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WORK REPORT

Soil, Modern Alluvium Stream Sediment and Rock
Sampling

Mining Claims 127428, 144930, 203606, 247638,
314188, 335081, 537315, 545519, 545520, 545908,
547640, 547641, 547642, 547643, 547644, 553010
and 553011

Lavant Township (M0112)

Southern Ontario Mining Division

N.T.S. 31F/02,

Provincial Grid Group 31F02G

For

Skead Holdings Ltd.

(Client Number 194897)

Jim Laidlaw

08 October 2019

Madoc ON

INTRODUCTION

Robert A. MacGregor P.Eng., (client number 162287) engaged Jim Laidlaw of Madoc Ontario to conduct Soil, Modern Alluvium Stream Sediment and Rock Sampling in Lavant Township (M0112) on Mining Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011 (Skead Lavant Claims), N.T.S. 31F/02, Provincial Grid Group 31F02G, located in the Southern Ontario Mining Division.

CLAIM HOLDER

The claims are held in 100% in the name of Skead Holdings Ltd. (client number 194897).

Dates of Work

Field Work - Skead Lavant Claims - Daily Rate

Jim Laidlaw: 5 days

27 and 29, August 2019 and

04, 05 and 06, September 2019

Office Work - Skead Lavant Claims - Hourly Rate

Jim Laidlaw: 72.5 hours

14-30 August 2019, 17.5 hours; field map and data compilation.

03-27 September 2019, 23.0 hours; data tabulation sample description and shipping.

01-08 October 2019, 32.0 hours; maps, tables and final report.

Property Access

The Skead mining claims in Lavant Township are accessible by Highway and Forest Access roads from Perth Ontario, on Highway 7 about 86 km SW of Ottawa Ontario.

At the intersections of Highway 7 and 511 in Perth Ontario; head North on Highway 511 for about 30 km to the Hamlet of Brightside. At this intersection turn left onto the French Road (that eventually becomes the Lavant-Darling Road), and follow this road for 13 km NW-W to the intersection of Clyde Forks-Flowers Station Road and Lavant-Darling Road at Joes Lake; continue West about 3 km to the Clyde-Forks Road, turning left at this intersection; travel another 2.4 km West through the village of Clyde-Forks to the trail/rail bed and turn right, heading North for about 300 m and; turn left onto the Forrest Access road, travelling about 1.4 km NW, at this point bear to the left-hand Y-intersection of the road(s); continue for 2.4 km W-SW, turn right onto an automobile accessible trail that heads NW; at UTM coordinate 18 T 364498 4998598; this position located in the NW part of claim 547642, the Crown portion of the claim. The remainder of the Skead mining claims are located West and SW of this access point.

WORK PERFORMED

The area where this work was performed is located in Lavant Township, west of the village of Clyde Forks, Ontario in Lavant Township, M-0112 and, is composed of 17 claims; 1 unit, 314188 is a Boundary Cell Mining Claim and; 16 units are Single Cell Mining Claim 127428, 144930, 203606, 247638, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011.

Mr. MacGregor forwarded property plan maps and instructions specifying the work to be conducted, (that is, soil, stream sediment and rock sampling) on these mining claims. This work can be considered as reconnaissance in nature.

FIELD WORK

Soil Sampling

A total of 33 soil samples (B horizon) were obtained, sample numbers 24847 to 24879: 32 sample sites were tested about 100 m apart and; 1 sample in close proximity to another soil sample (number 24854), was collected to test the B horizon over a prospective rock unit (rock sample 24888).

A shovel and grub-hoe hammer was used to obtain B horizon soil material from depths ranging from 25 – 40 cm in depth. The sample was passed through a 25 mm plastic screen onto a plastic gold pan. Then about 300 grams of this material was collected from the gold pan and emplaced in pre-numbered Kraft sample bags, sealed and stored in a fabrene bag for transport. All tools were thoroughly cleaned prior to collecting the next sample(s).

The field note data collected concurrent to sample collection are: Sample Number, UTME, UTMN, Claim, Soil Horizon, Terrain, Soil Type, Overburden Thickness, Colour, Slope Aspect (°), Slope Direction (°), Drainage, Vegetation, State and Remarks.

Most of the soils collected, were in close proximity to the claim property access trails and readily accessible.

Modern Alluvium Stream Sediment

A total of 6 stream sediment samples, (modern alluvium) were collected over a wide area on the claim group. The ideal sample material objective was modern alluvium in active stream beds. Samples of about 3-4 kg were obtained from the sample sites using a shovel to dig and a gold pan to hold the collected materials prior to emplacing these sands and gravels into pre-numbered specially weaved Tyvek-sample bags which promotes water drainage. Field note observations collected at the time of sampling are: Sample Number, UTME, UTMN, Claim, Terrain, Slope Aspect (°), Slope Direction (°), State and Remarks.

FIELD WORK

Rock Sampling

The collection and descriptions of rock samples was conducted in the course of gathering the soil and stream sampling. The rocks were collected on the basis of proximity and possible mineral content, (i.e. sulphide or magnetic minerals). Field note observations collected at the time of sampling are: Sample Number, UTME, UTMN, CLAIM, STRIKE (°), DIP SLOPE (°), Direction (°), and MINRLZ, MA, HCl and DESCRIPTION.

Note: MINRLZ = mineralization; MA = Magnetic Attraction and; HCl = 10% Hydrochloric Acid (acid test)

Location data for all sample sites visited, was gathered by means of a Garmin GPS 76 CSx handheld unit, obtaining long-term averaged coordinate readings per sample site, in UTM coordinates, (Easting (UTME) and Northing (UTMN)), set to Datum NAD 83.

Compass: headings in degrees True and; compass declination set to 13° W.

Office Work

The office work involved: field map drafting, GPS map inputs, sample descriptions, data compilation, data tabulation, report tables and figures, an annotated photographic log and final report writing.

The products of this work are listed as the following (for Skead Holdings Limited, Lavant Township (M-0112), Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011):

Figure 1, B Horizon Soil Sample Location Map, Sample Numbers 24847 – 24879, (33 Samples);

Figure 2, Modern Alluvium Stream Sediment Sample Location Map, Sample Numbers 24880 – 24885 (6 Samples); and

Figure 3, Rock Sample Location Map, Sample Numbers 24886 – 24900, 138651 and 138652 (17 Samples)

And

Table 1. Claims Skead Holdings Limited, Soil Sample Survey Data;

Table 2. Claims Skead Holdings Limited, Stream Sediment Sample Survey Data and;

Table 3. Claims Skead Holdings Limited, Rock Sample Survey Data

Included as well, is an annotated photographic log of the Modern Alluvial Stream Sediment Sample sites.

The maps, tables and photographs are attached to the body of this report.

Sample Shipping

All samples were picked up in good order, by Mr. Bob MacGregor at the authors' address in Madoc Ontario, on the 21 September, 2019.

Statements

Jim Laidlaw authored this report, table and maps for Mr. Bob MacGregor P.Eng., to be used by Skead Holdings Ltd., for their assessment requirements, in order to hold the Lavant Township mining claims in good standing.

Jim Laidlaw, prospector-geological technician, conducted the field and office work, and does not hold *nor* expects to hold any interest in the aforementioned mining claims, as outlined in this report.

Jim Laidlaw

08 October 2019

Madoc ON

76°45'0"W

76°44'15"W

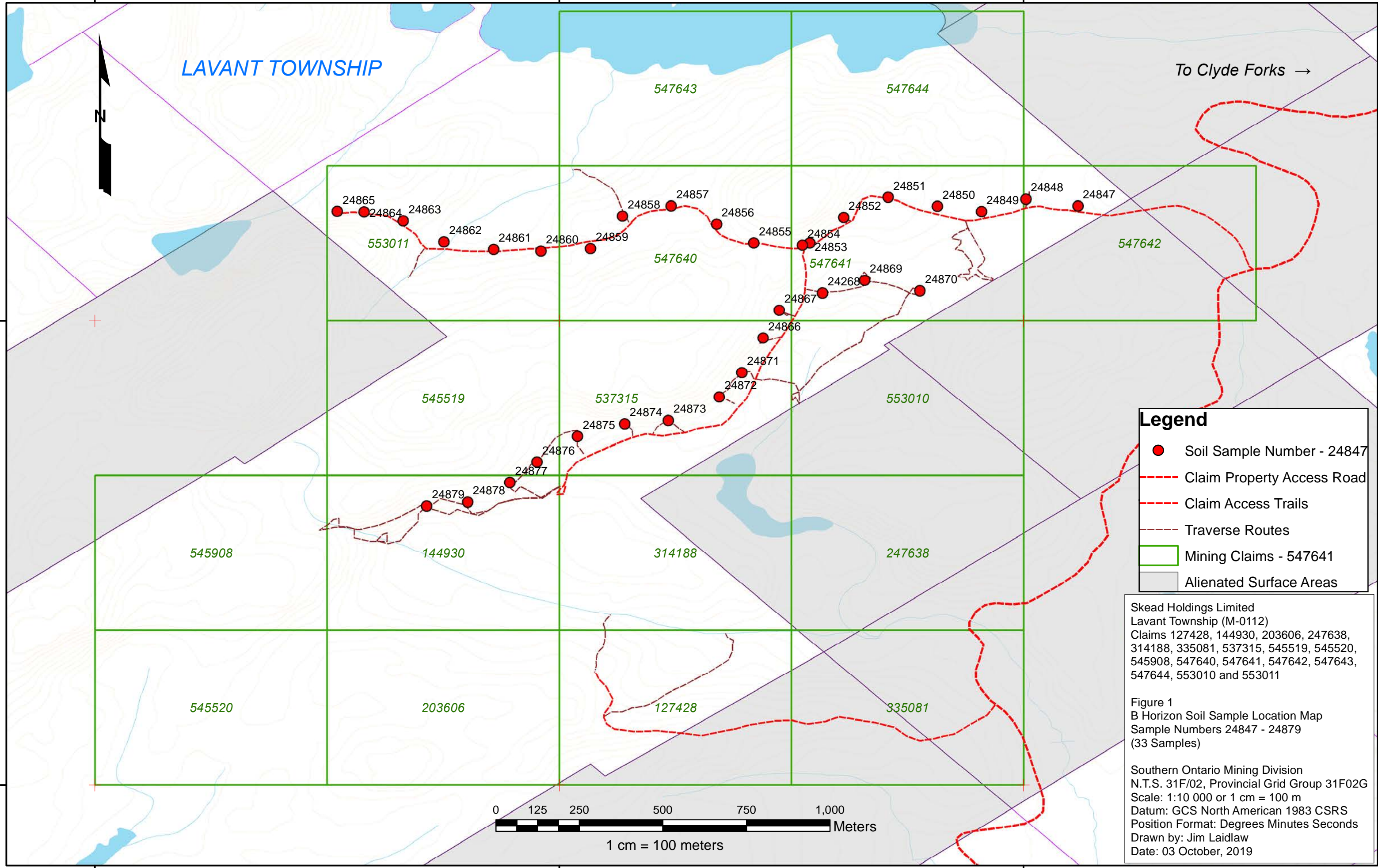
76°43'30"W

LAVANT TOWNSHIP

To Clyde Forks →

45°7'30"N

45°6'45"N



Legend

- Soil Sample Number - 24847
- - - Claim Property Access Road
- - - Claim Access Trails
- - - Traverse Routes
- Mining Claims - 547641
- Alienated Surface Areas

Skead Holdings Limited
 Lavant Township (M-0112)
 Claims 127428, 144930, 203606, 247638,
 314188, 335081, 537315, 545519, 545520,
 545908, 547640, 547641, 547642, 547643,
 547644, 553010 and 553011

Figure 1
 B Horizon Soil Sample Location Map
 Sample Numbers 24847 - 24879
 (33 Samples)

Southern Ontario Mining Division
 N.T.S. 31F/02, Provincial Grid Group 31F02G
 Scale: 1:10 000 or 1 cm = 100 m
 Datum: GCS North American 1983 CSRS
 Position Format: Degrees Minutes Seconds
 Drawn by: Jim Laidlaw
 Date: 03 October, 2019

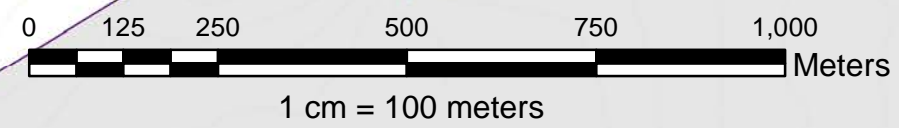


Table 1. Claims Skead Holdings Limited, Soil Sample Survey Data, Lavant Township (M0112), Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011.

SAMPLE NUMBER	UTME	UTMN	CLAIM	SOIL HORIZON	TERRAIN	SOIL TYPE	OVERBURDEN THICKNESS	COLOUR	SLOPE ASPECT	SLOPE DIRECTION	DRAINAGE	VEGETATION	STATE	REMARKS
24847	364462	4998625	547642	B	Moraine	Sandy-silt	Till >1m	Red-brown	-5°	50°	Well	Con-Dec mixed	Logged	Mafic and felsic clasts; 10 m north side of access road.
24848	364352	4998648	547642	B	Moraine	Sandy-silt	Till >1m	Red-brown	-10°	340°	Well	Con-Dec mixed	Natural	Mafic outcrop area; 20 m north side of access road.
24849	364257	4998612	547641	B	Moraine	Sandy-silt	Till >1m	Red-brown	-5°	70°	Well	Deciduous	Natural	Till draped, mafic and felsic clasts; 10 m north of access road.
24850	364164	4998630	547641	B	Moraine	Sandy-silt	Till pocket<1m	Yellow-brown	-5°	10°	Well	Conifer scrub	Logged	Thin soil cover over weathered buff-colored marbliferous outcrop; 20 m north of access road.
24851	364061	4998660	547641	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	0°	360°	Well	Con-Dec mixed	Logged	Mafic and felsic clast from barrow pit; 5 m north of access road; disturbed site.
24852	363965	4998601	547641	B	Moraine	Sandy-silt	Till pocket<1m	Brown	-20°	110°	Well	Con-Dec mixed	Logged	Mafic and felsic clasts; 20 m west of access road on outcrop ridge.
24853	363892	4998526	547641	B	Outcrop	Sandy-silt	Till pocket<1m	Yellow-brown	-45°	180°	Well	Scrub	Roadside	Basal till at base of marble outcrop ridge, 3 m high x 40 m long; north side of access road.
24854	363876	4998520	547641	B	Outcrop	Regolith	Till pocket<1m	Red-brown	-45°	180°	Well	Scrub	Roadside	Mafic outcrop, rusty weathered; 5 m north of access road.
24855	363773	4998529	547640	B	Outcrop	Till	Till pocket<1m	Yellow-brown	0°	360°	Well	Scrub	Roadside	Moraine soil material over marbliferous bedrock.
24856	363696	4998587	547640	B	Moraine	Sandy-silt	Till pocket>1m	Red-brown	-5°	180°	Well	Deciduous	Logged	No clast observed; 2 m north of access road.
24857	363601	4998643	547640	B	Moraine	Sandy-silt	Till pocket<1m	Brown	-5°	360°	Well	Deciduous	Logged	Silty-sand over marbliferous bedrock; 10 m north of access road.
24858	363497	4998615	547640	B	Moraine	Sandy-silt	Till >1m	Red-brown	-10°	360°	Well	Deciduous	Logged	Logging skid-way; 15 m north of access road.
24859	363428	4998519	547640	B	Outcrop	Sandy-silt	Till pocket<1m	Red-brown	-20°	250°	Well	Deciduous	Roadside	Road cut opening; north side of access road.
24860	363322	4998514	553011	B	Moraine	Sandy-silt	Till pocket<1m	Yellow-brown	-20°	260°	Well	Con-Dec mixed	Logged	Boulder till; south side of road access.
24861	363222	4998522	553011	B	Moraine	Sandy-silt	Till >1m	Yellow-brown	-10°	360°	Well	Con-Dec mixed	Natural	Edge of undisturbed forest; 8 m north of access road.
24862	363117	4998547	553011	B	Moraine	Sandy-silt	Till >1m	Yellow-brown	-5°	360°	Well	Conifers	Reforested	In pine plantation; 15 m north of access road.
24863	363033	4998611	553011	B	Outcrop	Regolith	Till pocket<1m	Yellow	-40°	90°	Well	Con-Dec mixed	Natural	Weathered sandy carbonate-rich outcrop; 15 m outcrop ridge; 10 m north of access road.
24864	362950	4998639	553011	B	Moraine	Sandy-silt	Till pocket<1m	Yellow-brown	-10°	10°	Well	Con-Dec mixed	Natural	Gneiss boulders; gneiss outcrop area; 10 m north of access road.
24865	362894	4998642	553011	B	Moraine	Sandy-silt	Till >1m	Red-brown	5°	360°	Well	Con-Dec mixed	Natural	West side of claim block; 8 m north of access road.
24866	363787	4998245	537315	B	Moraine	Sandy-silt	Till >1m	Red-brown	-40°	120°	Well	Deciduous	Natural	Steep slope; old claim line flagged and blazes 5m up slope of sample station; 30 m north of access road.
24867	363823	4998327	547641	B	Moraine	Sandy-silt	Till >1m	Red-brown	-15°	90°	Well	Deciduous	Natural	Steep slope; skid ways; west of access road.
24868	363915	4998376	547641	B	Moraine	Sandy-silt	Till >1m	Red-brown	-15°	180°	Well	Con-Dec mixed	Logged	Moderate slope; skid ways and area has been heavily logged.

Dates Worked: 27 August to 06 September, 2019

Work Performed By: Jim Laidlaw

Table 1. Claims Skead Holdings Limited, Soil Sample Survey Data, Lavant Township (M0112), Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011.

SAMPLE NUMBER	UTME	UTMN	CLAIM	SOIL HORIZON	TERRAIN	SOIL TYPE	OVERBURDEN THICKNESS	COLOUR	SLOPE ASPECT	SLOPE DIRECTION	DRAINAGE	VEGETATION	STATE	REMARKS
24869	364006	4998412	547641	B	Moraine	Sandy-silt	Till pocket<1m	Yellow-brown	-10°	180°	Well	Deciduous	Natural	Sandy weathered marbliferous outcrop ridge 15 m height.
24870	364122	4998379	547641	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	-15°	180°	Well	Con-Dec mixed	Natural	Sandy weathered marbliferous outcrop area.
24871	363740	4998141	537315	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	-25°	120°	Well	Con-Dec mixed	Natural	Till draped surface; steep slope; 30 m west of access road.
24872	363690	4998069	537315	B	Moraine	Sandy-silt	Till pocket<1m	Red-brown	-20°	120°	Well	Deciduous	Natural	Till draped surface; steep slope; 60 m west of access road.
24873	363581	4998002	537315	B	Moraine	Sandy-silt	Till >1m	Brown	-15°	180°	Well	Con-Dec mixed	Natural	Till draped surface; mafic volcanic clasts in sample hole; ~35m north of access road.
24874	363488	4997993	537315	B	Moraine	Sandy-silt	Till >1m	Yellow	-20°	180°	Well	Con-Dec mixed	Natural	Felsic boulders on surface, mafic volcanic clast in sample; steep slope; ~45m north of access road.
24875	363388	4997958	537315	B	Moraine	Sandy-silt	Till >1m	Red-brown	-10°	180°	Well	Con-Dec mixed	Natural	Till draped surface, felsic boulders on surface; ~70m north of access road.
24876	363301	4997883	545519	B	Moraine	Sandy-silt	Till >1m	Red-brown	-20°	90°	Well	Con-Dec mixed	Natural	Till draped, ridged area, felsic boulders; ~50m west of access road.
24877	363242	4997824	144930	B	Moraine	Sandy-silt	Till >1m	Red-brown	-30°	90°	Well	Deciduous	Logged	Till draped area, has been heavily logged.
24878	363151	4997766	144930	B	Moraine	Sandy-silt	Till >1m	Red-brown	-30°	180°	Well	Deciduous	Logged	Till draped, steep slope mafic and felsic boulders; steep slope.
24879	363064	4997756	144930	B	Moraine	Sandy-silt	Till >1m	Red-brown	-20°	180°	Well	Con-Dec mixed	Natural	Till draped, steep slope and felsic boulders.

NOTES:

See: Figure 1, B Horizon Soil Sample Location Map, Sample Numbers 24847 - 24879, (33 Samples).

Soil sample taken at about 25 to 30 cm depths.

Dates Worked: 27 August to 06 September, 2019

Work Performed By: Jim Laidlaw

76°45'0"W

76°44'15"W

76°43'30"W

LAVANT TOWNSHIP

To Clyde Forks →

547643

547644

24880

553011

24881

547640

547641

547642

545519

537315

No Sample

553010

24882

24883

545908

144930

314188

247638

545520

203606

127428

335081

24884

24885



1 cm = 100 meters

Legend

- X Stream Sediment Sample - 24880
- Claim Property Access Road
- Claim Access Trails
- Traverse Routes
- Mining Claims - 547641
- Alienated Surface Areas

Skead Holdings Limited
Lavant Township (M-0112)
Claims 127428, 144930, 203606, 247638,
314188, 335081, 537315, 545519, 545520,
545908, 547640, 547641, 547642, 547643,
547644, 553010 and 553011

Figure 2
Modern Alluvium Stream Sediment Sample
Location Map
Sample Numbers 24880 - 24885
(6 Samples)

Southern Ontario Mining Division
N.T.S. 31F/02, Provincial Grid Group 31F02G
Scale: 1:10 000 or 1 cm = 100 m
Datum: GCS North American 1983 CSRS
Position Format: Degrees Minutes Seconds
Drawn by: Jim Laidlaw
Date: 03 October, 2019

45°7'30"N

45°6'45"N

Table 2. Claims Skead Holdings Limited, Stream Sediment Sample Survey Data, Lavant Township(M0112), Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011.

SAMPLE NUMBER	UTME	UTMN	CLAIM	TERRAIN	SLOPE ASPECT	SLOPE DIRECTION	STATE	DESCRIPTION
<u>24880</u>	<u>363415</u>	<u>4998751</u>	<u>547640</u>	<u>Cedar bog</u>	<u>-5°</u>	<u>360°</u>	<u>Natural</u>	From topography, this is the indicated stream sediment site. Sample site is in a wide cedar bog, and is exposed from under a blown down tree; surficial materials composed of peat and fine grained sand. Drainage is a sluggish ephemeral stream course, varying from .10 to 2.0 m wide. Sample of fine to medium sand obtained from a pit dup through a .50 m layer of forest litter and peat, exposing a compact, relatively dry, yellow to green sand, with peaty-organic debris interspersed in the section. Not modern alluvium. Sand-rich mafic volcanic sands (?).
<u>24881</u>	<u>363054</u>	<u>4998459</u>	<u>553011</u>	<u>Streambed</u>	<u>-10°</u>	<u>50°</u>	<u>Natural</u>	From topography this is the site for the target stream sediment. Overgrown with small trees, filled with forest litter and choked by small shrubbery and plants, the stream coarse is discernable, but is not been currently active. Sand and gravels, essentially reworked till material intermixed with relict alluvium was sampled and appears as red-brown weathered soils. Sampling in creek bed, was taken over 30 m, in 6 sample holes, downstream of potential boulder traps. There is an old logging skid way parallel to the stream bed and appears to truncate or block this stream course.
<u>24882</u>	<u>362879</u>	<u>4997704</u>	<u>545908</u>	<u>Streambed</u>	<u>-5°</u>	<u>120°</u>	<u>Natural</u>	Modern alluvium in active streambed. Stream sediment, composed of silty sandy gravel, and possibly reworked till, in stream flowing at about 120°. Stream about 1.5-2.0 m wide; sediment sample dug up from stream bed and at several boulder trap sites and is contaminated by organics; forest litter, small tree branches and minute organic particles. A significant, well-built beaver dam was erected upstream and is 3 m in height, blocks active stream. Continuous moderate water flow into the creek originates from beneath the beaver dam. The upstream side of beaver dam is substantially overgrown and the beaver pond upstream of dam is at low water.
<u>24883</u>	<u>362974</u>	<u>4997666</u>	<u>144930</u>	<u>Streambed</u>	<u>-15°</u>	<u>120°</u>	<u>Natural</u>	Modern alluvium in active boulder-filled streambed, with significant water flow. Stream sediment, composed of white carbonate-rich silty sandy gravel and carbonate-rich boulders. Sample taken over a 25 m length up- and down-stream of the GPS waypoint station. The stream drains at 120°, with slope incline of -15° and drains into a large sluggish swampy area.
<u>24884</u>	<u>363449</u>	<u>4997427</u>	<u>314188</u>	<u>Streambed</u>	<u>-5°</u>	<u>76°</u>	<u>Natural</u>	Modern alluvium in active streambed, 1 to 4 m wide, at low water flow, flowing about 76°, stream bed inclined about -5°. Stream sediments composed of sand and gravel with sub-angular to sub-rounded boulders, of varying lithologies, comprised of marbles, granite pegmatite, gneissose rocks and meta-sediments and some quartz float. Stream sediment sample taken from the stream bed and boulder traps. The stream course is choked with fallen trees and substantial organic debris is mixed in with the modern alluvium material (organic contamination). Downstream of the sample site, stream continues to flow as a creek.

Table 2. Claims Skead Holdings Limited, Stream Sediment Sample Survey Data, Lavant Township(M0112), Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011.

SAMPLE NUMBER	UTME	UTMN	CLAIM	TERRAIN	SLOPE ASPECT	SLOPE DIRECTION	STATE	DESCRIPTION
<u>24885</u>	<u>363688</u>	<u>4997361</u>	<u>127428</u>	<u>Streambed</u>	<u>-5°</u>	<u>100°</u>	<u>Natural</u>	Modern alluvium in active streambed, 1 to 4 m wide, at low water flow, oriented about 100°, streambed inclined about -5°. Stream flow a trickle, but strong evidence from vegetation and tree debris, that this creek has experiences catastrophic water flow during high water periods. The sediments are composed of sand and gravel with sub-angular to sub-rounded boulders, of varying lithologies, comprised of marbles, granite pegmatite, gneissose rocks and meta-sediments and some quartz float. Stream sediment sample taken from the stream bed and boulder traps. Sample may have a high organic content. Sample taken 90 m upstream from the original proposed location, due to a large grass and tree choked swamp making that site inaccessible.
<u>Peat bog</u>	<u>363862</u>	<u>4998066</u>	<u>553010</u>	<u>Streambed</u>	<u>0°</u>	<u>200°</u>	<u>Natural</u>	The proposed sample target site is in a Cedar Bog, underlain by >1 m of peat. No sample obtained from this location. Low lying ephemeral creek course flowing about 200°. Check the creek trace for 100 m at 20°; no active creek beds or modern alluvium observed.

Note:

See: Figure 2, Modern Alluvium Stream Sediment Sample Location Map, Sample Numbers 24880 - 24885 (6 Samples).

76°45'0"W

76°44'15"W

76°43'30"W

LAVANT TOWNSHIP

To Clyde Forks →

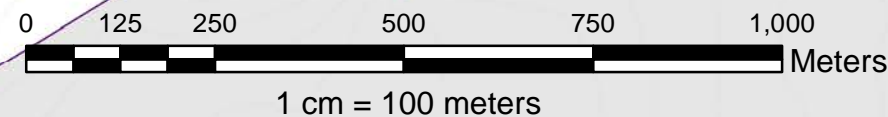
Legend

- X Rock Sample - 24886
- Claim Property Access Road
- Claim Access Trails
- Traverse Routes
- Mining Claims - 547641
- Alienated Surface Areas

Skead Holdings Limited
 Lavant Township (M-0112)
 Claims 127428, 144930, 203606, 247638,
 314188, 335081, 537315, 545519, 545520,
 545908, 547640, 547641, 547642, 547643,
 547644, 553010 and 553011

Figure 3
 Rock Sample Location Map
 Sample Numbers 24886 - 24900,
 138651 and 138652
 (17 Samples)

Southern Ontario Mining Division
 N.T.S. 31F/02, Provincial Grid Group 31F02G
 Scale: 1:10 000 or 1 cm = 100 m
 Datum: GCS North American 1983 CSRS
 Position Format: Degrees Minutes Seconds
 Drawn by: Jim Laidlaw
 Date: 03 October, 2019



45°7'30"N

45°6'45"N

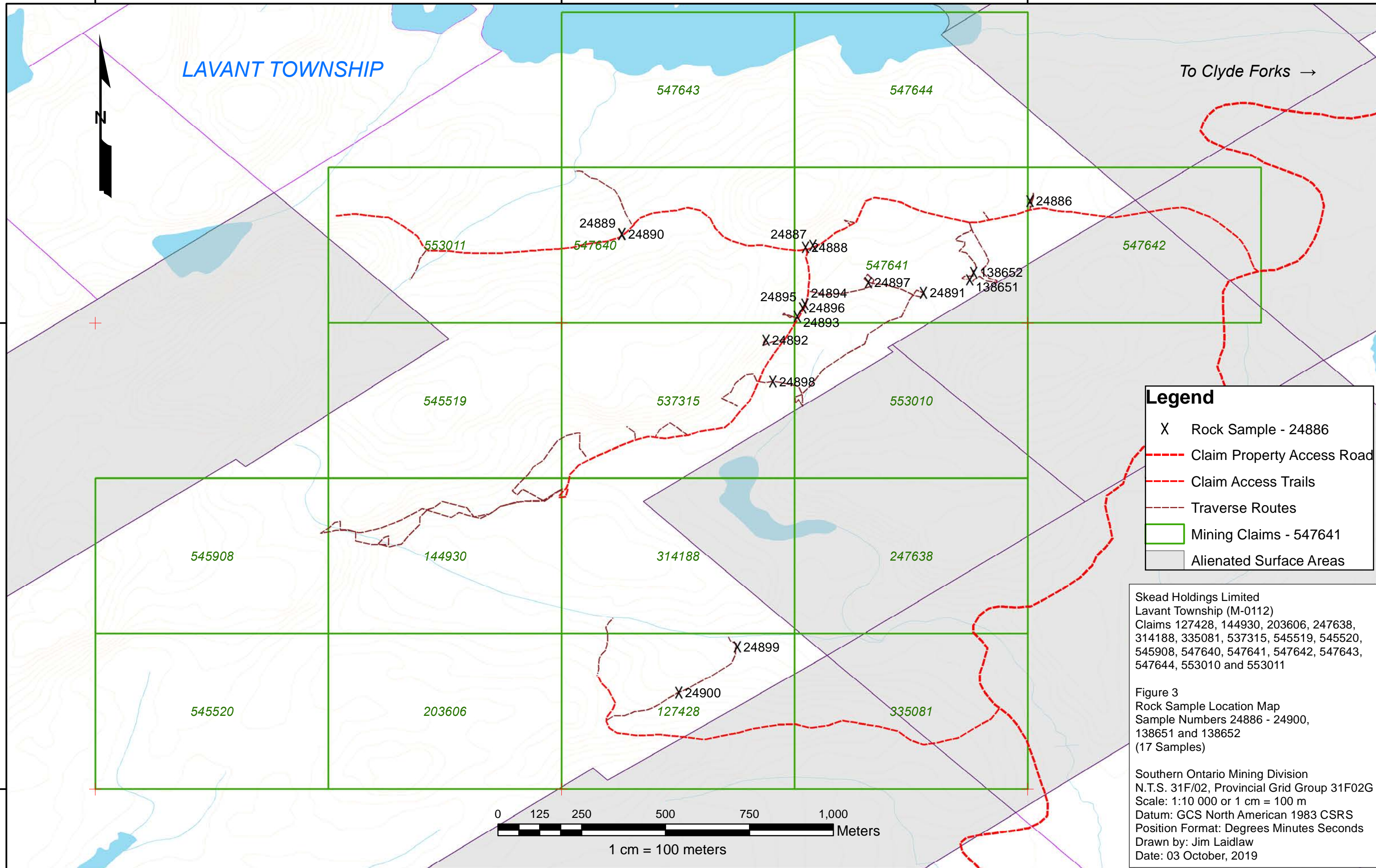


Table 3. Claims Skead Holdings Limited, Rock Sample Survey Data, Lavant Township (M0112), Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011.

SAMPLE NUMBER	UTME	UTMN	CLAIM	STRIKE	DIP	MINRLZ	MA	HCI	DESCRIPTION
24886	364352	4998648	547642	Not observed	Not observed	trace po	Spotty	Spotty	Hornblende-feldspar-quartz gneiss; outcrop; rusty weathered surfaces; quartz-carbonate vein; north of access road.
24887	363892	4998526	547641	274°	20°E	2-3% diss py	None	Pervasive	Banded marble; outcrop; grayish-brown weathered surface; mottled white-gray fresh color; ridged setting on north-side of access road; soil sample 24853.
24888	363876	4998520	547641	Not observed	Not observed	trace py, cpy(?)	None	Spotty	Hornblende-feldspar-quartz gneiss; green and red weathered surface, greenish-black fresh surface; medium-grained; interbedded with banded marble; ridged setting on north-side of access road; soil sample 24854 taken in overlying overburden.
24889	363490	4998568	547640	215°	12°N	trace py	None	Pervasive	Mafic gneissose meta-sediment; rusty, reddish-brown weathered, and blue-gray fresh surface; fine-to-medium grained pyrite in narrow quartz-carbonate vein; overlies marble unit.
24890	363490	4998568	547640	215°	12°N	None observed	None	Pervasive	Marble; medium-grained; light brown weathered surface and white with grayish patches on fresh surface.
24891	364122	4998379	547641	Not observed	Not observed	None observed	None	Pervasive	Marble unit; outcrop; sandy and friable; weathers yellowish-white, fresh grayish-white colors; soil sample 24870 taken nearby this outcrop area.
24897	364006	4998412	547641	Not observed	Not observed	None observed	None	Pervasive	Marble unit; outcrop; sandy and friable; weathers yellowish-white, fresh grayish-white colors; atop 15 m outcrop ridge.
24892	363787	4998245	537315	Not observed	Not observed	None observed	None	None	Hornblende-feldspar-quartz gneiss; brownish black weathered surface, black and white fresh surface; float; adjacent to soil sample 24866; steep slope.
24893	363854	4998314	547641	Not observed	Not observed	2% diss py-po	Spotty	Spotty	Quartz-feldspar meta-sediment; outcrop; rusty weathered surface; whitish-gray fresh color; west side of access trail.
24894	363871	4998351	547641	360°	40°E	1% diss py-po	Strong	Pervasive	Banded marble; outcrop; rusty weathered surface; white-gray fresh color; west side of access trail.
24895	363866	4998340	547641	Not observed	Not observed	trace py, cpy(?)	None	Spotty	Hornblende-feldspar-quartz gneiss; outcrop; rusty weathered surfaces; narrow vitreous quartz vein sub-parallel to gneissosity; mafic unit appears stratigraphically below, nearby banded marble at sample 24894 position.

Table 3. Claims Skead Holdings Limited, Rock Sample Survey Data, Lavant Township (M0112), Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519, 545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010 and 553011.

SAMPLE NUMBER	UTME	UTMN	CLAIM	STRIKE	DIP	MINRLZ	MA	HCl	DESCRIPTION
24896	363866	4998340	547641	Not observed	Not observed	<1% diss and patchy py-cpy	None	None	Quartz vein; large angular rusty weathered; below and attached to rusty gneiss, sample 24895, diss
24898	363799	4998121	537315	Not observed	Not observed	<1% diss magnetite	Spotty	None	Massive medium to coarse-grained pink granite pegmatite; Orthoclase feldspar-quartz-hornblende; large outcrop exposure, > 50 m in length; 4 m height; apparent trend of 300°; west edge of cedar bog.
24899	363707	4997332	127428	240°	75°W	None observed	None	Pervasive	Banded marble, coarse-grained; brown weathered, white fresh surfaces; outcrop area, about 25 m x 15 m.
24900	363581	4997198	127428	266°	65°N	<1% diss py	None	Pervasive	Coarse-grained white marble interbedded with greyish-white fine, to medium-grained marble; outcrop area 15 m x 15 m; north of access trail.
138651	364220	4998416	547641	Not observed	Not observed	None observed	None	None	Fine-grained sediment; rusty pervasive weathered surface; rubble crop; near south boundary of claim.
138652	364229	4998438	547641	Not observed	Not observed	<1% diss magnetite	Strong	None	Medium grained pyroxene-feldspar meta-volcanic; rubble crop.

Notes:

See: Figure 3 Rock Sample Location Map, Sample Numbers 24886 - 24900, 138651 and 138652 (17 Samples).

MINRLZ = mineralization

MA = Magnetic Attraction

HCl = 10% Hydrochloric Acid (acid test)



Stream Sediment Sample Site: 24880.

Cedar bog.

**Surficial material, peat with minor
amounts of modern alluvial (fine-
grained sand).**

Claim: 547640

Location: UTM 363415E 4998751N



Stream Sediment Sample Site: 24880.

Cedar bog.

Sample material, of fine to medium sand obtained from a pit dug through a .50 m layer of forest litter and peat, exposing a compact, relatively dry, yellow to green sand, with peaty-organic debris interspersed in the section.

Claim: 547640

Location: UTM 363415E 4998751N



Stream Sediment Sample Site: 24881.
Stream course is highly modified and in-grown with vegetation and forest litter.
Sample hole, downstream of boulder trap.
Surficial material, modern alluvium modified to a B horizon soil.
Claim: 553011
Location: UTM 363054E 49984591N



Stream Sediment Sample Site: 24882.
Modern alluvium in active streambed.
Stream sediment, composed of silty sandy gravel, and possibly re-worked till, in stream about 1.5-2.0 m wide; below significant 3 m high beaver dam.
Claim: 545908
Location: UTM 362879E 4997704N



**Stream Sediment Sample Site: 24883.
Modern alluvium in active boulder-filled
streambed, with significant water flow.
Stream sediment, composed of white
carbonate-rich silty sandy gravel and
carbonate-rich boulders.**

Claim: 144930

Location: UTM 362974E 4997666N

Dates Worked: 27 August to 06 September, 2019

Work Performed By: Jim Laidlaw



Stream Sediment Sample Site: 24884.
Modern alluvium in active boulder-filled streambed, at low water flow. Stream sediments composed of sand and gravel with sub-angular to sub-rounded boulders, of varying lithologies, comprised of marbles, granite pegmatite, gneissose rocks and meta-sediments and some quartz float.

Claim: 314188

Location: UTM 363449E 4997427N

Dates Worked: 27 August to 06 September, 2019

Work Performed By: Jim Laidlaw



Stream Sediment Sample Site: 24885.

Modern alluvium in active boulder-filled streambed, at low water flow. Stream sediments composed of sand and gravel with sub-angular to sub-rounded boulders, of varying lithologies, comprised of marbles, granite pegmatite, gneissose rocks and meta-sediments and some quartz float.

Claim: 127428

Location: UTM 363688E 4997361N

Dates Worked: 27 August to 06 September, 2019

Work Performed By: Jim Laidlaw



No Sample
The proposed
sample target
site is in a Cedar
Bog, underlain
by >1 m of peat.
No sample
obtained from
this location.
Claim: 553010
Location: UTM
363862E
4998066N



NOTES:

1. See Figure 2, Modern Alluvium Stream Sediment Sample Location Map,
Sample Numbers 24880-24885 (6 Samples)
2. Southern Ontario Mining Division, N.T.S. 31F/02, Provincial Grid Group 31F02G
3. UTM Coordinates, Zone 17 T, NAD 83
4. Claims 127428, 144930, 203606, 247638, 314188, 335081, 537315, 545519,
545520, 545908, 547640, 547641, 547642, 547643, 547644, 553010
and 553011.

Sample No .	IMA No.
24847	3437
24848	3439
24849	3436
24850	3438
24851	3440
24852	3441
24853	3442
24854	3443
24855	3444
24856	3445
24857	3446
24858	3447
24859	3448
24860	3449
24861	3450
24862	3451
24863	3452
24864	3453
24865	3454
24866	3455
24867	3456
24868	3457
24869	3458
24870	3459
24871	3460
24872	3461
24873	3462
24874	3463
24875	3464
24876	3465
24877	3466
24878	3467
24879	3468



BUREAU VERITAS MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **MacGregor, R.A.**
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4 Canada

Submitted By: R.A. MacGregor
Receiving Lab: Canada-Vancouver
Received: October 09, 2019
Report Date: October 18, 2019
Page: 1 of 3

CERTIFICATE OF ANALYSIS

VAN19002990.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 42

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: MacGregor, R.A.
28 Ford St.
Sault Ste. Marie Ontario P6A 4N4
Canada

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SLBHP	42	Sorting, labeling and boxing samples received as pulps			VAN
MA200	42	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	42	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS


MAY LAI
Data Validation Specialist

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

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Project: None Given
Report Date: October 18, 2019

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Part: 1 of 3

CERTIFICATE OF ANALYSIS

VAN19002990.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
IMA 3428	Pulp	0.3	17.2	24.2	47	<0.1	16.1	7.3	501	1.65	<1	1.2	2.5	269	0.2	0.2	<0.1	42	1.53	0.039	16.1
IMA 3429	Pulp	0.8	348.0	12.7	113	0.2	112.2	202.3	2117	9.45	2	0.9	2.7	170	<0.1	0.6	<0.1	179	0.81	0.067	17.7
IMA 3430	Pulp	1.3	8.2	63.0	46	0.2	29.2	5.3	318	1.39	2	2.0	3.3	218	0.3	2.0	0.5	42	1.33	0.113	8.7
IMA 3431	Pulp	0.9	11.3	51.0	98	<0.1	23.1	24.0	1850	2.76	5	1.4	2.6	312	0.7	0.7	0.3	75	2.04	0.048	9.9
IMA 3432	Pulp	0.8	15.6	43.8	118	0.1	29.7	23.2	1786	3.46	6	2.0	6.2	275	0.4	0.8	0.4	85	1.75	0.059	15.3
IMA 3433	Pulp	0.3	22.5	22.7	70	<0.1	26.2	15.6	946	3.35	<1	1.4	4.8	341	0.4	0.6	0.3	100	2.37	0.060	17.3
IMA 3434	Pulp	0.3	19.8	11.6	30	<0.1	18.6	10.2	377	2.37	<1	1.0	3.9	318	<0.1	0.4	0.2	61	1.64	0.052	12.8
IMA 3435	Pulp	0.8	12.0	12.6	35	<0.1	17.3	7.4	329	3.18	3	1.2	3.4	226	0.1	<0.1	0.2	70	1.32	0.035	10.9
IMA 3436	Pulp	1.0	20.0	13.2	133	<0.1	25.4	21.4	823	5.58	4	1.0	3.3	311	0.1	0.3	0.1	145	2.22	0.058	13.2
IMA 3437	Pulp	1.0	10.2	5.6	110	<0.1	7.8	8.9	803	7.03	11	1.1	2.4	91	<0.1	0.6	0.1	50	0.99	0.217	14.6
IMA 3438	Pulp	11.6	25.0	8.4	69	0.3	19.3	19.3	1611	4.56	46	0.9	2.0	119	0.4	1.5	0.6	61	12.74	0.087	10.2
IMA 3439	Pulp	0.7	12.2	17.5	177	<0.1	21.1	17.2	714	4.44	7	1.1	3.8	319	0.1	0.4	<0.1	111	2.17	0.045	16.6
IMA 3440	Pulp	1.3	14.6	8.6	117	<0.1	10.5	23.7	1157	8.43	10	0.9	2.1	205	<0.1	2.0	0.2	318	3.09	0.064	8.3
IMA 3441	Pulp	0.8	25.5	8.3	196	<0.1	8.7	29.5	1854	8.40	6	1.2	2.7	225	0.1	1.6	<0.1	285	2.84	0.133	9.4
IMA 3442	Pulp	0.5	23.4	18.2	491	0.2	30.1	15.1	695	3.47	20	1.5	3.5	295	0.6	2.4	<0.1	81	6.04	0.085	17.4
IMA 3443	Pulp	0.7	48.1	15.0	333	0.2	23.8	21.2	1046	5.35	42	1.7	4.4	269	0.3	1.7	<0.1	143	2.38	0.080	27.5
IMA 3444	Pulp	0.9	18.2	13.7	71	<0.1	19.9	16.1	790	3.82	9	1.1	4.1	336	0.2	0.3	<0.1	90	2.28	0.090	20.1
IMA 3445	Pulp	0.7	9.9	14.3	106	0.1	19.4	11.4	648	3.53	3	0.9	3.4	314	0.2	0.5	0.4	82	2.15	0.039	14.5
IMA 3446	Pulp	1.2	15.4	28.5	186	0.2	20.9	14.9	2752	3.99	18	1.5	5.9	219	0.7	1.1	0.2	71	1.83	0.150	21.2
IMA 3447	Pulp	1.0	22.7	18.2	110	0.1	20.9	14.3	778	4.02	10	1.4	6.5	300	0.2	1.2	0.1	92	2.05	0.079	16.1
IMA 3448	Pulp	1.3	28.3	24.9	287	0.2	17.4	22.2	704	5.27	60	1.5	3.8	201	0.5	1.5	<0.1	192	1.57	0.137	23.6
IMA 3449	Pulp	0.9	12.4	14.8	155	<0.1	20.4	13.8	626	3.98	3	0.9	2.7	301	0.1	0.8	<0.1	100	2.41	0.028	12.8
IMA 3450	Pulp	0.9	5.3	13.6	86	<0.1	16.5	11.6	622	3.98	3	1.1	3.4	317	<0.1	0.2	<0.1	92	2.23	0.033	13.1
IMA 3451	Pulp	1.4	27.9	18.3	54	<0.1	22.8	16.3	1361	4.59	5	1.6	7.1	324	0.2	0.4	<0.1	104	3.23	0.113	38.0
IMA 3452	Pulp	1.1	11.1	5.8	54	0.3	7.7	7.6	1703	1.89	14	0.6	1.3	57	0.4	0.6	0.3	49	11.87	0.107	10.2
IMA 3453	Pulp	0.7	13.6	13.6	82	<0.1	21.0	13.2	560	3.87	3	1.0	3.9	275	0.2	0.4	<0.1	83	2.10	0.055	15.3
IMA 3454	Pulp	1.9	32.3	14.7	99	0.3	27.1	19.0	3670	3.99	6	2.4	7.7	278	0.6	0.9	0.1	81	2.43	0.103	60.0
IMA 3455	Pulp	1.6	41.5	76.1	1136	0.4	27.1	28.5	2010	6.06	71	2.2	5.4	220	3.1	4.7	0.7	164	3.16	0.149	30.6
IMA 3456	Pulp	1.0	11.3	13.7	117	<0.1	20.1	13.8	579	4.00	8	1.1	3.5	318	0.2	0.4	<0.1	96	2.14	0.034	14.7
IMA 3457	Pulp	1.2	12.1	13.2	113	<0.1	23.8	17.4	979	4.54	5	1.0	3.3	293	0.1	0.6	0.1	121	2.05	0.045	14.9



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Project: None Given
Report Date: October 18, 2019

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CERTIFICATE OF ANALYSIS

VAN19002990.1

Method Analyte Unit MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	
IMA 3428	Pulp	36	0.59	428	0.206	5.29	2.289	1.33	0.3	77.4	20	1.4	9.3	5.3	0.3	<1	7	6.8	<0.1	46.0	2.0
IMA 3429	Pulp	51	3.54	584	0.410	7.09	0.647	0.89	0.4	52.7	57	0.9	21.5	4.7	0.3	1	23	32.8	<0.1	31.3	1.6
IMA 3430	Pulp	48	0.60	370	0.267	4.00	1.553	0.97	0.7	93.4	18	2.4	6.6	5.9	0.4	1	8	6.1	<0.1	31.5	2.5
IMA 3431	Pulp	51	0.91	440	0.298	5.88	2.557	1.08	0.5	85.8	23	1.0	7.9	4.7	0.3	1	10	7.8	<0.1	27.3	2.3
IMA 3432	Pulp	65	1.20	396	0.309	5.86	2.094	1.05	0.9	81.0	36	1.1	10.2	4.4	0.3	1	11	17.6	<0.1	26.6	2.2
IMA 3433	Pulp	58	0.96	467	0.426	5.88	2.528	1.14	0.3	102.4	39	0.8	12.9	6.5	0.5	<1	12	8.8	<0.1	29.2	2.7
IMA 3434	Pulp	44	0.66	394	0.271	5.92	2.561	1.10	0.3	76.6	38	0.5	9.4	4.6	0.3	<1	8	6.6	<0.1	30.8	1.8
IMA 3435	Pulp	50	0.65	365	0.328	5.96	1.871	0.99	0.4	100.0	34	0.9	7.0	6.6	0.5	<1	8	10.9	<0.1	35.1	2.7
IMA 3436	Pulp	58	1.63	560	0.640	7.33	2.211	1.43	0.6	92.9	38	1.5	18.8	9.2	0.6	2	14	23.2	<0.1	37.5	2.6
IMA 3437	Pulp	11	4.67	550	0.931	8.91	0.467	3.46	0.2	247.4	48	2.1	25.1	3.1	0.2	2	43	92.7	<0.1	59.0	5.7
IMA 3438	Pulp	23	7.56	223	0.199	2.83	0.541	0.65	1.4	35.2	21	0.6	13.0	2.6	0.2	<1	6	12.4	<0.1	19.3	1.0
IMA 3439	Pulp	51	1.55	630	0.536	6.90	1.941	1.78	0.5	104.1	55	1.1	20.6	7.8	0.5	2	13	17.8	<0.1	43.6	3.1
IMA 3440	Pulp	34	1.70	216	1.538	7.22	2.738	0.61	0.7	93.8	26	1.7	32.9	7.4	0.4	2	22	26.4	<0.1	13.0	2.4
IMA 3441	Pulp	15	2.24	177	1.587	7.06	2.760	0.84	0.4	214.6	52	2.4	51.2	8.7	0.5	<1	35	23.5	<0.1	52.2	5.7
IMA 3442	Pulp	35	3.70	396	0.385	5.61	1.184	2.24	0.5	107.2	36	1.1	18.2	6.8	0.4	1	9	23.1	<0.1	39.7	3.5
IMA 3443	Pulp	45	1.84	493	0.767	6.53	1.867	1.94	0.6	160.7	59	1.4	33.8	8.5	0.5	1	16	21.9	<0.1	58.2	4.4
IMA 3444	Pulp	41	1.35	685	0.434	6.59	1.873	2.37	0.4	102.7	71	1.1	21.9	7.6	0.4	<1	11	12.5	<0.1	48.2	3.4
IMA 3445	Pulp	45	1.22	672	0.415	6.65	1.833	2.24	0.4	87.1	41	1.0	17.5	7.1	0.4	2	11	18.9	<0.1	48.6	2.6
IMA 3446	Pulp	40	1.47	856	0.360	6.78	1.189	1.69	0.7	74.8	78	1.2	20.9	7.5	0.5	<1	10	33.4	<0.1	39.9	2.0
IMA 3447	Pulp	47	1.36	664	0.427	7.06	1.717	2.43	0.6	119.7	72	1.1	20.7	8.2	0.4	1	11	17.6	<0.1	47.4	3.3
IMA 3448	Pulp	15	1.10	629	0.985	7.50	1.649	4.18	0.7	69.4	49	1.4	29.7	5.9	0.4	1	19	22.7	<0.1	77.2	2.0
IMA 3449	Pulp	52	1.75	678	0.493	6.92	1.807	1.83	0.5	101.6	31	1.4	16.7	8.6	0.5	1	11	23.1	<0.1	44.0	2.8
IMA 3450	Pulp	45	1.14	642	0.449	6.71	1.957	1.69	0.5	112.6	36	1.4	22.0	9.0	0.5	1	11	14.9	<0.1	43.0	3.1
IMA 3451	Pulp	50	1.59	576	0.477	6.47	2.039	1.47	0.5	103.3	95	1.5	40.1	9.7	0.6	1	15	10.9	<0.1	44.3	3.0
IMA 3452	Pulp	15	10.83	149	0.084	3.13	0.056	0.48	1.1	26.7	16	0.3	9.2	1.3	<0.1	<1	4	20.1	<0.1	8.7	0.6
IMA 3453	Pulp	53	1.55	676	0.439	6.71	1.652	1.89	0.7	113.9	57	1.2	17.7	8.4	0.5	<1	11	23.3	<0.1	52.2	3.3
IMA 3454	Pulp	63	1.48	751	0.425	6.60	1.662	1.55	4.7	121.3	73	1.5	46.0	8.0	0.5	1	17	33.1	<0.1	64.9	3.7
IMA 3455	Pulp	41	2.55	503	0.759	6.98	1.287	1.98	1.5	83.4	61	1.6	38.0	7.6	0.4	1	18	20.9	<0.1	63.5	2.4
IMA 3456	Pulp	48	1.20	628	0.479	6.72	1.927	1.89	0.4	114.2	53	1.2	20.9	8.7	0.5	2	11	17.4	<0.1	42.6	3.3
IMA 3457	Pulp	60	1.68	610	0.558	7.00	1.800	1.73	0.7	105.5	43	1.1	15.2	7.0	0.4	<1	13	23.4	<0.1	33.0	3.0



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN19002990.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
IMA 3428	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3429	Pulp	0.06	<0.005	<1	0.6	<0.5
IMA 3430	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3431	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3432	Pulp	<0.05	<0.005	<1	0.6	<0.5
IMA 3433	Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA 3434	Pulp	<0.05	<0.005	1	<0.5	<0.5
IMA 3435	Pulp	<0.05	<0.005	2	<0.5	<0.5
IMA 3436	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3437	Pulp	0.24	<0.005	1	<0.5	1.2
IMA 3438	Pulp	<0.05	<0.005	<1	6.2	<0.5
IMA 3439	Pulp	0.07	<0.005	<1	<0.5	<0.5
IMA 3440	Pulp	0.10	<0.005	<1	<0.5	<0.5
IMA 3441	Pulp	0.13	<0.005	<1	0.5	<0.5
IMA 3442	Pulp	<0.05	<0.005	<1	1.9	0.6
IMA 3443	Pulp	0.08	<0.005	<1	<0.5	0.6
IMA 3444	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3445	Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3446	Pulp	0.09	<0.005	<1	<0.5	0.5
IMA 3447	Pulp	0.05	<0.005	<1	<0.5	<0.5
IMA 3448	Pulp	<0.05	<0.005	<1	<0.5	0.9
IMA 3449	Pulp	0.07	<0.005	1	<0.5	<0.5
IMA 3450	Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3451	Pulp	<0.05	<0.005	<1	0.8	<0.5
IMA 3452	Pulp	<0.05	<0.005	<1	5.1	<0.5
IMA 3453	Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3454	Pulp	0.05	<0.005	1	<0.5	0.7
IMA 3455	Pulp	0.08	<0.005	<1	0.7	1.1
IMA 3456	Pulp	0.06	<0.005	<1	<0.5	<0.5
IMA 3457	Pulp	<0.05	<0.005	<1	0.7	<0.5



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN19002990.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	1	0.01	0.001	0.1	
IMA 3458	Pulp	1.0	20.5	15.7	93	0.1	25.7	20.2	850	5.09	10	1.3	5.1	274	0.1	0.9	0.1	122	2.74	0.056	19.1
IMA 3459	Pulp	2.1	35.7	33.6	416	0.4	24.7	15.6	5566	7.35	28	1.5	6.0	230	1.7	2.1	0.1	96	3.48	0.152	33.2
IMA 3460	Pulp	0.6	23.2	15.3	103	0.2	30.4	21.3	1153	4.60	10	1.7	5.0	300	0.4	0.5	0.1	108	3.64	0.125	32.5
IMA 3461	Pulp	1.6	29.0	23.0	105	0.2	48.6	30.9	2807	7.72	8	1.6	5.2	235	0.6	0.8	0.5	167	2.95	0.128	33.3
IMA 3462	Pulp	1.6	12.7	12.9	116	<0.1	20.7	16.1	840	4.29	6	1.2	4.7	296	0.1	0.5	0.3	100	2.18	0.049	16.3
IMA 3463	Pulp	0.9	16.5	12.6	88	<0.1	20.3	15.5	629	3.85	3	1.1	3.6	291	<0.1	0.5	0.2	107	2.29	0.023	15.8
IMA 3464	Pulp	1.1	22.3	10.5	78	<0.1	21.9	17.4	558	5.04	12	1.2	4.6	269	<0.1	0.6	<0.1	170	2.64	0.064	19.9
IMA 3465	Pulp	1.3	13.2	15.9	118	0.1	19.4	14.2	647	4.29	15	1.0	4.7	288	0.3	0.4	0.1	91	2.03	0.050	16.4
IMA 3466	Pulp	1.0	15.4	20.8	112	0.1	22.4	14.5	601	3.84	12	1.2	4.8	300	0.2	0.6	<0.1	89	2.02	0.042	27.6
IMA 3467	Pulp	1.2	24.5	21.0	106	<0.1	27.4	19.9	930	5.15	14	1.4	5.9	260	0.2	1.0	0.3	155	2.65	0.052	21.2
IMA 3468	Pulp	2.5	30.2	22.4	171	0.4	30.5	18.5	1853	4.18	30	1.3	5.3	289	0.4	0.9	0.2	87	2.74	0.106	31.4
IMA 3469	Pulp	0.6	18.7	11.5	59	<0.1	15.7	12.1	695	3.26	1	1.2	5.2	352	0.1	0.7	<0.1	91	3.14	0.126	23.1



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN19002990.1

Method	Analyte	Unit	MDL	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200			
				Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
				ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
				1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
IMA 3458	Pulp	55	2.48	523	0.554	6.49	1.772	1.62	0.6	114.8	87	1.1	23.9	7.5	0.5	1	15	17.1	<0.1	32.1	3.4			
IMA 3459	Pulp	44	2.22	584	0.337	5.46	1.222	1.42	0.8	118.4	66	1.1	32.2	7.6	0.4	2	11	13.9	<0.1	44.3	3.4			
IMA 3460	Pulp	45	2.89	529	0.539	6.72	1.741	1.64	0.8	129.5	62	1.3	34.6	8.8	0.5	1	14	20.0	<0.1	52.4	3.9			
IMA 3461	Pulp	69	2.67	508	0.694	6.27	1.493	1.68	1.2	95.1	82	1.2	46.6	6.7	0.4	1	25	25.0	<0.1	42.9	2.7			
IMA 3462	Pulp	41	2.02	643	0.460	6.29	2.009	1.68	0.7	128.0	47	1.0	21.0	7.6	0.4	2	12	14.5	<0.1	32.7	3.7			
IMA 3463	Pulp	45	2.13	604	0.594	6.33	1.811	2.19	0.7	120.9	40	1.2	18.6	7.5	0.4	1	12	17.0	<0.1	35.8	3.8			
IMA 3464	Pulp	65	1.88	459	0.763	7.31	2.363	1.28	0.6	109.7	56	1.2	24.7	6.5	0.4	1	19	22.3	<0.1	36.0	3.1			
IMA 3465	Pulp	49	1.45	623	0.421	6.65	1.774	1.87	0.6	103.7	63	1.2	21.0	7.9	0.4	1	11	14.6	<0.1	43.4	2.8			
IMA 3466	Pulp	43	2.27	625	0.396	6.88	1.713	2.44	0.6	106.5	66	1.3	27.7	7.5	0.4	2	13	20.2	<0.1	36.8	3.1			
IMA 3467	Pulp	56	1.73	503	0.737	7.06	1.685	2.95	1.3	90.0	53	1.3	26.9	6.5	0.4	1	17	15.0	<0.1	43.2	2.6			
IMA 3468	Pulp	42	1.89	642	0.398	6.36	1.592	2.69	0.7	104.6	62	1.2	35.1	7.1	0.4	2	13	17.1	<0.1	56.4	3.0			
IMA 3469	Pulp	43	1.45	600	0.467	6.26	2.338	1.69	0.9	100.6	51	1.5	32.2	9.1	0.5	1	14	13.4	<0.1	35.4	3.0			



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Project: None Given
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CERTIFICATE OF ANALYSIS

VAN19002990.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200
		In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm
MDL		0.05	0.005	1	0.5	0.5
IMA 3458	Pulp	0.06	<0.005	<1	0.6	<0.5
IMA 3459	Pulp	0.05	<0.005	<1	0.6	0.8
IMA 3460	Pulp	<0.05	<0.005	<1	0.8	0.6
IMA 3461	Pulp	0.07	<0.005	<1	0.7	1.6
IMA 3462	Pulp	<0.05	<0.005	<1	<0.5	<0.5
IMA 3463	Pulp	0.06	<0.005	<1	0.9	<0.5
IMA 3464	Pulp	0.07	<0.005	<1	<0.5	0.5
IMA 3465	Pulp	0.05	<0.005	<1	<0.5	<0.5
IMA 3466	Pulp	0.05	<0.005	<1	0.6	<0.5
IMA 3467	Pulp	<0.05	<0.005	<1	<0.5	0.7
IMA 3468	Pulp	<0.05	<0.005	<1	<0.5	1.4
IMA 3469	Pulp	<0.05	<0.005	1	0.6	<0.5



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Project: None Given
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QUALITY CONTROL REPORT

VAN19002990.1

Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1	
Pulp Duplicates																					
IMA 3429	Pulp	0.8	348.0	12.7	113	0.2	112.2	202.3	2117	9.45	2	0.9	2.7	170	<0.1	0.6	<0.1	179	0.81	0.067	17.7
REP IMA 3429	QC	0.7	351.5	13.2	110	0.2	113.1	200.8	2103	9.50	2	1.0	2.6	174	<0.1	0.2	<0.1	181	0.82	0.066	17.0
IMA 3440	Pulp	1.3	14.6	8.6	117	<0.1	10.5	23.7	1157	8.43	10	0.9	2.1	205	<0.1	2.0	0.2	318	3.09	0.064	8.3
REP IMA 3440	QC	1.3	14.8	8.7	114	<0.1	11.2	24.7	1178	8.53	9	0.9	2.3	214	0.1	2.1	0.2	322	3.11	0.066	8.3
Reference Materials																					
STD OREAS25A-4A	Standard	2.2	35.2	24.3	47	<0.1	47.0	7.6	484	6.35	13	2.7	14.7	48	0.1	0.7	0.3	149	0.25	0.051	17.4
STD OREAS25A-4A	Standard	2.4	37.5	24.8	42	<0.1	47.0	7.8	471	6.52	11	2.8	15.7	46	<0.1	0.8	0.5	155	0.27	0.051	20.8
STD OREAS25A-4A	Standard	2.5	35.0	24.1	48	<0.1	49.5	8.0	496	6.53	11	2.7	15.1	45	<0.1	0.6	0.3	158	0.28	0.046	20.1
STD OREAS45E	Standard	2.3	767.0	17.8	43	0.3	457.8	56.3	518	23.08	16	2.4	12.7	16	<0.1	1.1	0.3	337	0.06	0.035	10.8
STD OREAS45H	Standard	1.4	761.2	12.0	45	0.1	451.2	90.1	383	19.45	17	1.5	7.0	26	<0.1	0.5	0.1	271	0.13	0.022	12.2
STD OREAS45E Expected		2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048	21.8
STD OREAS45H Expected		1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135	0.023	12.4
BLK	Blank	<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	0.2	0.2	<1	<0.1	0.2	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	0.3	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1



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Project: None Given
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QUALITY CONTROL REPORT

VAN19002990.1

Method	Analyte	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
Unit		ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL		1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	
Pulp Duplicates																					
IMA 3429	Pulp	51	3.54	584	0.410	7.09	0.647	0.89	0.4	52.7	57	0.9	21.5	4.7	0.3	1	23	32.8	<0.1	31.3	1.6
REP IMA 3429	QC	51	3.64	579	0.406	7.17	0.663	0.90	0.4	53.0	57	0.8	22.3	4.8	0.3	<1	24	30.8	<0.1	33.6	1.4
IMA 3440	Pulp	34	1.70	216	1.538	7.22	2.738	0.61	0.7	93.8	26	1.7	32.9	7.4	0.4	2	22	26.4	<0.1	13.0	2.4
REP IMA 3440	QC	36	1.70	218	1.569	7.40	2.686	0.66	0.7	99.7	27	1.8	33.5	7.6	0.5	2	23	28.0	<0.1	13.5	2.7
Reference Materials																					
STD OREAS25A-4A	Standard	116	0.31	153	0.908	8.48	0.118	0.47	2.0	144.5	41	3.4	9.2	18.6	1.4	<1	11	37.0	<0.1	51.3	4.3
STD OREAS25A-4A	Standard	114	0.33	154	0.930	8.85	0.141	0.47	2.0	154.1	45	4.5	10.3	20.7	1.5	<1	13	37.7	<0.1	57.7	4.0
STD OREAS25A-4A	Standard	122	0.28	147	0.890	9.04	0.127	0.46	1.7	151.6	44	3.8	9.3	19.4	1.4	1	12	39.1	<0.1	62.7	4.1
STD OREAS45E	Standard	943	0.17	261	0.532	6.83	0.056	0.32	1.0	92.1	24	1.3	7.9	6.1	0.5	<1	88	6.9	<0.1	21.4	2.8
STD OREAS45H	Standard	670	0.20	321	0.859	8.08	0.090	0.19	0.8	115.0	23	1.7	8.8	12.8	0.9	1	54	14.2	<0.1	21.5	3.1
STD OREAS45E Expected		979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
STD OREAS25A-4A Expected		115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14
STD OREAS45H Expected		602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1		22.5	3.6
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.1	<0.1
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.001	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	<0.1	<0.1
BLK	Blank	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1	0.3	<0.1



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Project: None Given
Report Date: October 18, 2019

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QUALITY CONTROL REPORT

VAN19002990.1

Method	MA200	MA200	MA200	MA200	MA200	
Analyte	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	
MDL	0.05	0.005	1	0.5	0.5	
Pulp Duplicates						
IMA 3429	Pulp	0.06	<0.005	<1	0.6	<0.5
REP IMA 3429	QC	0.06	<0.005	<1	<0.5	<0.5
IMA 3440	Pulp	0.10	<0.005	<1	<0.5	<0.5
REP IMA 3440	QC	0.08	<0.005	<1	<0.5	<0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.11	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	0.07	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	0.08	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E Expected		0.099		2.97	0.1	0.15
STD OREAS25A-4A Expected		0.09		2.4		0.35
STD OREAS45H Expected		0.1		2.02		
BLK	Blank	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.05	<0.005	1	<0.5	<0.5