1.015	0.719	0.039	0.22	204

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Page: 2 - E  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 19-JUL-2019  
 Account: EIKLDXVN

Project: SHAWMERE

<b>CERTIFICATE OF ANALYSIS TM19164098</b>
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	Method Analyte Units LOD	ME-MS61L W ppm 0.008	ME-MS61L Y ppm 0.01	ME-MS61L Zn ppm 0.2	ME-MS61L Zr ppm 0.1	PGM-MS23 Au ppm 0.001	PGM-MS23 Pt ppm 0.0005	PGM-MS23 Pd ppm 0.001
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74580								
74581								
74582								
74597		1.165	17.25	82.3	214	0.004	0.0033	0.002
74598		0.117	19.80	77.8	76.6	0.002	<0.0005	<0.001
74599		0.192	26.5	114.5	111.0	0.002	0.0006	<0.001
74600		0.123	20.3	101.0	85.7	0.002	<0.0005	<0.001



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 19-JUL-2019  
Account: EIKLDXVN

Project: SHAWMERE

**CERTIFICATE OF ANALYSIS TM19164098**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	ME-ICP06	ME-MS61L	OA-GRA05
	TOT-ICP06		PGM-MS23
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.		
	CRU-31	CRU-QC	LOG-22
	PUL-QC	SPL-21	WEI-21
			PUL-31





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Page: 1  
 Total # Pages: 2 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 6-NOV-2019  
 Account: EIKLDXVN

**CERTIFICATE TM19275348**

Project: CALCIUM FELDSPAR

This report is for 25 Percussion samples submitted to our lab in Timmins, ON, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

JON ARMES	ANDREW GLATZMAYER	ACCOUNTS PAYABLE
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES

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

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

**Signature:**   
 Saa Traxler, General Manager, North Vancouver



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Page: 2 - A  
 Total # Pages: 2 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 6-NOV-2019  
 Account: EIKLDXVN

Project: CALCIUM FELDSPAR

**CERTIFICATE OF ANALYSIS TM19275348**

Sample Description	Method Analyte Units LOD	WEI-21	TOT-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Total %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
40190		2.36	100.35	47.2	29.2	2.60	15.00	1.94	2.22	0.23	0.009	0.12	0.03	0.01	0.03	0.01
40191		2.12	100.04	46.8	30.3	1.93	15.30	1.43	2.18	0.10	0.011	0.08	0.03	0.01	0.03	<0.01
40192		3.39	99.90	45.4	30.0	2.83	15.60	1.70	2.12	0.13	0.010	0.14	0.04	<0.01	0.04	<0.01
40193		4.26	100.63	46.5	27.7	4.62	14.45	2.29	2.72	0.12	0.005	0.14	0.03	<0.01	0.03	<0.01
40194		3.74	100.90	45.0	31.0	2.37	16.55	1.39	1.87	0.08	0.010	0.09	0.04	<0.01	0.04	<0.01
40195		4.07	100.50	46.3	29.3	3.12	14.90	2.10	2.45	0.12	0.011	0.17	0.04	0.01	0.04	<0.01
40196		3.93	100.50	46.3	31.1	2.01	15.80	1.31	2.16	0.07	0.007	0.07	0.03	0.02	0.04	<0.01
40197		4.28	100.02	46.1	29.3	2.27	15.45	1.80	2.38	0.10	0.013	0.09	0.03	<0.01	0.03	<0.01
40198		4.21	100.35	45.0	30.4	1.95	15.60	1.07	2.11	0.08	0.008	0.07	0.02	0.01	0.03	<0.01
40199		3.67	100.44	44.4	26.9	2.90	14.80	2.36	2.72	0.09	0.014	0.11	0.04	<0.01	0.03	<0.01
40200		4.02	100.74	46.7	28.7	2.64	14.80	2.23	2.68	0.08	0.009	0.08	0.04	<0.01	0.03	<0.01
40201		4.05	100.99	47.1	28.3	2.47	14.85	2.03	2.73	0.08	0.011	0.09	0.03	<0.01	0.02	<0.01
40202		3.11	100.72	45.7	29.4	2.56	15.75	2.04	2.25	0.08	0.013	0.09	0.03	0.01	0.03	<0.01
40203		3.61	100.47	43.5	29.1	3.35	16.75	2.33	1.82	0.07	0.022	0.13	0.05	<0.01	0.04	<0.01
40204		2.87	101.27	46.5	29.6	2.66	15.95	2.04	2.28	0.08	0.014	0.10	0.03	0.01	0.04	<0.01
40205		3.98	101.15	47.5	29.8	2.04	15.65	1.26	2.61	0.07	0.011	0.09	0.03	<0.01	0.02	<0.01
40206		4.23	101.10	47.3	29.2	2.17	15.70	1.63	2.58	0.05	0.015	0.08	0.03	<0.01	0.03	<0.01
40207		2.32	101.03	46.9	29.1	2.35	15.85	1.74	2.48	0.08	0.020	0.10	0.03	<0.01	0.03	<0.01
40208		3.63	100.76	45.0	29.7	3.25	16.35	2.05	2.15	0.10	0.027	0.13	0.04	0.01	0.05	<0.01
40209		3.05	100.72	46.2	30.1	2.39	15.90	1.43	2.45	0.08	0.016	0.09	0.03	0.01	0.05	<0.01
40210		3.47	101.56	46.9	29.9	2.85	15.80	2.23	2.49	0.09	0.021	0.12	0.04	0.01	0.04	<0.01
40211		2.53	101.49	46.1	30.0	2.55	16.25	1.84	2.28	0.08	0.025	0.11	0.03	<0.01	0.05	<0.01
40212		3.94	101.18	45.9	29.8	3.12	16.15	2.31	2.30	0.10	0.021	0.12	0.04	0.01	0.04	<0.01
40213		3.97	101.36	45.1	30.1	2.97	17.65	2.10	1.97	0.07	0.030	0.13	0.04	<0.01	0.05	<0.01
40214		4.51	101.89	47.1	30.5	2.51	16.45	1.68	2.43	0.09	0.020	0.11	0.03	0.01	0.05	<0.01



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Page: 2 - B  
Total # Pages: 2 (A - B)  
Plus Appendix Pages  
Finalized Date: 6-NOV-2019  
Account: EIKLDXVN

Project: CALCIUM FELDSPAR

**CERTIFICATE OF ANALYSIS TM19275348**

Sample Description	Method Analyte Units LOD	OA-GRA05 LOI % 0.01
40190		1.75
40191		1.84
40192		1.89
40193		4.02
40194		2.46
40195		1.94
40196		1.58
40197		2.46
40198		4.00
40199		6.08
40200		2.75
40201		3.28
40202		2.77
40203		3.31
40204		1.97
40205		2.07
40206		2.31
40207		2.35
40208		1.90
40209		1.97
40210		1.07
40211		2.17
40212		1.27
40213		1.15
40214		0.91



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 6-NOV-2019  
Account: EIKLDXVN

Project: CALCIUM FELDSPAR

**CERTIFICATE OF ANALYSIS TM19275348**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. ME-ICP06	OA-GRA05	TOT-ICP06	
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada. CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	



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Page: 1  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

**CERTIFICATE TM19275373**

Project: CALCIUM FELDSPAR

This report is for 68 Percussion samples submitted to our lab in Timmins, ON, Canada on 31-OCT-2019.

The following have access to data associated with this certificate:

JON ARMES	ANDREW GLATZMAYER	ACCOUNTS PAYABLE
-----------	-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES

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

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

**Signature:**   
 Saa Traxler, General Manager, North Vancouver



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Page: 2 - A  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

Project: CALCIUM FELDSPAR

**CERTIFICATE OF ANALYSIS TM19275373**

Sample Description	Method	WEI-21	TOT-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	Recvd Wt.	Total	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
40151		3.24	99.41	47.5	29.8	2.00	15.45	1.19	2.10	0.06	0.002	0.06	0.02	<0.01	0.02	<0.01
40152		2.87	99.21	47.5	30.8	1.26	15.45	0.47	2.17	0.06	0.002	0.04	0.02	<0.01	0.02	<0.01
40153		2.73	98.26	46.3	30.1	1.12	15.00	0.42	2.12	0.06	0.002	0.04	0.01	0.01	0.02	<0.01
40154		3.22	98.65	46.9	30.5	1.15	15.35	0.37	2.04	0.06	<0.002	0.05	0.01	0.01	0.02	<0.01
40155		2.85	98.29	47.1	30.4	1.13	15.30	0.39	2.09	0.07	<0.002	0.05	0.01	<0.01	0.02	<0.01
40156		2.41	99.25	47.8	30.6	1.16	14.85	0.48	2.25	0.11	<0.002	0.05	0.01	0.01	0.02	<0.01
40157		3.49	99.18	47.4	30.4	1.09	14.90	0.43	2.34	0.08	<0.002	0.05	0.01	<0.01	0.03	<0.01
40158		2.08	99.64	47.9	31.0	0.95	15.25	0.27	2.27	0.08	<0.002	0.04	0.01	<0.01	0.02	<0.01
40159		3.51	99.46	47.6	30.7	1.12	15.45	0.36	2.28	0.06	<0.002	0.04	0.01	<0.01	0.02	<0.01
40160		2.87	99.24	46.7	30.7	1.01	15.25	0.28	2.14	0.06	<0.002	0.04	0.01	0.02	0.02	<0.01
40161		3.42	100.56	48.0	31.1	1.41	15.70	0.46	2.21	0.08	0.002	0.05	0.02	0.02	0.02	<0.01
40162		3.66	100.45	49.6	29.8	1.23	14.85	0.44	2.21	0.07	0.002	0.06	0.01	<0.01	0.02	<0.01
40163		3.99	100.75	47.7	31.1	1.14	15.60	0.33	2.22	0.06	0.002	0.05	0.01	0.01	0.02	<0.01
40164		3.19	99.69	47.4	30.7	1.11	15.20	0.36	2.22	0.07	<0.002	0.05	0.01	0.01	0.02	<0.01
40165		3.98	100.46	47.7	31.3	1.15	15.50	0.42	2.23	0.07	<0.002	0.05	0.01	0.01	0.02	<0.01
40166		4.73	99.26	46.9	30.7	1.15	15.25	0.39	2.23	0.07	<0.002	0.05	0.01	<0.01	0.02	<0.01
40167		5.02	100.22	47.6	31.0	1.23	15.15	0.51	2.37	0.10	<0.002	0.04	0.01	0.01	0.03	<0.01
40168		2.94	100.08	47.1	30.9	1.18	15.30	0.55	2.25	0.13	<0.002	0.06	0.01	0.02	0.04	<0.01
40169		2.89	101.44	48.5	30.2	0.98	14.45	0.52	2.75	0.14	0.002	0.04	0.01	0.02	0.03	<0.01
40170		3.71	99.69	46.7	29.8	1.34	14.85	0.66	2.27	0.10	0.002	0.06	0.01	0.02	0.04	<0.01
40171		4.41	101.13	47.7	27.6	2.98	14.70	3.80	2.15	0.16	0.005	0.17	0.03	0.02	0.04	<0.01
40172		4.65	100.31	44.6	20.3	8.44	11.20	11.05	1.92	0.21	0.019	0.13	0.09	0.01	0.02	<0.01
40173		4.38	100.26	45.7	22.1	6.75	13.10	8.35	2.04	0.28	0.039	0.23	0.06	0.02	0.03	<0.01
40174		3.70	100.43	44.5	19.85	7.71	13.70	10.40	1.77	0.31	0.094	0.24	0.07	0.01	0.02	<0.01
40175		4.37	98.31	43.4	19.75	7.02	13.05	9.41	1.84	0.39	0.091	0.24	0.07	0.01	0.01	<0.01
40176		4.13	100.50	47.7	31.1	0.98	15.25	0.25	2.19	0.07	<0.002	0.04	0.01	0.01	0.02	<0.01
40177		4.93	99.75	47.1	30.8	1.03	14.85	0.33	2.24	0.08	0.002	0.04	0.01	0.02	0.02	<0.01
40178		4.00	101.33	48.1	31.4	1.05	15.25	0.32	2.32	0.07	<0.002	0.05	0.01	0.01	0.02	<0.01
40179		5.23	101.52	48.5	31.6	1.08	15.55	0.33	2.30	0.04	<0.002	0.04	0.01	<0.01	0.02	<0.01
40180		5.51	101.96	48.5	31.7	1.00	15.45	0.26	2.35	0.06	<0.002	0.04	0.01	<0.01	0.03	<0.01
40181		4.21	101.73	48.6	31.7	1.13	15.60	0.37	2.36	0.05	<0.002	0.04	0.01	0.02	0.03	<0.01
40182		4.95	100.62	47.5	31.6	1.24	15.15	0.35	2.36	0.10	0.002	0.04	0.01	<0.01	0.02	<0.01
40183		5.33	100.95	48.6	30.8	1.14	15.20	0.46	2.47	0.07	<0.002	0.04	0.01	0.02	0.03	<0.01
40184		4.20	100.50	48.5	31.4	1.07	15.35	0.39	2.36	0.05	<0.002	0.05	0.01	0.01	0.03	<0.01
40185		4.87	99.76	47.5	31.3	1.23	15.55	0.30	2.22	0.05	<0.002	0.04	0.01	0.01	0.03	<0.01
40186		3.09	99.66	46.8	30.5	1.20	15.25	0.45	2.12	0.07	0.002	0.05	0.01	0.01	0.04	<0.01
40187		3.16	98.03	46.3	29.4	1.66	14.70	1.17	2.23	0.09	0.002	0.08	0.01	0.01	0.04	<0.01
40188		3.88	98.70	45.9	26.2	3.86	14.20	4.18	2.06	0.19	0.008	0.25	0.03	0.02	0.03	<0.01
40189		0.73	98.99	46.4	25.9	4.01	13.75	4.29	2.27	0.19	0.012	0.25	0.03	0.01	0.04	<0.01
40215		2.43	99.18	48.1	23.2	6.57	13.25	4.08	1.89	0.08	0.024	0.50	0.10	0.05	0.02	<0.01



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Page: 2 - B  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

Project: CALCIUM FELDSPAR

<b>CERTIFICATE OF ANALYSIS TM19275373</b>
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Sample Description	Method Analyte Units LOD	OA-GRA05 LOI % 0.01
40151		1.21
40152		1.42
40153		3.06
40154		2.19
40155		1.73
40156		1.91
40157		2.45
40158		1.85
40159		1.82
40160		3.01
40161		1.49
40162		2.16
40163		2.51
40164		2.54
40165		2.00
40166		2.49
40167		2.17
40168		2.54
40169		3.80
40170		3.84
40171		1.77
40172		2.32
40173		1.56
40174		1.76
40175		3.03
40176		2.88
40177		3.23
40178		2.73
40179		2.05
40180		2.56
40181		1.82
40182		2.25
40183		2.11
40184		1.28
40185		1.52
40186		3.16
40187		2.34
40188		1.77
40189		1.84
40215		1.32

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



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Page: 3 - A  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

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**CERTIFICATE OF ANALYSIS TM19275373**

Sample Description	Method Analyte Units LOD	WEI-21	TOT-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
		Recvd Wt. kg	Total %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %
		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
40216		4.07	98.65	48.0	26.5	3.14	14.80	2.64	2.02	0.05	0.030	0.16	0.05	0.01	0.02	<0.01
40217		2.99	101.28	48.7	29.6	2.23	15.30	1.53	2.27	0.05	0.017	0.11	0.04	0.01	0.02	<0.01
40218		3.55	101.10	49.4	29.3	2.16	14.80	1.61	2.33	0.04	0.012	0.10	0.03	0.03	0.02	<0.01
40219		4.07	100.72	48.4	30.7	1.76	15.15	0.59	2.06	0.07	0.002	0.12	0.02	0.01	0.03	<0.01
40220		3.60	100.57	48.4	30.0	1.90	15.25	1.19	2.14	0.04	0.011	0.11	0.03	0.01	0.02	<0.01
40221		3.84	101.36	49.3	28.9	2.16	15.20	1.78	2.08	0.05	0.023	0.08	0.03	0.01	0.02	<0.01
40222		4.47	101.74	48.7	29.8	1.85	15.25	1.31	2.15	0.07	0.014	0.09	0.03	<0.01	0.02	<0.01
40223		3.93	100.13	48.4	28.9	2.11	14.95	1.64	2.14	0.03	0.015	0.08	0.03	<0.01	0.02	<0.01
40224		4.11	101.38	47.6	29.8	1.81	15.05	1.04	2.14	0.05	0.009	0.08	0.03	0.01	0.02	<0.01
40225		4.74	100.09	47.9	29.9	1.93	15.20	1.07	2.20	0.04	0.008	0.08	0.03	0.01	0.02	<0.01
40226		4.93	99.05	47.8	30.4	1.43	14.90	0.59	2.16	0.05	0.002	0.08	0.02	0.01	0.02	<0.01
40227		4.97	100.48	48.3	30.0	1.78	15.20	1.04	2.16	0.05	0.010	0.10	0.03	0.01	0.03	<0.01
40228		4.35	100.72	48.1	29.7	1.93	15.20	1.20	2.05	0.04	0.011	0.10	0.03	0.01	0.02	<0.01
40229		5.06	99.46	46.5	29.0	2.00	14.70	1.39	1.97	0.08	0.017	0.09	0.03	<0.01	0.02	<0.01
40230		4.29	100.03	47.3	28.2	2.49	15.20	2.15	2.03	0.09	0.031	0.10	0.04	0.02	0.02	<0.01
40231		4.39	101.01	47.3	28.5	2.43	14.65	1.80	2.15	0.16	0.021	0.12	0.04	0.01	0.02	<0.01
40232		3.86	100.73	47.3	28.8	1.99	14.25	1.51	2.07	0.14	0.019	0.09	0.03	0.02	0.02	<0.01
40233		3.80	101.33	49.1	28.5	2.17	14.15	1.57	2.41	0.19	0.020	0.09	0.03	0.01	0.02	0.01
40234		3.72	100.55	48.7	29.8	1.70	14.75	1.15	2.60	0.16	0.012	0.07	0.03	0.01	0.02	0.01
40235		5.00	100.32	47.3	29.4	2.26	15.45	1.70	2.22	0.14	0.018	0.10	0.03	<0.01	0.02	<0.01
40236		3.28	100.86	47.5	29.8	1.76	15.50	1.32	2.34	0.08	0.015	0.06	0.03	0.01	0.02	<0.01
40237		8.24	101.30	48.0	28.9	2.37	15.40	1.83	2.19	0.14	0.021	0.11	0.04	0.02	0.02	<0.01
40238		5.03	100.58	48.2	28.7	2.25	15.40	1.75	2.15	0.07	0.020	0.10	0.03	0.01	0.03	<0.01
40239		3.88	100.27	46.9	30.2	1.81	15.55	0.95	2.21	0.06	0.009	0.05	0.03	0.01	0.02	<0.01
40240		7.47	100.53	47.6	29.3	2.39	15.20	1.75	2.26	0.07	0.014	0.08	0.04	0.01	0.02	<0.01
74601		2.16	100.07	48.2	31.9	1.29	15.25	0.41	2.21	0.09	0.002	0.06	0.02	<0.01	0.02	<0.01
74602		1.55	100.10	48.0	29.1	2.58	14.25	2.05	2.34	0.12	0.011	0.08	0.04	<0.01	0.02	<0.01
74603		3.03	100.42	47.8	27.9	3.60	14.60	2.06	2.47	0.22	0.009	0.20	0.07	0.02	0.03	0.01





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Page: 3 - B  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

Project: CALCIUM FELDSPAR

<b>CERTIFICATE OF ANALYSIS TM19275373</b>
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Sample Description	Method Analyte Units LOD	OA-GRA05 LOI % 0.01
40216		1.23
40217		1.40
40218		1.27
40219		1.81
40220		1.47
40221		1.73
40222		2.46
40223		1.81
40224		3.74
40225		1.70
40226		1.59
40227		1.77
40228		2.33
40229		3.66
40230		2.36
40231		3.81
40232		4.49
40233		3.06
40234		1.54
40235		1.68
40236		2.42
40237		2.26
40238		1.87
40239		2.47
40240		1.80
74601		0.62
74602		1.51
74603		1.43



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Total # Appendix Pages: 1  
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Account: EIKLDXVN

Project: CALCIUM FELDSPAR

**CERTIFICATE OF ANALYSIS TM19275373**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. ME-ICP06	OA-GRA05	TOT-ICP06	
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada. CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	



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Page: 1  
 Total # Pages: 3 (A - B)  
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**CERTIFICATE TM19276483**

Project: CALCIUM FELDSPAR-SHAWMERE

This report is for 45 Percussion samples submitted to our lab in Timmins, ON, Canada on 1-NOV-2019.

The following have access to data associated with this certificate:

JON ARMES	ANDREW GLATZMAYER	ACCOUNTS PAYABLE
-----------	-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
TOT-ICP06	Total Calculation for ICP06	
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ

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

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

**Signature:**   
 Saa Traxler, General Manager, North Vancouver



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Page: 2 - A  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

Project: CALCIUM FELDSPAR-SHAWMERE

CERTIFICATE OF ANALYSIS TM19276483
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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	TOT-ICP06 Total %	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %
	LOD	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
40241		2.56	98.52	47.8	26.3	2.82	15.05	2.76	2.02	0.11	0.044	0.11	0.05	0.01	0.02	<0.01
40242		3.26	100.86	48.1	28.1	2.64	14.80	2.35	2.07	0.11	0.039	0.13	0.04	<0.01	0.02	<0.01
40243		3.60	99.45	47.8	27.8	2.43	15.45	2.10	2.04	0.08	0.031	0.11	0.04	0.01	0.02	<0.01
40244		3.29	98.07	46.3	27.7	2.21	14.95	1.66	1.97	0.07	0.022	0.10	0.03	0.01	0.02	<0.01
40245		3.26	100.57	47.5	29.3	2.31	15.55	1.94	2.12	0.10	0.024	0.09	0.03	<0.01	0.02	<0.01
40246		3.16	98.22	46.2	28.2	2.12	15.00	1.45	2.10	0.06	0.018	0.10	0.03	0.01	0.02	<0.01
40247		3.03	98.55	47.8	29.2	1.70	14.30	0.96	2.72	0.07	0.008	0.09	0.02	<0.01	0.03	<0.01
40248		3.42	100.82	46.6	28.5	2.87	14.15	1.95	2.48	0.15	0.019	0.15	0.03	<0.01	0.03	<0.01
40249		2.97	100.48	46.9	29.2	2.58	15.25	1.88	2.50	0.11	0.018	0.11	0.04	<0.01	0.02	<0.01
40250		3.18	99.21	45.6	27.7	2.77	14.75	2.25	2.25	0.13	0.024	0.10	0.04	0.01	0.02	<0.01
40251		3.01	99.77	46.4	30.2	1.83	14.00	1.30	2.41	0.14	0.012	0.08	0.02	<0.01	0.03	<0.01
40252		3.79	100.10	46.4	29.8	2.17	15.40	1.54	2.33	0.15	0.018	0.10	0.03	<0.01	0.02	<0.01
40253		3.32	101.21	48.0	30.1	1.98	15.35	1.48	2.35	0.07	0.013	0.08	0.03	<0.01	0.02	<0.01
40254		3.00	98.70	46.2	30.2	1.85	15.40	1.32	2.36	0.14	0.013	0.07	0.02	<0.01	0.02	<0.01
40255		3.61	101.33	48.0	31.3	1.60	15.40	0.67	2.42	0.04	0.002	0.08	0.02	0.01	0.02	<0.01
40256		3.13	98.45	45.4	30.9	1.80	15.35	0.66	2.29	0.09	0.003	0.12	0.03	0.01	0.02	<0.01
40257		3.43	99.63	46.6	31.7	1.64	15.80	0.57	2.32	0.07	0.003	0.08	0.02	<0.01	0.02	<0.01
40258		2.90	101.11	47.9	32.2	1.37	15.85	0.37	2.24	0.04	<0.002	0.10	0.03	<0.01	0.02	<0.01
40259		3.45	101.50	48.0	31.8	1.37	15.60	0.40	2.24	0.06	<0.002	0.07	0.02	0.01	0.02	<0.01
40260		4.70	101.26	47.4	31.4	1.40	15.60	0.46	2.23	0.06	0.002	0.06	0.02	<0.01	0.02	<0.01
40261		3.29	100.22	49.2	27.7	2.50	13.80	1.91	2.12	0.17	0.013	0.09	0.04	0.01	0.02	0.01
40262		3.39	100.52	47.9	28.5	2.41	14.35	2.03	2.16	0.09	0.010	0.07	0.04	<0.01	0.02	<0.01
40263		3.75	100.69	48.7	29.3	2.36	14.90	1.76	2.14	0.08	0.010	0.08	0.03	<0.01	0.03	<0.01
40264		3.66	100.62	47.6	29.5	2.03	14.70	1.35	2.12	0.06	0.007	0.08	0.03	<0.01	0.02	<0.01
40265		3.77	99.86	47.4	28.0	2.51	14.75	2.22	2.01	0.06	0.018	0.09	0.04	0.01	0.02	<0.01
40266		4.06	101.65	48.0	27.6	2.70	15.20	2.62	1.93	0.05	0.036	0.09	0.04	<0.01	0.02	<0.01
40267		3.86	98.25	46.1	28.3	2.59	14.70	2.04	2.18	0.09	0.014	0.09	0.04	<0.01	0.02	<0.01
40268		4.39	98.30	45.7	29.1	2.35	15.05	1.57	2.23	0.10	0.011	0.11	0.03	<0.01	0.02	<0.01
40269		3.84	101.41	48.9	27.9	3.95	14.15	2.57	2.24	0.07	0.023	0.18	0.06	<0.01	0.02	<0.01
40270		3.81	100.41	48.1	28.4	3.37	14.25	2.36	2.20	0.05	0.019	0.13	0.05	<0.01	0.02	<0.01
40271		4.00	101.77	48.2	28.4	2.98	14.85	2.33	2.21	0.06	0.025	0.13	0.04	0.01	0.02	<0.01
40272		2.65	101.54	48.3	29.2	2.39	15.35	1.97	2.09	0.04	0.019	0.10	0.04	0.01	0.02	<0.01
40273		3.83	99.76	47.4	27.6	2.31	15.35	1.92	1.95	0.05	0.017	0.09	0.04	<0.01	0.02	<0.01
40274		4.18	101.23	49.4	27.9	2.51	15.15	2.10	2.26	0.09	0.025	0.11	0.03	0.01	0.02	0.01
40275		4.03	101.46	49.0	27.6	2.48	15.45	2.32	2.04	0.07	0.024	0.09	0.04	0.01	0.02	<0.01
40276		3.89	100.49	48.4	28.0	2.29	15.40	2.07	2.03	0.04	0.015	0.07	0.04	0.01	0.02	<0.01
40277		3.87	100.64	48.8	28.4	2.43	15.20	2.12	2.15	0.06	0.013	0.10	0.03	<0.01	0.02	<0.01
40278		3.37	100.14	47.2	28.1	2.08	15.35	1.48	1.97	0.06	0.012	0.09	0.03	<0.01	0.02	<0.01
40279		4.55	100.32	48.3	27.5	2.46	15.60	2.04	1.97	0.04	0.022	0.09	0.04	0.01	0.02	<0.01
40280		4.58	101.72	49.2	30.3	1.64	15.65	0.87	2.13	0.04	0.005	0.07	0.03	0.01	0.02	<0.01



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Page: 2 - B  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

Project: CALCIUM FELDSPAR-SHAWMERE

<b>CERTIFICATE OF ANALYSIS    TM19276483</b>
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Sample Description	Method Analyte Units LOD	OA-GRA05 LOI % 0.01
40241		1.43
40242		2.46
40243		1.54
40244		3.03
40245		1.59
40246		2.91
40247		1.65
40248		3.89
40249		1.87
40250		3.57
40251		3.35
40252		2.14
40253		1.74
40254		1.11
40255		1.77
40256		1.78
40257		0.81
40258		0.99
40259		1.91
40260		2.61
40261		2.64
40262		2.94
40263		1.30
40264		3.12
40265		2.73
40266		3.36
40267		2.09
40268		2.03
40269		1.35
40270		1.46
40271		2.51
40272		2.01
40273		3.01
40274		1.61
40275		2.32
40276		2.10
40277		1.32
40278		3.75
40279		2.23
40280		1.75

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



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Page: 3 - A  
 Total # Pages: 3 (A - B)  
 Plus Appendix Pages  
 Finalized Date: 21-NOV-2019  
 Account: EIKLDXVN

Project: CALCIUM FELDSPAR-SHAWMERE

**CERTIFICATE OF ANALYSIS TM19276483**

Sample Description	Method	WEI-21	TOT-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06
	Analyte	Recvd Wt.	Total	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO
Units		kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
LOD		0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	0.01	0.01	0.01	0.01	0.01
40281		3.99	99.89	48.0	27.1	2.64	15.15	2.17	2.00	0.04	0.018	0.10	0.04	<0.01	0.02	<0.01
40282		4.29	99.43	47.9	29.5	1.99	15.40	1.02	2.04	0.04	0.005	0.08	0.04	0.02	0.02	<0.01
40283		4.32	99.79	47.9	27.5	2.47	15.30	1.81	1.96	0.06	0.016	0.11	0.04	0.01	0.02	<0.01
40284		4.78	98.98	47.7	27.8	2.39	15.40	1.80	1.97	0.04	0.015	0.09	0.04	0.01	0.02	<0.01
40285		4.24	99.68	48.5	27.9	2.29	14.90	1.79	2.04	0.04	0.017	0.08	0.03	<0.01	0.02	<0.01



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Page: 3 - B  
Total # Pages: 3 (A - B)  
Plus Appendix Pages  
Finalized Date: 21-NOV-2019  
Account: EIKLDXVN

Project: CALCIUM FELDSPAR-SHAWMERE

**CERTIFICATE OF ANALYSIS TM19276483**

Sample Description	Method Analyte Units LOD	OA-GRA05 LOI % 0.01
40281 40282 40283 40284 40285		2.61 1.37 2.59 1.70 2.07



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 21-NOV-2019  
Account: EIKLDXVN

Project: CALCIUM FELDSPAR-SHAWMERE

**CERTIFICATE OF ANALYSIS TM19276483**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. ME-ICP06	OA-GRA05	TOT-ICP06	
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada. CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-21	WEI-21	





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Page: 1  
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 Account: EIKLDXVN

**CERTIFICATE TM20008753**

Project: Shawmere

This report is for 5 Drill Core samples submitted to our lab in Timmins, ON, Canada on 13-JAN-2020.

The following have access to data associated with this certificate:

JON ARMES	ANDREW GLATZMAYER	ACCOUNTS PAYABLE
-----------	-------------------	------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES

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

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

**Signature:**   
 Saa Traxler, General Manager, North Vancouver



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Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 18-JAN-2020  
 Account: EIKLDXVN

Project: Shawmere

**CERTIFICATE OF ANALYSIS TM20008753**

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %
		0.02	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
74651		2.30	<0.5	8.78	<5	30	<0.5	<2	10.35	<0.5	2	13	1	0.47	20	0.01
74652		1.59	<0.5	8.30	<5	60	<0.5	<2	9.86	<0.5	3	8	2	0.68	20	0.16
74653		1.42	<0.5	8.69	<5	30	<0.5	<2	10.15	<0.5	7	26	3	1.03	20	0.01
74654		1.25	<0.5	8.05	<5	30	<0.5	<2	10.55	<0.5	2	4	1	0.53	20	0.01
74655		1.30	<0.5	8.64	<5	30	<0.5	<2	10.45	<0.5	4	39	3	0.50	20	0.01

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



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Page: 2 - B  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 18-JAN-2020  
 Account: EIKLDXVN

Project: Shawmere

**CERTIFICATE OF ANALYSIS TM20008753**

Sample Description	Method Analyte Units LOD	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	
		La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl
		ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
		10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10
74651		<10	0.14	68	<1	1.58	13	20	<2	<0.01	<5	1	194	<20	0.03	<10
74652		<10	0.16	115	<1	1.72	15	10	<2	<0.01	<5	1	193	<20	0.02	<10
74653		<10	0.33	157	<1	1.51	21	20	<2	0.01	<5	2	157	<20	0.03	<10
74654		<10	0.07	137	<1	1.59	7	10	<2	<0.01	<5	<1	199	<20	0.01	<10
74655		<10	0.18	96	<1	1.37	17	20	<2	<0.01	<5	1	205	<20	0.01	<10

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



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Page: 2 - C  
 Total # Pages: 2 (A - C)  
 Plus Appendix Pages  
 Finalized Date: 18-JAN-2020  
 Account: EIKLDXVN

Project: Shawmere

**CERTIFICATE OF ANALYSIS TM20008753**

Sample Description	Method Analyte Units LOD	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
		U ppm 10	V ppm 1	W ppm 10	Zn ppm 2
74651		<10	12	<10	10
74652		<10	7	<10	8
74653		<10	19	<10	13
74654		<10	7	<10	12
74655		<10	11	<10	7



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 18-JAN-2020  
Account: EIKLDXVN

Project: Shawmere

**CERTIFICATE OF ANALYSIS TM20008753**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
ME-ICP61

Applies to Method: Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.  
CRU-31 CRU-QC LOG-22 PUL-31  
PUL-QC SPL-21 WEI-21



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Page: 1  
 Total # Pages: 2 (A - B)  
 Plus Appendix Pages  
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**CERTIFICATE TM20013955**

Project: Shawmere

This report is for 5 Drill Core samples submitted to our lab in Timmins, ON, Canada on 13-JAN-2020.

The following have access to data associated with this certificate:

JON ARMES	ANDREW GLATZMAYER	ACCOUNTS PAYABLE
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	

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

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

**Signature:**   
 Saa Traxler, General Manager, North Vancouver



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Page: 2 - A  
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**CERTIFICATE OF ANALYSIS TM20013955**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %
74651		2.30	47.8	32.1	0.88	16.10	0.50	2.26	0.02	0.004	0.06	0.01	0.02	0.02	<0.01	0.86
74652		1.59	47.2	31.4	1.28	14.95	0.61	2.36	0.30	0.002	0.05	0.02	0.02	0.02	0.01	1.68
74653		1.42	47.5	30.6	1.97	15.55	1.12	2.13	0.05	0.006	0.07	0.02	0.01	0.02	<0.01	0.69
74654		1.25	47.2	32.9	0.99	15.90	0.29	2.19	0.03	<0.002	0.03	0.02	<0.01	0.02	<0.01	0.86
74655		1.30	46.6	32.8	0.93	15.85	0.68	1.91	0.05	0.009	0.03	0.01	0.01	0.02	<0.01	1.34

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



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Page: 2 - B  
Total # Pages: 2 (A - B)  
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Project: Shawmere

**CERTIFICATE OF ANALYSIS TM20013955**

Sample Description	Method Analyte Units LOD	TOT-ICP06 Total % 0.01
74651		100.63
74652		99.90
74653		99.74
74654		100.43
74655		100.24





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**CERTIFICATE OF ANALYSIS TM20013955**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	FND-02	ME-ICP06	OA-GRA05
			TOT-ICP06
Applies to Method:	Processed at ALS Timmins located at Unit 10 - 2090 Riverside Drive, Timmins, ON, Canada.		
	WEI-21		