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Assessment Report on the 2016 Soil Sampling Program

**Brookbank Project
Greenstone Gold Mines GP Inc.**

Beardmore Area, Thunder Bay Mining Division
Irwin Township
NTS Sheets 42 E/12

Prepared by:
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Summary

3 soil sampling programs were completed on the Brookbank property between May 18th – September 12th, 2016: Brookbank Orientation Survey; Patter Lake Survey; and Brookbank East Survey.

The soil surveys on the Brookbank Property were conducted as a reconnaissance-scale method of testing and evaluating the potential for gold mineralization at various litho-structural targets across the property. A low threshold analytical Au and multi-element package tested ~1 kg till samples and ~0.5 kg B horizon soil samples to evaluate the spatial distribution of ultrafine gold down-ice of the Brookbank deposit. All samples were sent to ALS Minerals.

The Brookbank Orientation Survey line spacing was 200 m with samples being collected every 100m. 183 B horizon samples, and 80 C horizon (till) samples. The Patter Lake Survey had a line spacing of 400 m with sample locations every 200 m. 37 B horizon samples and 12 C horizon (till) samples were collected. The Brookbank East Survey had a line spacing of 200 m with samples collected every 100 m. 101 B horizon samples and 24 C horizon (till) samples were collected. The orientation survey at Brookbank has demonstrated that B horizon samples are sufficient for delineating gold mineralization. The distribution of samples from the Patter Lake Survey suggests the potential for gold bearing structures in the hanging wall of the Brookbank deposit.

A Principal Component Analysis was performed on the assay results of the B and C horizon samples. Both B and C horizon multi-element data show that the dominant elements associated with relative gold enrichment are: Mo-Cu-Ag-Cs-Bi-Te-Hg-Pb (B horizon PC3), Mo-Nb-W-Hg-Ti-Zr-Cu-Cs-Ag (C horizon PC3), and Sb-As show a weak association with relative gold enrichment.

Property Description, Access, Climate and Physiography

The Brookbank property is located 15 kilometres' northeast of the town of Beardmore, Ontario in the municipality of Greenstone. The property is located within the townships of Irwin, Sandra, Walters, Leduc and Legault on NTS Map sheets 42E/11 and 42E/12 (Figure 1). All work referred to in this report was completed in Irwin Township.

The closest major city is Thunder Bay Ontario which is located approximately 180 kilometres southwest of the property. The city of Thunder Bay has a population of 109,000 and provides support services, equipment and skilled labour for both the mineral exploration and mining industry. Rail, national highway, port, and international airport services are also available out of Thunder Bay.

The land surround the property is Crown Land, with limited access that is used primarily for recreation. Seasonal cottages, situated on Windigokan Lake are located approximately seven kilometres west of the Brookbank Zone. The property can be directly accessed through Windigokan Lake Road, which runs off highway 11 just over 13 kilometres' northeast of Beardmore, Ontario. Windigokan Lake Road is a gravel road that must be plowed in the winter to access the property year-round.

The property is located within the Lake Nipigon Eco-region of the Boreal Shield Eco-zone. The climate is characterized by warm summers and cold, snowy winters. The temperature range for the winter months (November to March) is on average -40°C to 5°C, whereas in the winter months (June to September) the temperature range is on average 30°C to 5°C. Precipitation is variable from year to year, with the bulk of the yearly total occurring as showers and thunderstorms in the summer months. The area is snow covered for approximately 5 months of the year. Weather conditions rarely become severe in the area and exploration activities can persist throughout the year with the only weather related issues pertain to heavy snowfall or spring breakup.

The topography of the property is characterized by rolling hills and east-west rocky ridges, with intervening swampy ground and lakes. Relief does exceed 100 metres in certain areas of the property; however, it is generally less than 10 metres.

The climate can be classified and humid continental and supports a wide range of vegetation. The dominant tree species in the area are typically of mixed forest including; balsam fir, black spruce, jack pine, and poplar. Ground cover consists of moss and lichen. Hummocky bedrock outcrops covered with this acidic moraine deposits, fluvial lacustrine silts, and sands dominate the landscape.

Drainage within the northern portion of the property is via the Namewaminikan River which eventually drains into Lake Nipigon to the west. The southern portion of the property drains south to the Blackwater River, which flows westerly.

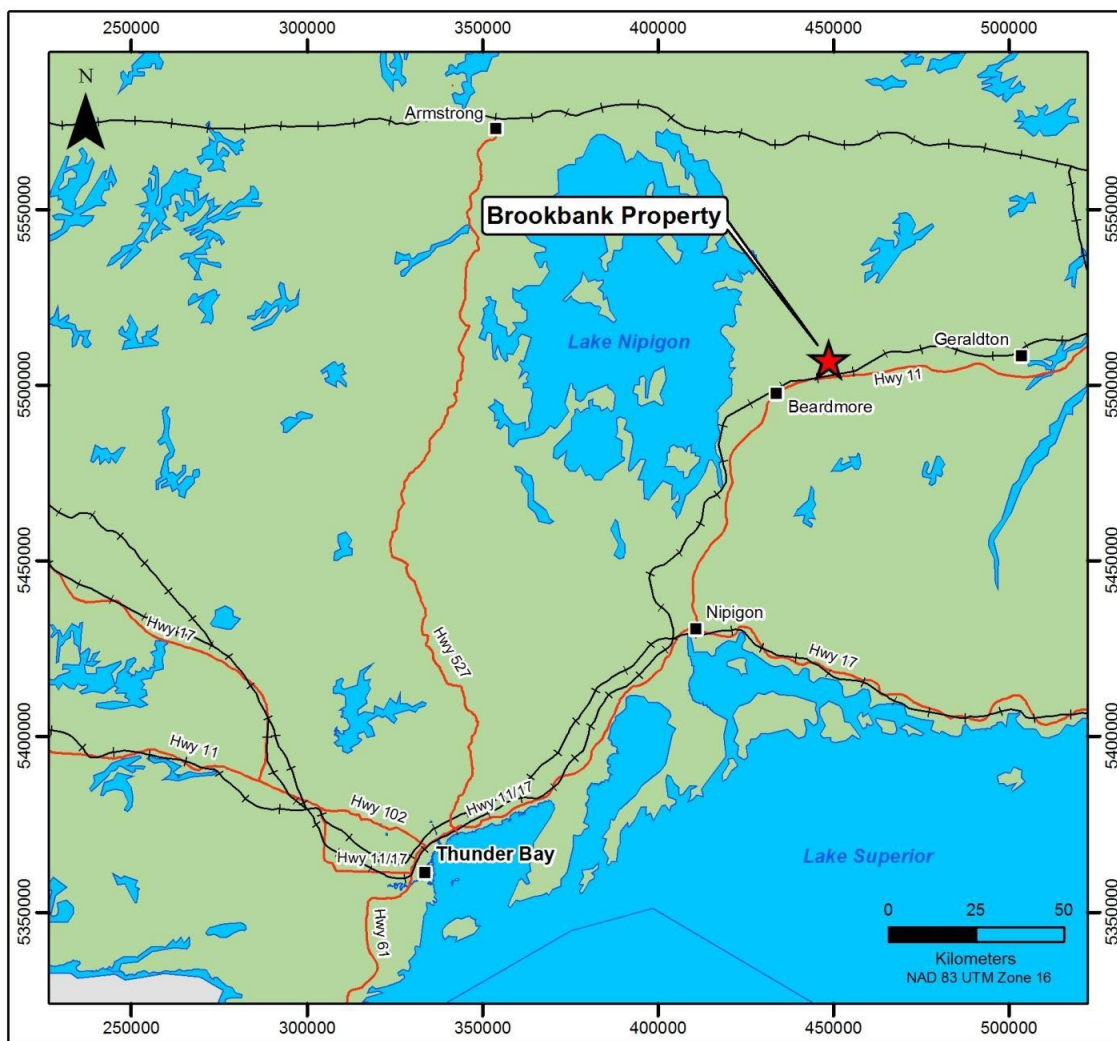


Figure 1 Property Location Map.

Land Tenure

The Brookbank property consists of 612 unpatented mining claims and 77 mining leases totaling to 689 mining claims. The Brookbank property covers 15,847.89 ha which includes the Brookbank, Cherbourg and Foxear zones.

Greenstone Gold Mines (hereafter referred to as “the company”) wholly owns 18 leased mining claims and 4 unpatented mining claims. Two joint ventures with Metalore Resources make up the rest of the property. 240 mining claims are 74% owned by Greenstone Gold Mines and 26% owned by Metalore Resources. The second joint venture is 79% Greenstone Gold Mines and 21% Metalore which makes up 427 mining claims.

Claim details for the entire Brookbank property is given in Appendix A. Figure 2 shows the Brookbank claim block land tenure.

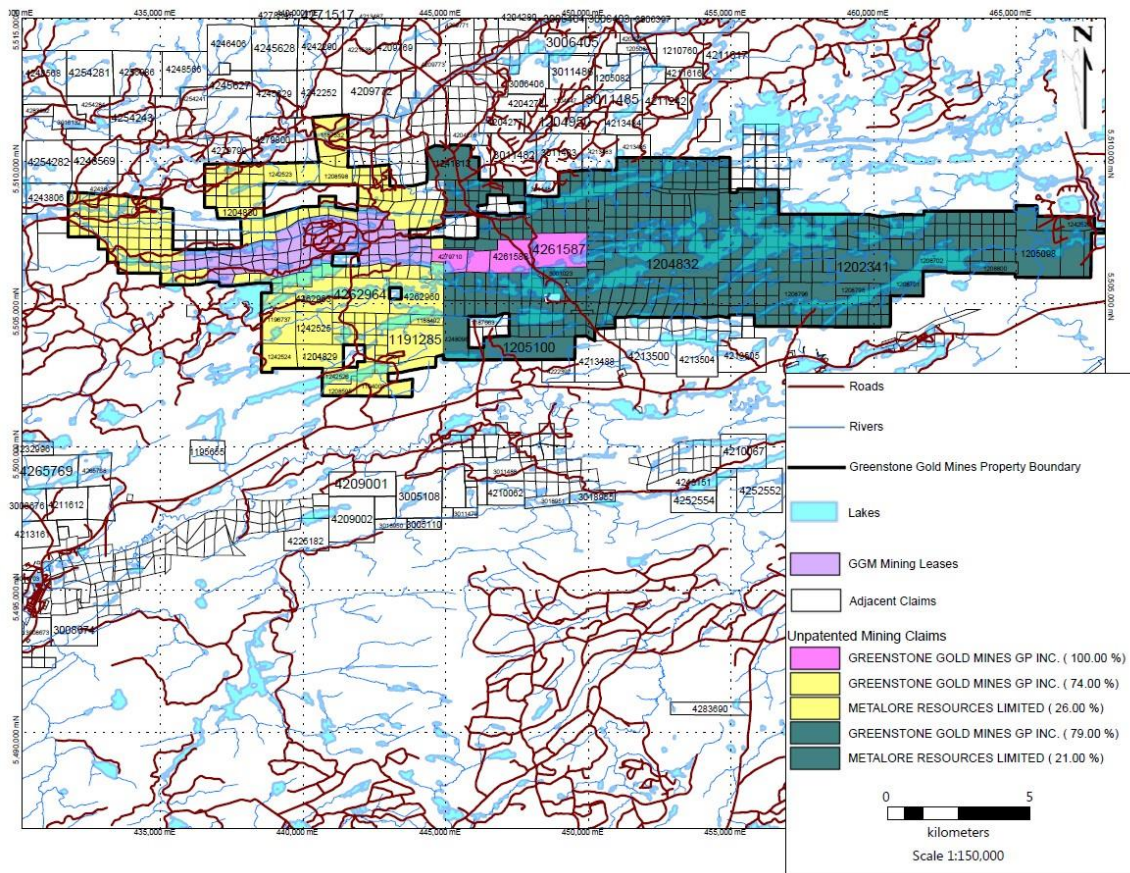


Figure 2 Land tenure of the Brookbank claim block, including joint venture agreements.

The work detailed in this report was conducted on a combined 67 unpatented mining claims and leased claims. The claims are a combination of 100% owned by Greenstone Gold Mines and two joint ventures with Metalore Resources. See table 1 for the list of unpatented and leased mining claims that the soil sampling surveys took place on.

Table 1 Greenstone Gold Mines' claim holdings at the Brookbank Property.

Township	Claim ID	Lease	Recording Date	Claim Due Date	Claim Type	Claim Units	Percent Option	Work Required
Irwin	658054		1983-Jul-14	2018-May-15	Unpatented	1	74%	\$400
Irwin	658055		1983-Jul-14	2018-May-15	Unpatented	1	74%	\$400
Irwin	658056		1983-Jul-14	2018-May-15	Unpatented	1	74%	\$400
Irwin	658057		1983-Jul-14	2018-May-16	Unpatented	1	74%	\$400
Irwin	658058		1983-Jul-14	2018-May-15	Unpatented	1	74%	\$400
Irwin	715494		1983-Aug-10	2018-Jun-11	Unpatented	1	74%	\$400
Irwin	747163		1984-Mar-20	2018-Jan-20	Unpatented	1	74%	\$400
Irwin	747164		1984-Mar-20	2018-Jan-20	Unpatented	1	74%	\$400
Irwin	747165		1984-Mar-20	2018-Jan-20	Unpatented	1	74%	\$400
Irwin	963859		1986-Dec-15	2018-Apr-20	Unpatented	1	74%	\$400
Irwin	TB19945	19288	01-Jan-05	2024-Dec-31	Lease		74%	
Irwin	TB19947	19282	01-Jan-05	2024-Dec-31	Lease		74%	
Irwin	TB19949	19283	01-Jan-05	2024-Dec-31	Lease		74%	
Irwin	TB21111	19291	01-Jan-05	2024-Dec-31	Lease		74%	
Irwin	TB21112	19290	01-Jan-05	2024-Dec-31	Lease		74%	
Irwin	TB21113	19289	01-Jan-05	2024-Dec-31	Lease		74%	
Irwin	TB24846	19296	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB24847	19295	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB24848	19294	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB27244	19287	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB27245	19286	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB27246	19293	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB27247	19292	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB27248	19285	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB27416	19284	01-Jan-05	31-Dec-24	Lease		74%	
Irwin	TB29025	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29026	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29027	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29028	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29029	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29030	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29031	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29032	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29033	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29034	109291	01-Jun-12	31-May-33	Lease		100%	
Irwin	TB29035	109291	01-Jun-12	31-May-33			100%	
Irwin	TB29036	109291	01-Jun-12	31-May-33			100%	
Irwin	TB29037	109291	01-Jun-12	31-May-33			100%	
Irwin	TB29038	109291	01-Jun-12	31-May-33			100%	
Irwin	TB29039	109291	01-Jun-12	31-May-33			100%	
Irwin	TB29040	109291	01-Jun-12	31-May-33			100%	
Irwin	TB29041	109291	01-Jun-12	31-May-33			100%	
Irwin	TB29042	109291	01-Jun-12	31-May-33			100%	
Irwin	TB602174	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602175	109294	01-Jun-12	31-May-33			74%	

Irwin	TB602176	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602177	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602178	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602179	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602180	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602184	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602185	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602186	109294	01-Jun-12	31-May-33			74%	
Irwin	TB602187	109293	01-Jun-12	31-May-33			74%	
Irwin	TB602188	109293	01-Jun-12	31-May-33			74%	
Irwin	TB602190	109293	01-Jun-12	31-May-33			74%	
Irwin	TB602191	109293	01-Jun-12	31-May-33			74%	
Irwin	TB602192	109293	01-Jun-12	31-May-33			74%	
Irwin	TB603635	109293	01-Jun-12	31-May-33			74%	
Irwin	TB603636	109293	01-Jun-12	31-May-33			74%	
Irwin	TB614090	109294	01-Jun-12	31-May-33			74%	
Irwin	TB614091	109294	01-Jun-12	31-May-33			74%	
Irwin	TB614092	109294	01-Jun-12	31-May-33			74%	
Irwin	TB614093	109294	01-Jun-12	31-May-33			74%	
Irwin	TB659270	109293	01-Jun-12	31-May-33			74%	
Irwin	TB659271	109293	01-Jun-12	31-May-33			74%	
Irwin	TB659272	109293	01-Jun-12	31-May-33			74%	

Geological Setting

1.1 Regional Geology

The Brookbank deposit lies within the Beardmore-Geraldton Greenstone Belt (BGGB), which is an Archean metavolcanic-metasedimentary terrane. It lies at the boundary between the Quetico Subprovince and the eastern Wabigoon Subprovince, both being located within the Superior Province. The BGGB can be further sub-divided into east striking sub belts, all greenschist facies of metamorphic grade.

The overall structure of BGGB appears to be one of six stacked, imbricated, internally northward younging sheets which have been interpreted as the product of accretionary wedge tectonics. Large scale D1 thrusting occurred along the southern margin of the Wabigoon Subprovince in the Beardmore Geraldton area between 2696 Ma and 2691 Ma. A comprehensive D2 event (2692 Ma to 2686 Ma) steepened the beds to a near vertical position, forming large scale fold structures, resulting in what was to become the current structure of the belt (Smyk, M., Fralick, P., and Hart, T., 2005).

The following is taken verbatim from Blakely and Moreton (2009).

The Brookbank Project lies near the southern boundary of the east-trending, isoclinally folded Wabigoon Subprovince of the Superior Structural Province (Figure 3). The Wabigoon Subprovince (Wabigoon) is a 900 km long, 150 km wide, granite greenstone strip that consists of metamorphosed volcanic and subordinate sedimentary rocks, ranging in age from about 3 to 2.71 billion years old. These units are cut by *circa* 3 to 2.69-billion-year-old granitoid batholiths, gabbroic sills and stocks. The Wabigoon has been divided by Blackburn *et al.* (1991) into three regions, each with differing structural styles and proportions of the major units. The Brookbank Project is located within the eastern region of the Wabigoon where the geology largely consists of isolated greenstone septa surrounded by granitoid units. The Wabigoon has been subjected to at least two major structural events, the first of which is an early aggregation of supracrustal assemblages. The second deformation relates to the interaction of the Wabigoon with its neighbouring geology; this results in contrasting patterns between the interior and margins of the subprovince (Blackburn *et al.*, 1991).

The Wabigoon is bordered to the south by the Quetico Subprovince, a linear strip of dominantly metasedimentary rocks, with migmatitic and anatectic derivatives, that has a relatively consistent width of 70 km. It extends from Minnesota in the southwest, eastwards across Ontario for nearly 1,000 km. It consists predominantly of metamorphosed turbiditic wacke, largely derived from, and deposited during and after, the volcanic climax in the neighbouring Wawa, Wabigoon and Abitibi subprovinces, during the period from 2.70 to 2.69 billion years. The southern margin of the Wabigoon displays a linear structural grain manifested by repetitive volcanic and sedimentary sequences in which stratigraphic facing may be inward, outward or inconsistent. Major transcurrent faults occur at, and adjacent to, the southern margin of the Wabigoon, paralleling the structural grain. The

subprovince boundaries are presently considered to be predominantly tectonic but in some places, may originally have been depositional (Williams, 1991).

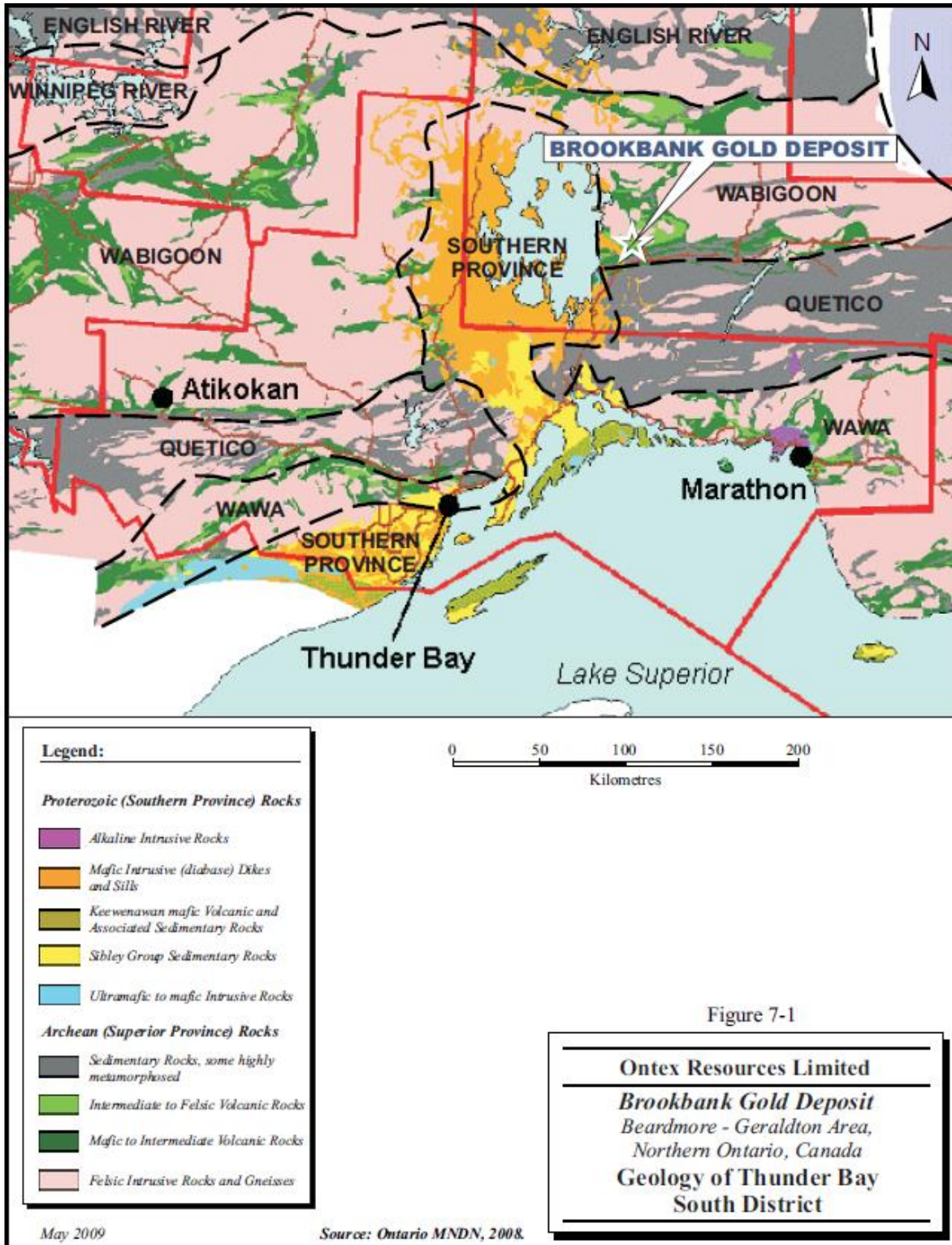


Figure 3 Regional Geology (from Blakely and Moreton, 2009).

1.2 Local Geology

The following is also taken verbatim from Blakely and Moreton (2009).

The Brookbank Project lies near the southern margin of the Beardmore-Geraldton greenstone belt (BGGB). The BGGB is a Neoproterozoic metavolcanic-metasedimentary terrane at the boundary of the eastern Wabigoon Subprovince and the Quetico Subprovince. The following description is taken from Smyk *et al.* (2005).

The BGGB can be subdivided into six east-striking sub-belts, all of greenschist facies metamorphic grade. These are the northern metasedimentary sub-belt (NMB), northern volcanic sub-belt (NVB), central metasedimentary sub-belt (CMB), central volcanic subbelt (CVB), southern metasedimentary sub-belt (SMB) and the southern volcanic sub-belt (SVB) (Devaney and Williams, 1989; see also Figure 4).

Although these sub-belts are fault-bounded, current consensus suggests that they probably reflect an original sedimentary assemblage deposited on a cratonic margin in environments ranging from alluvial fan-braid plain in the NMB, through fan delta-braid delta in the CMB to a submarine fan/ramp in the SMB. Original continuity of this succession is supported by consistent stratigraphic trends and sedimentary structures that mostly young to the north. Isoclinal folds notwithstanding, the overall structure of the BGGB appears to be initially one of stacked, imbricate, internally northward-younging sheets which have been interpreted as the product of accretionary wedge tectonics.

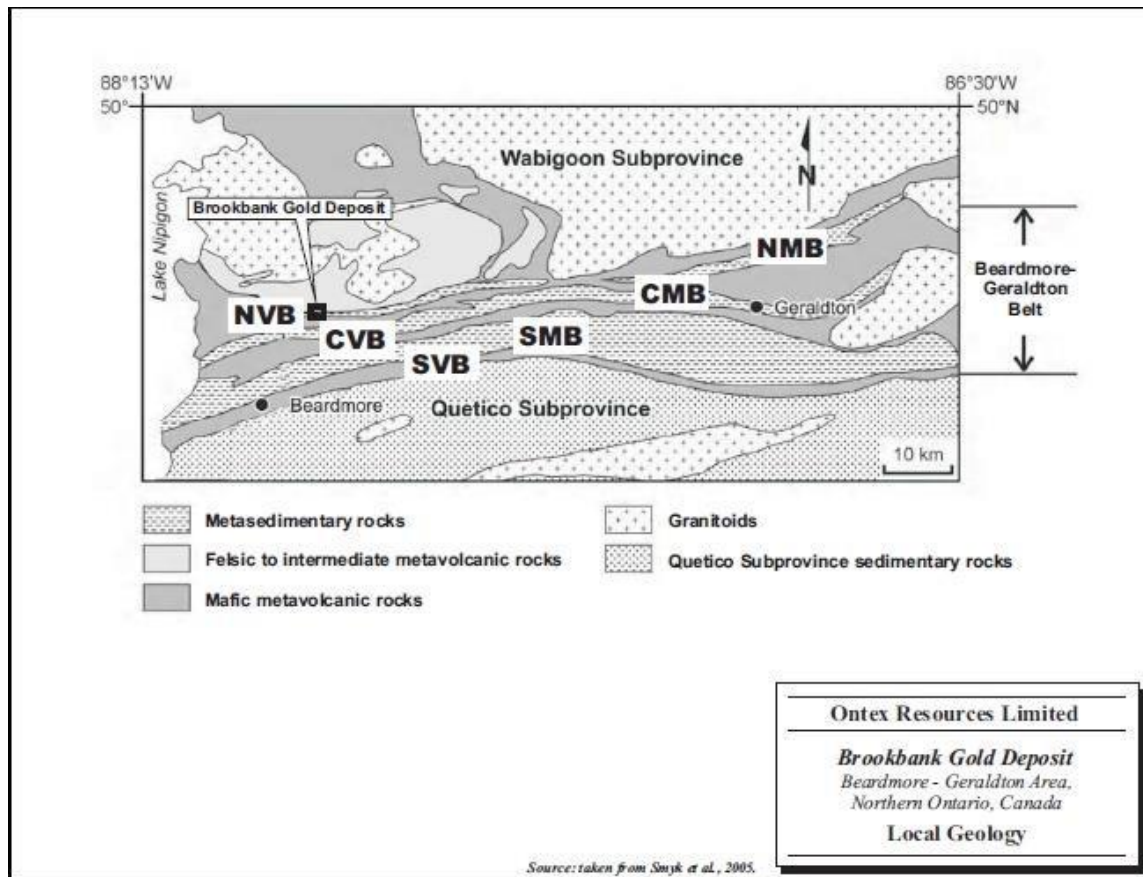


Figure 4 Local Geology (from Blakely and Moreton, 2009).

1.3 Igneous Rock

The following is taken verbatim from Blakely and Moreton (2009).

Mafic metavolcanic rocks of the SVB consist of massive and pillowed flows, with minor tuffs, lapilli tuffs and tuff breccias with associated interflow chert-magnetite iron formations. The CVB consists of intermediate massive and pillowed flows with significant tuffs, lapilli tuffs and tuff breccias and minor interflow chert-magnetite iron formation. The NVB is subdivided into the northern Bish Bay assemblage (BBA) and southern Poplar Point assemblage (PPA).

The BBA is composed of east striking mafic pillowed to massive flows and rare tuffs resembling the SVB. The PPA consists of northwest striking intermediate flows, tuff breccias and tuffs resembling the CVB, with subordinate mafic massive and pillowed flows.

A number of igneous rock types intrude the supracrustal rocks of the BGB. These include a series of mafic to ultramafic, synvolcanic rocks, intermediate to felsic synvolcanic rocks, mafic post-tectonic intrusions and diabase dykes. The synvolcanic gabbroic rocks form thin sills sub-parallel to the strike of the mafic metavolcanic rocks of the SVB and the BBA. A large composite intrusion within the BBA displays both gabbroic and peridotitic phases in its

southern and northern parts, respectively. A series of intermediate to felsic dikes and sills, ranging from massive granodiorite to quartzporphyritic, feldspar-porphyritic and feldspar-quartz-porphyritic phases, occurs within the metavolcanic rocks of the PPA. These units appear to have been emplaced along the regional foliation, although some bodies are sub-horizontal in orientation. A feldsparporphyritic granodiorite dike intrudes the mafic flows of the SVB and resembles the dikes of the PPA. Late, post-tectonic diorite sills predominantly occur within the metasedimentary and metavolcanic rocks along the contact between the SSB and CVB. Additional intrusions located along the northern and southern contacts of the PPA are generally undeformed diorite sills that display chilled contacts with the metasedimentary rocks. A swarm of narrow, generally north-striking diabase dikes intrudes the supracrustal rocks and appears to be predominantly Paleoproterozoic in age. A series of Mesoproterozoic diabase sills of the Nipigon Sill Complex intrude all other supracrustal rocks of the BGGB.

1.4 Sedimentary Rock

The following is taken verbatim from Blakely and Moreton (2009).

The NMB, the northern (uppermost) third of the CMB, and the northernmost portion of the SMB are dominated by a conglomeratic assemblage with minor amounts of sandstone. The clast-supported conglomerates are poorly to moderately sorted, and almost always non-graded with a poorly to moderately sorted sand matrix. Bedding is defined by variations in average or maximum clast size between units, but it is commonly indistinct. Scouring is locally preserved, but most other primary features such as imbrication have been destroyed by deformation. Sandstones interbedded with the conglomerates commonly appear massive, but in some outcrops planar lamination and cross-stratification are present. They have different forms ranging from lenses in conglomeratic beds; thin, irregular sheets blanketing conglomeratic beds; wedges abutting conglomeratic beds; and thicker units separating conglomerate layers. Clast types in the conglomerates are almost exclusively igneous, representing a suite of rocks like those present in the Onaman-Tashota volcanic terrane to the north.

The turbiditic association of the SMB can be divided into a clastic association and a chemical association, the latter with a high proportion of oxide-facies, banded iron formation (BIF) layers. In the chemical association, clastic interbeds are generally less than several centimeters thick, and range in grain size from silt to coarse sand. Upward-thickening and upward-coarsening trends over several metres are locally present, as at Solomon's Pillars and the Leitch Mine near Beardmore. Within the overall upward trend, oscillations between silts, sands, and iron formation occur. Depending on the relations between these types of beds, four iron formation lithofacies associations (IFLA) can be defined.

Conglomerates contain mainly mafic to felsic volcanic and granitic clasts. Although flattened clasts indicate that IFLA outcrops are tectonically thinned, their associations are primary, with the conglomeratic units erosively cutting down into BIF-sandstone packages. Transitions between various IFLA types can be gradual or abrupt.

Some silt-sand successions containing iron formation exhibit intervals of thicker and well-graded clastic beds. They form structured sections up to several metres thick within successions that are otherwise generally disorganized.

Clastic units in the lower two thirds of the CMB and the SMB are divisible into three lithofacies associations: a thin-bedded, turbidite-dominated association (LA2); a medium bedded, turbidite-dominated association (LA3); and a thick-bedded association (LA4). LA2 consists mostly of graded, less than 10 cm thick siltstone and/or sandstone beds that are either unstructured or thin and fine upwards over one metre to three metres. LA3 is divisible into two types, LA3a and LA3b. LA3a consists of medium- to coarse- grained sandstones with sharp bottom and top contacts. Parallel lamination is present near the tops of some of the otherwise massive beds. These successions are unstructured. LA3b is similar to LA3a except these beds are organized into either upward-thickening or upward-thinning trends. Thick, poorly graded sandstones dominate LA4. The beds typically have a coarse sand or pebbly base, grading into a thick, poorly sorted, massive central area. They are often abruptly capped by thin, fine-grained sandstone. Irregular, erosional bases and scattered rip-up clasts are common.

Structured, upward-thinning and upward-finishing sequences, metres to tens of metres thick, are present in the area south of Beardmore (Figure 3). The successions are topped by Bouma-style CDE and/or DE turbidites (where C is a cross-laminated sand unit, D is a parallel laminated silt unit and E is a mud layer). These are abruptly overlain by massive grain flows/high-density turbidites with internal inverse- to normal-graded, conglomeratic bands. Pebbles present in the conglomerates are mainly felsic igneous rocks (extrusive and intrusive), while rip-up clasts are not the expected mudstone or siltstone, but rather clay- and silt-rich, fine-grained sandstone. Load structures are ubiquitous throughout the area. Commonly, the base of one unit sags into the underlying beds. Locally, multiple internal loads are developed, usually in the B division (parallel laminated sands). These loads sag into the A division (sands and/or coarser-grains), in places extending into the underlying beds.

1.5 Structure

The following is taken verbatim from Blakely and Moreton (2009).

After deposition of the clastic succession, the area was subjected to thrust faulting, regional folding and dextral shearing. Thrust faulting imbricated the regional volcanic and sedimentary packages into thrust stacks (Devaney and Williams, 1989). This D1 thrusting may be associated with uncommon, early, F1 folds. The youngest detrital zircon recovered from the sedimentary units is 2690 +/- 2 Ma and this puts a maximum age on the thrusting event.

The D2 event is characterized by tight to isoclinal folds and a flattening strain fabric identified by transposed bedding and flattened clasts and/or pillows. A homoclinal, north younging sequence of regional extent developed at this time and it appears to represent the sheared-off southern limb of a larger syncline. D2 deformation also affects altered and gold-mineralized porphyry dykes in the syn-tectonic Croll Lake stock which has a UPb age-date of 2691+3/-2 Ma. An age of 2699±1 Ma for a gold-mineralized feldspar porphyry dyke at the Hardrock Mine and identical ages of 2690±1 Ma for two phases of the Croll Lake stock put constraints on the timing of major deformation and hydrothermal activity in the belt.

The final event, D3, occurred as regional transpression developed in the compressive framework of the area. Vertical bed orientations developed during D2 did not re-fold but rather were overprinted by a steeply dipping, regional cleavage. Partitioning of the strain, during east-west dextral shear, between less competent argillites and more competent sandstones and

porphyries resulted in cleavage refraction near lithological contacts. The pervasive cleavage developed in the Paint Lake shear zone at this time shows a progressive rotation towards the orientation of the zone. This is in contrast to the Barton Bay Lithotectonic Zone (BBLZ) where the S2 fabric was reactivated to accommodate the D3 shear. Some folds were generated during this interval but they tend to be smaller Z- folds, overprinting limbs of regional F2 folds. Shear zones active at this time were dextral with nearly horizontal displacements.

1.6 Property Geology

The Brookbank Property is in a dextral shear zone localized between the metasediments and metavolcanics. The ore zone is hosted in a steeply dipping shear zone at the contact between the footwall polymictic conglomerate and the hanging-wall-calc-alkaline arc basalt (DeWolfe *et al.*, 2006).

During the early stages of shearing the basalt acted as a structural and chemical trap that localized brittle deformation, veining, and gold deposition (DeWolfe *et al.*, 2006). The mineralized zone is approximately 20 metres wide and extends from the sheared contact up into the meta-basalt. Auriferous quartz-carbonate veins occur in the mineralized zone along with a wide ankerite alternation zone. The mineralization itself is finely disseminated pyrite and arsenopyrite filling the folded and boudinaged quartz-carbonate veins and within the sheared meta-basalt host rock.

The following is taken from Thompson (2006).

The Brookbank property is underlain predominantly by east-west trending and steeply south to vertically dipping metavolcanic and metasedimentary rocks (Figure 5). Metavolcanic rocks consist of massive and pillowed, locally amygdaloidal, flows of basaltic composition along with related tuffaceous rocks. Pillowed flows exhibit tops to the north. They are locally intercalated with coarser-grained rocks of similar composition that have been interpreted as either intrusions or coarse-grained phases at the centre of thicker basaltic flows. The metavolcanic rocks are locally intruded by quartz-feldspar porphyritic dykes.

Mafic metavolcanic rocks are fault-bounded against domains of metasedimentary rocks. The northern domain consists of polymictic conglomerate with pebble- to boulder-sized, rounded to sub-rounded clasts in a feldspar-quartz-sericite matrix. Clasts consist of volcanic and intrusive rock types of various compositions, quartz pebbles and jasper, the latter suggesting affinity with Timiskaming Formation conglomerates in the Timmins (Porcupine) Mining District.

Metasedimentary domains south of Windigokan Lake also contain polymictic conglomerate as well as feldspathic and quartzose sandstone and wacke, siltstone, minor argillite and hematitic iron formation.

Felsic to intermediate pyroclastic rocks and flows occur in the north part of the property and are fault-bounded with mafic metavolcanic rocks across the Paint Lake Fault. They consist of tuff breccia, pyroclastic breccia and tuff, and massive to porphyritic rhyolite flows.

Intermediate to mafic intrusions cut the metavolcanic and metasedimentary rocks in the central part of the Brookbank property. They consist of quartz diorite, diorite and gabbro. North-trending, flat-lying, locally porphyritic diabase dykes of Keweenawan age cut the metavolcanic and metasedimentary rocks along the western boundary of the property in Sandra Township and along the western boundary of Irwin Township.

The Brookbank property is transected by an east-west trending zone of extensive heterogeneous brittle and ductile deformation and hydrothermal alteration and is referred to as the “Brookbank Shear Zone”. Deformation is locally more than one kilometer wide and consists of anastomosing bands of intense fissile shearing, quartz veining and fracturing with associated ductile deformation around domains of less deformed metavolcanic and metasedimentary rocks. The deformation can be traced for a minimum of ten kilometres along strike through Irwin Township and remains open in either direction.

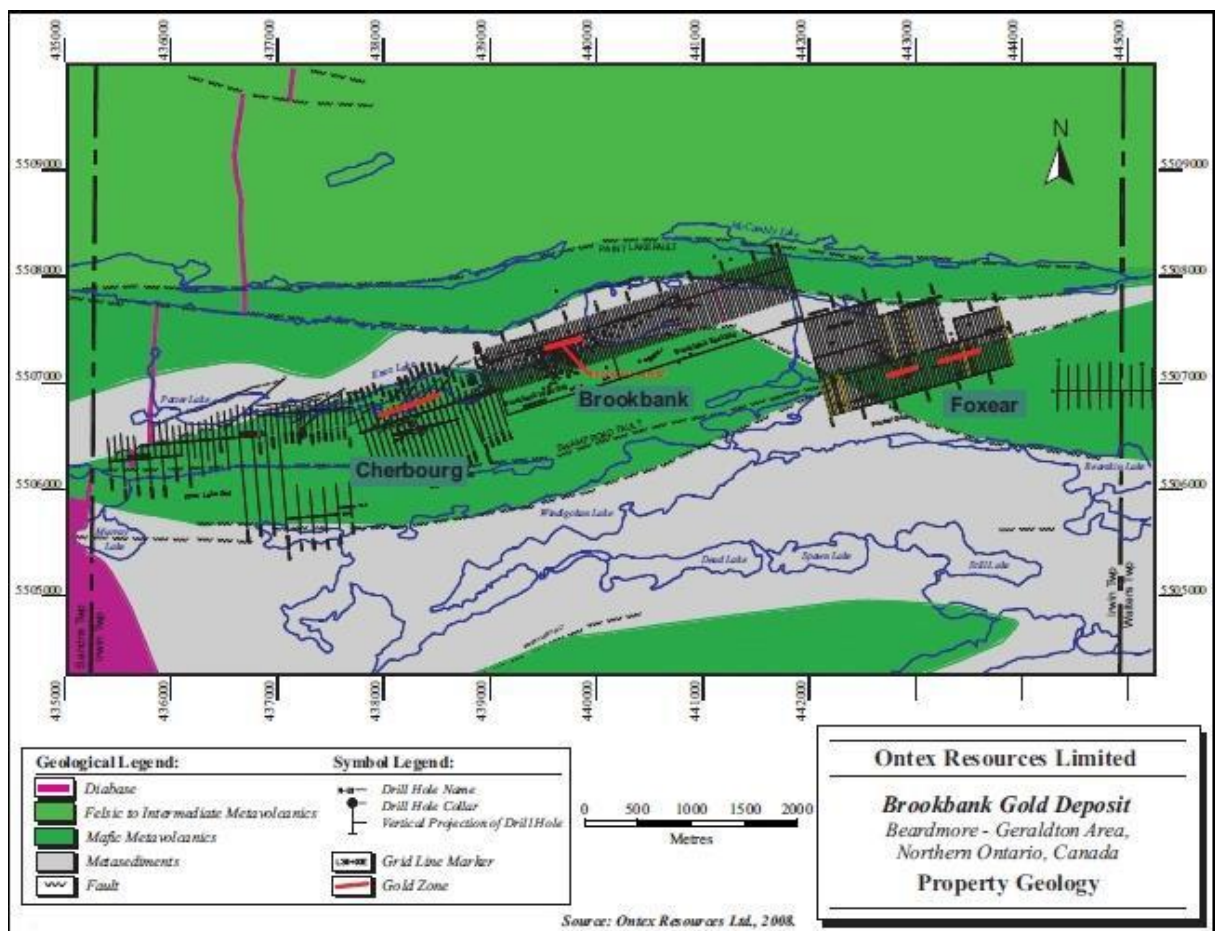


Figure 5: Property Geology (from Blakely and Moreton, 2009).

Exploration History

The following summary of exploration activities on the property is adapted from Thompson (2006) and is restricted to those leases and claims covering the Brookbank, Cherbourg and Foxear zones.

- 1934 Connell Mining and Exploration Co. Ltd's program of a total of 17 trenches, plus numerous test pits, exposed a rusty shear zone in mafic flows over a strike length of 396 m. Gold values from samples in this zone were low and erratic, and the results for the diamond drilling are not known. Work was suspended in late 1935.
- 1944 Noranda Exploration Company Limited (Noranda) completed detailed mapping, trenching and 1,860 m of X-ray diamond drilling in 40 holes to test the Brookbank Zone.
- 1950 Brookbank-Sturgeon Mines Limited (Brookbank-Sturgeon), a predecessor company to Ontex, acquired the claims covering the current property in 1950; however, there is no record of the work performed (if any) by Brookbank-Sturgeon.
- 1974-1975 Lynx Canada Explorations Limited (Lynx) completed geological mapping, ground magnetic surveys and diamond drilling over a portion of the property. Lynx carried out surface mapping and a magnetometer survey on the eastward extension of the Noranda showing. In the following year, Lynx completed six drill holes totalling 376 m to test a thin siliceous band along the metavolcanic-metasedimentary contact.
- 1981 Metalore optioned the property from Brookbank-Sturgeon and completed line-cutting followed by an electromagnetic (EM) survey over the entire grid and a very low frequency electromagnetic (VLF-EM) survey over selected portions of the property. Metalore subsequently drilled 30 holes totalling 3,567 m.
- 1982-1983 Metalore drilled three widely spaced holes totaling 330 m to test the metavolcanic-metasedimentary contact on the Brookbank West property and one 453 m hole on the Foxear property.
- 1984 Metalore completed an additional 62 drill holes totaling 6,946 m, including four wedges. Metalore commissioned a combined helicopter-borne magnetometer, gamma ray spectrometer and VLF survey over its holdings in Sandra, Irwin and Walters townships, including the Brookbank property.
- 1984-1985 Metalore drilled 23 holes, including 14 wedges, on the Brookbank Zone totalling 4,421 m, six holes on the Cherbourg Zone totalling 6,684 m, and 26 holes on the Foxear Zone totalling 2,202 m.
- 1986 Metalore concentrated on the Cherbourg Zone and completed 43 drill holes for a total of 4,368 m. On October 1, 1986, Metalore entered into an exploration and development agreement with Hudson Bay Mining and Smelting Co., Ltd. (Hudson Bay).
- 1987 Hudson Bay drilled 44 holes for a total of 11,203 m on Brookbank and 10 holes for a total of 2,777 m on Foxear. Mineralogical studies and

- preliminary metallurgical testing was completed on one mineralized sample and approximately 70 drill collars were located and surveyed.
- 1988 Metalore's agreement with Hudson Bay was terminated in 1988 because of an ownership dispute between Metalore and Ontex. In October 1998, Ontex acquired a release of Metalore's right to earn an interest in the Brookbank leases, subject to a 1% Net Smelter Royalty (NSR) due to Metalore upon production.
- 1989 Placer Dome Inc. (Placer) and Metalore signed an option agreement to which Ontex was not a party. From early August to late November of that year, Placer completed a program consisting of power stripping/trenching, detailed geological mapping, channel sampling, and diamond drilling. Placer exposed an area of about 650m by 15 m and took 215 channel samples totalling 244 linear metres. Detailed mapping was completed at an imperial scale of one inch to ten feet. During 1989, drilling at the Brookbank Zone consisted of 18 holes totalling 7,010 m to test the lateral and down-dip extensions to a vertical depth of 670 m. A Sperry Sun gyrolog system was used to confirm downhole deviations for 13 of the 1989 holes and 15 of the pre-existing holes. Additional Placer drilling at Cherbourg consisted of five holes totalling 1,437 m with a further two holes totalling 984 m drilled at Foxear. Placer dropped its option due to ongoing litigation between Ontex and Metalore.
- 1990-1996 The Brookbank property was the subject of Superior Court of Ontario litigation between Ontex and Metalore (Ontex Resources Ltd. v. Metalore Resources Ltd. (1990), 75 O.R. (2d) 513 (Gen. Div.), with an appeal allowed in part (1993) 13 O.R. (3d) 229, 103 D.L.R. (4th) 158, 12 B.L.R. (2d) 226 (C.A.)). Costs were subsequently awarded to Ontex ((1996), 45 C.P.C. (3d) 237 (Ont. Assmt. Officer)).
- 1993-1994 Metalore completed four holes totalling 533 m on the Brookbank Zone, fifteen holes totalling 2,107 m at Cherbourg and seven holes (including one wedge) totalling 3,323 m at Foxear. In 1994, reviews of the data by both Micon International Ltd. and J.R. Trussler & Associates, on behalf of Metalore, were positive and additional work was recommended by both companies. However, the ongoing litigation between Ontex and Metalore precluded work being done.
- 1998 Ontex and Metalore announced a settlement whereby Ontex acquired a release of Metalore's right to earn an interest in the Brookbank leases and Ontex took over as the operator of the Brookbank Deposit and all of the Metalore property in the area.
- 1999 Ontex drilled 35 diamond drill holes for a total of 11,299 m, of which 17 holes (including one wedge) totalling 4,730 m were drilled on the Brookbank Zone, 15 holes (including three wedges) totalling 5,724 m on the Cherbourg Zone, and three holes totaling 795 m on the Foxear Zone.
- 2000 Ontex drilled 58 holes for a total of 19,929 m of which 33 holes totaling 10,607 m were drilled on the Brookbank Zone (including eight wedges) and 25 holes totaling 9,322 m on the Foxear Zone. In the spring of 2000,

- Ontex undertook a GPS survey to accurately locate all drill hole collars and compiled all available diamond drill hole data in a single database.
- 2001 Ontex drilled nine holes (2,523 m) in the Cherbourg Zone and a further 12 holes in the Foxear Zone (4,530 m).
- 2002 Ontex drilled 28 holes for a total of 3,890 m in areas outside of the Brookbank, Cherbourg and Foxear Zones.
- 2006 Ontex drilled 14 holes for a total of 3,000 m.
- 2007 7 holes were drilled for a total of 1,208 m.
- 2008 Ontex drilled 18 holes on the Brookbank Zone (5,703 m in total) and nine holes on the Cherbourg deposit (3,823 m in total). No drilling was performed on Foxear. Six holes on Brookbank West were abandoned after less than 55 m was drilled although all six holes were restarted in a slightly different location. This drill metreage (193 m) is included in the Brookbank total. Major Drilling Group International, based in Moncton, New Brunswick (Major Drilling), drilled the first few holes of the 2008 campaign, while the balance was drilled by Chibougamau Diamond Drilling, based in Chibougamau, Quebec.
- 2009 48 hole drill program was completed on the property for Goldstone Resources Inc. A total of 19,633 metres were drilled and 1878 samples were taken. The program targeted the main Brookbank Deposit; a target in the volcanics located a few hundred metres to the east of the Brookbank, as well as the Brookbank East Showing (BBE). Results of the drill program were encouraging and warrant further drilling.
- 2012-2013 2 hole drill program was completed on the Brookbank project by Premier Gold Mines, totalling 1,393 metres. These holes were designed to target IP anomalies near the known gold deposit at Brookbank.

2016 Soil Sampling Program

2.1 Soil and Till Sampling

3 soil sampling programs were completed on the Brookbank property between in the summer months of 2016: Brookbank Orientation Survey; Patter Lake Survey; and Brookbank East Survey (see figure 6 and Appendix B). These soil/till sampling surveys occurred over 66 claims. The objective of these drift prospecting surveys on the Brookbank Property was conducted as a reconnaissance-scale method of testing and evaluating the potential for gold mineralization at various litho-structural targets across the property. A low threshold analytical Au and multi-element package tested ~1 kg till samples and ~0.5 kg B horizon soil samples to evaluate the spatial distribution of ultrafine gold down-ice of the Brookbank deposit.

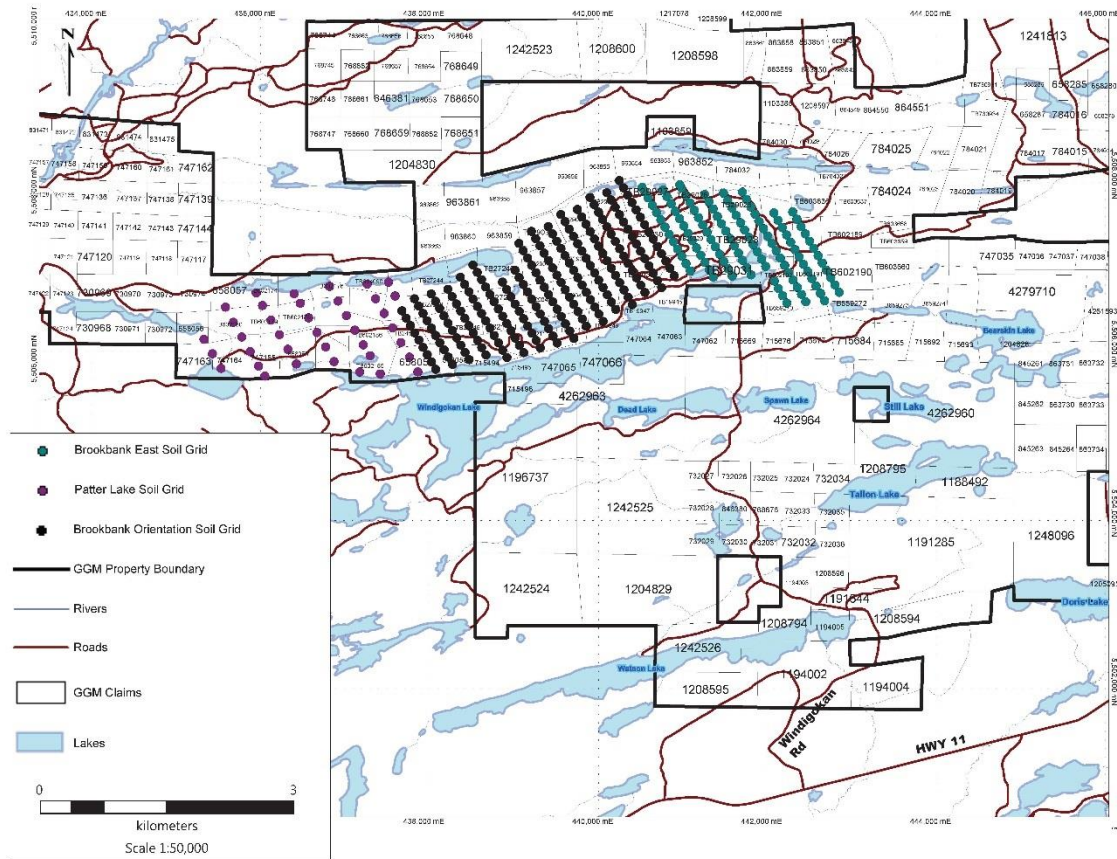


Figure 6 The 3 soil/till sampling campaign locations at the Brookbank Property. See Appendix B for same map.

The Brookbank Orientation Survey took place from May 18th, 2016 to June 15th, 2016. The survey line spacing was 200 m with samples being collected every 100m. 183 B horizon samples, and 80 C horizon (till) samples were sent to ALS Labs for assay. See Appendix B, figures 7-10 for sample locations. The results of this survey will indicate which sample media (B or till) can be used for regional surveys on the Brookbank

Property and determine the threshold values for Au and other pathfinder elements.

The Patter Lake Survey took place from July 9th, 2016 until July 28th, 2016. 37 B horizon samples and 12 C horizon (till) samples were collected from 38 stations, for a total of 49 samples sent to ALS Minerals for analysis. The Patter Lake Survey was a reconnaissance soil/till sampling program that is located to the west of the Brookbank Orientation Survey. The survey line spacing was 400 m with sample locations spaced at 200 m along each line. See Appendix B, figures 11-12 for sample locations.

The third soil/till sampling survey was the Brookbank East Survey and it was conducted from August 13th, 2016 to September 12th, 2016. 101 B horizon samples and 24 C horizon (till) samples were collected on a line spacing of 200 m with sample stations every 100m on the lines. A total of 125 samples were sent to ALS Minerals for assay. This survey was located to the east of the Brookbank Orientation Survey. See Appendix B, figures 13-14 for sample locations.

Dutch augers were used for collecting the samples. The samples were collected by a GGM geologist and geo-technician. Two different types of samples were taken where available, a soil (B horizon) and till (C horizon). C horizon samples were not collected if they were glacial lacustrine deposits. Sample station locations are UTM Zone 16, NAD83 coordinates. In the field, an effort was made to collect a sample at each planned station however, the actual location is determined by the geologist. A total of 124 man days were spent on the three soil/till sampling campaigns.

The samples were sent to ALS Minerals in Thunder Bay, Ontario. The analysis that was done was based on the sample type:

B horizon Sample Collection Methods: Approximately 0.5 kg of B horizon material is placed in a paper kraft sample bag.

C horizon / Till Sample methods: approximately 1 kg of till in 11x16 plastic sample bag. The till excavated from the lower part of the pit will be roughly hand screened on site at 8 mm to remove most of the large clasts.

For all samples, the following information was collected (refer to Appendix D for field notes):

Project
Sample Date
Station ID
UTM Coordinate
Sample Number
Sample Type/Medium
Sample Site Type
Sample Depth
Colour
Sample Texture
Clast Comments

2.1.1 Principal Component Analysis

The assay results were analyzed using Principal Component Analysis (PCA) by Eric Grunsky of the Geological Survey of Canada (GSC). The goal of this was to select elements that are associated with alteration/mineralization to create a subset of elements whose geospatial distribution can be used as a vector to mineralization.

The major elements were converted from percentage to ppm. B and C horizons were assessed for values reported less than the lower limit of detection (LLD). B and C horizons where Cu was greater than 150 ppm were removed. B horizon had 20 samples with values that reported less than the LLD and C horizon has 31 samples less than the LLD. Quantile-Quantile plots were generated for the B and C horizon soil geochemistry.

Screeplots of the PCA were generated to determine how many principal components describe variability of the data. Biplots were generated to display the relative relationships of the elements with respect to their pairs of principal components. See Appendix E.

2.1.2 Sample Preparation and Analysis

B horizon and C horizon (till) samples were sent to ALS Minerals in Thunder Bay for prep and then forwarded to ALS Vancouver for analysis. 3 blank samples were included for QAQC.

B samples were: sieved to -180 microns (80 mesh), with both fractions retained. A Super Trace package (Au+ Multi Element) (ALS Code: AuME+ST44) uses aqua regia digestion with ICP_MS finish on a 50g subsample for both the Au and trace element geochemistry. Till Samples have: a 250-g split taken and pulverized to better than 85% passing minus 75 microns. A Super Trace package (Au+ Multi Element) (ALS Code: AuME+ST44) uses aqua regia digestion with ICP_MS finish on a 50g subsample for both the Au and trace element geochemistry.

Refer to Appendix F for assay certificates.

2.2 Work Dispersion Over Individual Claims

The work conducted for the completion of the Brookbank Property Soil/Till sampling campaign includes soil sampling and till sampling by crews of one geologist and one geo-technician, and PCA analysis done by a consulting geologist from the Geological Survey of Canada.

The following amounts are daily salaries. For the company geologists and geo-technicians, the amount is based on daily wage, equipment provided/used, and transportation.

Geologist - \$600/day
 Geo-technician - \$300/day
 Consulting Geologist for PCA - \$1600/day

The distribution of expenditure is outlined in the tables below (tables 2-4):

Table 2 Work dispersion over individual claims for the Brookbank Orientation Survey

BROOKBANK ORIENTATION SURVEY						
CLAIM #	NUMBER OF SAMPLES			Assay Cost (\$39.62)	PCA Analysis	TOTAL AMOUNT PER CLAIM
	B HORIZON	C HORIZON	TOTAL PER CLAIM			
658054	3	2	5	\$ 198.10	\$ 58.18	\$ 256.28
TB24848	2	0	2	\$ 79.24	\$ 58.18	\$ 137.42
TB614092	2	1	3	\$ 118.86	\$ 58.18	\$ 177.04
658058	6	4	10	\$ 396.20	\$ 58.18	\$ 454.38
TB24847	6	5	11	\$ 435.82	\$ 58.18	\$ 494.00
TB27248	5	0	5	\$ 198.10	\$ 58.18	\$ 256.28
TB27244	2	1	3	\$ 118.86	\$ 58.18	\$ 177.04
TB27245	4	0	4	\$ 158.48	\$ 58.18	\$ 216.66
TB27416	4	1	5	\$ 198.10	\$ 58.18	\$ 256.28
TB24846	5	2	7	\$ 277.34	\$ 58.18	\$ 335.52
715494	3	2	5	\$ 198.10	\$ 58.18	\$ 256.28
963859	1	1	2	\$ 79.24	\$ 58.18	\$ 137.42
TB27246	4	1	5	\$ 198.10	\$ 58.18	\$ 256.28
TB27247	5	0	5	\$ 198.10	\$ 58.18	\$ 256.28
TB21111	13	3	16	\$ 633.92	\$ 58.18	\$ 692.10
TB21112	8	2	10	\$ 396.20	\$ 58.18	\$ 454.38
TB29042	7	2	9	\$ 356.58	\$ 58.18	\$ 414.76
TB29039	11	10	21	\$ 832.02	\$ 58.18	\$ 890.20
TB29036	5	5	10	\$ 396.20	\$ 58.18	\$ 454.38
TB29035	8	7	15	\$ 594.30	\$ 58.18	\$ 652.48
TB29038	8	4	12	\$ 475.44	\$ 58.18	\$ 533.62
TB29041	9	3	12	\$ 475.44	\$ 58.18	\$ 533.62
TB21113	6	0	6	\$ 237.72	\$ 58.18	\$ 295.90
TB19949	3	0	3	\$ 118.86	\$ 58.18	\$ 177.04
TB29040	7	1	8	\$ 316.96	\$ 58.18	\$ 375.14
TB29037	9	6	15	\$ 594.30	\$ 58.18	\$ 652.48
TB29034	7	7	14	\$ 554.68	\$ 58.18	\$ 612.86
TB29027	3	3	6	\$ 237.72	\$ 58.18	\$ 295.90
TB29030	11	6	17	\$ 673.54	\$ 58.18	\$ 731.72
TB29033	11	1	12	\$ 475.44	\$ 58.18	\$ 533.62
TB19947	2	0	2	\$ 79.24	\$ 58.18	\$ 137.42
TB19945	1	0	1	\$ 39.62	\$ 58.18	\$ 97.80
TB29032	2	0	2	\$ 79.24	\$ 58.18	\$ 137.42
TOTAL	183	80	263	\$ 10,420.01	\$ 1,920.00	\$ 12,340.01

Table 3 Work dispersion over individual claims for the Patter Lake Survey.

PATTER LAKE SURVEY						
CLAIM #	NUMBER OF SAMPLES			Assay Cost (\$76.86)	PCA Analysis	TOTAL AMOUNT PER CLAIM
	B HORIZON	C HORIZON	TOTAL PER CLAIM			
658056	1	0	1	\$ 76.86	\$ 58.18	\$ 135.05
747163	1	0	1	\$ 76.86	\$ 58.18	\$ 135.05
658057	1	0	1	\$ 76.86	\$ 58.18	\$ 135.05
TB602180	1	1	2	\$ 153.73	\$ 58.18	\$ 211.91
747164	2	1	3	\$ 230.59	\$ 58.18	\$ 288.77
TB602174	2	0	2	\$ 153.73	\$ 58.18	\$ 211.91
TB602179	1	0	1	\$ 76.86	\$ 58.18	\$ 135.05
747165	3	1	4	\$ 307.46	\$ 58.18	\$ 365.64
TB602175	1	1	2	\$ 153.73	\$ 58.18	\$ 211.91
TB602178	2	1	3	\$ 230.59	\$ 58.18	\$ 288.77
658055	2	0	2	\$ 153.73	\$ 58.18	\$ 211.91
TB602176	1	1	2	\$ 153.73	\$ 58.18	\$ 211.91
TB602177	2	0	2	\$ 153.73	\$ 58.18	\$ 211.91
TB602184	3	2	5	\$ 384.32	\$ 58.18	\$ 442.50
TB602185	4	1	5	\$ 384.32	\$ 58.18	\$ 442.50
TB602186	1	0	1	\$ 76.86	\$ 58.18	\$ 135.05
TB614093	1	1	2	\$ 153.73	\$ 58.18	\$ 211.91
TB614090	1	0	1	\$ 76.86	\$ 58.18	\$ 135.05
TB614091	1	0	1	\$ 76.86	\$ 58.18	\$ 135.05
TB614092	2	0	2	\$ 153.73	\$ 58.18	\$ 211.91
TB24848	2	0	2	\$ 153.73	\$ 58.18	\$ 211.91
658054	2	2	4	\$ 307.46	\$ 58.18	\$ 365.64
TOTAL	37	12	49	\$ 3,766.35	\$ 1,280.00	\$ 5,046.35

Table 4 Work dispersion over individual claims for the Brookbank East Survey.

BROOKBANK EAST SURVEY						
CLAIM #	NUMBER OF SAMPLES			Assay Cost (\$38.13)	PCA Analysis	TOTAL AMOUNT PER CLAIM
	B HORIZON	C HORIZON	TOTAL PER CLAIM			
TB29027	4	1	5	\$ 190.63	\$ 87.85	\$ 278.48
TB29030	4	0	4	\$ 152.51	\$ 87.85	\$ 240.35
TB29026	9	0	9	\$ 343.14	\$ 87.85	\$ 430.99
TB29029	10	5	15	\$ 571.90	\$ 87.85	\$ 659.75
TB29032	3	0	3	\$ 114.38	\$ 87.85	\$ 202.23
TB29031	8	2	10	\$ 381.27	\$ 87.85	\$ 469.11
TB29028	15	2	17	\$ 648.15	\$ 87.85	\$ 736.00
TB29025	9	5	14	\$ 533.77	\$ 87.85	\$ 621.62
TB603635	1	1	2	\$ 76.25	\$ 87.85	\$ 164.10
TB602187	7	2	9	\$ 343.14	\$ 87.85	\$ 430.99
TB602192	5	2	7	\$ 266.89	\$ 87.85	\$ 354.73
TB603636	1	1	2	\$ 76.25	\$ 87.85	\$ 164.10
TB602188	7	1	8	\$ 305.01	\$ 87.85	\$ 392.86
TB602191	7	0	7	\$ 266.89	\$ 87.85	\$ 354.73
TB659270	2	1	3	\$ 114.38	\$ 87.85	\$ 202.23
TB659272	1	1	2	\$ 76.25	\$ 87.85	\$ 164.10
TB602190	4	0	4	\$ 152.51	\$ 87.85	\$ 240.35
TB659271	4	0	4	\$ 152.51	\$ 87.85	\$ 240.35
TOTAL	101	24	125	\$ 4,765.82	\$ 1,581.25	\$ 6,347.07

The amount of man days spent for the three soil sampling campaigns is outlined in the tables below (tables 5-7):

Table 5 Total amount of man days worked and cost of man days for the Brookbank Orientation Survey.

Brookbank Orientation Survey						
Date	Geologist	Geotechs	Man Days	Geologist Pay (\$600/day)	Geo-technician Pay (\$300/day)	
18/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
19/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
20/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
21/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
22/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
23/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
25/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
26/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
27/05/2016	1	1	2	\$ 600.00	\$ 300.00	
29/05/2016	1	1	2	\$ 600.00	\$ 300.00	
30/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
31/05/2016	2	2	4	\$ 1,200.00	\$ 600.00	
02/06/2016	2	2	4	\$ 1,200.00	\$ 600.00	
03/06/2016	1	1	2	\$ 600.00	\$ 300.00	
07/06/2016	1	1	2	\$ 600.00	\$ 300.00	
08/06/2016	1	1	2	\$ 600.00	\$ 300.00	
09/06/2016	1	1	2	\$ 600.00	\$ 300.00	
10/06/2016	1	1	2	\$ 600.00	\$ 300.00	
11/06/2016	1	1	2	\$ 600.00	\$ 300.00	
12/06/2016	1	1	2	\$ 600.00	\$ 300.00	
13/06/2016	2	2	4	\$ 1,200.00	\$ 600.00	
14/06/2016	2	2	4	\$ 1,200.00	\$ 600.00	
15/06/2016	2	2	4	\$ 1,200.00	\$ 600.00	
TOTAL	37	37	74	\$ 22,200.00	\$ 11,100.00	
GRAND TOTAL	\$ 33,300.00					

Table 6 Total amount of man days worked and cost of man days for the Patter Lake Survey

Patter Lake Survey						
Date	Geologists	Geotechs	Man Days	Geologist Pay (\$600/day)	Geo-technician Pay (\$300/day)	
09/07/2016	1	1	2	\$ 600.00	\$ 300.00	
10/07/2016	1	1	2	\$ 600.00	\$ 300.00	
11/07/2016	2	0	2	\$ 1,200.00	\$ -	
12/07/2016	2	0	2	\$ 1,200.00	\$ -	
19/07/2016	1	1	2	\$ 600.00	\$ 300.00	
20/07/2016	1	1	2	\$ 600.00	\$ 300.00	
23/07/2016	1	1	2	\$ 600.00	\$ 300.00	
25/07/2016	1	1	2	\$ 600.00	\$ 300.00	
26/07/2016	1	1	2	\$ 600.00	\$ 300.00	
27/07/2016	1	1	2	\$ 600.00	\$ 300.00	
28/07/2016	1	1	2	\$ 600.00	\$ 300.00	
TOTAL	13	9	22	\$ 7,800.00	\$ 2,700.00	
GRAND TOTAL	\$ 10,500.00					

Table 7 Total amount of man days worked and cost of man days for the Brookbank East Survey

Brookbank East Survey						
Date	Geologists	Geotechs	Man Days	Geologist Pay (\$600/day)	Geo-technician Pay (\$300/day)	
13-Aug-16	2	2	4	\$ 1,200.00	\$ 600.00	
14-Aug-16	2	2	4	\$ 1,200.00	\$ 600.00	
15-Aug-16	1	1	2	\$ 600.00	\$ 300.00	
16-Aug-16	1	1	2	\$ 600.00	\$ 300.00	
17-Aug-16	1	1	2	\$ 600.00	\$ 300.00	
29-Aug-16	1	1	2	\$ 600.00	\$ 300.00	
04-Sep-16	1	1	2	\$ 600.00	\$ 300.00	
07-Sep-16	2	2	4	\$ 1,200.00	\$ 600.00	
08-Sep-16	1	1	2	\$ 600.00	\$ 300.00	
09-Sep-16	1	1	2	\$ 600.00	\$ 300.00	
12-Sep-16	1	1	2	\$ 600.00	\$ 300.00	
TOTAL	14	14	28	\$ 8,400.00	\$ 4,200.00	
GRAND TOTAL	\$ 12,600.00					

2.3 Conclusions and Recommendations

The Brookbank Orientation Survey took place from May 18th, 2016 to June 15th, 2016. The distribution of gold in B and C horizon samples is shown in Figure 15 and 16 of Appendix C. Survey lines were spaced 200m apart and samples were collected every 100m. 183 B horizon samples, and 80 C horizon (till) samples were collected. The distribution of till (C horizon) samples is variable and therefore not a useful sampling medium in this portion of the Brookbank Property. However, the anomalous distribution of gold-in-till to the south and southwest of the projected surface expression of the Brookbank zone suggests that glacial dispersion is limited. The gold-in-B horizon results show a broader and more extensive distribution of elevated values. This is partly a function of the fact that B horizon samples were collected at every station, but also may indicate the presence of parallel mineralized zones to the south of the Brookbank deposit.

The orientation survey at Brookbank has demonstrated that B horizon samples are sufficient for delineating gold mineralization and that future surveys need not collect the sporadically distributed till deposits.

A reconnaissance soil/till sampling program was undertaken in the Patter Lake area, immediately west of the Brookbank orientation survey. The survey was started prior to final results being received for the orientation survey and as such, both B and C horizon samples were collected. The survey line spacing was 400 m with stations spaced at 200 m along each line. A total of 38 B horizon and 13 till (C horizon) samples were collected from 38 stations, between July 9th and July 28th, 2016. The objectives of this survey were identical to the objectives outlined for the orientation survey. The results were analyzed in conjunction with the samples from the orientation survey. The distribution of samples suggests the potential for gold bearing structures in the hanging wall of the Brookbank deposit. See Appendix C, figures 17 and 18 for the gold distribution for B and C horizons.

The third soil/till sampling survey was completed over the Brookbank East area and consisted of 101 B horizon samples and 24 C horizon samples. The survey was conducted from August 13th, 2016 to September 12th, 2016. The samples were collected on a line spacing of 200 m with sample taken every 100 m. A total of 125 samples were sent to ALS Minerals for assay. Refer to Appendix C, figures 19 and 20 for gold distribution of B and C horizons.

The assay results of the three soil/till sampling campaigns were analyzed using Principal Component Analysis (PCA). The goal of this was to select elements that are associated with alteration/mineralization to create a subset of elements whose geospatial distribution can be used as a vector to mineralization.

PC3-PC6 has the most significant gold signature with: Mo, Se, Cu, W, Ti, Ag, Nb, Hg, As, Sb, Te, in the B horizon. There are two high values of Au-Pd associated with PC12. As-Sb have a weak association with gold in B horizon (PC 3-PC6). The distribution of samples suggests the potential for gold bearing structures in the hanging wall of the Brookbank deposit.

In the C horizon, there was a significant gold signature in PC3, PC14 and PC1. The biplot of PC2-PC3 shows pathfinder elements are: Mo-Nb-W-Hg-Ti-Zr-Cu-Cs-Ag (See Appendix E, figures 21-33 for biplots) Not all the pathfinder elements are present in significant amounts with gold in all sample sites.

From the Brookbank East survey, B horizon samples reveal the following multi element Au signature: Mo-Cu-Ag-W-Cs-Bi-Ti, and C horizon samples reveal the following multi element gold signature: Mo-Nb-Ti-Cu-Ag-Se-Hf-Zr.

A preliminary attempt at defining a mineral potential index from the PCA soil/till results was carried out. A threshold was selected for each element based on being greater than the 90th percentile. For each site, an integer index was created: for each element greater than the threshold, the index increased by 1. The maximum value is 12 (number of elements). The thresholds and number of elements can be changed arbitrarily. The index selected included: Au + Ag + As + Sb + Cu + Cs + Mo + Bi + Hg + Cd + S + Se (See Appendix E, figures 34 and 35).

It is recommended that follow up should be done for Au-in-soil anomalies for the three soil/till sampling campaigns. Additional soil sampling around the anomalous samples should be taken, and taking grab samples if outcrop is near by. Additional work comparing results of PCA with grab samples and with ongoing historical compilation results.

Another recommendation is that a sub-compositional analysis, using only the elements associated with elevated Au values (Mo, Se, Cu, W, Ti, Ag, Nb, Hg, As, Sb, Te) be carried out to refine the associations and geospatial targets. The influence of elements associated with lithologies in the C-horizon (Nb-Ti-Zr) may or may not be useful in

identifying footprints of mineralization. These elements should be further tested to determine their usefulness as pathfinder elements for Au mineralization. Developing a regional strategy for assessing multi-element geochemistry from a range of media (soil/till, drill core, bedrock, lake sediments, etc.) would also be helpful.

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Appendices

Appendix A: Land Tenure

Township	Claim Number	Claim Type	Mineral Rights Owner	Due Date
WALTERS	1022076	Unpatented	GGM 79% Metalore 21%	20-Apr-18
WALTERS	1022077	Unpatented	GGM 79% Metalore 21%	20-Apr-18
WALTERS	1022078	Unpatented	GGM 79% Metalore 21%	20-Apr-18
WALTERS	1022079	Unpatented	GGM 79% Metalore 21%	20-Apr-18
WALTERS	1022080	Unpatented	GGM 79% Metalore 21%	20-Apr-18
WALTERS	1022081	Unpatented	GGM 79% Metalore 21%	20-Apr-18
IRWIN	1103385	Unpatented	GGM 74% Metalore 26%	19-Apr-18
IRWIN	1103859	Unpatented	GGM 74% Metalore 26%	19-Apr-18
IRWIN	1187532	Unpatented	GGM 74% Metalore 26%	27-Jun-18
WALTERS	1187664	Unpatented	GGM 79% Metalore 21%	07-Mar-18
IRWIN	1188492	Unpatented	GGM 74% Metalore 26%	26-Nov-17
IRWIN	1191285	Unpatented	GGM 74% Metalore 26%	26-Nov-17
IRWIN	1191644	Unpatented	GGM 74% Metalore 26%	29-Mar-18
IRWIN	1194002	Unpatented	GGM 74% Metalore 26%	08-Dec-17
IRWIN	1194003	Unpatented	GGM 74% Metalore 26%	08-Dec-17
IRWIN	1194004	Unpatented	GGM 74% Metalore 26%	08-Dec-17
IRWIN	1194005	Unpatented	GGM 74% Metalore 26%	08-Dec-17
WALTERS	1194204	Unpatented	GGM 79% Metalore 21%	11-Mar-18
IRWIN	1196737	Unpatented	GGM 74% Metalore 26%	11-Apr-18
LEDUC	1202341	Unpatented	GGM 79% Metalore 21%	04-May-18
LEDUC	1202342	Unpatented	GGM 79% Metalore 21%	04-May-18
LEDUC	1202345	Unpatented	GGM 79% Metalore 21%	04-May-18
IRWIN	1204828	Unpatented	GGM 74% Metalore 26%	03-Oct-17
IRWIN	1204829	Unpatented	GGM 74% Metalore 26%	05-Jun-18
IRWIN	1204830	Unpatented	GGM 74% Metalore 26%	05-Jun-18
WALTERS	1204831	Unpatented	GGM 79% Metalore 21%	05-Jun-18
WALTERS	1204832	Unpatented	GGM 79% Metalore 21%	05-Jun-18
WALTERS	1205095	Unpatented	GGM 79% Metalore 21%	30-Oct-17
WALTERS	1205096	Unpatented	GGM 79% Metalore 21%	30-Oct-17
LEGAULT	1205097	Unpatented	GGM 79% Metalore 21%	30-Oct-17
LEGAULT	1205098	Unpatented	GGM 79% Metalore 21%	30-Oct-17
WALTERS	1205099	Unpatented	GGM 79% Metalore 21%	30-Oct-17
WALTERS	1205100	Unpatented	GGM 79% Metalore 21%	30-Oct-17
IRWIN	1208594	Unpatented	GGM 74% Metalore 26%	04-May-18
IRWIN	1208595	Unpatented	GGM 74% Metalore 26%	04-May-18
IRWIN	1208596	Unpatented	GGM 74% Metalore 26%	04-May-18
IRWIN	1208597	Unpatented	GGM 74% Metalore 26%	04-May-18
IRWIN	1208598	Unpatented	GGM 74% Metalore 26%	04-May-18
IRWIN	1208599	Unpatented	GGM 74% Metalore 26%	04-May-18

IRWIN	1208600	Unpatented	GGM 74% Metalore 26%	04-May-18
LEDUC	1208701	Unpatented	GGM 79% Metalore 21%	04-May-18
LEDUC	1208702	Unpatented	GGM 79% Metalore 21%	04-May-18
IRWIN	1208794	Unpatented	GGM 74% Metalore 26%	12-Jul-17
IRWIN	1208795	Unpatented	GGM 74% Metalore 26%	18-Aug-17
LEDUC	1208796	Unpatented	GGM 79% Metalore 21%	20-Jun-18
LEDUC	1208797	Unpatented	GGM 79% Metalore 21%	20-Jun-18
LEDUC	1208798	Unpatented	GGM 79% Metalore 21%	20-Jun-18
LEDUC	1208799	Unpatented	GGM 79% Metalore 21%	20-Jun-18
LEGAULT	1208800	Unpatented	GGM 79% Metalore 21%	20-Jun-18
IRWIN	1217078	Unpatented	GGM 74% Metalore 26%	20-Jun-18
WALTERS	1221490	Unpatented	GGM 79% Metalore 21%	02-May-18
LEDUC	1232533	Unpatented	GGM 79% Metalore 21%	09-May-18
WALTERS	1239559	Unpatented	GGM 79% Metalore 21%	09-May-18
WALTERS	1241813	Unpatented	GGM 79% Metalore 21%	01-May-18
LEGAULT	1242518	Unpatented	GGM 79% Metalore 21%	19-Jun-18
LEGAULT	1242519	Unpatented	GGM 79% Metalore 21%	19-Jun-18
LEGAULT	1242520	Unpatented	GGM 79% Metalore 21%	19-Jun-18
LEGAULT	1242521	Unpatented	GGM 79% Metalore 21%	19-Jun-18
IRWIN	1242523	Unpatented	GGM 74% Metalore 26%	19-Jul-17
IRWIN	1242524	Unpatented	GGM 74% Metalore 26%	13-Jul-17
IRWIN	1242525	Unpatented	GGM 74% Metalore 26%	13-Jul-17
IRWIN	1242526	Unpatented	GGM 74% Metalore 26%	13-Jul-17
WALTERS	1248096	Unpatented	GGM 79% Metalore 21%	04-Feb-18
LEDUC	1248098	Unpatented	GGM 79% Metalore 21%	10-Apr-18
WALTERS	1248099	Unpatented	GGM 79% Metalore 21%	13-Nov-17
WALTERS	3001023	Unpatented	GGM 79% Metalore 21%	02-May-18
LEDUC	4222390	Unpatented	GGM 79% Metalore 21%	09-Nov-17
WALTERS	4261587	Unpatented	GGM 100%	07-Apr-18
WALTERS	4261588	Unpatented	GGM 100%	26-Jul-18
WALTERS	4261593	Unpatented	GGM 100%	26-Jul-18
IRWIN	4262960	Unpatented	GGM 74% Metalore 26%	20-Sep-18
IRWIN	4262963	Unpatented	GGM 74% Metalore 26%	20-Sep-18
IRWIN	4262964	Unpatented	GGM 74% Metalore 26%	20-Sep-18
WALTERS	4279710	Unpatented	GGM 100%	23-Sep-18
WALTERS	645537	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645538	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645539	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645540	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645541	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645542	Unpatented	GGM 79% Metalore 21%	19-Oct-17

WALTERS	645543	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645544	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645545	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645546	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645547	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645548	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	645549	Unpatented	GGM 79% Metalore 21%	19-Oct-17
WALTERS	658025	Unpatented	GGM 79% Metalore 21%	19-Jun-18
WALTERS	658026	Unpatented	GGM 79% Metalore 21%	19-Jun-18
WALTERS	658027	Unpatented	GGM 79% Metalore 21%	19-Jun-18
WALTERS	658028	Unpatented	GGM 79% Metalore 21%	19-Jun-18
WALTERS	658029	Unpatented	GGM 79% Metalore 21%	19-Jun-18
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IRWIN	658054	Unpatented	GGM 74% Metalore 26%	15-May-18
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IRWIN	658056	Unpatented	GGM 74% Metalore 26%	15-May-18
IRWIN	658057	Unpatented	GGM 74% Metalore 26%	16-May-18
IRWIN	658058	Unpatented	GGM 74% Metalore 26%	15-May-18
WALTERS	658278	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658279	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658280	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658281	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658282	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658283	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658284	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658285	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658286	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	658287	Unpatented	GGM 79% Metalore 21%	12-May-18
WALTERS	685777	Unpatented	GGM 79% Metalore 21%	11-Feb-18
WALTERS	685778	Unpatented	GGM 79% Metalore 21%	11-Feb-18
WALTERS	685779	Unpatented	GGM 79% Metalore 21%	11-Feb-18
WALTERS	685780	Unpatented	GGM 79% Metalore 21%	11-Feb-18
IRWIN	715494	Unpatented	GGM 74% Metalore 26%	11-Jun-18
IRWIN	715495	Unpatented	GGM 74% Metalore 26%	11-Jun-18
IRWIN	715496	Unpatented	GGM 74% Metalore 26%	11-Jun-18
IRWIN	715669	Unpatented	GGM 74% Metalore 26%	14-Mar-18
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IRWIN	715677	Unpatented	GGM 74% Metalore 26%	14-Mar-18
IRWIN	715684	Unpatented	GGM 74% Metalore 26%	14-Mar-18
IRWIN	715685	Unpatented	GGM 74% Metalore 26%	14-Mar-18
IRWIN	715692	Unpatented	GGM 74% Metalore 26%	14-Mar-18

IRWIN	715693	Unpatented	GGM 74% Metalore 26%	14-Mar-18
SANDRA	730968	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	730969	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	730970	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	730971	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	730972	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	730973	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	730974	Unpatented	GGM 74% Metalore 26%	31-Dec-17
IRWIN	732024	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732025	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732026	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732027	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732028	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732029	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732030	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732031	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732032	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732033	Unpatented	GGM 74% Metalore 26%	02-Sep-17
IRWIN	732034	Unpatented	GGM 74% Metalore 26%	02-Sep-17
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IRWIN	732036	Unpatented	GGM 74% Metalore 26%	02-Sep-17
WALTERS	746039	Unpatented	GGM 79% Metalore 21%	18-Sep-17
WALTERS	746040	Unpatented	GGM 79% Metalore 21%	18-Sep-17
WALTERS	746467	Unpatented	GGM 79% Metalore 21%	21-Jan-18
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WALTERS	746470	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746471	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746472	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746473	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746474	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746475	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746476	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746477	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746478	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746479	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746506	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746513	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746514	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746515	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746516	Unpatented	GGM 79% Metalore 21%	21-Jan-18

WALTERS	746517	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746518	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746519	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746520	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746521	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746522	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746523	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746524	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746525	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746526	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	746527	Unpatented	GGM 79% Metalore 21%	21-Jan-18
LEDUC	746528	Unpatented	GGM 79% Metalore 21%	21-Jan-18
LEDUC	746529	Unpatented	GGM 79% Metalore 21%	21-Jan-18
IRWIN	747035	Unpatented	GGM 74% Metalore 26%	09-Dec-17
WALTERS	747036	Unpatented	GGM 79% Metalore 21%	09-Dec-17
WALTERS	747037	Unpatented	GGM 79% Metalore 21%	09-Dec-17
WALTERS	747038	Unpatented	GGM 79% Metalore 21%	09-Dec-17
IRWIN	747062	Unpatented	GGM 74% Metalore 26%	01-Jan-18
IRWIN	747063	Unpatented	GGM 74% Metalore 26%	01-Jan-18
IRWIN	747064	Unpatented	GGM 74% Metalore 26%	01-Jan-18
IRWIN	747065	Unpatented	GGM 74% Metalore 26%	01-Jan-18
IRWIN	747066	Unpatented	GGM 74% Metalore 26%	01-Jan-18
SANDRA	747117	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747118	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747119	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747120	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747121	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747122	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747123	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747124	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747125	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747126	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747127	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747128	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747129	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747130	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747131	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747132	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747133	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747134	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747135	Unpatented	GGM 74% Metalore 26%	30-Dec-17

SANDRA	747136	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747137	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747138	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747139	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747140	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747141	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747142	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747143	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747144	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747154	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747155	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747156	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747157	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747158	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747159	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747160	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747161	Unpatented	GGM 74% Metalore 26%	30-Dec-17
SANDRA	747162	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	747163	Unpatented	GGM 74% Metalore 26%	20-Jan-18
IRWIN	747164	Unpatented	GGM 74% Metalore 26%	20-Jan-18
IRWIN	747165	Unpatented	GGM 74% Metalore 26%	20-Jan-18
WALTERS	759610	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	759611	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	759612	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	759613	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	759614	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	759615	Unpatented	GGM 79% Metalore 21%	20-Jan-18
WALTERS	766094	Unpatented	GGM 79% Metalore 21%	20-Jan-18
WALTERS	766095	Unpatented	GGM 79% Metalore 21%	20-Jan-18
WALTERS	766096	Unpatented	GGM 79% Metalore 21%	21-Jan-18
IRWIN	768648	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768649	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768650	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768651	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768652	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768653	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768654	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768655	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768656	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768657	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768659	Unpatented	GGM 74% Metalore 26%	07-Apr-18

IRWIN	768660	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768661	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768662	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768663	Unpatented	GGM 74% Metalore 26%	07-Apr-18
IRWIN	768676	Unpatented	GGM 74% Metalore 26%	08-Apr-18
IRWIN	768744	Unpatented	GGM 74% Metalore 26%	29-May-18
IRWIN	768745	Unpatented	GGM 74% Metalore 26%	29-May-18
IRWIN	768746	Unpatented	GGM 74% Metalore 26%	29-May-18
IRWIN	768747	Unpatented	GGM 74% Metalore 26%	29-May-18
WALTERS	773138	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773139	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773140	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773141	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773142	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773143	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773144	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773145	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	773146	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	784014	Unpatented	GGM 79% Metalore 21%	30-Dec-17
WALTERS	784015	Unpatented	GGM 79% Metalore 21%	30-Dec-17
WALTERS	784016	Unpatented	GGM 79% Metalore 21%	30-Dec-17
WALTERS	784017	Unpatented	GGM 79% Metalore 21%	30-Dec-17
IRWIN	784018	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784019	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784020	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784021	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784022	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784023	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784024	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784025	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784026	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784029	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784030	Unpatented	GGM 74% Metalore 26%	30-Dec-17
IRWIN	784032	Unpatented	GGM 74% Metalore 26%	30-Dec-17
LEDUC	785638	Unpatented	GGM 79% Metalore 21%	21-Jan-18
WALTERS	811697	Unpatented	GGM 79% Metalore 21%	06-Apr-18
WALTERS	813273	Unpatented	GGM 79% Metalore 21%	03-Aug-17
WALTERS	813274	Unpatented	GGM 79% Metalore 21%	03-Aug-17
WALTERS	813276	Unpatented	GGM 79% Metalore 21%	03-Aug-17
WALTERS	813277	Unpatented	GGM 79% Metalore 21%	03-Aug-17
WALTERS	813278	Unpatented	GGM 79% Metalore 21%	03-Aug-17

WALTERS	813279	Unpatented	GGM 79% Metalore 21%	03-Aug-17
WALTERS	813280	Unpatented	GGM 79% Metalore 21%	03-Aug-17
WALTERS	813281	Unpatented	GGM 79% Metalore 21%	03-Aug-17
WALTERS	813464	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	813465	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	813466	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	813467	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815000	Unpatented	GGM 79% Metalore 21%	24-Mar-18
LEDUC	815002	Unpatented	GGM 79% Metalore 21%	24-Mar-18
LEDUC	815003	Unpatented	GGM 79% Metalore 21%	24-Mar-18
LEDUC	815005	Unpatented	GGM 79% Metalore 21%	24-Mar-18
LEDUC	815006	Unpatented	GGM 79% Metalore 21%	24-Mar-18
LEDUC	815033	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815034	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815035	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815036	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815037	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815038	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815039	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815040	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815041	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815042	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815068	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815069	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815070	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815071	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815072	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815073	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815074	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815075	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815076	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815077	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815078	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815079	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815080	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815081	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815082	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815083	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815084	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815085	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	815086	Unpatented	GGM 79% Metalore 21%	24-May-18

LEDUC	815087	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	820611	Unpatented	GGM 79% Metalore 21%	04-Apr-18
WALTERS	820612	Unpatented	GGM 79% Metalore 21%	04-Apr-18
WALTERS	820613	Unpatented	GGM 79% Metalore 21%	04-Apr-18
WALTERS	820614	Unpatented	GGM 79% Metalore 21%	04-Apr-18
WALTERS	828992	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	828993	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	828994	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	828995	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	828996	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	828997	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	829007	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	829008	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	829009	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	829010	Unpatented	GGM 79% Metalore 21%	24-May-18
WALTERS	829011	Unpatented	GGM 79% Metalore 21%	24-May-18
LEDUC	831461	Unpatented	GGM 79% Metalore 21%	25-Jul-17
LEDUC	831462	Unpatented	GGM 79% Metalore 21%	25-Jul-17
LEDUC	831463	Unpatented	GGM 79% Metalore 21%	25-Jul-17
LEDUC	831464	Unpatented	GGM 79% Metalore 21%	25-Jul-17
LEDUC	831465	Unpatented	GGM 79% Metalore 21%	25-Jul-17
LEDUC	831466	Unpatented	GGM 79% Metalore 21%	25-Jul-17
SANDRA	831467	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831468	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831469	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831470	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831471	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831472	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831473	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831474	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831475	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831476	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831477	Unpatented	GGM 74% Metalore 26%	03-Sep-17
SANDRA	831478	Unpatented	GGM 74% Metalore 26%	03-Sep-17
LEDUC	845223	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845225	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845226	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845227	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845228	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845229	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845230	Unpatented	GGM 79% Metalore 21%	23-May-18

LEDUC	845231	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845232	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845233	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845234	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845235	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845236	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845237	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845239	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845240	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	845246	Unpatented	GGM 79% Metalore 21%	26-Jul-17
LEDUC	845247	Unpatented	GGM 79% Metalore 21%	30-Sep-17
LEDUC	845248	Unpatented	GGM 79% Metalore 21%	30-Sep-17
LEDUC	845249	Unpatented	GGM 79% Metalore 21%	30-Sep-17
LEDUC	845254	Unpatented	GGM 79% Metalore 21%	30-Sep-17
LEDUC	845255	Unpatented	GGM 79% Metalore 21%	25-Jul-17
WALTERS	845256	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	845257	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	845258	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	845259	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	845260	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	845261	Unpatented	GGM 79% Metalore 21%	24-Aug-17
WALTERS	845262	Unpatented	GGM 79% Metalore 21%	24-Aug-17
WALTERS	845263	Unpatented	GGM 79% Metalore 21%	24-Aug-17
WALTERS	845264	Unpatented	GGM 79% Metalore 21%	24-Aug-17
IRWIN	846380	Unpatented	GGM 74% Metalore 26%	13-Apr-18
IRWIN	846381	Unpatented	GGM 74% Metalore 26%	13-Apr-18
LEDUC	862408	Unpatented	GGM 79% Metalore 21%	06-Sep-17
LEDUC	862409	Unpatented	GGM 79% Metalore 21%	06-Sep-17
LEDUC	862410	Unpatented	GGM 79% Metalore 21%	06-Sep-17
LEDUC	862851	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862852	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862853	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862854	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862855	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862856	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862857	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862858	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862859	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862860	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862861	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862862	Unpatented	GGM 79% Metalore 21%	23-May-18

LEDUC	862863	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862864	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	862865	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	863260	Unpatented	GGM 79% Metalore 21%	25-Jul-17
LEDUC	863261	Unpatented	GGM 79% Metalore 21%	25-Jul-17
WALTERS	863640	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863641	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863642	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863643	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863644	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863645	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863646	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863647	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863648	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863649	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863650	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863651	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863652	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863653	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863654	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863655	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863656	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863657	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863658	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863659	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863660	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863661	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863662	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863670	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863671	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863672	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863673	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863674	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863675	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863676	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863677	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863678	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863679	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863680	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863681	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863682	Unpatented	GGM 79% Metalore 21%	12-Aug-17

WALTERS	863683	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863684	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863685	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863686	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863687	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863688	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863689	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863690	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863691	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863692	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863693	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863694	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863695	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863696	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863697	Unpatented	GGM 79% Metalore 21%	12-Aug-17
WALTERS	863700	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863701	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863702	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863703	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863704	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863705	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863706	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863707	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863708	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863709	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863710	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863711	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863712	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863713	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863714	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863715	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863716	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863717	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863718	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863719	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863720	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863721	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863722	Unpatented	GGM 79% Metalore 21%	11-Aug-17
LEDUC	863723	Unpatented	GGM 79% Metalore 21%	11-Aug-17
WALTERS	863730	Unpatented	GGM 79% Metalore 21%	24-Aug-17
WALTERS	863731	Unpatented	GGM 79% Metalore 21%	24-Aug-17

WALTERS	863732	Unpatented	GGM 79% Metalore 21%	24-Aug-17
WALTERS	863733	Unpatented	GGM 79% Metalore 21%	24-Aug-17
WALTERS	863734	Unpatented	GGM 79% Metalore 21%	24-Aug-17
IRWIN	863848	Unpatented	GGM 74% Metalore 26%	24-Aug-17
IRWIN	863849	Unpatented	GGM 74% Metalore 26%	24-Aug-17
IRWIN	863850	Unpatented	GGM 74% Metalore 26%	24-Aug-17
IRWIN	863851	Unpatented	GGM 74% Metalore 26%	24-Aug-17
IRWIN	863858	Unpatented	GGM 74% Metalore 26%	24-Aug-17
IRWIN	863859	Unpatented	GGM 74% Metalore 26%	24-Aug-17
IRWIN	863860	Unpatented	GGM 74% Metalore 26%	24-Aug-17
IRWIN	863861	Unpatented	GGM 74% Metalore 26%	24-Aug-17
LEDUC	864394	Unpatented	GGM 79% Metalore 21%	21-Oct-17
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IRWIN	864550	Unpatented	GGM 74% Metalore 26%	21-Sep-17
IRWIN	864551	Unpatented	GGM 74% Metalore 26%	21-Sep-17
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LEDUC	866660	Unpatented	GGM 79% Metalore 21%	23-May-18
LEDUC	866661	Unpatented	GGM 79% Metalore 21%	23-May-18
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LEDUC	866663	Unpatented	GGM 79% Metalore 21%	23-May-18
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LEDUC	866669	Unpatented	GGM 79% Metalore 21%	23-May-18
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LEDUC	874238	Unpatented	GGM 79% Metalore 21%	22-Nov-17
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WALTERS	887602	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887603	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887604	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887605	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887606	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887607	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887608	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887609	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887610	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887611	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887612	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887613	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887614	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887615	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887616	Unpatented	GGM 79% Metalore 21%	09-Feb-18

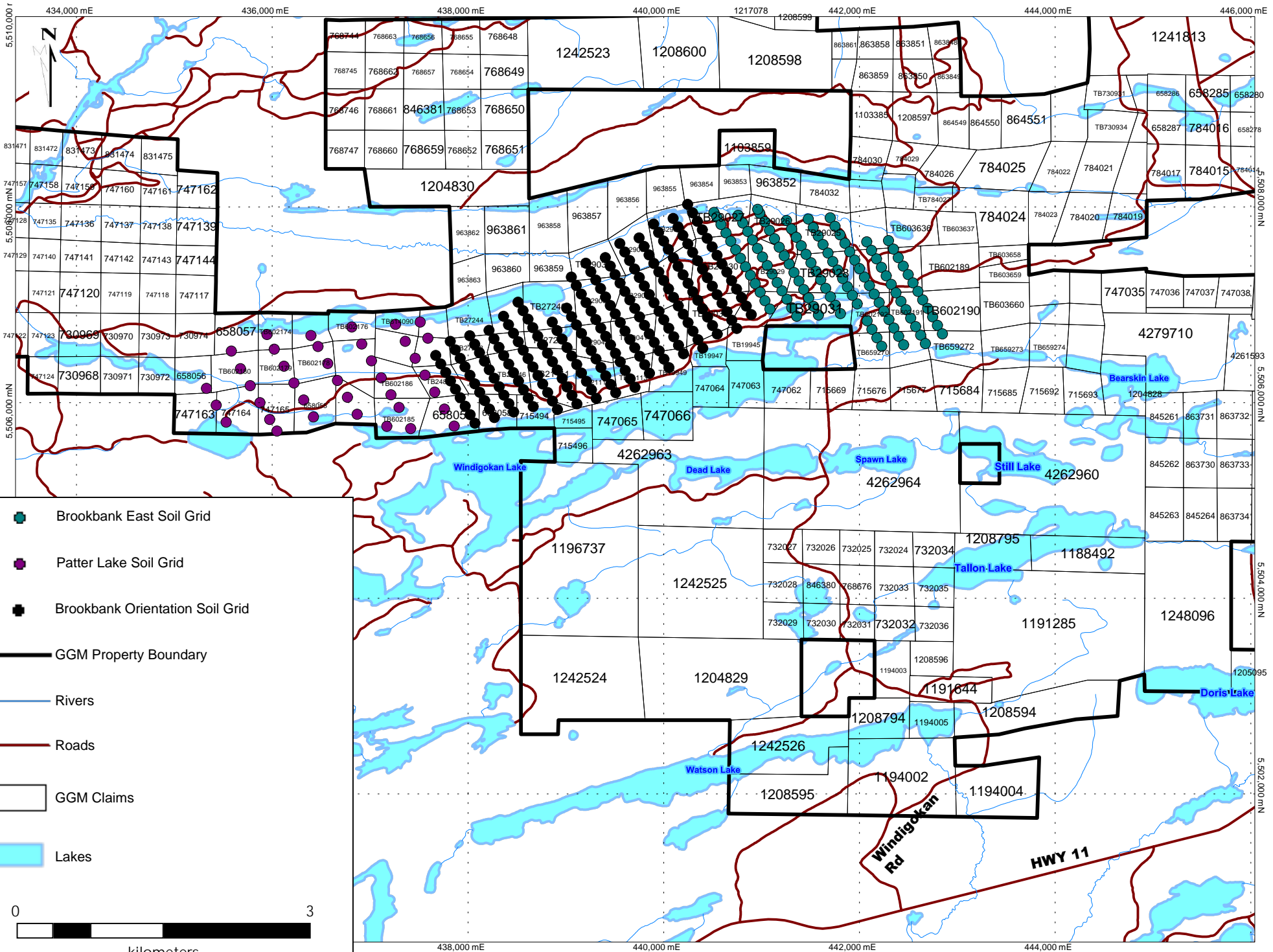
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WALTERS	887621	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887622	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887623	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887624	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887625	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887626	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887627	Unpatented	GGM 79% Metalore 21%	09-Feb-18
WALTERS	887628	Unpatented	GGM 79% Metalore 21%	09-Feb-18
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WALTERS	925637	Unpatented	GGM 79% Metalore 21%	25-Mar-18
WALTERS	925638	Unpatented	GGM 79% Metalore 21%	25-Mar-18
WALTERS	925639	Unpatented	GGM 79% Metalore 21%	25-Mar-18
WALTERS	925640	Unpatented	GGM 79% Metalore 21%	25-Mar-18
WALTERS	925641	Unpatented	GGM 79% Metalore 21%	25-Mar-18
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WALTERS	925888	Unpatented	GGM 79% Metalore 21%	08-Apr-18
WALTERS	925889	Unpatented	GGM 79% Metalore 21%	08-Apr-18
WALTERS	925890	Unpatented	GGM 79% Metalore 21%	08-Apr-18
WALTERS	941621	Unpatented	GGM 79% Metalore 21%	20-Apr-18
WALTERS	941622	Unpatented	GGM 79% Metalore 21%	20-Apr-18
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WALTERS	942123	Unpatented	GGM 79% Metalore 21%	20-Apr-18
IRWIN	963852	Unpatented	GGM 74% Metalore 26%	20-Apr-18
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IRWIN	963857	Unpatented	GGM 74% Metalore 26%	20-Apr-18
IRWIN	963858	Unpatented	GGM 74% Metalore 26%	20-Apr-18
IRWIN	963859	Unpatented	GGM 74% Metalore 26%	20-Apr-18
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IRWIN	963861	Unpatented	GGM 74% Metalore 26%	20-Apr-18
IRWIN	963862	Unpatented	GGM 74% Metalore 26%	20-Apr-18
IRWIN	963863	Unpatented	GGM 74% Metalore 26%	20-Apr-18









Township	Claim Number	Claim Type	Lease	Percent Option	Claim Due Date
Irwin	TB19945	Lease	19288	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB19947	Lease	19282	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB19949	Lease	19283	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB21111	Lease	19291	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB21112	Lease	19290	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB21113	Lease	19289	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB24846	Lease	19296	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB24847	Lease	19295	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB24848	Lease	19294	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB27244	Lease	19287	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB27245	Lease	19286	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB27246	Lease	19293	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB27247	Lease	19292	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB27248	Lease	19285	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB27416	Lease	19284	GGM 74% Metalore 26%	31-Dec-24
Irwin	TB29025	Lease	109291	GGM 100%	31-May-33
Irwin	TB29026	Lease	109291	GGM 100%	31-May-33
Irwin	TB29027	Lease	109291	GGM 100%	31-May-33
Irwin	TB29028	Lease	109291	GGM 100%	31-May-33
Irwin	TB29029	Lease	109291	GGM 100%	31-May-33
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Irwin	TB602179	Lease	109294	GGM 74% Metalore 26%	31-May-33
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Irwin	TB602184	Lease	109294	GGM 74% Metalore 26%	31-May-33
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Irwin	TB602192	Lease	109293	GGM 74% Metalore 26%	31-May-33
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Irwin	TB614093	Lease	109294	GGM 74% Metalore 26%	31-May-33
Irwin	TB659270	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB659271	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB659272	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB659273	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB659274	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB659275	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB674943	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB674944	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB674945	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB674946	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB730931	Lease	109292	GGM 74% Metalore 26%	31-May-33
Irwin	TB730932	Lease	109292	GGM 74% Metalore 26%	31-May-33
Irwin	TB730933	Lease	109292	GGM 74% Metalore 26%	31-May-33
Irwin	TB730934	Lease	109292	GGM 74% Metalore 26%	31-May-33
Irwin	TB730935	Lease	109292	GGM 74% Metalore 26%	31-May-33
Irwin	TB784027	Lease	109293	GGM 74% Metalore 26%	31-May-33
Irwin	TB784028	Lease	109293	GGM 74% Metalore 26%	31-May-33
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Appendix B: Soil Sampling Maps

Brookbank Soil Survey Map

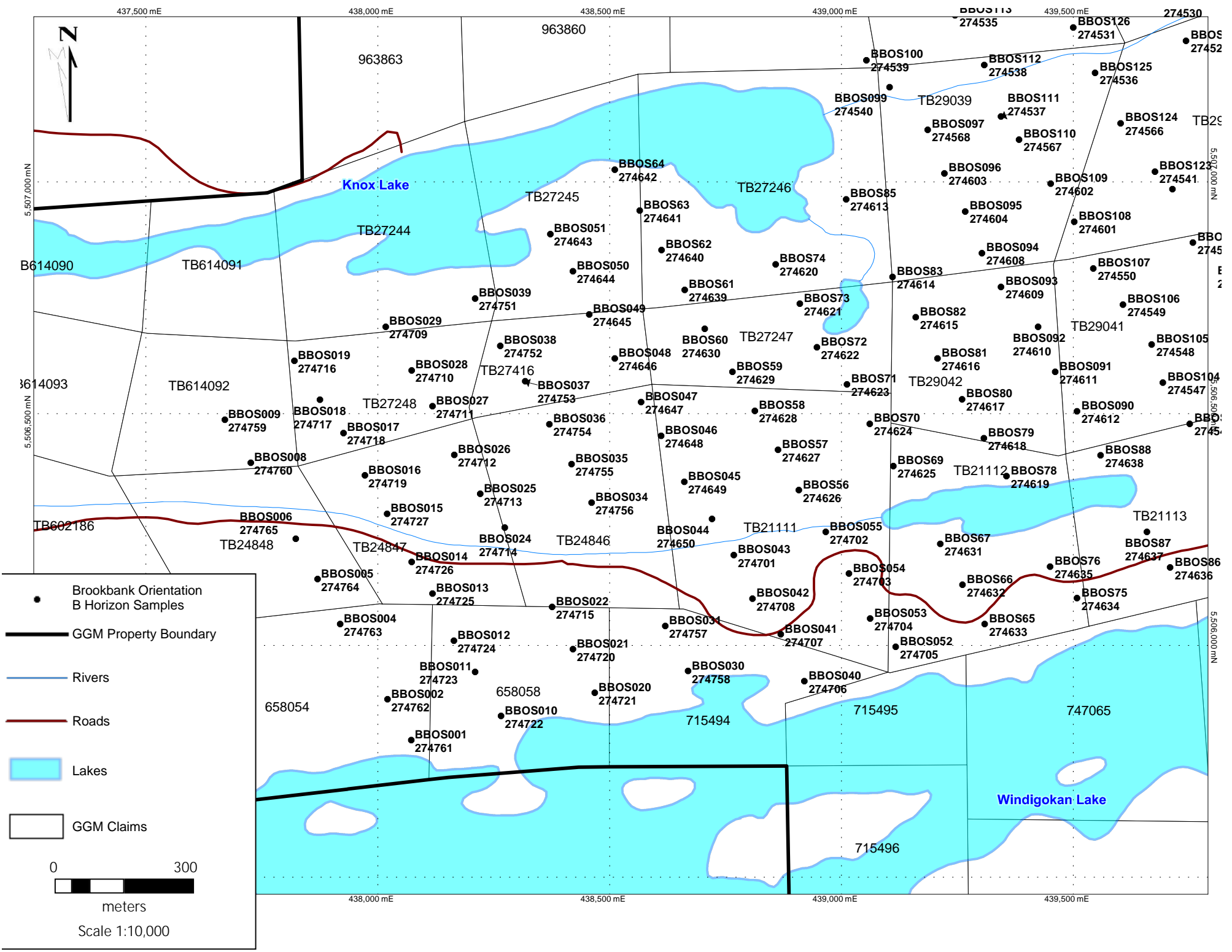


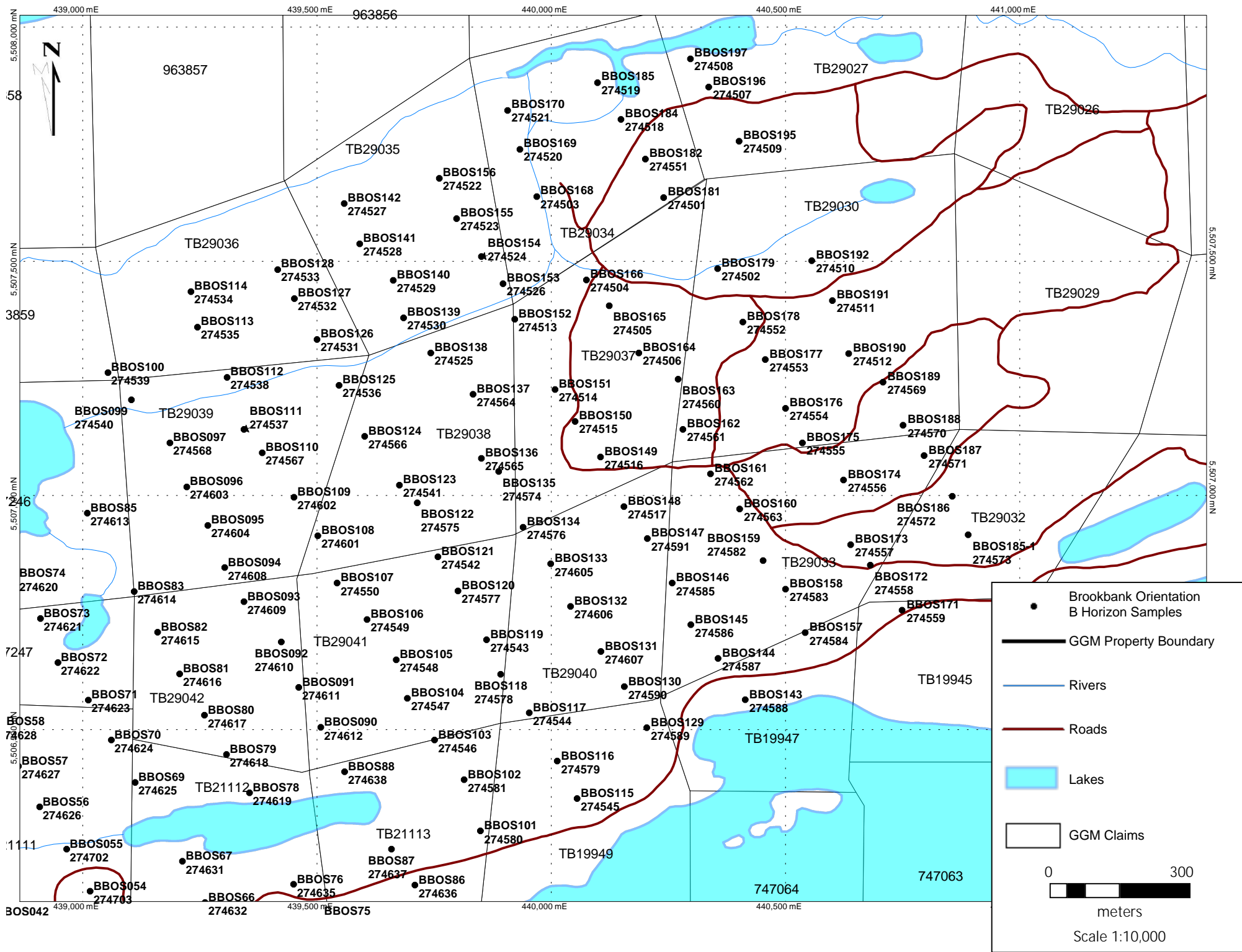
-  Brookbank East Soil Grid
-  Patter Lake Soil Grid
-  Brookbank Orientation Soil Grid
-  GM Property Boundary
-  Rivers
-  Roads
-  GM Claims
-  Lakes

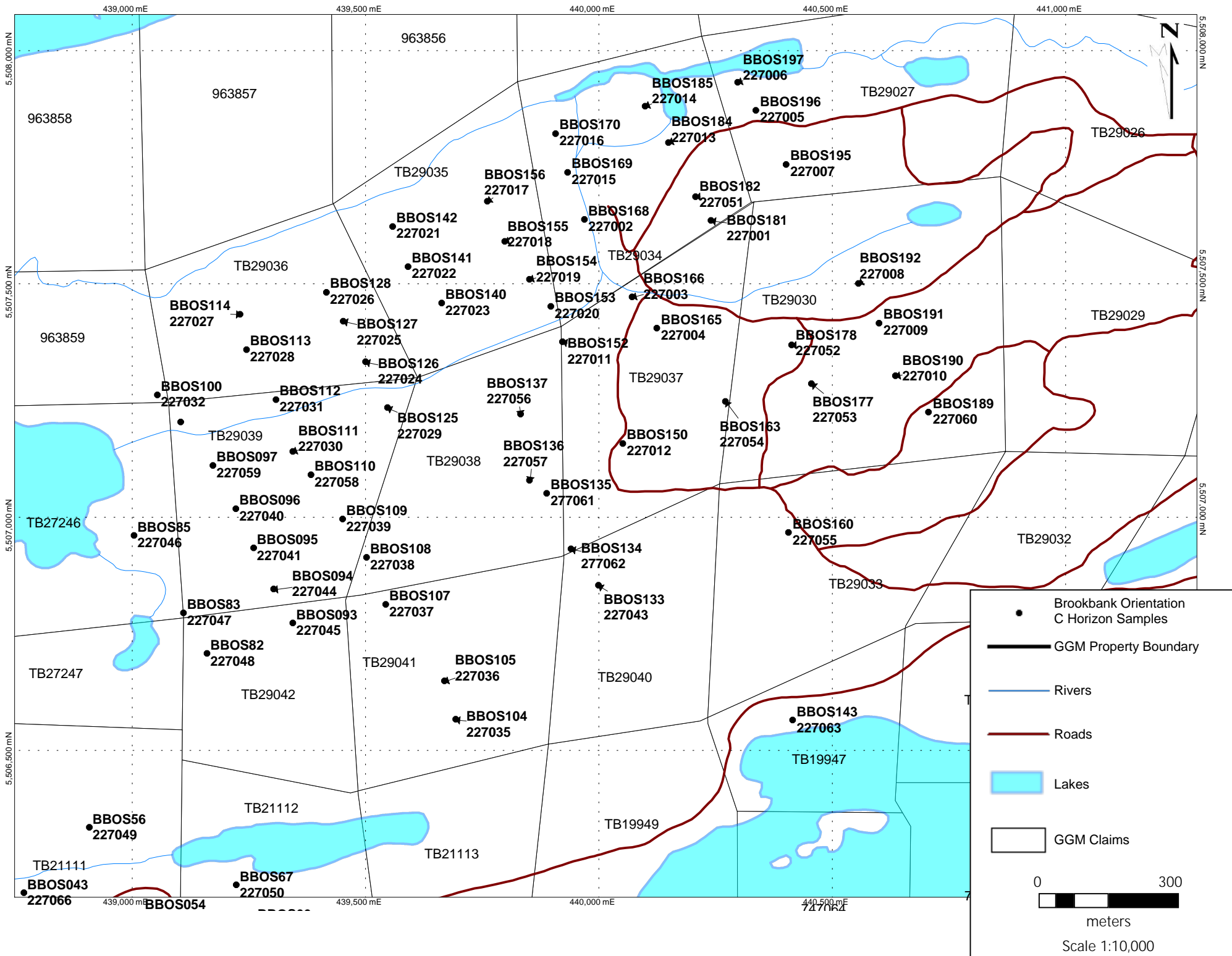


kilometers
Scale 1:50,000

Brookbank Orientation Survey Maps







● Brookbank Orientation C Horizon Samples

— GGM Property Boundary

— Rivers

— Roads

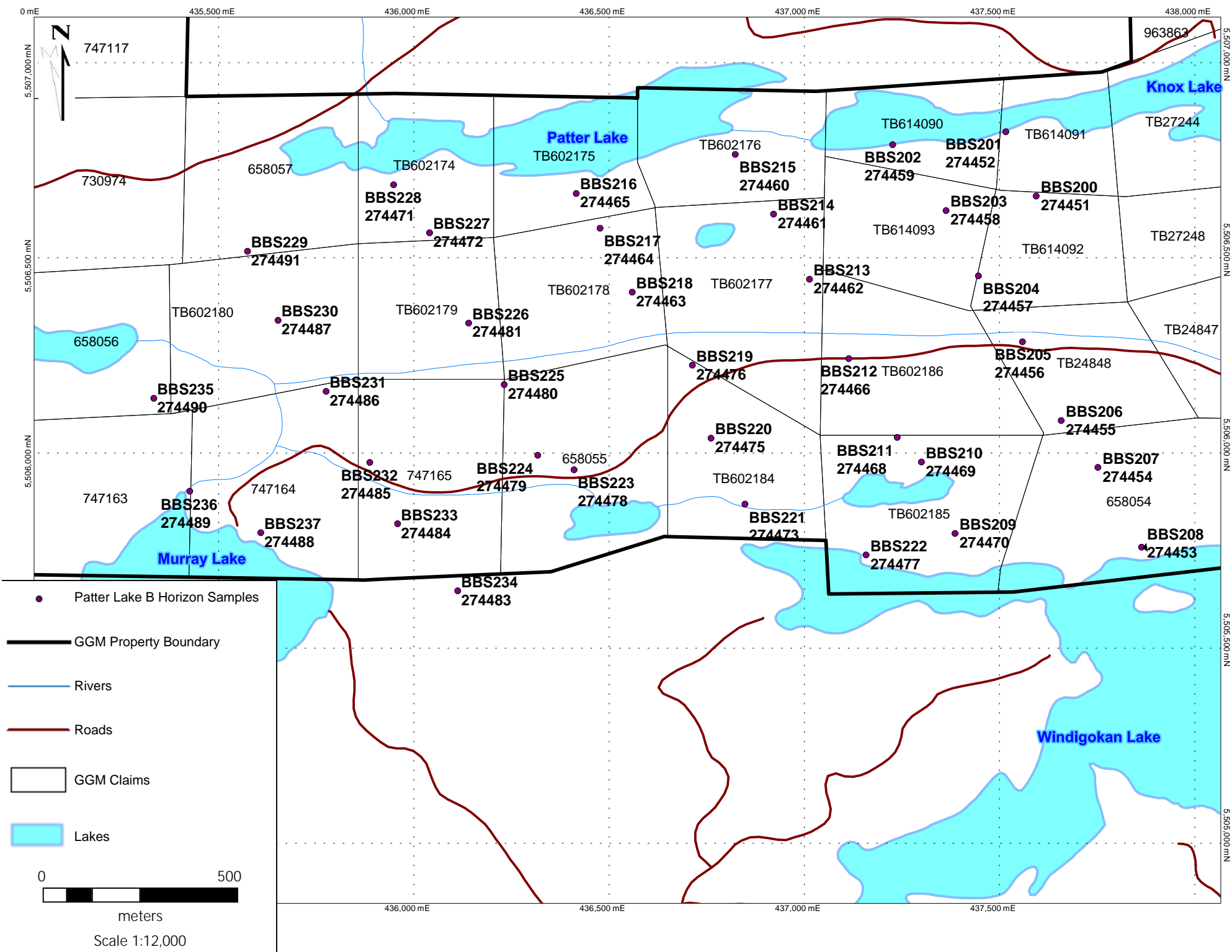
■ Lakes

□ GGM Claims



Scale 1:10,000

Patter Lake Soil Survey Maps



● Patter Lake B Horizon Samples

— GGM Property Boundary

— Rivers

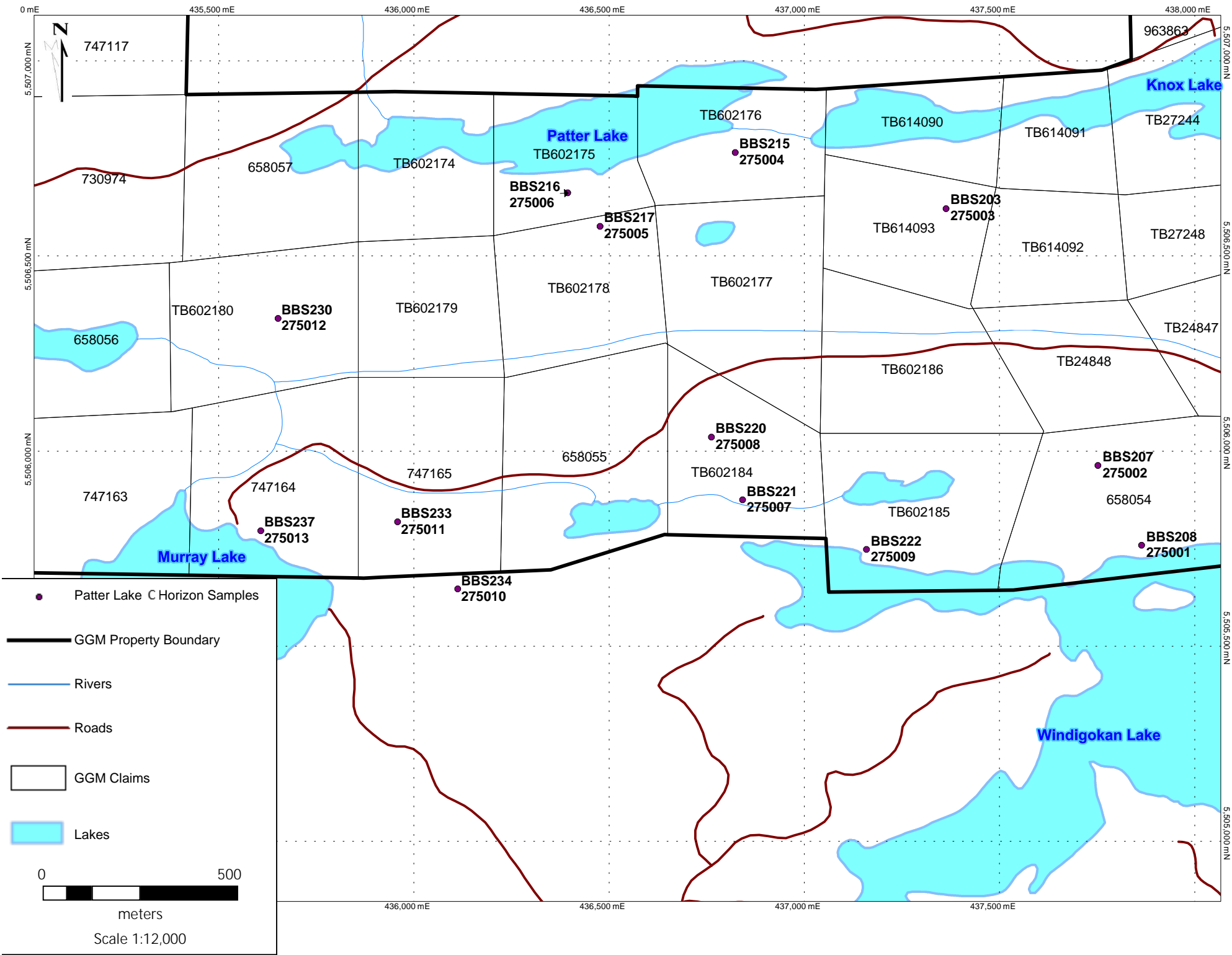
— Roads

□ GGM Claims

■ Lakes



Scale 1:12,000



● Patter Lake C Horizon Samples

— GM Property Boundary

— Rivers

— Roads

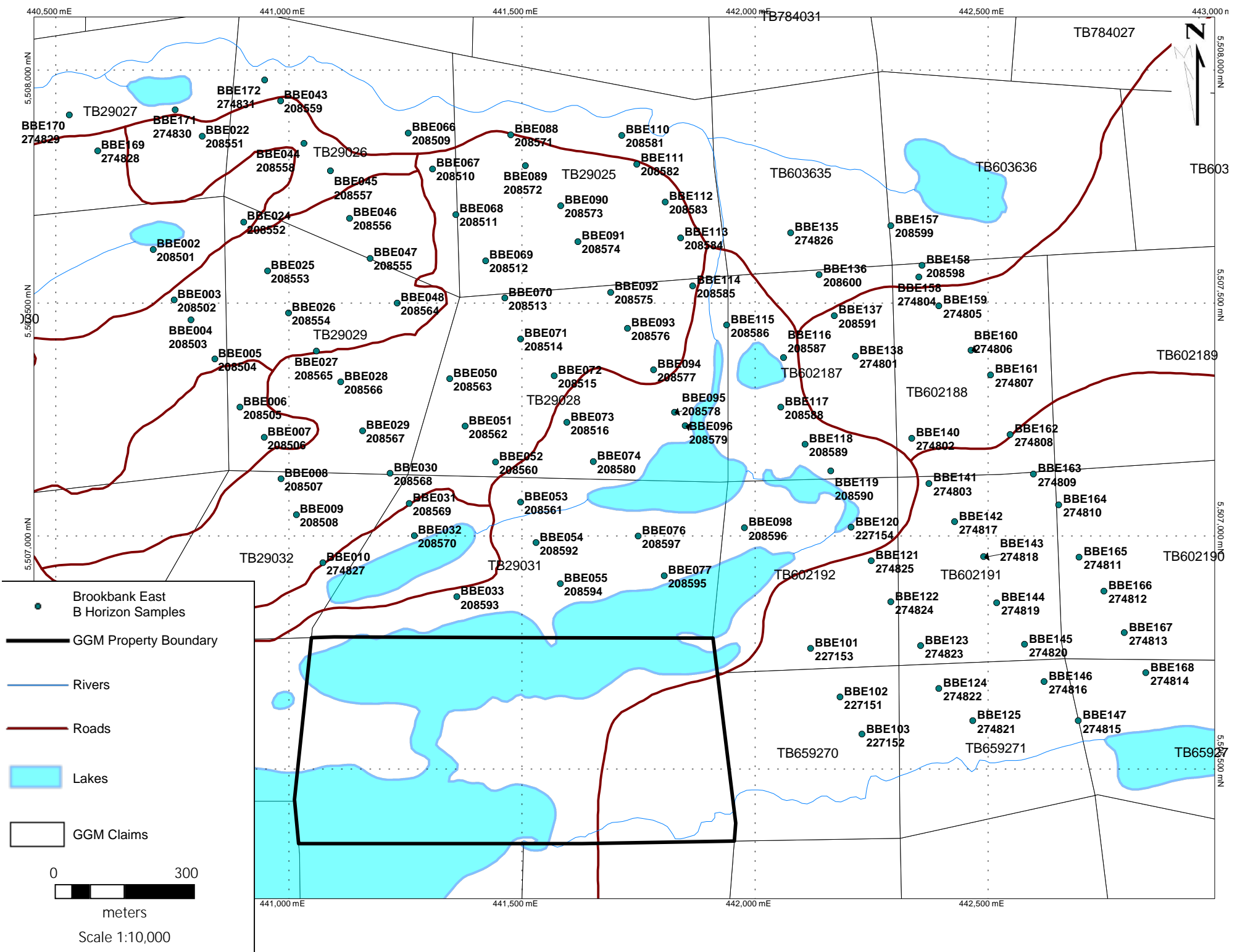
□ GM Claims

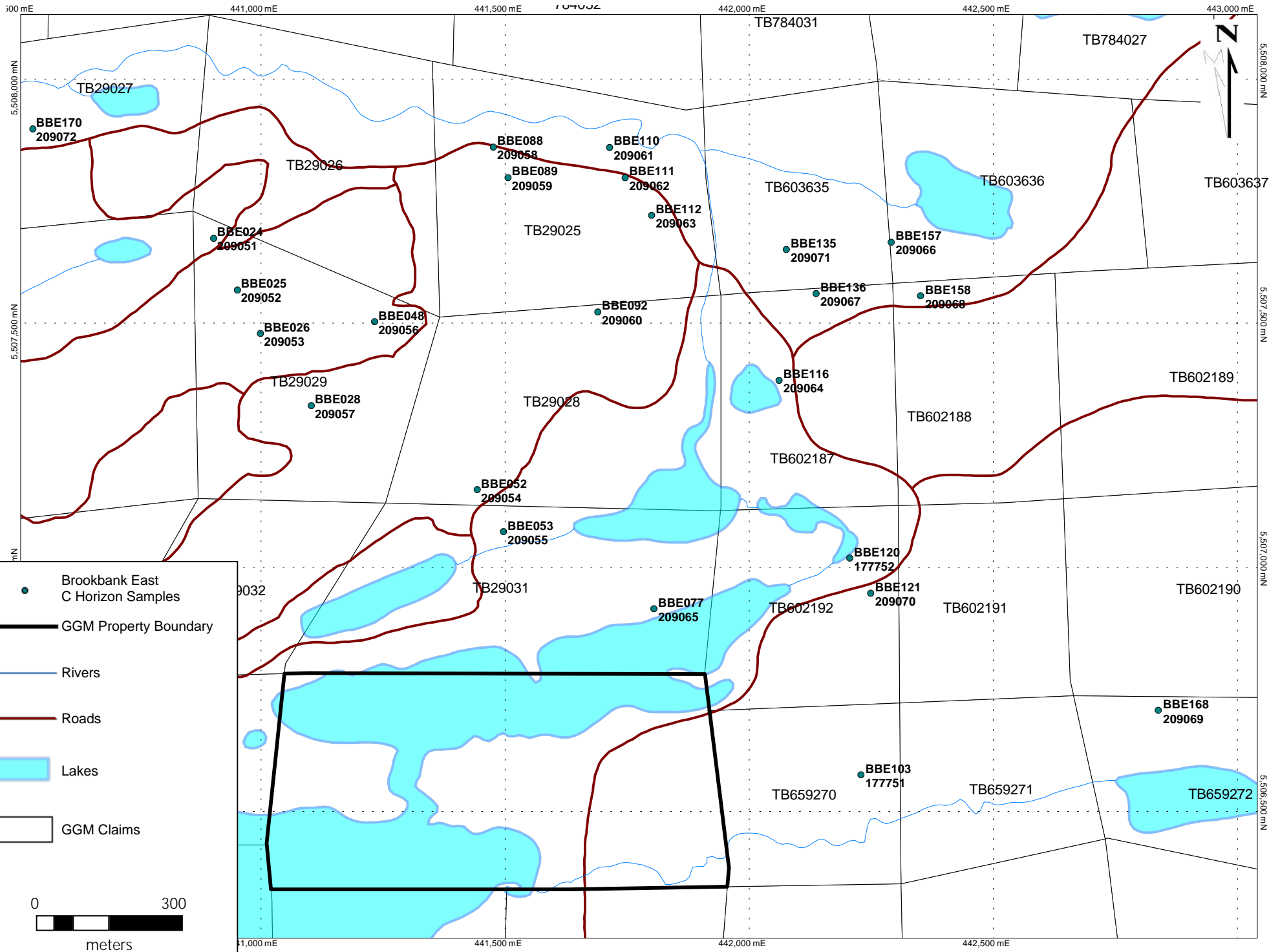
■ Lakes



Scale 1:12,000

Brookbank East Soil Survey Maps





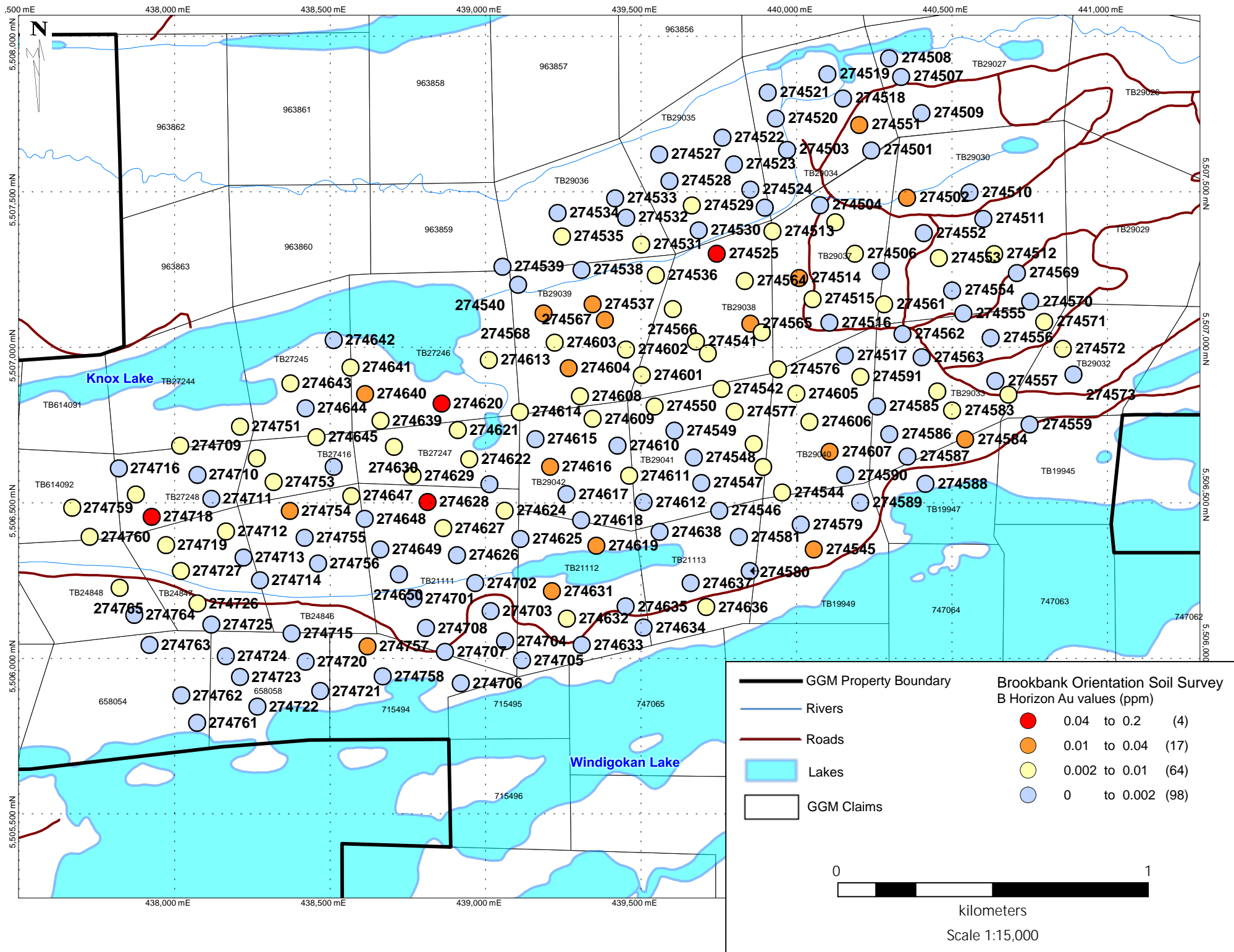
Brookbank East C Horizon Samples
 GGM Property Boundary
 Rivers
 Roads
 Lakes
 GGM Claims

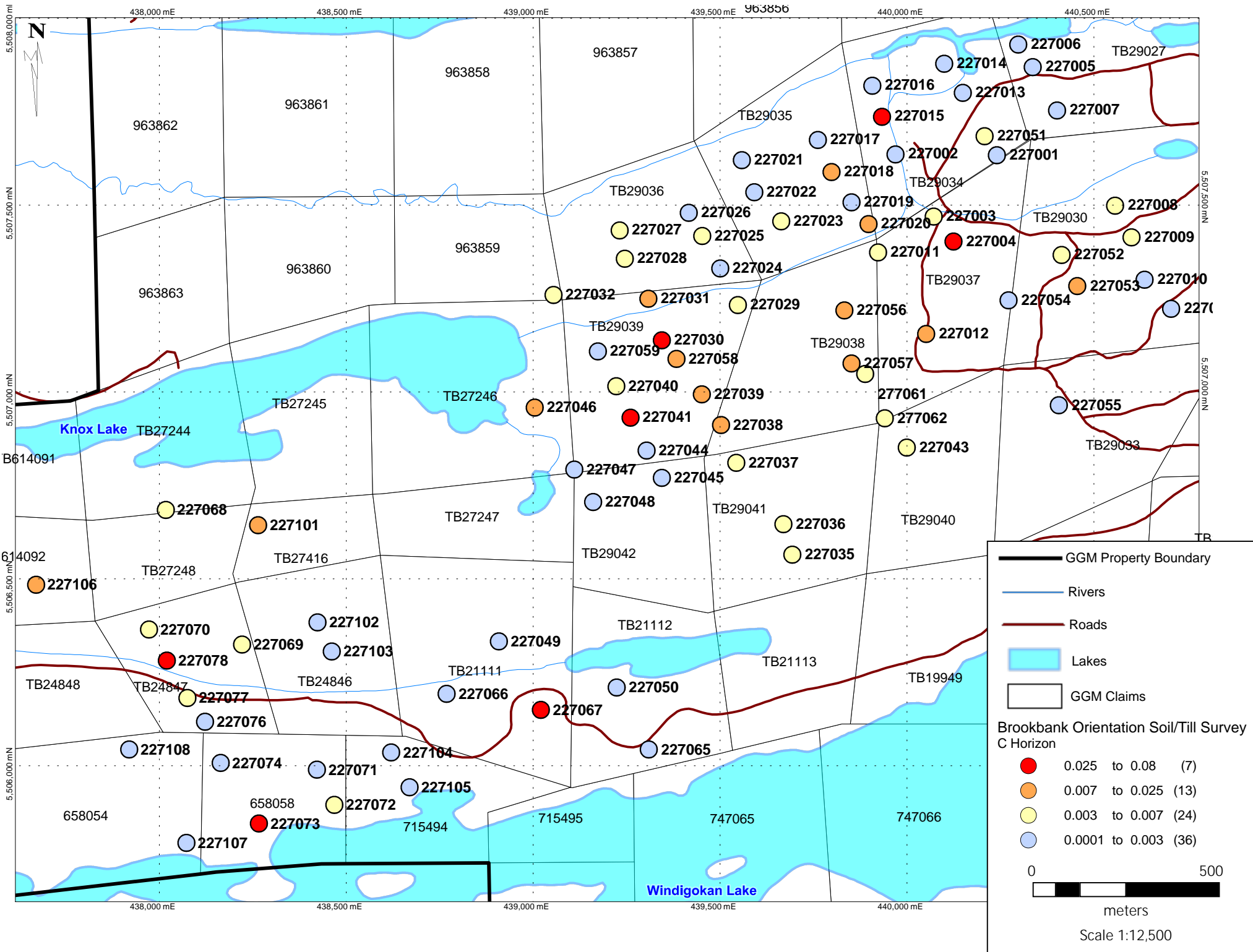
0 300

 meters
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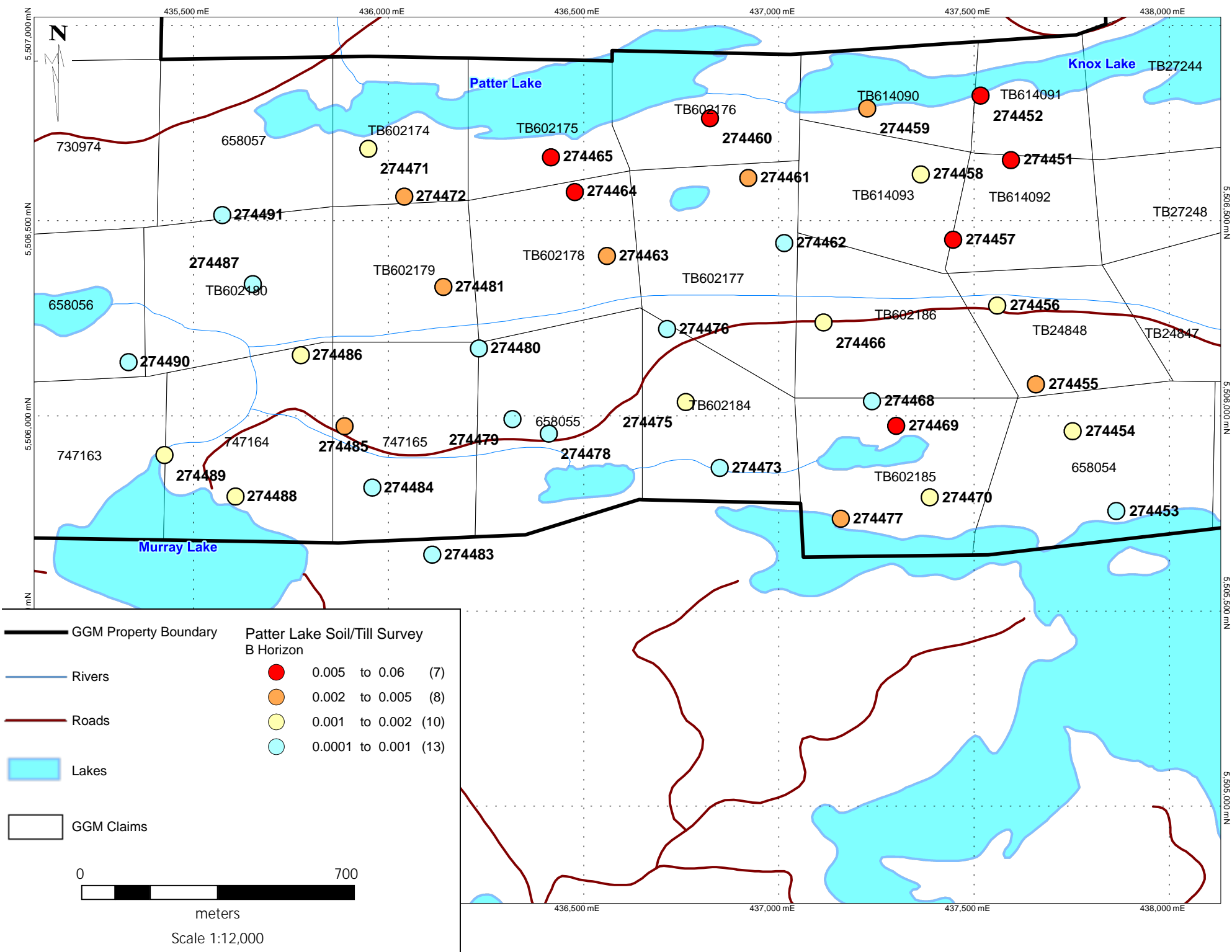
Appendix C: Au Value Thematic Maps

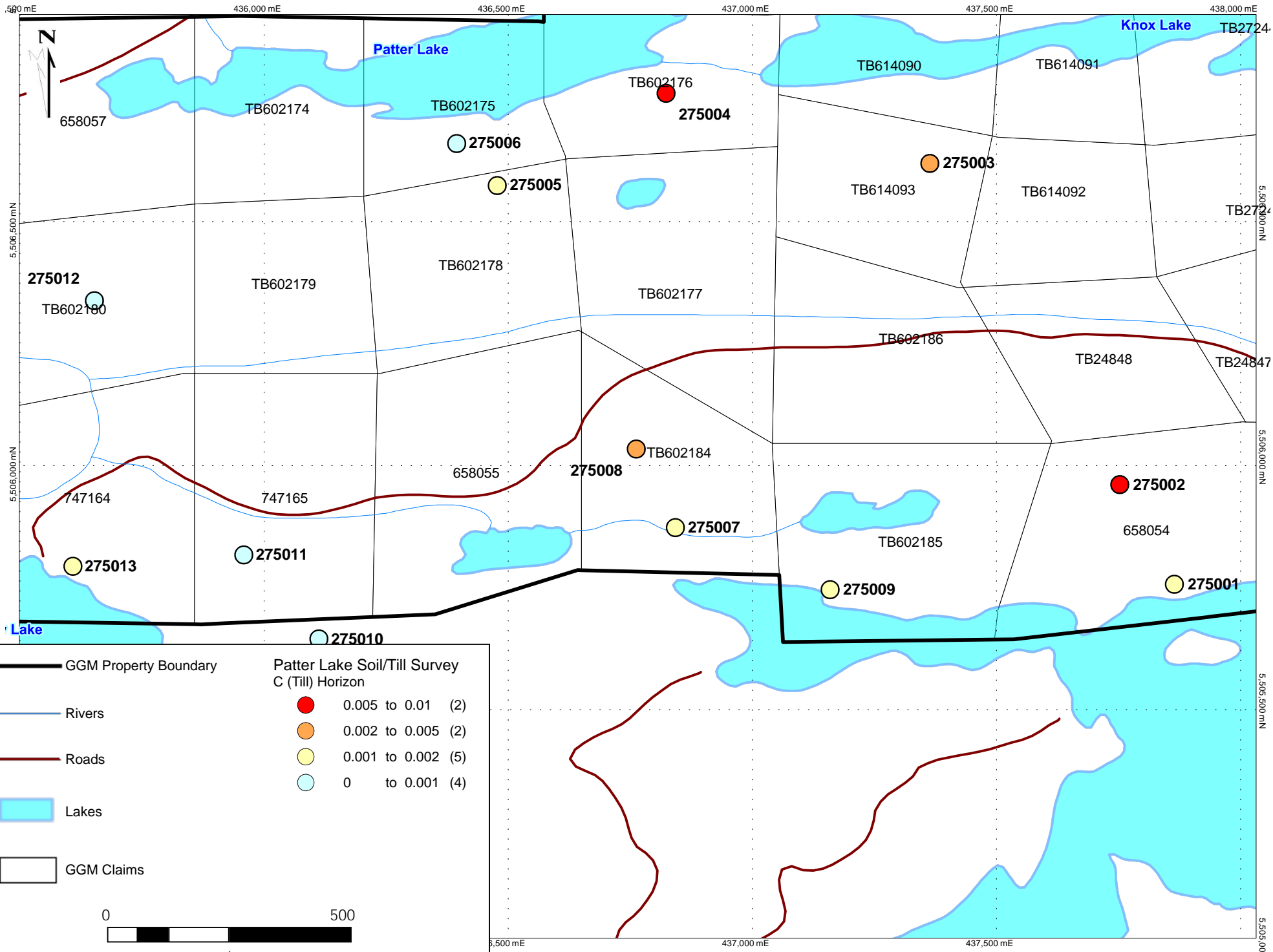
Brookbank Orientation Survey Thematic Maps





Patter Lake Survey Thematic Maps





GGM Property Boundary

Patter Lake Soil/Till Survey C (Till) Horizon

- 0.005 to 0.01 (2)
- 0.002 to 0.005 (2)
- 0.001 to 0.002 (5)
- 0 to 0.001 (4)

Rivers

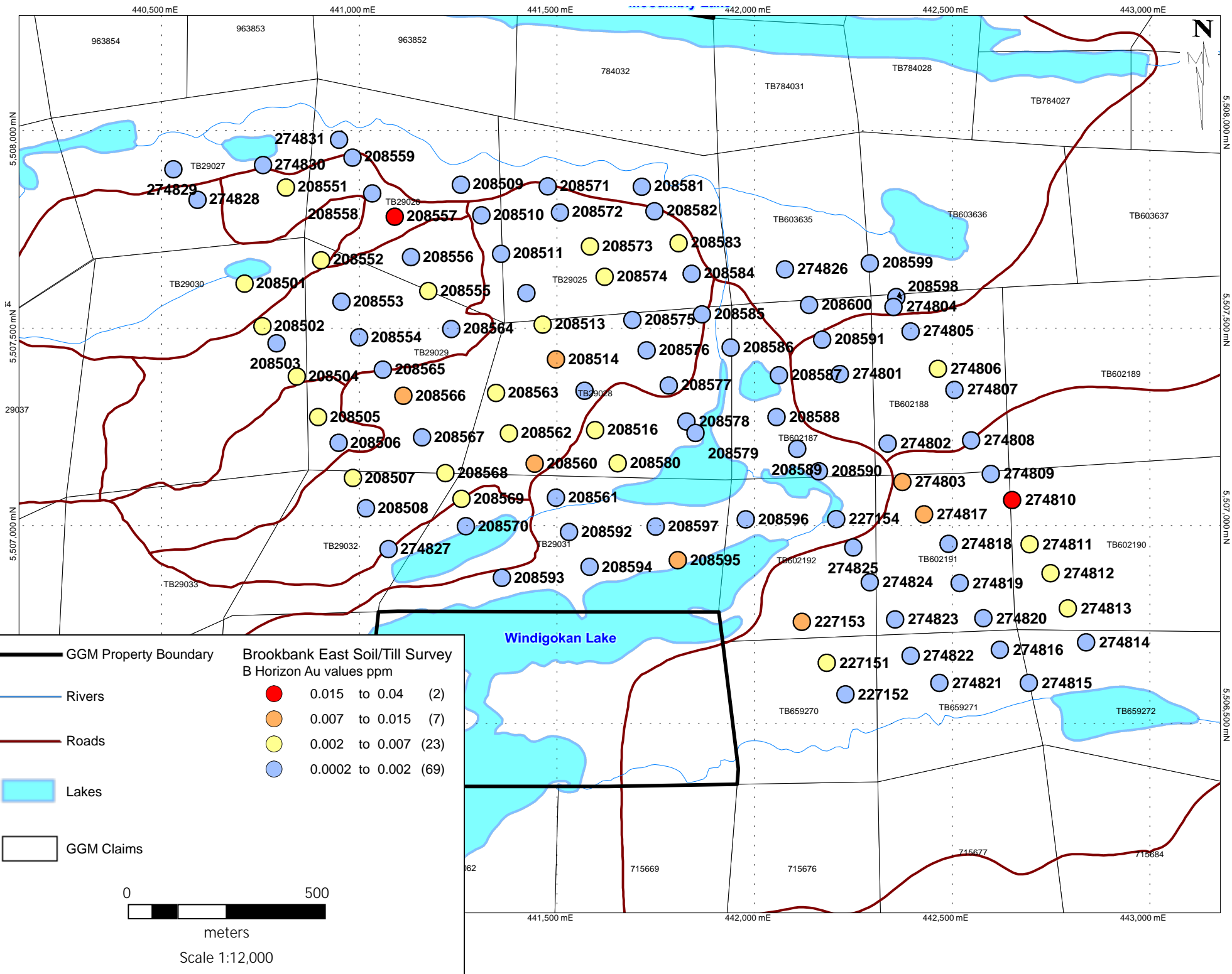
Roads

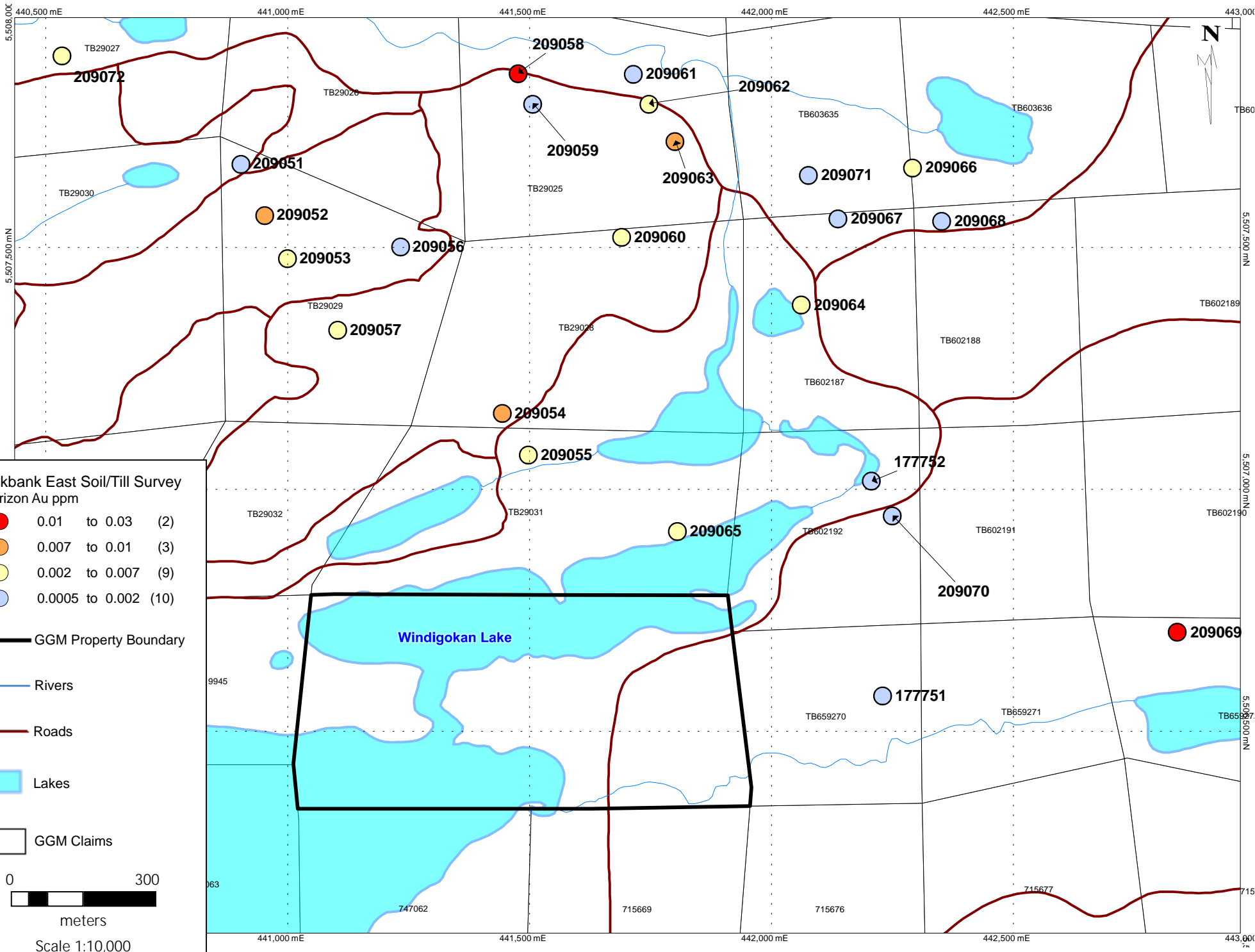
Lakes

GGM Claims

0 500
meters
Scale 1:10,000

Brookbank East Survey Thematic Maps





**Brookbank East Soil/Till Survey
C Horizon Au ppm**

- 0.01 to 0.03 (2)
- 0.007 to 0.01 (3)
- 0.002 to 0.007 (9)
- 0.0005 to 0.002 (10)

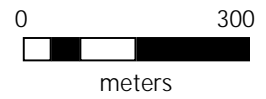
— GGM Property Boundary

— Rivers

— Roads

■ Lakes

□ GGM Claims



Scale 1:10,000

Appendix D: Field Notes

Brookbank Orientation Survey

Site #	Date	UTM East	UTM North	Elev	Sample Site Type	Sample #	Horizon	Depth (m)	Colour	Texture	Clast Comments
BBOS001	15/06/2016	438072	5505796	337	hillside near lake; spruce, balsam, birch	227107	C Horizon	0.57-0.87	med brown-grey	coarse sand to gravel	40% semi-round clasts; 2mm to 2cm
BBOS001	15/06/2016	438072	5505796	337	hillside near lake; spruce, balsam, birch	274761	B Horizon	0.12-0.57	med brown-orange	silty sand	30% semi-rounded various litho; 1mm to 1.5cm
BBOS002	15/06/2016	438021	5505884	352	hill top; balsam, spruce, poplar	274762	B Horizon	0.08-0.49	med brown-orange	silty sand	2% semi-angular mafic clasts; 1 to 3mm
BBOS003	15/06/2016	437969	5505962	337	cedar swamp	N/A					
BBOS004	15/06/2016	437919	5506046	350	hillside above cedar swamp	227108	C Horizon	0.59-0.78	med-light brown-beige	sand/gravel with silt content	30% semi-angular various litho clasts; 1mm to 1cm
BBOS004	15/06/2016	437919	5506046	350	hillside above cedar swamp	274763	B Horizon	0.11-0.59	med brown-orange	silty sand to silt	1% 1-2mm semi-angular mafic clasts
BBOS005	15/06/2016	437870	5506143	349	shallow slope south of cedar swamp	274764	B Horizon	0.10-0.30	med-dark brown-orange	silty sand	10% angular mafic volcanic clasts and chips; 1mm to 0.5cm
BBOS006	15/06/2016	437823	5506230	340	base of hill between swamp and giant cliff	274765	B Horizon	0.08-0.32	med brown-orange	silty sand	20% semi-angular clasts 1mm to 5mm
BBOS007	14/06/2016	437771	5506310			N/A					
BBOS008	14/06/2016	437726	5506394	369		274760	B Horizon	0.12-0.56	med brown-orange	silty sand	15-20% semi-angular mafic clasts 1mm to 2cm
BBOS009	14/06/2016	437670	5506487	352	cedar with balsam and spruce	227106	C Horizon	0.48-0.71	med-light beige	fine sand (beach sand)	1-2% semi-angular mafic clasts 1mm to 1cm

BBOS009	14/06/2016	437670	5506487	352	cedar with balsam and spruce	274759	B Horizon	0.11-0.48	med-light brown-beige	silty sand	1-2% 1-2mm clasts angular mafic
BBOS010	15/06/2016	438266	5505848	337	Flat ground; spruce, alder, balsam and birch trees	227073	C Horizon	0.75-1	med grey-beige	sandy	10% clasts; <4cm in size; angular to subangular mafic volcanic with rounded granitoid; poorly sorted
BBOS010	15/06/2016	438266	5505848	337	Flat ground; spruce, alder, balsam and birch trees	274722	B Horizon	0.20-0.40	med brown with slight orange	silt	<2% clasts; <2mm in size; angular mafic volcanic; sorted
BBOS011	15/06/2016	438210	5505943	348	Slope of outcrop with lots of blown over trees; birch and spruce trees	274723	B Horizon	0.25-0.40	med brown with slight orange	silt	1% clasts; <2mm angular to subangular mafic volcanic; sorted
BBOS012	15/06/2016	438164	5506010	345	At base of outcrop; alder, birch and spruce trees	227074	C Horizon	0.40-0.60	med beige-brown	sandy	5% clasts; <1mm to 2mm in size; angular to subangular; sorted
BBOS012	15/06/2016	438164	5506010	345	At base of outcrop; alder, birch and spruce trees	274724	B Horizon	0.20-0.35	med brown-orange	silt	<2% clasts; <1mm to 1mm in size; sorted; angular to subangular mafic volcanic
BBOS013	15/06/2016	438122	5506120	342	Valley between 2 outcrops; cedar, spruce and birch trees	227076	C Horizon	0.75-0.92	beige	sandy with little clay	<10% clasts; <3-4mm in size; angular to subangular mafic volcanic; poorly sorted
BBOS013	15/06/2016	438118	5506112	344	Valley between 2 outcrops; cedar, spruce and birch trees	274725	B Horizon	0.20-0.40	med to dark brown	clay to silt	no visible clasts

BBOS014	15/06/2016	438075	5506184	332	On slope of outcrop, beside large cedar swamp; spruce and cedar trees	227077	C Horizon	0.40-0.50	med brown	sand	50% chipped up mafic volcanic; <4cm in size; angular and sheared; probably not till?
BBOS014	15/06/2016	438073	5506180	334	On slope of outcrop, beside large cedar swamp; spruce and cedar trees	274726	B Horizon	0.18-0.30	med brown	clay	25-30% chipped up mafic volcanic rock fragments; <3cm in size; angular and elongate; poorly sorted
BBOS015	15/06/2016	438020	5506284	342	Dense cedar and spruce forest	227078	C Horizon	0.65-0.75	med beige-brown	sand	20% clasts; <3cm in size; angular mafic volcanic and rounded granitoid rocks; poorly sorted
BBOS015	15/06/2016	438020	5506284	342	Dense cedar and spruce forest	274727	B Horizon	0.25-0.45	med brown with patches of orange and tan	silt	no visible clasts
BBOS016	14/06/2016	437972	5506367	368	Balsam, birch and spruce patch near edge of very steep cliffside	227070	C Horizon	0.75-1	beige-grey	sandy	25-30% clasts; <4-5cm (most ~2mm); angular mafic volcanic
BBOS016	14/06/2016	437972	5506367	368	Balsam, birch and spruce patch near edge of very steep cliffside	274719	B Horizon	0.20-0.35	med brown-orange	silt	10% clasts; <4cm in size (pebble size); angular mafic volcanic
BBOS017	14/06/2016	437926	5506458	373	Sparse birch, balsam and spruce trees on top of outcrop	274718	B Horizon	0.18-0.45	medium brown-beige	silt to fine sand	<5% clasts; <3mm in size; most are 1mm; angular mafic volcanic

BBOS018	14/06/2016	437875	5506530	359	Sparse cedar/swamp forest in valley on side of outcrop	274717	B Horizon	0.30-0.50	medium brown	silt to fine sand	<2% clasts; <3mm in size (most are <1mm to 1mm); angular mafic volcanic
BBOS019	14/06/2016	437820	5506614	348	Cedar swamp just beside edge of outcrop	274716	B Horizon	0.30-0.50	grey	fine sand	
BBOS020	15/06/2016	438468	5505898	331	Flat ground; spruce, alder, balsam and birch trees	227072	C Horizon	0.50-0.70	beige-tan	sand with little clay	20% clasts; <4cm in size; angular to subangular mafic volcanic with quartz and rounded granitoid rocks; poorly sorted
BBOS020	15/06/2016	438468	5505898	331	Flat ground; spruce, alder, balsam and birch trees	274721	B Horizon	0.20-0.40	med brown with orange	clay to silt	5% clasts; <2cm in size; angular to subangular mafic volcanic and quartz; sorted
BBOS021	15/06/2016	438421	5505992	341	Sloped area with spruce, balsam, alder and birch trees	227071	C Horizon	0.60-0.75	tan beige	sandy	<5% clasts; <3-4cm in size; angular to subangular mafic volcanic + rounded felsic rocks (Granitoid); sorted
BBOS021	15/06/2016	438421	5505992	341	Sloped area with spruce, balsam, alder and birch trees	274720	B Horizon	0.18-0.31	med brown	clay to silt	no visible clasts
BBOS022	13/06/2016	438376	5506083	340	On edge of outcrop with spruce, cedar and birch trees	274715	B Horizon	0.15-0.25	med brown with slight orange	silt	5% clasts; <3cm in size; angular mafic volcanic; poorly sorted
BBOS023	13/06/2016	438316	5506164	332	Cedar swamp; very large and wet; organic material everywhere	N/A					

BBOS024	13/06/2016	438274	5506254	357	On edge of very high cliff face; spruce and birch trees	274714	B Horizon	0.25-0.30	med brown with slight orange	silt	1% clasts; angular mafic volcanic; <1-2mm in size
BBOS025	13/06/2016	438221	5506327	366	Sparse forest of spruce and birch trees; relatively low and flat	227069	C Horizon	0.75-0.95	beige-light brown	fine sand with clay and silt	10-15% pebbles; most around 2mm; angular mafic volcanic and rounded granitoid/felsic; poorly sorted
BBOS025	13/06/2016	438221	5506327	366	Sparse forest of spruce and birch trees; relatively low and flat	274713	B Horizon	0.30-0.50	med brown-beige	silt to fine sand	5% clasts; pebble sized (<4cm) angular mafic volcanic; poorly sorted
BBOS026	13/06/2016	438165	5506411	368	Open area just beside clearing with lots of outcrop; looks like it was bulldozed years ago	274712	B Horizon	0.18-0.30	med brown-beige	fine sand with clay and silt	5-10% clasts; pebble size; <3cm in size; most 1-2mm; poorly sorted angular mafic volcanic
BBOS027	13/06/2016	438118	5506516	363	On slope of outcrop; cedar and birch trees	274711	B Horizon	0.25-0.45	med brown	silt	10% clasts; pebble sized; <3cm most 1-2mm; angular and elongate mafic volcanic
BBOS028	13/06/2016	438073	5506593	348	Cedar swamp; lots of roots and organic material	274710	B Horizon	0.25-0.55	med brown to slight tan	clay to silt	no visible clasts
BBOS029	13/06/2016	438017	5506687	354	Dense alder, spruce forest on large outcrop/hill	227068	C Horizon	0.40-0.60	med beige-tan	fine sand	15% clasts; <4cm in size; angular mafic volcanic; poorly sorted
BBOS029	13/06/2016	438017	5506687	354	Dense alder, spruce forest on large outcrop/hill	274709	B Horizon	0.20-0.32	dark brown	silt	5-10% clasts; <2-3cm in size; angular mafic volcanic; poorly sorted

BBOS030	13/06/2016	438669	5505945	339	Slope near lake; spruce, birch, balsam	227105	C Horizon	0.62-0.86	med-light beige	fine sand to sand	10% semi round to round various litho clasts; 2mm to 3.5cm
BBOS030	13/06/2016	438669	5505945	339	Slope near lake; spruce, birch, balsam	274758	B Horizon	0.16-0.62	med brown-orange	silty sand	1-2% 1-3mm semi round mafic clasts
BBOS031	13/06/2016	438620	5506038	330	Spruce, balsam, alder, birch; shallow slope	227104	C Horizon	0.53-0.75	med brown	coarse sand, some silt content	30% semi round to round; various litho clasts; 1mm to 2cm
BBOS031	13/06/2016	438620	5506042	329	Spruce, balsam, alder, birch; shallow slope	274757	B Horizon	0.12-0.55	med brown-orange	silty sand	15% semi-rounded mafic clasts; 1mm to 2.5cm
BBOS032	13/06/2016	438565	5506133	323	Very wet cedar swamp; could not collect sample; all peat bog/water	N/A					
BBOS033	13/06/2016	438518	5506216	321	Very wet cedar swamp; could not collect sample; all peat bog/water	N/A					
BBOS034	13/06/2016	438461	5506308	343	Spruce, cedar, balsam, alder	227103	C Horizon	0.63-0.84	med-light beige	silty sand reaching fine gravel/sand	10% mafic subrounded clasts; 1mm to 1.5cm
BBOS034	13/06/2016	438461	5506308	343	Spruce, cedar, balsam, alder	274756	B Horizon	0.08-0.63	med brown-orange	silty sand	no clasts
BBOS035	13/06/2016	438423	5506386	343	Further down hill	227102	C Horizon	0.61-0.90	med light grey-beige	silty sand w/ pockets of sand and gravel	20% dark grey 1-4mm size grains
BBOS035	13/06/2016	438418	5506391	343	Hillside; birch, alder, balsam and spruce	274755	B Horizon	0.14-0.61	med brown-orange	silty sand	10% angular mafic clasts; 1mm to 2.5cm
BBOS036	13/06/2016	438370	5506477	352	Slope with close bedrock; cedar, spruce, balsam	274754	B Horizon	0.10-0.32	med-light brown-orange	silty sand	10% semi angular mafic clasts 1mm to 1cm

BBOS037	13/06/2016	438318	5506570	358	Bedrock area; spruce, balsam, birch	274753	B Horizon	0.13-0.34	dark brown-orange	silty sand	2% 1-2mm semi-angular mafic clasts
BBOS038	13/06/2016	438264	5506646	350	Spruce, balsam, birch	227101	C Horizon	0.95-1.05	light brown-orange (slightly lighter than B)	silty sand	25% semi-rounded litho clasts; 1mm to 2cm
BBOS038	13/06/2016	438264	5506646	350	Spruce, balsam, birch	274752	B Horizon	0.12-0.95	light-med brown-orange	silty sand	5% semi-angular mafic clasts; 1mm to 1cm
BBOS039	13/06/2016	438210	5506748	331	Cedar swamp	274751	B Horizon	0.41-0.59	med beige-grey	fine silt	10% angular mafic clasts; 1mm to 1.5cm
BBOS040	12/06/2016	438920	5505923	327	Side of outcrop near cedar swamp	274706	B Horizon	0.25-0.45	Light-med brown-tan	fine sand	<1% clasts; <2cm angular mafic volcanic; sorted
BBOS040	12/06/2016	438920	5505923	327	Side of outcrop near cedar swamp	N/A	C Horizon				
BBOS041	12/06/2016	438869	5506024	334	Slope of outcrop near cedar swamp	274707	B Horizon	0.25-0.40	Med brown with slight orange	fine sand to silt	2-3% clasts; <2-3mm angular mafic volcanic (most are 1-2mm)
BBOS041	12/06/2016	438869	5506024	334	Slope of outcrop near cedar swamp	N/A	C Horizon				
BBOS042	12/06/2016	438808	5506101	334	Spruce, balsam and birch forest; lots of blown over trees and swamp	274708	B Horizon	0.18-0.30	med dark brown-orange	silt	<1%-1% clasts; <1cm angular mafic volcanic; sorted
BBOS043	11/06/2016	438768	5506195	339	Flat area on edge of outcrop; cedar, birch and spruce trees	227066	C Horizon	0.75-0.95	Med grey-beige	sand with clay	40-50% clasts; pebble size (<6cm); very few cobble size; poorly sorted; angular mafic volcanic and rounded felsic rocks

BBOS043	11/06/2016	438768	5506195	339	Flat area on edge of outcrop; cedar, birch and spruce trees	274701	B Horizon	0.30-0.45	Med brown-orange	silt	<5% clasts; angular and elongate mafic volcanic clasts; <4cm in size
BBOS044	11/06/2016	438721	5506273	315	Cedar swamp beside very large cliff from outcrop; sample taken on slope, close to base	274650	B Horizon	0.22-0.37	Med brown with orange	silt	no visible clasts
BBOS044	11/06/2016	438721	5506273	315	Cedar swamp beside very large cliff from outcrop; sample taken on slope, close to base	N/A	C Horizon				
BBOS045	11/06/2016	438661	5506353	340	Sparsely forested spruce, birch and alder patch	274649	B Horizon	0.25-0.45	Med brown with slight orange	silt	no visible clasts
BBOS045	11/06/2016	438661	5506353	340	Sparsely forested spruce, birch and alder patch	N/A	C Horizon				
BBOS046	11/06/2016	438611	5506452	351	Sparse birch, spruce and alder trees on side of outcrop	274648	B Horizon	0.30-0.50	Med brown with med orange	silt to clay	1% clasts; <1cm angular mafic volcanic; sorted
BBOS046	11/06/2016	438611	5506452	351	Sparse birch, spruce and alder trees on side of outcrop	N/A	C Horizon				
BBOS047	11/06/2016	438568	5506525	351	Mossy area with lots of outcrop; birch and spruce trees	274647	B Horizon	0.25-0.40	Med brown-tan with very slight orange	silt to clay	<5% clasts; <1cm angular mafic volcanic; sorted
BBOS047	11/06/2016	438568	5506525	351	Mossy area with lots of outcrop; birch and spruce trees	N/A	C Horizon				
BBOS048	11/06/2016	438511	5506619	344	Small clearing near densely forested alder, spruce trees; lots of outcrop (mafic volcanic)	274646	B Horizon	0.32-0.50	Med brown-tan	clay to silt	<5% clasts; <1cm angular mafic volcanic; sorted

BBOS048	11/06/2016	438511	5506619	344	Small clearing near densely forested alder, spruce trees; lots of outcrop (mafic volcanic)	N/A	C Horizon				
BBOS049	11/06/2016	438456	5506714	361	Very dense alder patch on top of outcrop	274645	B Horizon	0.30-0.48	Med brown with very slight orange	clay to silt	<5% clasts; <1cm angular mafic volcanic; sorted
BBOS049	11/06/2016	438456	5506714	361	Very dense alder patch on top of outcrop	N/A	C Horizon				
BBOS050	11/06/2016	438421	5506807	342	Cedar swamp on side of the road; very wet; lots of outcrop	274644	B Horizon	0.30-0.45	Med brown with slight orange	silt to clay	<5% clasts; angular/slender mafic volcanic; pebble size - less than 2 cm; sorted
BBOS050	11/06/2016	438421	5506807	342	Cedar swamp on side of the road; very wet; lots of outcrop	N/A	C Horizon				
BBOS051	11/06/2016	438372	5506887	332	Cedar swamp in valley between 2 outcrops; lots of outcrop everywhere	274643	B Horizon	0.18-0.32	Med tan-brown	silt to clay	no visible clasts
BBOS051	11/06/2016	438372	5506887	332	Cedar swamp in valley between 2 outcrops; lots of outcrop everywhere	N/A	C Horizon				
BBOS052	12/06/2016	439117	5505997	328	Sparse cedar and spruce forest near edge of swamp	274705	B Horizon	0.30-0.50	Med brown-tan with orange	fine sand	1% mafic volcanic clasts; <2mm in size; angular; well sorted
BBOS052	12/06/2016	439117	5505997	328	Sparse cedar and spruce forest near edge of swamp	N/A	C Horizon				
BBOS053	12/06/2016	439062	5506058	338	Edge of cedar swamp; spruce trees away from swamp	274704	B Horizon	0.20-0.30	Med brown to dark orange	Clay with silt	<1% clasts; angular mafic volcanic; most are ~1-2mm
BBOS053	12/06/2016	439062	5506058	338	Edge of cedar swamp; spruce trees away from swamp	N/A	C Horizon				

BBOS054	12/06/2016	439020	5506152	336	Cedar/birch/spruce swamp on edge of outcrop	227067	C Horizon	0.60-0.85	Med brown-tan	coarse sand to gravel	10% clasts; <2cm - most are ~1cm or less, angular mafic volcanic and rounded granitoid/felsic rocks; well sorted
BBOS054	12/06/2016	439016	5506155	335	Cedar/birch/spruce swamp on edge of outcrop	274703	B Horizon	0.25-0.40	Med brown with slight orange	fine sand	10% clasts; <3cm in size; mostly angular mafic volcanic + few rounded granitoids
BBOS055	12/06/2016	438966	5506245	339	Slope just beside outcrop near cedar swamp	274702	B Horizon	0.25-0.40	Med brown with slight orange	silt to clay	50% clasts; pebble sized (<4cm); most are 1-2cm; angular/broken mafic volcanic; poorly sorted
BBOS055	12/06/2016	438966	5506245	339	Slope just beside outcrop near cedar swamp	N/A	C Horizon				
BBOS090	03/06/2016	439508	5506505	360	Mostly poplar with spruce trees; sparse forest	274612	B Horizon	0.15-0.30	Med brown-orange	sandy	<1% clasts; <1mm to 1mm in size; angular mafic volcanic
BBOS090	03/06/2016	439508	5506505	360	Mostly poplar with spruce trees; sparse forest	N/A	C Horizon				
BBOS091	03/06/2016	439461	5506590	361	Spruce, birch trees with lots of outcrop; very mossy	274611	B Horizon	0.20-0.40	Rusty brown-orange	sandy	1% clasts; <1mm to 1mm; angular mafic volcanic
BBOS091	03/06/2016	439461	5506590	361	Spruce, birch trees with lots of outcrop; very mossy	N/A	C Horizon				
BBOS092	03/06/2016	439424	5506687	356	Abundant outcrop near lots of water and swamp; very mossy with spruce, cedar and birch trees	274610	B Horizon	0.20-0.30	Very dark rusty brown-orange	silt	no visible clasts

BBOS092	03/06/2016	439424	5506687	356	Abundant outcrop near lots of water and swamp; very mossy with spruce, cedar and birch trees	N/A	C Horizon				
BBOS093	03/06/2016	439344	5506773	361	Mound/high ground near cedar swamp	227045	C Horizon	0.70-0.83	Beige-grey	sand with lots of clay and silt	20-25% clasts; <1mm to 3cm; angular mafic volcanic
BBOS093	03/06/2016	439344	5506773	361	Mound/high ground near cedar swamp	274609	B Horizon	0.15-0.30	Brown-orange	clay to silt	<1% clasts; <1mm to 1mm in size; angular mafic volcanic
BBOS094	03/06/2016	439303	5506846	348	Sloped area with lowpoint; cedar and birch trees	227044	C Horizon	0.80-0.93	Grey-beige	fine sand with clay and silt	5% clasts; <3cm in size-most are 1-2mm; angular mafic volcanic; poorly sorted
BBOS094	03/06/2016	439303	5506846	348	Sloped area with lowpoint; cedar and birch trees	274608	B Horizon	0.20-0.40	Rusty brown-orange	silt	1% clasts; <1mm to 1mm; angular mafic volcanic
BBOS095	02/06/2016	439260	5506934	344	Abundant outcrop; jackpine and birch forest	227041	C Horizon	0.70-0.98	Beige-grey	sand with clay and silt	20-25% clasts; <4cm angular mafic volcanic; poorly sorted
BBOS095	02/06/2016	439267	5506936	343	Abundant outcrop; jackpine and birch forest	274604	B Horizon	0.20-0.35	Dark rusty brown-orange	silt to clay	no visible clasts
BBOS096	02/06/2016	439222	5507018	340	Mossy area just beside cleared drilling area; ~10m away from B-09-03 casing	227040	C Horizon	0.45-0.69	Beige-grey	fine sand with clay	5% clasts; <1-2cm; most ~2mm; angular to rounded mafic volcanic + chert
BBOS096	02/06/2016	439222	5507018	340	Mossy area just beside cleared drilling area; ~10m away from B-09-03 casing	274603	B Horizon	0.19-0.35	Rusty brown-orange	silt to fine sand	no visible clasts

BBOS097	29/05/2016	439173	5507111	340	birch, spruce, balsam; side of drill road	227059	C Horizon	1	med brown-beige	silt to sand	20% clasts; sub angular multi litho 1mm to 2cm mafic volcanic and jasper clasts
BBOS097	29/05/2016	439186	5507112	339	birch, spruce, balsam; side of drill road	274568	B Horizon	0.56	med brown-orange	silt to sand	15% clasts; semi angular, 1mm to 2 cm mafic volcanic
BBOS099	30/05/2016	439104	5507204	333	spruce, balsam, cedar trees near edge of outcrop and grown in ploughed road	227033	C Horizon	0.9-1.16	light brown-beige	fine sand w/silt and clay	5-10% clasts; <3cm in size; angular mafic volcanic; poorly sorted
BBOS099	30/05/2016	439104	5507204	333	spruce, balsam, cedar trees near edge of outcrop and grown in ploughed road	274540	B Horizon	0.2-0.7	med brown-orange	fine sand	1-2% clasts; pebble sized (<3-4mm); angular mafic volcanic; poorly sorted
BBOS100	30/05/2016	439054	5507262	343	high point near outcrop; surrounded by birch and spruce trees	227032	C Horizon	0.64-0.8	med brown-beige	silt to sand	25% clasts; pebble size; most are angular and mafic volcanic but very few are rounded and felsic; <5-6mm
BBOS100	30/05/2016	439054	5507262	343	high point near outcrop; surrounded by birch and spruce trees	274539	B Horizon	0.2-0.35	rusty orange-brown	silt	<1% clasts - <1mm mafic volcanic and angular; somewhat sorted
BBOS101	31/05/2016	439849	5506284	346	Cedar/balsam and birch stand; on top of outcrop; swampy in surrounding areas.	274580	B Horizon	0.3-0.49	Orange-brown	fine sand	3% very coarse sand to granules (2mm); mafic volc and appear to be angular.
BBOS102	31/05/2016	439814	5506393	341	Cedar swamp with spruce (black) on slope off the side of an outcrop (or glacial mound?).	274581	B Horizon	0.3-0.49	Brown-orange/red	sandy (fine)	<1% pebbles - subangular; mafic volc; up to 2cm

BBOS103	02/06/2016	439751	5506478	349	Large mound (possible esker) with spruce trees; very mossy	274546	B Horizon	0.20-0.31	Rusty brown-orange	silt to fine sand	no visible clasts
BBOS103	02/06/2016	439751	5506478	349	Large mound (possible esker) with spruce trees; very mossy	N/A	C Horizon				
BBOS104	02/06/2016	439693	5506567	365	Just off cutline on slope of large outcrop; spruce and birch trees	227035	C Horizon	0.60-0.97	Med brown-beige	silt to sand	25% clasts; poorly sorted; up to 4cm in size; angular mafic volcanic; most are around 2mm
BBOS104	02/06/2016	439693	5506567	365	Just off cutline on slope of large outcrop; spruce and birch trees	274547	B Horizon	0.20-0.35	Rusty brown-orange	silt to fine sand	1% clasts; <1mm in size; angular mafic volcanic; sorted
BBOS105	02/06/2016	439669	5506649	360	Slope of outcrop; lots of blown over trees	227036	C Horizon	0.50-0.70	Light brown-beige	sand w/silt and clay	20-30% clasts; <4cm in size; large and angular mafic volcanic; poorly sorted. Lots of clasts <1mm
BBOS105	02/06/2016	439669	5506649	360	Slope of outcrop; lots of blown over trees	274548	B Horizon	0.22-0.35	Rusty brown-orange	silt to very fine sand	no visible clasts
BBOS106	02/06/2016	439607	5506735	351	Cedar swamp just outside of cleared area; drill collar ~25m away	274549	B Horizon	0.20-0.35	Rusty brown-orange	silt	no visible clasts
BBOS106	02/06/2016	439607	5506735	351	Cedar swamp just outside of cleared area; drill collar ~25m away	N/A	C Horizon				
BBOS107	02/06/2016	439543	5506813	345	Cedar swamp	227037	C Horizon	0.45-0.60	Light brown-beige	sand to coarse sand w/ silt	35% clasts; <4cm in size; angular mafic volcanic; poorly sorted
BBOS107	02/06/2016	439543	5506813	345	Cedar swamp	274550	B Horizon	0.15-0.28	Dark rusty-brown orange	silt	1% clasts; <1mm mafic volcanic

BBOS108	02/06/2016	439502	5506914	346	Mossy area; spruce + birch trees; lots of outcrop	227038	C Horizon	0.38-0.51	Light brown	sand with clay	25-30% clasts; most are ~2-3mm but up to 3-4cm in size; angular mafic volcanic
BBOS108	02/06/2016	439502	5506914	346	Mossy area; spruce + birch trees; lots of outcrop	274601	B Horizon	0.20-0.35	Brown with slight orange	silt	<1% clasts; <1mm to 2mm in size; angular mafic volcanic
BBOS109	02/06/2016	439451	5506996	341	Jackpine forest; between 2 ridges along cut line	227039	C Horizon	0.35-0.45	Light brown	sand with clay	25-30% clasts; pebble size (<4cm); angular mafic volcanic
BBOS109	02/06/2016	439451	5506996	341	Jackpine forest; between 2 ridges along cut line	274602	B Horizon	0.20-0.35	Rusty brown-orange	silt to clay	<1% clasts; <1mm in size; angular mafic volcanic
BBOS110	29/05/2016	439383	5507091	345	slope between 2 drill sites	227058	C Horizon	0.78	light brown-beige	silt to sand	10% multi-litho clasts; 1mm to 3cm; subrounded
BBOS110	29/05/2016	439383	5507091	345	slope between 2 drill sites	274567	B Horizon	0.23	med-dark reddish brown	silty sand	10% 1mm to 1 cm mafic volcanic clasts
BBOS111	30/05/2016	439344	5507141	335	flat area on slope of larger scale outcrop; spruce, cedar, balsam, birch trees	227030	C Horizon	0.65-0.82	beige-light brown	sand w/ little clay/silt	25% clasts; pebble to cobble size; <4cm in size; angular to rounded; mafic volcanic; poorly sorted
BBOS111	30/05/2016	439344	5507141	335	flat area on slope of larger scale outcrop; spruce, cedar, balsam, birch trees	274537	B Horizon	0.2-0.35	rusty orange-brown	silt to fine sand	1-2% clasts; pebble sized (<3mm) and angular; clasts look like mafic volcanic

BBOS112	30/05/2016	439308	5507252	323	sloped area on edge of mafic volcanic outcrop, near swamp/river; spruce trees	227031	C Horizon	0.52-0.70	brown-dark beige	sand w/ little silt/clay	40% clasts; pebble + cobble size; <5cm; angular mafic volcanic; poorly sorted
BBOS112	30/05/2016	439308	5507252	323	sloped area on edge of mafic volcanic outcrop, near swamp/river; spruce trees	274538	B Horizon	0.2-0.3	rusty brown-orange	fine silt to sand	10-15% clasts; pebble size (<4cm); angular mafic volcanic; poorly sorted
BBOS113	26/05/2016	439245	5507359	355	little dip on side of 2 outcrops; blown over dead trees	227028	C Horizon	0.52-0.65	med brown	sand-silt	30-40% clasts; <5cm in size; local angular mafic volcanic
BBOS113	26/05/2016	439245	5507359	355	little dip on side of 2 outcrops; blown over dead trees	274535	B Horizon	0.1-0.25	rusty brown-orange	silt-fine sand	5-10% clasts; granule to pebble size; <2cm; angular local mafic volc.
BBOS114	26/05/2016	439231	5507435	342	flat area on cliffside of outcrop; near cedar and spruce trees.	227027	C Horizon	0.7-.87	grey-beige	fine sand-silt w/ clay	30% clasts; granule and pebble size; <4cm; angular mafic volcanic
BBOS114	26/05/2016	439231	5507435	342	flat area on cliffside of outcrop; near cedar and spruce trees.	274534	B Horizon	0.12-0.3	Brown-beige	fine sand	No visible clasts
BBOS115	31/05/2016	440055	5506353	348	very hilly balsam + birch forested area; blown over trees and lots of outcrop	274545	B Horizon	0.26-0.52	brown-orange	silt	<5% clasts; pebble size; <2-3cm + angular (mafic volcanic); poorly sorted
BBOS115	31/05/2016	440055	5506353	348	very hilly balsam + birch forested area; blown over trees and lots of outcrop	N/A	C Horizon				

BBOS116	31/05/2016	440013	5506433	344	Birch and balsam stand next to a cedar swamp; on a slight slope of small outcrop ridge: on the slope that leads to a low area between the smaller outcrop and a larger one.	274579	B Horizon	0.3-0.5	Brown	sandy	3-4% pinkish (granitic) pebbles (subrounded) with 1-2% mafic volc granules.
BBOS117	31/05/2016	439953	5506536	356	very high point on top of large outcrop; spruce trees	274544	B Horizon	0.25-0.6	brown-orange colour	silt	<5% clasts; pebble size; <3-4cm angular mafic volcanic; poorly sorted
BBOS117	31/05/2016	439953	5506536	356	very high point on top of large outcrop; spruce trees	N/A	C Horizon				
BBOS118	31/05/2016	439892	5506618	366	Balsam/spruce with birch & cedar stand with minor maple on a slight slope of outcrop. There is a swampy low area next to the outcrop.	274578	B Horizon	0.2-0.36	Brown to orange-brown	Fine sand-silty	5% mafic volc pebbles; up to 2cm; angular to subangular.
BBOS119	31/05/2016	439862	5506692	355	cedar swamp on edge of outcrop	274543	B Horizon	0.35-0.49	med brown-slight orange	silt	5-10% clasts; pebble size; mostly 1mm but largest is 3cm; angular mafic volcanic; poorly sorted
BBOS119	31/05/2016	439862	5506692	355	cedar swamp on edge of outcrop	N/A	C Horizon				
BBOS120	31/05/2016	439801	5506796	358	Balsam/spruce and maple/birch stand on a slope of a large outcrop; some cedar trees present.	274577	B Horizon	0.3-0.49	Brown	silty-fine sand	0.5-1% clasts (mafic volc) - granules to pebbles; mostly angular pebbles of mafic volc (up to 2cm).
BBOS121	31/05/2016	439758	5506869	342	side of bank near road; cedar and spruce trees	274542	B Horizon	0.2-0.48	brown-slightly orange	fine sand	5-10% clasts; pebble size; <3-4mm in size;

											angular mafic volcanic clasts; poorly sorted
BBOS121	31/05/2016	439758	5506869	342	side of bank near road; cedar and spruce trees	N/A	C Horizon				
BBOS122	31/05/2016	439714	5506984	343	Balsam/spruce and birch stand on outcrop; right next to road and swamp.	274575	B Horizon	0.3-0.45	Brown to brown-orange	sandy-silt	5% clasts; 50/50 pebbles and granules - angular to subangular; mafic volc; up to 2cm.
BBOS123	31/05/2016	439676	5507022	330	cedar swamp with lots of fallen over trees and organic material	274541	B Horizon	0.3-0.53	brown-beige	clay to silt	<5% clasts; angular and rounded; angular mafic volcanic and rounded granitoid rock; <2-3 cm in size but most are <1mm
BBOS123	31/05/2016	439676	5507022	330	cedar swamp with lots of fallen over trees and organic material	N/A	C Horizon				
BBOS124	29/05/2016	439602	5507126	335	near swamp and outcrop; spruce, cedar, birch, cedar	274566	B Horizon	0.43	med brown-orange	silty sand	5% 1-2 mm semi angular clasts of mafic volcanic
BBOS124	29/05/2016	439602	5507126	335	near swamp and outcrop; spruce, cedar, birch, cedar	N/A	C Horizon				
BBOS125	30/05/2016	439547	5507235	323	spruce and alder forest on edge of river/swamp; lots of outcrop; possible glacial erratics???	227029	C Horizon	0.3-0.48	white-beige	silt to fine sand	25-30% clasts; <1mm to 4cm in size; pebble and cobble size mostly; angular mafic volcanic rocks
BBOS125	30/05/2016	439547	5507235	323	spruce and alder forest on edge of river/swamp; lots of outcrop; possible glacial erratics???	274536	B Horizon	0.1-0.2	med brown	silt to fine sand	<5% angular to rounded pebbles of mafic volcanic + granitoid; <6mm in size

BBOS126	25/05/2016	439500	5507333	328	Very dense jackpine/balsam forest on cliffside of mafic volc outcrop	227024	C Horizon	0.9-1.05	brown-grey	silt-fine sand	25-30% clasts - pebble size (<4cm) to <1mm; angular; mafic.
BBOS126	25/05/2016	439500	5507333	328	Very dense jackpine/balsam forest on cliffside of mafic volc outcrop	274531	B Horizon	0.25-0.4	med-dark brown-orange	silt-fine sand	20-25% clasts-pebble size (<4cm) to <1mm; angular mafic volcanic
BBOS127	26/05/2016	439452	5507420	343	swampy area on cliff side of mafic volcanic outcrop; mostly spruce trees and little birch.	227025	C Horizon	0.8-1.1	light brown-yellow-tan	fine sand-silt	10% clasts; granule to pebble size; <1mm to 4cm; angular mafic volcanic
BBOS127	26/05/2016	439452	5507420	343	swampy area on cliff side of mafic volcanic outcrop; mostly spruce trees and little birch.	274532	B Horizon	0.28-0.4	med brown	silt-fine sand	5-10% clasts; angular mafic volcanic; granule & pebble size; <2cm
BBOS128	26/05/2016	439416	5507482	330	very flat low ground with spruce & balsam trees.	227026	C Horizon	0.8-1.2	Brown-beige	very coarse sand-gravel	1% clasts (if any); <2mm in size; angular to rounded; mafic volcanic.
BBOS128	26/05/2016	439416	5507482	330	very flat low ground with spruce & balsam trees.	274533	B Horizon	0.15-0.5	rusty orange-brown	very coarse sand	10-15% clasts; granule size (<4mm); angular to round mafic volcanic
BBOS129	02/06/2016	440204	5506504	335	balsam & birch stand; on slope of outcrop.	274589	B Horizon	0.23-0.52	orange/yellow-brown	fine sand	No clasts
BBOS130	02/06/2016	440156	5506592	352	On top of large outcrop ridge; in balsam & alder & birch stand. On weak-mod slope on top of outcrop.	274590	B Horizon	0.25-0.39	brown	sandy-silt	1-2% angular clasts of mafic volc - up to 2cm.
BBOS131	03/06/2016	440106	5506667	355	Swampy ridge with lots of organic material, very wet; not ideal for sampling	274607	B Horizon	0.15-0.22	Med-dark brown	clay with little silt	1% clasts; <1mm-1mm in size; angular mafic volcanic; sorted

BBOS131	03/06/2016	440106	5506667	355	Swampy ridge with lots of organic material, very wet; not ideal for sampling	N/A	C Horizon				
BBOS132	03/06/2016	440041	5506763	365	Top of mound with spruce, jackpine, birch and poplar trees; along cut line	274606	B Horizon	0.15-0.25	Rusty brown-orange	silt	10% clasts; 1-2cm in size; angular mafic volcanic; sorted
BBOS132	03/06/2016	440041	5506763	365		N/A	C Horizon				
BBOS133	03/06/2016	439999	5506854		Cliffside on side of road; cedar, birch and spruce trees	227043	C Horizon	0.50-0.63	Brown-beige	sand with clay and silt	30% clasts; up to 4-5cm in size; angular mafic volcanic and chert clasts; poorly sorted
BBOS133	03/06/2016	439999	5506854		Cliffside on side of road; cedar, birch and spruce trees	274605	B Horizon	0.20-0.35	Rusty brown-orange	silt to clay	<5% clasts; <2-3mm angular mafic volcanic
BBOS134	30/05/2016	439940	5506932	344	On weak-mod slope of outcrop next to cedar swamp & old drill pad. Cedar/jackpine & balsam stand with alder.	274576	B Horizon	0.25-0.4	Brown-orange	Silty w/ fine sand	2-3% granules-pebbles; mafic volc; angular to subangular.
BBOS134	30/05/2016	439940	5506932	344	On weak-mod slope of outcrop next to cedar swamp & old drill pad. Cedar/jackpine & balsam stand with alder.	277062	C Horizon	0.5	Brown-grey	Silty-sand	Subangular clasts of mafic volc (up to 2cm) - 5-7%; predominantly granules.
BBOS135	30/05/2016	439888	5507051	339	Cedar/jackpine swamp next to an outcrop	274574	B Horizon	0.2	Brown	fine sandy-silt	5% subrounded to angular pebbles (up to 2cm; mafic volc).
BBOS135	30/05/2016	439888	5507051	339	Cedar/jackpine swamp next to an outcrop	277061	C Horizon	0.3-0.4	Grey-brown	coarse sandy-silty	25% granules & pebbles; predominantly granules (2mm-2cm) - mafic volc; angular to subangular/subrounded.

BBOS136	29/05/2016	439851	5507079	338	jack pine/alder/birch trees; side of drill road/path; next to outcrop	227057	C Horizon	0.4	med beige-grey	fine sand w/silt and clay	15% semi round-angular (1mm to 3cm) mafic volcanic
BBOS136	29/05/2016	439851	5507079	338	jack pine/alder/birch trees; side of drill road/path; next to outcrop	274565	B Horizon	0.32	med brown-orange	silty sand	>5% clasts (mafic volcanic); 1mm to 1cm; semi angular
BBOS137	29/05/2016	439832	5507221	334	mossy hill side; cedar, spruce, balsam trees; next to old road/drill paths	227056	C Horizon	0.81	med beige-grey	sandy w/silt	15% rounded-semi angular pebbles (2mm-3cm) mafic volcanic
BBOS137	29/05/2016	439833	5507216	335	mossy hill side; cedar, spruce, balsam trees; next to old road/drill paths	274564	B Horizon	0.56	med brown-orange	silty sand	10% clasts (round to angular, mafic volcanic, 1mm-2cm)
BBOS138	23/05/2016	439743	5507304	320	Birch, cedar + spruce trees; on side of mafic volcanic	274525	B Horizon	0.81	Brown-beige	Silt to clay	10% clasts of mafic volcanic; angular; <1mm to 10cm
BBOS138	23/05/2016	439743	5507304	320	Birch, cedar + spruce trees; on side of mafic volcanic	N/A	C Horizon				
BBOS139	25/05/2016	439685	5507379	326	Swamp on cliffside of very tall mafic volcanic outcrop; spruce & cedar trees	274530	B Horizon	0.3	beige-brown	fine sand w/clay	no visible clasts
BBOS139	25/05/2016	439685	5507379	326	Swamp on cliffside of very tall mafic volcanic outcrop; spruce & cedar trees	N/A	C Horizon				
BBOS140	25/05/2016	439663	5507459	334	Downslope mafic volcanic outcrop; near spruce trees.	227023	C Horizon	0.59-0.7		fine sand w/silt-clay	25-30% clasts; pebble to cobble size (<6cm); mostly angular and mafic; few rounded and felsic.

BBOS140	25/05/2016	439663	5507459	334	Downslope mafic volcanic outcrop; near spruce trees.	274529	B Horizon	0.3-0.4	dark brown-red	silt-fine sand	20% clats; <1mm-3cm; mostly angular mafic volcanic; very few rounded felsic.
BBOS141	25/05/2016	439591	5507537	321	High ground; gentle slope; near balsam/spruce/birch trees.	227022	C Horizon	1.06	grey-beige-tan	sand-gravel	5-10% clasts; granule to pebble sized (<6-7mm); mostly rounded (felsic) but few angular and mafic.
BBOS141	25/05/2016	439591	5507537	321	High ground; gentle slope; near balsam/spruce/birch trees.	274528	B Horizon	0.3	brown-orange	fine sand	25-30% clasts; granule size (<4mm); rounded to angular; mafic & felsic; look local and distant
BBOS142	25/05/2016	439558	5507623	322	Gently sloping area spruce/poplar/balsam trees; could be an esker	227021	C Horizon	1.2	grey-beige	sandy w/ clay	5% cobbles and pebbles; angular to rounded; <1mm-4cm
BBOS142	25/05/2016	439558	5507623	322	Gently sloping area spruce/poplar/balsam trees; could be an esker	274527	B Horizon	0.35	brown-orange	fine sand	5% granules and cobbles; angular to rounded and of felsic and mafic origin.
BBOS143	02/06/2016	440415	5506565	335	lakeside; spruce & balsam stand (mature); sandy shore; some young poplar. On weak slope between large outcrops - slope goes down towards the lake.	227063 – LOST SAMPLE NO ASSAY	C Horizon	0.9-1.07	grey with brown	sandy (coarse)	30-40% granules & pebbles; predominantly granules of mafic volc (angular to subangular). Pebbles of mafic volc (subrounded; 1-2cm) and pebbles of granite (rounded; 1-2cm; minor amount).

BBOS143	02/06/2016	440414	5506564	337	lakeside; spruce & balsam stand (mature); sandy shore; some young poplar. On weak slope between large outcrops - slope goes down towards the lake.	274588	B Horizon	0.3-0.44	brown-orange	sandy	<1% subangular mafic volc pebbles (2.5cm)
BBOS144	02/06/2016	440356	5506652	343	maple stand w/ balsam & aspen in valley on south side of giant outcrop ridge; on a slight slope.	274587	B Horizon	0.25-0.4	orange/red-brown	sandy	No clasts
BBOS145	02/06/2016	440298	5506724	369	Birch & spruce stand on flat (to wk slope) area of an outcrop near swamp.	274586	B Horizon	0.4-0.54	brown	fine sand	1% pebbles; mafic volc; subrounded to angular; up to 2-3cm.
BBOS146	02/06/2016	440258	5506813	363	Birch & maple & balsam/spruce stand on wk-mod slope of large outcrop; in low area, next to cedar swamp.	274585	B Horizon	0.33	brown	fine sand	<1% pebbles; angular; up to 1cm; mafic volcanic.
BBOS147	02/06/2016	440205	5506908	367	Mod slope on edge of outcrop; right next to old road	274591	B Horizon	0.3-0.48	brown-orange	silty	2% angular mafic volc clasts; up to 2cm (3mm-2cm)
BBOS148	21/05/2016	440155	5506976	351	Near mafic volcanic outcrop and cedar swamp	274517	B Horizon	0.29	Rusty orange-red	Silt to sand	2% clasts of mafic volcanic; <1mm
BBOS148	21/05/2016	440155	5506976	351	Near mafic volcanic outcrop and cedar swamp	N/A					
BBOS149	21/05/2016	440105	5507082	340	Wooded area near swamp; poplar, birch, balsam, cedar trees	274516	B Horizon	0.38	Brown with slight orange	Silt	No visible clasts
BBOS149	21/05/2016	440105	5507082	340	Wooded area near swamp; poplar, birch, balsam, cedar trees	N/A	C Horizon				
BBOS150	21/05/2016	440051	5507158	336	Mossy area on edge of swamp and outcrop; abundant cedar and spruce trees	227012	C Horizon	0.65	Olive grey	Sand	30% angular clasts of mafic volcanic; <1mm to 10cm

BBOS150	21/05/2016	440051	5507158	336	Mossy area on edge of swamp and outcrop; abundant cedar and spruce trees	274515	B Horizon	0.45	Medium brown	Sand to silt	5% clasts of mafic volcanic; <1mm in size
BBOS151	21/05/2016	440008	5507226	330	Low ground near cedar trees on side of road; lots of outcrop nearby	274514	B Horizon	0.45	Brown	Sand to silt	<1% rock fragments of mafic volcanic
BBOS151	21/05/2016	440008	5507226	330	Low ground near cedar trees on side of road; lots of outcrop nearby	N/A	C Horizon				
BBOS152	21/05/2016	439922	5507376	323	Swampy area on perimeter of outcrop; spruce trees with mounds of material (eskers?)	227011	C Horizon	0.85	Greyish tan	Silt to clay	No visible clasts
BBOS152	21/05/2016	439922	5507376	323	Swampy area on perimeter of outcrop; spruce trees with mounds of material (eskers?)	274513	B Horizon	0.33	Tan brown colour	Silt	No visible clasts
BBOS153	23/05/2016	439897	5507452	319	Forested area w/spruce, birch, alder near edge of swamp	227020	C Horizon	0.79	Grey-beige	Sand	25% up to boulder sized clasts of mafic to felsic; angular to rounded
BBOS153	23/05/2016	439897	5507452	319	Forested area w/spruce, birch, alder near edge of swamp	274526	B Horizon	0.36	Brown-orange	Silt to sand	<5% <1mm clasts of mafic volcanic; angular
BBOS154	23/05/2016	439851	5507510	327	Alder, spruce, balsam forest near dugout pit	227019	C Horizon	1.11	Grey-beige	Sand	25-30% clasts; <1mm to 2mm; mafic to felsic; angular to rounded
BBOS154	23/05/2016	439851	5507510	327	Alder, spruce, balsam forest near dugout pit	274524	B Horizon	0.34	Orange-brown	Silt to sand	5-10% angular clasts of mafic volcanic; <1mm to 2mm
BBOS155	23/05/2016	439798	5507591	331	Jackpine, spruce forest	227018	C Horizon	0.91	Grey-beige	Sand	25-30% clasts of mafic volcanic, felsic rocks; angular to rounded

BBOS155	23/05/2016	439798	5507591	331	Jackpine, spruce forest	274523	B Horizon	0.36	Orange-brown	Silt to sand	5-10% clasts of mafic volcanic; angular; <1mm to 1mm in size
BBOS156	23/05/2016	439761	5507677	329	Jackpine forest on slope of outcrop	227017	C Horizon	0.67	Grey-beige	Sand	25% clasts of fine-grained sediment (shale); angular to rounded; <1mm to 15cm
BBOS156	23/05/2016	439761	5507677	329	Jackpine forest on slope of outcrop	274522	B Horizon	0.4	Orange-brown	Silt to sand	5-10% clasts of fine-grained sediment (shale); angular; <1mm to 5mm
BBOS157	02/06/2016	440542	5506707	347	Balsam & spruce stand on edge of outcrop ridge; slight slope.	274584	B Horizon	0.2-0.3	Orange-brown	silty-fine sand	1% angular mafic volc pebbles up to 2.5cm.
BBOS158	02/06/2016	440500	5506800	372	Birch/balsam/spruce stand on outcrop	274583	B Horizon	0.3-0.44	Brown-brown orange	silty fine sand	1% angular mafic volc pebbles up to 2-3cm.
BBOS159	02/06/2016	440452	5506861	368	Balsam and spruce stand with birch; in low 'valley' between two elongated outcrops (or mounds)	274582	B Horizon	0.35	Brown-orange	fine sandy-silt	1% pebbles up to 2cm; subangular; mafic volc.
BBOS160	27/05/2016	440406	5506967	368	Birch & balsam stand on a very large hill (outcrop). Sample taken on a slight slope of this hill.	227055	C Horizon	0.52	brown-tan	silty-sandy with clay	30% clasts predominantly granules (2-4mm) w/ 1-5% pebbles (1-2cm); all are mafic and subangular to subrounded
BBOS160	27/05/2016	440402	5506971	367	Birch & balsam stand on a very large hill (outcrop). Sample taken on a slight slope of this hill.	274563	B Horizon	0.3-0.37	Orange-brown	silty	
BBOS161	27/05/2016	440340	5507046	351	Balsam/spruce stand next to swamp and inbetween outcrops. Sample location on slope of outcrop.	274562	B Horizon	0.3	Orange-brown	silty to silty-sand	

BBOS161	27/05/2016	440340	5507046	351	Balsam/spruce stand next to swamp and inbetween outcrops. Sample location on slope of outcrop.	N/A	C Horizon	0.65	tan-brown	silty	mafic pebbles (1%; up to 2cm; subangular) and minor granules (1%)
BBOS162	27/05/2016	440281	5507141	350	On slope of outcrop in birch/balsam/spruce stand	274561	B Horizon	0.3	Orange-brown	silty-sandy	some angular mafic clasts
BBOS163	27/05/2016	440271	5507248	348	Cedar/balsam stand; next to o/c and old drill pad	227054	C Horizon	0.95	Brown-grey	sandy	20% pebbles and granules; predominantly granules; both mafic; subangular to subrounded and up to 2cm.
BBOS163	27/05/2016	440271	5507248	348	Cedar/balsam stand; next to o/c and old drill pad	274560	B Horizon	0.29	brown-tan	silty	coarse sand (mafic; 1mm)
BBOS164	18/05/2016	440187	5507304	343	Cedar swamp; near outcrop (gabbro).	274506	B Horizon	0.6	brownish grey-orange	sandy-silty	few cobbles of granite (very round) and angular fragments of mafic volcanics.
BBOS164	18/05/2016	440187	5507304	343	Cedar swamp; near outcrop.	N/A					
BBOS165	18/05/2016	440124	5507405	341	Cedar swamp; on edge of outcrop or mound (glacial deposit?)	227004	C Horizon	0.9	grey-orange	sandy-silty	med-coarse grained sand w/ silt & clay & mafic pebbles (subrounded-subangular) up to 3cm.
BBOS165	18/05/2016	440124	5507405	341	Cedar swamp; on edge of outcrop or mound (glacial deposit?)	274505	B Horizon	0.4	orange	sandy	angular fragments of mafic volcanic
BBOS166	18/05/2016	440071	5507472	333	Cedar swamp near road	227003	C Horizon	0.8	grey	silt to sand	no pebbles found, but angular rock fragments in organix layer were mafic volcanic.

BBOS166	18/05/2016	440075	5507460	326	Cedar swamp near road	274504	B Horizon	0.6	orange-brown	sandy	
BBOS167	18/05/2016	440049	5507534	324	Cedar and spruce swamp	N/A					
BBOS168	18/05/2016	439969	5507638	326	Spruce and cedar; behind BB camp near small stream	227002	C Horizon	0.6	grey	sandy	no pebbles or cobbles seen
BBOS168	18/05/2016	439969	5507638	326	Spruce and cedar; behind BB camp near small stream	274503	B Horizon	0.3	brown	sandy	
BBOS169	22/05/2016	439933	5507739	326	Mossy, forested area; spruce + poplar trees	227015	C Horizon	0.75	Grey-beige	Sand to gravel	30% clasts; pebbles + cobbles; <1mm to 10cm; angular; mafic volcanic
BBOS169	22/05/2016	439933	5507739	326	Mossy, forested area; spruce + poplar trees	274520	B Horizon	0.46	Grey-brown	Silt to sand	5% clasts of angular mafic volcanic
BBOS170	22/05/2016	439907	5507822	320	Sloped area near edge of winding river/swamp area; spruce + birch trees	227016	C Horizon	0.75	Grey-beige	Sand to gravel	25% clasts; pebble to cobble size; angular; mafic volcanic + felsic rocks
BBOS170	22/05/2016	439907	5507822	320	Sloped area near edge of winding river/swamp area; spruce + birch trees	274521	B Horizon	0.37	Brown-orange	Sand	5-10% clasts of mafic volcanic; angular; <1mm to 1mm in size
BBOS171	26/05/2016	440749	5506755	353	Birch/poplar stand with balsam.	274559	B Horizon	0.45	Orange	silty	
BBOS172	26/05/2016	440681	5506851	367	Birch/poplar stand with balsam; in a low area/valley between two long outcrops ridges	274558	B Horizon	0.35-0.5	tan-brown	silty-clay	
BBOS172	26/05/2016	440681	5506851	367	Birch/poplar stand with balsam; in a low area/valley between two long outcrops ridges	N/A	C Horizon	0.55-1	Grey-tan	silty to sandy	small granules of mafic volc w/ one pebble (rounded; mafic; 1cm)

BBOS173	26/05/2016	440639	5506895	373	Sloped area on southern end of large & steep outcrop (large ridge - fault scarp?); poplar & mapled stand with spruce.	274557	B Horizon	0.45	Brown-orange	silty	
BBOS173	26/05/2016	440645	5506879	366	poplar & mapled stand with spruce.	N/A	C Horizon	0.7	tan	silty	small angular granules near bottom when we hit bedrock - not till
BBOS174	26/05/2016	440624	5507033	374	Maple/birch stand with spruce&cedar. On sloped area near large outcrop	274556	B Horizon	0.35-0.59	Brown to brown-orange	silty	1-3% angular mafic volc fragments up to 2cm long; but mostly granules.
BBOS175	26/05/2016	440536	5507112	363	Balsam/spruce stand with maples; near old road and mounds (poss outcrops)	274555	B Horizon	0.35	brown-red	silty	15% angular fragments of mafic volc up to 2cm long
BBOS176	25/05/2016	440500	5507186	368	Spruce/balsam mixed forest; in between outcrop (poss dirt mounds); some birch too.	274554	B Horizon	0.25	brown-orange	silty	
BBOS177	25/05/2016	440455	5507286	356	Low area between outcrop and dirt mound (or small outcrop or knob). Balsam & spruce stand with cedars near by.	227053	C Horizon	0.6-0.8	grey-brown	silty-clay with sand	25% angular granules of mafic volc (2-4mm) w/ minor angular pebbles 95%; mafic volc; up to 3cm)
BBOS177	25/05/2016	440457	5507290	354	Cedar & balsam stand with minor birch	274553	B Horizon	0.45	Light brown	silty	
BBOS178	25/05/2016	440413	5507369	346	Mixed stand of balsam/birch & cedar. Area covered with moss; on a slight slope near an outcrop (or mound)	227052	C Horizon	0.94	Brown-grey	silty-sand	10% small granules (2-4mm; mafic volc; angular) with minor (1%) subrounded mafic pebbles (up to 2cm).

BBOS178	25/05/2016	440409	5507370	342	Mixed stand of balsam/birch & cedar. Area covered with moss; on a slight slope near an outcrop (or mound)	274552	B Horizon	0.5	Brown to brown-orange	silty-sand	minor mafic pebbles (1% & 1cm big)
BBOS179	18/05/2016	440355	5507484	335	Cut line in cedar swamp	274502	B Horizon	0.3	Brown-orange with some grey	sandy	local angular pebbles of mafic volcanics (5%)
BBOS179	18/05/2016	440355	5507484	335	Cut line in cedar swamp	N/A					
BBOS180	18/05/2016	440295	5507537	319	Cedar swamp	N/A					
BBOS181	18/05/2016	440240	5507636	337	Forested area near a cedar swamp	227001	C Horizon	0.45	Grey-olive	sandy to silty	small pebbles of mafic volcanics (1-2%)
BBOS181	18/05/2016	440240	5507636	337	Forested area near a cedar swamp	274501	B Horizon	0.25	Brown-orange	sandy to silt	2 cobbles; one was mafic volc (10cm; subrounded) and the other was granitic (20ish cm; subrounded to rounded)
BBOS182	25/05/2016	440207	5507687	332	Balsam/spruce stand. Sample location is in a 'valley' or low point between two outcrops (or glacial mounds)	227051	C Horizon	0.75	Grey-brown	silty-sand	5-10% pebbles & granules with predominantly granules (mafic volcanic); pebbles are up to 2cm and are mostly subrounded (& mafic volc). Granules are angular to subangular.
BBOS182	25/05/2016	440201	5507718	331	Balsam fir/spruce and birch stand; covered in moss and on slope (side of overburden mound or outcrop)	274551	B Horizon	0.4	Brown-grey	sandy-silty	angular fragments of mafic volcanic - tabular & 1-5mm.
BBOS184	22/05/2016	440149	5507803	326	Wooded area near swamp; spruce and birch trees	227013	C Horizon	0.9	Grey-tan	Sand to gravel	50% clasts; <1mm to 3mm in size; mafic +

											felsic origin; rounded to angular
BBOS184	22/05/2016	440149	5507803	326	Wooded area near swamp; spruce and birch trees	274518	B Horizon	0.48	Orange-brown	Sand	25% cobbles of mafic+felsic origin; rounded; <1mm to 1mm
BBOS185	22/05/2016	440099	5507881	325	Wooded area on edge of swamp; spruce and birch trees	227014	C Horizon	0.82	Grey-beige	Sand to gravel	35-40% clasts of k-spar + felsic rocks; <1mm to 6cm in size; angular
BBOS185	22/05/2016	440099	5507881	325	Wooded area on edge of swamp; spruce and birch trees	274519	B Horizon	0.38	Brown-grey	Sand to silt	10-15% clasts of mafic volcanic + felsic rocks/quartz; <1mm to 2mm in size; angular
BBOS185-1	30/05/2016	440890	5506916	358	Maple/birch & balsam stand; on flat area on south side of large outcrop/ridge. Flat area of ledge on o/c - there is another drop off more south.	274573	B Horizon	0.3-0.5	Orange-yellow brownish	fine sandy-silt	no clasts
BBOS186	30/05/2016	440856	5506998	373	Birch & balsam stand with some maple. On a slight slope of south side of a big outcrop	274572	B Horizon	0.3	Brown-tan	Silty-clayey	<1% mafic volcanic granules; angular.
BBOS187	30/05/2016	440796	5507085	366	Birch & spruce stand with some balsam; on slope of a large outcrop	274571	B Horizon	0.6-0.8	Brown-orange	silty-fine sand	<1% granules (<1mm) of mafic volc
BBOS188	30/05/2016	440751	5507150	365	Balsam/spruce stand with birch on sloped part of an outcrop	274570	B Horizon	0.4	Brown-orange	Sandy-fine sand	1% mafic volc granules with a few pebbles up to 7-8mm.

BBOS189	30/05/2016	440706	5507225	362	weak slope in area/valley between two outcrops (or glacial mound) in birch/poplar stand with spruce & balsam.	227060	C Horizon	0.6	Tan	sandy-silt	10-15% angular-subangular granules & pebbles of mafic volc (up to 2cm). 1% subrounded pebbles (1cm; granitic)
BBOS189	30/05/2016	440708	5507242	361	weak slope in area/valley between two outcrops (or glacial mound) in birch/poplar stand with spruce & balsam.	274569	B Horizon	0.35	Brown-orange	silty with fine sand	no clasts
BBOS190	20/05/2016	440635	5507303	356	Edge of cliffside of outcrop; surrounded by cedar and birch trees	227010	C Horizon	0.65	Grey-brown	Sand	40% mafic volcanic clasts up to 10cm in size
BBOS190	20/05/2016	440635	5507303	356	Edge of cliffside of outcrop; surrounded by cedar and birch trees	274512	B Horizon	0.25	Medium brown	Silt to clay	1% mafic cobbles <1mm in size
BBOS191	20/05/2016	440600	5507416	339	High ground on border of outcrop; near cedar swamp	227009	C Horizon	0.65	Brown-grey	Sand	Pebbles and cobbles; pebbles up to 18cm in diameter;
BBOS191	20/05/2016	440600	5507416	339	High ground on border of outcrop; near cedar swamp	274511	B Horizon	0.4	Rusty orange-brown	Silt	<1% mafic cobbles; <1mm
BBOS192	20/05/2016	440556	5507501	341	High ground on border of outcrop; spruce trees	227008	C Horizon	0.8	Brown-grey	Sand w/slight silt	25% 1-2mm clasts of mafic, felsic rocks and quartz
BBOS192	20/05/2016	440556	5507501	341	High ground on border of outcrop; spruce trees	274510	B Horizon	0.3	Brown-orange	Silt to sand	10-15% <1mm clasts of mafic + felsic rocks
BBOS193	20/05/2016	440501	5507574		Cedar swamp	N/A					
BBOS194	19/05/2016	440444	5507680		Cedar swamp	N/A					

BBOS195	19/05/2016	440401	5507756	332	Low ground with abundant spruce trees	227007	C Horizon	0.75	Medium grey with slight brown	Sand	15% pebbles of mafic volcanic and felsic rocks; 1mm in size
BBOS195	19/05/2016	440401	5507756	332	Low ground with abundant spruce trees	274509	B Horizon	0.34	Brown-orange	Silt sand	15% <1mm clasts of mafic-felsic rocks; angular to rounded
BBOS196	19/05/2016	440336	5507872	334	Roadside	227005	C Horizon	0.7	Grey-brown	Sand to silt	5-10% mafic volcanic clasts
BBOS196	19/05/2016	440336	5507872	334	Roadside	274507	B Horizon	0.4	Rusty orange-brown	Silt to sand	5% mafic volcanic clasts
BBOS197	19/05/2016	440297	5507932	327	Moss patch near swamp	227006	C Horizon	0.9	Grey-brown	Sand to gravel	pebbles of mafic volcanic
BBOS197	19/05/2016	440297	5507932	327	Moss patch near swamp	274508	B Horizon	0.5	Rusty orange-brown	Silt to sand	15% 1-2mm pebbles of mafic volcanic
BBOS56	08/06/2016	438908	5506335	329	Wet area, cedar and balsam	227049	C Horizon	0.79-1.06	Light grey-beige	silty sand	No significant clasts
BBOS56	08/06/2016	438908	5506335	329	Wet area, cedar and balsam	274626	B Horizon	0.12-0.79	Med brown-orange	silty fine sand	No significant clasts
BBOS57	08/06/2016	438863	5506422	342	Birch, cedar, spruce, balsam	274627	B Horizon	0.16-0.62	Med-light brown-orange	silty sand	5% subangular mafic clasts (2mm-2cm)
BBOS58	08/06/2016	438813	5506506	347	Hillside, spruce, birch, alder	274628	B Horizon	0.23-0.51	Med-dark red-brown	silty sand	10% subangular mafic clasts (2mm-1cm)
BBOS59	08/06/2016	438765	5506590	338	Top of bedrock, mossy with spruce and balsam	274629	B Horizon	0.09-0.51	Med brown-orange grading to lighter brown-beige	silty sand	5% subangular mafic clasts (1-2mm)
BBOS60	08/06/2016	438705	5506683	353	Side of steep hill/rock. Birch, spruce, balsam	274630	B Horizon	0.14-0.48	Med-dark brown-orange	silty sand	No significant clasts

BBOS61	10/06/2016	438662	5506767	370	Top of cliff, birch, balsam	274639	B Horizon	0.09-0.32	Med brown-orange	silty sand	10% mafic clasts. Subrounded 1mm-2cm
BBOS62	10/06/2016	438612	5506853	357	Hillside, cedar, birch, balsam spruce	274640	B Horizon	0.12-0.28	Med brown-orange	silty sand	20% mafic clasts. Subangular 2mm-2cm
BBOS63	10/06/2016	438565	5506938	342	Birch, balsam	274641	B Horizon	0.08-0.32	Med brown-orange	silty sand	NO clasts
BBOS64	10/06/2016	438511	5507026	334	Shallow slope near lake. Birch, balsam, spruce	274642	B Horizon	0.12-0.82	Med-ight brown-orange	silty sand	No clasts
BBOS65	09/06/2016	439309	5506046	333	Cedar, balsam, birch	227065	C Horizon	0.60-1.12	Med beige-grey	fine sand	No clasts
BBOS65	09/06/2016	439309	5506046	333	Cedar, balsam, birch	274633	B Horizon	0.16-0.57	Med brown-orange	silty sand	1% 1-2mm dark clasts
BBOS66	09/06/2016	439261	5506131	338	Cedar w/ balsam	227064	C Horizon	0.63-0.96	Med-dark brown-grey	sand	25-30% semi round pebbles/cobbles 1mm to 3cm various litho
BBOS66	09/06/2016	439261	5506131	338	Cedar w/ balsam	274632	B Horizon	0.09-0.54	Med brown-orange	silty sand	15% semi round mafic clasts 1mm- 4cm
BBOS67	09/06/2016	439223	5506212	338	Cedar swamp w/ balsam	227050	C Horizon	1.02-1.18	Med beige-brown	Sand	30% various litho clasts 1mm to 4-5cm
BBOS67	09/06/2016	439213	5506219	336	Cedar swamp w/ balsam	274631	B Horizon	0.13-0.51	Med brown-orange	silty sand	10% subangular to subrounded mafic clasts 1mm-2cm
BBOS69	08/06/2016	439112	5506387	332	Cedar swamp with balsam and spruce	274625	B Horizon	0.29	Med brown-orange	silty sand	10% subangular mafic and sedimentary clasts (1mm-2cm)

BBOS70	08/06/2016	439061	5506478	336	Cedar swamp with balsam	274624	B Horizon	0.47	Med-dark brown-orange w/ sparse light grey-brown 3cm patches	silty sand	5% sub angular mafic clasts (1mm-1cm)
BBOS71	08/06/2016	439012	5506563	338	Cedar swamp	274623	B Horizon	0.96	Light grey-beige	fine silt/clay	No clasts
BBOS72	08/06/2016	438947	5506643	349	Bedrock area, spruce, birch, alder forest	274622	B Horizon	0.31	Med brown-red	silty sand	5% sub angular mafic clasts (1mm-1.5cm)
BBOS73	08/06/2016	438910	5506737	345	Birch,spruce, alder, balsam forest	274621	B Horizon	0.31	Med brown-orange	fine silty sand	No significant clastic material
BBOS74	08/06/2016	438858	5506822	342	Bedrock area, wet with birc, spruce, alder	274620	B Horizon	0.22	Med-dark brown-red	silty sand	10% semi angular mafic clasts (1mm-2cm)
BBOS75	09/06/2016	439508	5506102	339	Cedar, balsam, birch @ bottom of outcrop	274634	B Horizon	0.11-0.51	Med brown-orange	silty sand	No clasts
BBOS76	09/06/2016	439450	5506170	332	Cedar and birch at base of hill	274635	B Horizon	0.15-0.85	Med brown-orange w/ pockets of med grey-beige	silty sand	No clasts
BBOS78	07/06/2016	439356	5506365	341	Mossy area, Spruce, cedar	274619	B Horizon	0.51	Med brown-orange	silty sand	10% 1mm-1cm semi angular mafic clasts
BBOS79	07/06/2016	439307	5506447	343	Swampy, cedar, birch, swampy	274618	B Horizon	0.52	Med brown-orange	silty sand	1-2% 1-2mm semi angular mafic clasts
BBOS80	07/06/2016	439260	5506531	345	Mossy wet bush, cedar, spruce, birch, balsam	274617	B Horizon	0.42	Med-light brown-orange	fine sand to silty sand	No significant clasts
BBOS81	07/06/2016	439207	5506619	350	Cedar and balsam swamp	274616	B Horizon	0.31	Med brown-orange	silty sand	10% 1mm to 1cm semi angular mafic clasts

BBOS82	07/06/2016	439160	5506708	349	Hillside. Mossy ground with birch, balsam, and spruce	227048	C Horizon	1.16	Light beige	fine sand	1% 1mm mafic clasts
BBOS82	07/06/2016	439160	5506708	349	Hillside. Mossy ground with birch, balsam, and spruce	274615	B Horizon	0.29	Med-light brown-orange	silty sand	5% >1mm-1mm mafic grains
BBOS83	07/06/2016	439110	5506795	344	Mossy ground. Balsam and spruce forest	227047	C Horizon	1.07	Med-light beige	silty fine sand	1-2% semi rounded mafic clasts (1-2mm)
BBOS83	07/06/2016	439110	5506795	344	Mossy ground. Balsam and spruce forest	274614	B Horizon	0.4	Med-light brown-orange	silty sand	No significant clasts
BBOS84	07/06/2016	439056	5506879	338							
BBOS85	07/06/2016	439004	5506961	333	Hillside. Spruce, cedar, alder forest	227046	C Horizon	1	Med beige	silt/clay	5% fine clasts (1-2mm)
BBOS85	07/06/2016	439010	5506962	332	Hillside. Spruce, cedar, alder forest	274613	B Horizon	0.12-0.30	Med brown-orange	silty sand	2-3% subangular mafic clasts (1mm-1.5cm)
BBOS86	09/06/2016	439709	5506168	340	Swamy between bedrock. Cedar and balsam	274636	B Horizon	0.17-0.90	Med-light brown-beige	silty sand	No clasts
BBOS87	09/06/2016	439659	5506245	336	Shallow hillside near bedrock. Cedar and spruce	274637	B Horizon	0.14-0.72	Med-dark brown-red	silty sand	1% 1-2mm mafic clasts
BBOS88	09/06/2016	439559	5506410	342	Wet area, cedar, spruce, birch	274638	B Horizon	0.27-0.80	Med beige	silty sand	1% 1-2mm subangular mafic clasts

Patter Lake Survey

Site #	Date	UTM East	UTM North	Elev	Sample Site Type	Sample #	Horizon Type	Depth (m)	Colour	Texture	Clast Comments
BBS200	09-Jul-16	437594	5506658	352	Mossy ground. Spruce, birch and balsam	274451	B Horizon	0.06-0.18	Med to dark brown-orange	Silty sand	5% angular 1mm to 1cm mafic clasts
BBS201	09-Jul-16	437516	5506823	328	Mossy hillside at edge of lake. Cedar and balsam trees	274452	B Horizon	0.09-0.38	Dark brown-red	Silty sand	10% angular mafic clasts. 2mm to 1.5cm
BBS202	11-Jul-16	437226	5506790	329	Hillside/ cliff at lake. Cedar and spruce	274459	B Horizon	0.04-0.37	Med brown	Silty soil	50% angular clasts, appear to be from bedrock directly below
BBS203	10-Jul-16	437363	5506621	358	Mossy ground. Cedar and spruce trees	274458	B Horizon	0.08-0.56	Med brown-orange	Silty sand	No visible clasts
BBS203	10-Jul-16	437363	5506621	358	Mossy ground. Cedar and spruce trees	275003	C Horizon	0.56-0.78	Light beige	Silty sand	10-15% semi angular to semi round various litho clasts. 2mm to 1.5cm
BBS204	10-Jul-16	437446	5506454	341	Approaching high ground north of cedar swamp. Cedar, spruce and balsam trees	274457	B Horizon	0.06-0.57	Med brown-orange	silty sand	15% semi angular to semi round various litho clasts. 2mm to 1.5cm
BBS205	10-Jul-16	437559	5506285	328	Plateau on hillside just south of cedar swamp. Spruce, cedar and birch trees	274456	B Horizon	0.08-0.44	Med brown-orange	silty sand	30% semi angular clasts and some rusty quartz fragments. 1mm to 1cm
BBS206	10-Jul-16	437658	5506083	330	Cedar swamp. ~35m south of actual spot	274455	B Horizon	0.09-0.38	Med brown-red	Silty sand	20% angular mafic clasts. 2mm to 2cm
BBS207	10-Jul-16	437752	5505963	341	Valley/fault zone. Cedar, balsam, and birch	274454	B Horizon	0.08-0.43	Med-dark brown	Packed silt/clay	5% angular mafic clasts. 2mm to 2cm
BBS207	10-Jul-16	437752	5505963	341	Valley/fault zone. Cedar, balsam, and birch	275002	C Horizon	0.43-0.62	Med brown-beige w/ some rusty sections	Silty gravel	25% semi rounded to semi angular various litho clasts. 2mm-1.5cm
BBS208	10-Jul-16	437864	5505759		Hillside near Windigokan Lake. Spruce and balsam trees	274453	B Horizon	0.07-0.16	Med brown-orange	Sand/gravel	40% rounded various lito clasts. 1-5mm
BBS208	10-Jul-16	437864	5505759		Hillside near Windigokan Lake. Spruce and balsam trees	275001	C Horizon	0.16-0.54	Med brown-grey	Gravel-sand with silt content	30% rounded various litho clasts
BBS209	19-Jul-16	437386	5505794	344	Spruce stand with cedar and maple in low area between outcrop ridges	274470	B Horizon	0.32	Brown-brown orange	Sandy silt	5% clasts of small fragments (up to 3mm) with minor pebbles (subrounded to subangular, 2cm in size)

BBS210	19-Jul-16	437300	5505977	340	Black spruce stand, on edge of small lake and marsh	274469	B Horizon	0.35-0.4	Orange	Clayey silt	20% angular fragments of mafic outcrop ("poker chips")
BBS211	19-Jul-16	437238	5506040	353	Balsam/spruce stand; birch on top of outcrop on minor slope	274468	B Horizon	0.3	Brown	Sandy	5% angular clasts of mafic rock
BBS212	19-Jul-16	437114	5506242	346	Birch and spruce stand on top of outcrop/ridge. B Horizon taken in low area on top of ridge.	274466	B Horizon	0.31	Brown-orange	Silty	No clasts
BBS213	11-Jul-16	437013	5506445	348		274462	B Horizon	0.42-1.20	Light beige	Silty sand	No visible clasts
BBS214	11-Jul-16	436921	5506612	353	Hillside. Cedar, birch and spruce	274461	B Horizon	0.07-0.19	Dark brown-red	Silty soil	20% angular mafic clasts. 2mm to 2cm
BBS215	11-Jul-16	436823	5506765	344	Fault zone. Cedar swamp	274460	B Horizon	0.09-0.50	Med brown	silty sand	35% angular clasts that appear to be from nearby outcrop. 2mm to 2cm
BBS215	11-Jul-16	436823	5506765	344	Fault zone. Cedar swamp	275004	C Horizon	0.55-0.89	Med brown-beige grading to light beige	silty sand with clay content	10% semi angular various litho clasts. 2mm to 1.5cm
BBS216	12-Jul-16	436416	5506665	345	Spruce and birch forest on side of outcrop; flat and somewhat swampy	274465	B Horizon	0.40-0.73	Med brown	Fine sand	5-10% clasts; rounded granitoid and angular mafic clasts; <2cm in size
BBS216	12-Jul-16	436394	5506662	345	Spruce and birch forest on side of outcrop; flat and somewhat swampy	275006	C Horizon	0.80-1.05	Med beige-yellow	Fine sand to silt	5-10% clasts; rounded granitoid/qtz and angular to subangular mafic volcanic. <3cm in size(pebble size)
BBS217	12-Jul-16	436477	5506576		Cedar and spruce. Ridge on side of cliff	274464	B Horizon	0.18-0.50	Med beige-brown	Silt to fine sand	<10% clasts. Angular to subangular mafic volcanic; <3cm in size
BBS217	12-Jul-16	436477	5506576		Cedar and spruce. Ridge on side of cliff	275005	C Horizon	0.60-0.95	Light beige	Fine sand w/ clay and silt	5-10% clasts; angular to subrounded mafic volcanic; <2mm in size. Sorted
BBS218	11-Jul-16	436559	5506412	361	Mossy ground with spruce and cedar	274463	B Horizon	0.07-0.22	Med brown to orange	silty soil	5% 1-5mm angular mafic clasts
BBS219	23-Jul-16	436713	5506225	339	Cedar and spruce area near swamp on weak-mod slope of outcrop	274476	B Horizon	0.28	Brown	Sandy clay	25% rock fragments, majority pebbles 1-2cm; appears mafic (covered in

											clay, dirt); flat and tabular in shape; angular to subangular
BBS220	23-Jul-16	436761	5506038	343	Spruce and balsam stand between low swampy area and outcrop mound (or glacial); weak slope	274475	B Horizon	0.4	Brown	Clayey silt	10% rock fragments (mafic; 2-4mm; angular and flat)
BBS220	23-Jul-16	436762	5506036	346	Spruce and balsam stand between low swampy area and outcrop mound (or glacial); weak slope	275008	C Horizon	0.5	Brown-grey	Silty-sand	30% fragments, mostly small fragments (2-4mm) with pebbles (1 to 3cm; mafic volcanic; flat "poker chip" like)
BBS221	23-Jul-16	436848	5505869	335	Spruce and cedar with some birch. Weak slope/low area after mound. Close to river/swamp area.	274473	B Horizon	0.30-0.40	Brown	Sandy with silt	30-40% felsic clasts up to 1.5 cm (flat "poker chips")
BBS221	23-Jul-16	436842	5505875	335	Spruce and cedar with some birch. Weak slope/low area after mound. Close to river/swamp area.	275007	C Horizon	0.35	Brown-grey	Clayey silt	20% clasts, mostly fragments (1-4mm, mafic); subangular to subrounded and flat. Some pebbles up to 2cm (sub rounded t subangular, some are rusted). Some minor granitic pebbles (possibly covered in clay, couldn't tell)
BBS222	23-Jul-16	437159	5505748	336	Cedar area next to outcrop	275009	C Horizon	0.79	Grey to grey-brown	Silty sand	20% rock clasts predominantly granules with mafic volcanic pebbles up to 3cm (subangular to rounded)
BBS222	23-Jul-16	437158	5505739	340	Cedar area next on weak slope of outcrop	274477	B Horizon	0.48	Brown	Sandy to fine sandy	10% fragments predominantly pebbles (2cm; mafic) with some granules
BBS223	25-Jul-16	436410	5505957	339	Cliffside/hill to the north of swamp. Cedar and spruce	274478	B Horizon	0.09-0.23	Med-light beige	Fine silty sand w/ some clay content	No visible clasts
BBS224	25-Jul-16	436317	5505994	361	Hillside, Spruce, balsam, alder and birch	274479	B Horizon	0.08-0.37	Light brown-orange	silty sand	20% angularlight green chl alt'd clasts. 2mm to 2cm
BBS225	25-Jul-16	436231	5506175	336	Hillside south of cedar swamp. Spruce and birch	274480	B Horizon	0.07-0.40	Med-light brown-orange	Packed silt	5% angular chl alt'd clasts. 2mm to 1cm

BBS226	25-Jul-16	436140	5506333	360	Top of cliff. Cedar and birch	274481	B Horizon	0.10-0.43	Med-light brown-orange	silty sand	No clasts
BBS227	20-Jul-16	436040	5506564	366	On top (slight slope) of outcrop mound. Spruce and birch stand. Swamp further south.	274472	B Horizon	0.15-0.20	Brown-orange		1% clasts of mafic volcanic (up to 0.5cm)
BBS228	20-Jul-16	435948	5506687	350	Spruce and birch stand on mod slope of outcrop mound	274471	B Horizon	0.30-0.40	Brown to brown-orange-red	Fine sand to silt	1% subrounded pebbles (1cm) of mafic (mafic volc?)
BBS229	28-Jul-16	435574	5506517	356	Ridge of cliff. Spruce and balsam	274491	B Horizon	0.09-0.65	Med-light brown	Silt	1% 1mm semi rounded clasts
BBS230	27-Jul-16	435652	5506340	364	Hig ground. Balsam, spruce and jackpine	274487	B Horizon	0.12-0.83	Light beige-orange	Silty sand	No visible clasts
BBS230	27-Jul-16	435652	5506340	364	Hig ground. Balsam, spruce and jackpine	275012	C Horizon	0.83-0.98	Med-light beige	packed silty sand	One 1cm angular clast at bottom of hole
BBS231	27-Jul-16	435775	5506158	334	Wet area north of cliff. Spruce and cedar	274486	B Horizon	0.16-0.78	Med-dark brown	silty sand/gravel	70% angular fragments. 1-3mm. One 3cm semi rounded clast @ 0.30m depth
BBS232	27-Jul-16	435887	5505976	351	Ridge on cliff. Spruce and alder	274485	B Horizon	0.07-0.43	Med-light brown-beige	packed silt/silty sand	NO visible clasts
BBS233	26-Jul-16	435958	5505819		Alder, birch and spruce forest	274484	B Horizon	0.21-0.75	med-light beige	silty sand	no clasts
BBS233	26-Jul-16	435958	5505819		Alder, birch and spruce forest	275011	C Horizon	0.75-1.20	med-light beige w/ rusty streaks	beach sand	no clasts
BBS234	26-Jul-16	436112	5505647		Under exposed roots ~15cm below ground level	274483	B Horizon	0.05-0.55	med brown-orange	Silty sand	1-2% 1-2mm clasts
BBS234	26-Jul-16	436112	5505647		Under exposed roots ~15cm below ground level	275010	C Horizon	0.55-1.35	med-light beige with light beige lenses	Beach sand	5% rounded various litho pebbles near top of C horizon. 2-5mm
BBS235	28-Jul-16	435334	5506140	355	Top of hill. Spruce and birch	274490	B Horizon	0.08-0.43	Med brown - orange	silty sand	5% angular clasts. 2 to 5mm
BBS236	28-Jul-16	435426	5505902	330	Northe east corner of lake close to stream. Cedar and jackpine	274489	B Horizon	0.08-0.52	Med brown-grey	Silty gravel	30% round to semi angular various litho clasts. 2mm to 2cm

BBS237	28-Jul-16	435608	5505796	341	Low area north of lake. Cedar and balsam	274488	B Horizon	0.10-0.71	Med brown-beige	Silty coarse sand	30% rounded various litho clasts 2mm to 2cm
BBS237	28-Jul-16	435608	5505796	341	Low area north of lake. Cedar and balsam	275013	C Horizon	0.71-0.90	Med-light beige	Packed silt/clay	5% rounded pebbles towards bedrock

Brookbank East Survey

Site #	Date	UTM East	UTM North	Elev	Sample Site Type	Sample #	Horizon Type	Depth (m)	Colour	Texture	Clast Comments
BBE001	13-Aug-16	440635	5507741	328	Very swampy area with cedar; very wet. No sample able to be taken.						
BBE002	13-Aug-16	440709	5507615	327	On side of o/c (mafic volcanic) on shore of small lake. About 40m away from station (due to lake)	208501	B Horizon	0.42	Brown	Silty	Angular mafic volcanic clasts from outcrop (2cm)
BBE003	13-Aug-16	440754	5507507	340	On cut line next to large BBE stripped outcrop; station was originally on outcrop so moved it south to get away from disturbed area (stripped material)	208502	B Horizon	0.27	Brown-orange	Silty to fine sand	Small angular clasts of mafic volcanic (up to 3mm) (1%)
BBE004	13-Aug-16	440790	5507464	346	Balsam + birch stand + spruce stand on top of o/c on weak slope	208503	B Horizon	0.30-0.50	Orange-brown	Fine sand	<1% small granules (1mm)
BBE005	13-Aug-16	440841	5507380	359	On slight slope in spruce + maple stand	208504	B Horizon	0.20-0.35	Brown-orange	Silty with clay	Mafic volcanic clasts up to 1cm; angular, 1%
BBE006	13-Aug-16	440895	5507277	355	Maple stand w/spruce; on slight slope; in low area between 2 outcrop	208505	B Horizon	0.30-0.50	Orange-brown	Silty sand	<1% 1mm rock fragments
BBE007	13-Aug-16	440947	5507212	351	Balsam + maple stand on low area of o/c	208506	B Horizon	0.30-0.64	Orange-orange red brown	Fine sand	No visible clasts
BBE008	13-Aug-16	440983	5507123	357	Slight slope on side of o/c in spruce and birch stand	208507	B Horizon	0.27	Brown	Sandy with minor clay	Minor angular mafic volcanic clasts 2-4mm in size
BBE009	13-Aug-16	441016	5507046	353	Balsam, birch and cedar on top of outcrop ridge	208508	B Horizon	0.4	Yellow-brown	Sandy	No visible clasts
BBE010	12-Sep-16	441073	5506943	332	Valley between outcrop ridges; dense spruce, birch, cedar, balsam. Moved ~20m from site due to bad ground.	274827	B Horizon	0.17-0.25	Med brown-yellow	Silt with clay content	5% clasts; angular and flat green mafic rocks; <2-3cm in size; sorted

BBE022	13-Aug-16	440814	5507858	329	Close to cedar swamp; spruce and birch trees in relatively flat mossy area. *Had to go ~20m from station due to swamp.	208551	B Horizon	0.26-0.49	Med brown-slight orange	Fine sand	40% rock fragments of mafic rock; looks to be chipped up from rock underneath; angular; <5cm; poorly sorted
BBE024	13-Aug-16	440903	5507674	333	Flat ground along cut line; spruce, cedar and birch trees	208552	B Horizon	0.21-0.35	Med brown-red	Silt to fine sand	40% clasts of chipped up rock; angular mafic rocks mostly 1-2mm in size; poorly sorted
BBE024	13-Aug-16	440903	5507674	333	Flat ground along cut line; spruce, cedar and birch trees	209051	C Horizon	0.71-0.92	Med beige-brown	Clay to silt	40-50% clasts; chipped up/broken mafic rock; angular and most are 1-2mm in size but some as large as 5 cm; poorly sorted
BBE025	13-Aug-16	440954	5507569	354	Slope of large outcrop; spruce and birch	208553	B Horizon	0.20-0.32	Med orange-brown	Silt	<2% clasts of angular mafic rock; <2mm in size; sorted
BBE025	13-Aug-16	440952	5507568	354	Slope of large outcrop; spruce and birch	209052	C Horizon	0.65-0.81	Med beige-brown-grey	Fine sand	20% clasts; subrounded to subangular mafic rock; <3cm in size (most are 1-2mm); sorted
BBE026	13-Aug-16	440999	5507479	359	Spruce and birch forest on side of outcrop slope	208554	B Horizon	0.18-0.30	Med-dark brown-orange	Silt to fine sand	<5% clasts of angular to subangular mafic rock; <2cm in size
BBE026	13-Aug-16	440999	5507479	359	Spruce and birch forest on side of outcrop slope	209053	C Horizon	0.48-0.64	Med beige-brown	Fine silt to sand	25% clasts; angular mafic and rounded to subrounded granitoids; <4cm in size (most are 2mm)
BBE027	14-Aug-16	441059	5507397	340	Flat, swampy area on side of outcrop; birch, spruce and cedar	208565	B Horizon	0.21-0.34	Med brown with slight beige	Silt	5-10% clasts; angular to subangular mafic rock; <3-4cm in size
BBE028	14-Aug-16	441111	5507331	339	Edge of outcrop near cedar swamp; spruce, birch and cedar	208566	B Horizon	0.21-0.36	Med brown-tan	Clay to silt	<5% clasts; <3mm in size (all relatively small); angular to subangular mafic rock; semi-sorted
BBE028	14-Aug-16	441103	5507331	338	Edge of outcrop near cedar swamp; spruce, birch and cedar	209057	C Horizon	0.60-0.78	Beige-orange	Silt to fine sand w/clay	40-45% clasts of angular to subangular mafic rock (sheared and chipped); up to 5cm
BBE029	15-Aug-16	441158	5507226	349	Slope of outcrop with cedar, birch and spruce trees	208567	B Horizon	0.20-0.34	Med beige-brown	Silt to fine sand	<5% clasts of angular to subangular mafic rock; <1cm in size (most around 1-2mm)
BBE030	15-Aug-16	441217	5507135	351	Gently sloped area with spruce, birch and cedar trees	208568	B Horizon	0.21-0.34	Dark brown-red	Silt to fine sand	5-10% clasts angular mafic rock; 3-4cm in size; semi-sorted
BBE031	15-Aug-16	441258	5507070	339	Dense spruce, cedar and birch forest	208569	B Horizon	0.18-0.30	Med brown	Silt to fine sand	<5% clasts angular to subangular mafic rock; <1cm in size
BBE032	15-Aug-16	441269	5507001	333	Lakeside. *Had to go 50m from station. Right in middle of lake.	208570	B Horizon	0.17-0.32	Med brown	Silt to fine sand	5% clasts of angular to subangular mafic rock; <2cm in size
BBE033	29-Aug-16	441360	5506870	339	Rocky area. Took sample about 15m south of bedrock. Cedar/balsam/spruce. Mossy terrain	208593	B Horizon		Rusty orangy brown	Silty fine sand	
BBE043	13-Aug-16	440982	5507934	327	~5m off from road; sparse spruce and birch forest	208559	B Horizon	0.21-0.33	Med brown-orange	Silt	<5% clasts of angular/broken mafic rock; <3cm in size; poorly sorted

BBE044	13-Aug-16	441032	5507843	327	Relatively flat, gently sloping area with abundant outcrop; spruce and birch	208558	B Horizon	0.19-0.30	Med brown-orange	Silt to fine sand	No visible clasts
BBE045	13-Aug-16	441089	5507784	330	Slightly higher ground on outcrop near cedar swamp; spruce and birch trees. *Had to go ~20m away from site, was in cedar swamp	208557	B Horizon	0.28-0.41	Med brown-orange	Clay to fine silt	<5% clasts of angular to subangular mafic volcanic; <3cm in size
BBE046	13-Aug-16	441130	5507682	336	Gently sloping outcrop with spruce and birch trees	208556	B Horizon	0.24-0.31	Med brown-orange	Silt	40% chipped up rock fragments; angular and sheared mafic rock; <3cm in size (most are 2mm)
BBE047	13-Aug-16	441174	5507596	341	On slope of tall outcrop near very steep cliff; birch and spruce	208555	B Horizon	0.20-0.30	Med brown	Silt	<5% clasts of angular and broken mafic rock; <3cm in size
BBE048	14-Aug-16	441232	5507500	338	Sloped area with large depression nearby; spruce, birch and cedar trees	208564	B Horizon	0.22-0.32	Med brown to slight orange	Fine sand	1% clasts of angular to subangular mafic rock; <1-2cm in size; poorly sorted
BBE048	14-Aug-16	441233	5507503	339	Sloped area with large depression nearby; spruce, birch and cedar trees	209056	C Horizon	0.56-0.70	Med brown-beige	Fine sand	10-15% clasts of angular to subangular mafic rocks; <3cm in size; most are few mm's; poorly sorted
BBE049	14-Aug-16										
BBE050	14-Aug-16	441345	5507338	335	Sloped area just beside cedar swamp; spruce, cedar and birch	208563	B Horizon	0.18-0.30	Med brown to slight orange	Silt to fine sand	<5% clasts of angular mafic rock; <3cm in size
BBE051	14-Aug-16	441378	5507236	342	Beside large blast pit (~25m long); spruce and birch	208562	B Horizon	0.17-0.25	Med brown with slight orange	Silt to fine sand	<1% clasts of angular mafic rock up to 3mm in size
BBE052	14-Aug-16	441443	5507159	338	Sloped area with lots of spruce and birch trees; blown-over trees	208560	B Horizon	0.21-0.32	Orange-tan	Silt to fine sand	<5% clasts of angular mafic rock; <2-3cm in size
BBE052	14-Aug-16	441443	5507159	338	Sloped area with lots of spruce and birch trees; blown-over trees	209054	C Horizon	0.50-0.63	Brown-beige	Silt to fine sand w/clay	15% clasts; angular to subangular mafic rock up to 4cm in size
BBE053	14-Aug-16	441497	5507073	337	Relatively flat ground with spruce and birch trees	208561	B Horizon	0.18-0.29	Orange-brown	Silt to fine sand	<5% clasts of angular to subangular mafic rock; <2cm in size (most~2mm)
BBE053	14-Aug-16	441497	5507073	337	Relatively flat ground with spruce and birch trees	209055	C Horizon	0.72-0.91	Beige-tan	Silt to sand w/little clay	10% clasts of angular to subangular mafic rock up to 4cm in size
BBE054	29-Aug-16	441530	5506986	328	Large cedar, balsam, spruce, birch forest on possible small esker	208592	B Horizon	0.25-0.35	Med orangy brown	Silty fine sand	
BBE055	29-Aug-16	441582	5506898		Cedar, balsam, spruce, jackpine; mossy terrain. Top of hill sloping south to lake.	208594	B Horizon	0.15-0.25	Light to medium orangy brown		

BBE066	14-Aug-16	441256	5507865	324	Area near main road, flat area of slope, spruce and alders	208509	B Horizon	0.20-0.50	Brown to light brown		
BBE067	14-Aug-16	441308	5507788	332	In lower area next to outcrop; spruce and birch stand	208510	B Horizon	0.30-0.43	Med brown	Silty to fine sand w/minor clay	1cm flat mafic volcanic clasts (<1%)
BBE068	14-Aug-16	441358	5507690	331	Birch and spruce stand; very minor slope of outcrop	208511	B Horizon	0.30-0.50	Medium grey-orange	Fine sand-silt	Angular to subangular clasts of mafic volcanic - mostly up to 2cm, 1%
BBE069	14-Aug-16	441422	5507591	334	On weak slope of large o/c ridge; white spruce, balsam and alder stand	208512	B Horizon	0.35-0.50	Med orange-brown	Sandy	Flat angular fragments of mafic volcanic - from 5mm to 1cm (1-2%)
BBE070	14-Aug-16	441463	5507511	333	Cedar swamp area next to outcrop ridge and road	208513	B Horizon	0.42	Dark brown	Silty sand	1% mafic volcanic fragments (angular, up to 1cm)
BBE071	14-Aug-16	441497	5507423	338	Minor slope of outcrop or mound; spruce and birch stand. Near a road.	208514	B Horizon		Light-medium brown	Fine sand	2-3% rock fragments (angular, mafic volcanic, 5mm to 2cm)
BBE072	14-Aug-16	441569	5507344	331	Spruce, balsam, poplar stand. On slight slope near road	208515	B Horizon	0.30-0.43	Orange to orange brown	Fine sand	No visible clasts
BBE073	14-Aug-16	441596	5507244	329	On edge of cedar swamp + slope; birch, poplar and balsam	208516	B Horizon	0.20-0.32	Brown to brown orange	Sandy	No visible clasts
BBE074	16-Aug-16	441653	5507160	340	Flat/low ground with spruce and birch trees	208580	B Horizon	0.21-0.35	Med brown-beige	Silt to fine sand	<5% clasts of angular to subrounded mafic rock; <3cm in size; semi-sorted
BBE076	29-Aug-16	441749	5507000		Spruce/balsam; on top of 30-40m rocky hill; very mossy	208597	B Horizon	0.15-0.25	Medium rusty orange-brown	Fine silt to fine sand	
BBE077	29-Aug-16	441805	5506915		Jack pine/spruce/birch. At base of large hill 30-40m high.	208595	B Horizon	0.10-0.18	Rusty brown-light orange	Fine silt to fine sand	
BBE077	29-Aug-16	441805	5506915		Jack pine/spruce/birch. At base of large hill 30-40m high.	209065	C Horizon	0.25-0.35	Light grey-brown	Clay to 3-4cm clasts	3-4cm clasts; large clasts are angular with soft edges; mafic clasts (20%) and felsic clasts (quartz-5%)
BBE088	15-Aug-16	441476	5507861	329	Roadside	208571	B Horizon	0.23-0.33	Med brown	Coarse sand	5% clasts (granule size) angular to subangular mafics; most 2mm
BBE088	15-Aug-16	441476	5507861	329	Roadside	209058	C Horizon	1.00-1.20	Med beige-grey	Coarse sand	30-40% clasts; pebble-size (<6cm); most are around 2-4mm; poorly sorted angular to subangular mafics and rounded to subrounded granitoids + qz

BBE089	15-Aug-16	441507	5507795	328	Spruce forest on perimeter of cedar swamp	208572	B Horizon	0.20-0.30	Med brown-red	Silt	5-10% clasts of angular mafic rock and rounded to subangular felsic + granitoid rocks; up to 3cm in size
BBE089	15-Aug-16	441506	5507798	327	Spruce forest on perimeter of cedar swamp	209059	C Horizon	0.75-0.91	Med beige-grey	Fine sand w/clay	15% clasts of angular to subangular mafic rock; <3cm in size; poorly sorted
BBE090	15-Aug-16	441583	5507709	331	Sparse spruce and birch forest on slope	208573	B Horizon	0.22-0.33	Med brown-slight orange	Silt	5-10% clasts of angular mafic rock and subangular to subrounded felsic/granitoid rocks; <3cm in size (most ~2mm)
BBE091	15-Aug-16	441620	5507632	329	Swampy, low ground on side of outcrop; spruce, cedar, alder	208574	B Horizon	0.28-0.39	Beige	Silt to clay	5-10% clasts of angular to subangular mafic rock; pebble size and <3cm
BBE092	16-Aug-16	441690	5507523	331	Sparse birch and spruce forest; lots of blown over trees	208575	B Horizon	0.33-0.45	Brown-beige	Clay	<5% clasts of angular to subangular mafic rock; pebble size (<3cm); poorly sorted
BBE092	16-Aug-16	441690	5507523	331	Sparse birch and spruce forest; lots of blown over trees	209060	C Horizon	0.60-0.78	Beige-tan	Sand w/clay	30% clasts of angular to subangular mafic rock; poorly sorted; <4cm in size
BBE093	16-Aug-16	441726	5507446	331	Spruce and birch forest	208576	B Horizon	0.18-0.26	Med brown-orange	Silt	<5% clasts of angular mafic rock; clasts are <2cm in size; poorly sorted
BBE094	16-Aug-16	441782	5507357	322	High ground on cedar swamp near blasted outcrop	208577	B Horizon	0.30-0.42	Med brown-orange	Silt	<5% clasts of angular mafic rock; clasts are <3cm in size; poorly sorted
BBE095	16-Aug-16	441827	5507266	320	Spruce and cedar forest near dugout ground	208578	B Horizon	0.23-0.34	Med-dark brown-orange	Silt	<5% clasts of angular mafic rock + rounded to semi-rounded granitoids; <3cm in size; poorly sorted
BBE096	16-Aug-16	441850	5507237	336	Cedar swamp near large pond. *Had to move ~60m from station (was in the middle of water)	208579	B Horizon	0.30-0.37	Med brown-slight orange	Silt to fine sand	<3% clasts of angular to subangular mafic rock; <2cm in size (granule to pebble size)
BBE098	29-Aug-16	441977	5507018		Spruce; on top of tall rock hill ~30-40m tall; rocky - had to move location to find soil	208596	B Horizon	0.20-0.35	Med brown-rusty	Clay to fine sand	
BBE101	07-Sep-16	442119	5506759		Cedar, spruce, jack pine, balsam; mossy terrain edge of cedar swamp	227153	B Horizon	0.15-0.25	Orange rusty brown	Silt to sand	
BBE102	07-Sep-16	442182	5506655		Mossy terrain, side of large hill 30-40m half way up; jackpine, spruce, birch	227151	B Horizon	0.05-0.15	Light brown-rusty	Fine to silty sand	10% <1cm angular clasts
BBE103	07-Sep-16	442229	5506575		Balsam, 1 cedar, jackpine; south side of large hill (102) about 5 m from bottom	227152	B Horizon		Medium brown	Silty	15% 1cm angular pebbles
BBE103	07-Sep-16	442229	5506575		Balsam, 1 cedar, jackpine; south side of large hill (102) about 5 m from bottom	177751	C Horizon	0.40-0.55	Pale light brown	Silty with minor sand	15% > 1 cm pebbles; pebbles are angular with soft edges
BBE110	16-Aug-16	441714	5507860	322	Sparse spruce forest near swamp/river	208581	B Horizon	0.25-0.35	Med brown-orange	Silt	5-10% clasts of angular to subangular mafic rock + subrounded to rounded granitoids/qz.; <2cm

BBE110	16-Aug-16	441714	5507860	322	Sparse spruce forest near swamp/river	209061	C Horizon	0.55-0.70	Med beige-brown	Silt to fine sand	10-15% clasts of angular mafic rock and subrounded to rounded granitoids/qz; <4cm in size
BBE111	16-Aug-16	441746	5507798	324	Roadside	208582	B Horizon	0.22-0.34	Med brown-beige	Silt to fine sand	<5% clasts of angular mafic rock; <2cm in size
BBE111	16-Aug-16	441746	5507798	324	Roadside	209062	C Horizon	0.75-1.20	Med grey-beige-tan	Sandy/gravelly till	25% clasts of rounded to subrounded granitoids/qz up to 4-5cm in size; mafic angular clasts <2cm in size
BBE112	17-Aug-16	441807	5507717	327	Flat ground with sparse spruce and birch trees; near roadside	208583	B Horizon	0.20-0.33	Med brown-orange	Fine sand	5-10% clasts of pebble size (<3-4cm) angular mafic rock; poorly sorted
BBE112	17-Aug-16	441800	5507721	332	Flat ground with sparse spruce and birch trees; near roadside	209063	C Horizon	0.70-1.12	Med brown	Sand/gravel	30% clasts of angular mafic volcanic and rounded/subrounded granitoids/qz; <4cm in size - most 0.5mm; poorly sorted
BBE113	17-Aug-16	441840	5507640	332	High ground on outcrop near roadside; spruce and birch	208584	B Horizon	0.25-0.42	Med brown-orange	Fine sand	15% clasts of rounded to angular mafic rocks primarily and some rounded granitoids; <3cm in size; poorly sorted
BBE114	17-Aug-16	441866	5507537	325	Small cedar swamp. *Had to move ~40m from station, was in the middle of ploughed swamp.	208585	B Horizon	0.20-0.37	Dark brown	Clay to silt	35% chipped up rock pieces of angular to subrounded mafic (mostly) and felsic rocks; <2cm in size
BBE115	17-Aug-16	441939	5507453	329	Sloped area near river; cedar, spruce and birch trees	208586	B Horizon	0.21-0.32	Med brown w/slight orange	Sandy	15% clasts; angular to rounded; mafic and felsic rocks; <2-3cm in size; poorly sorted
BBE116	17-Aug-16	442061	5507383	329	Sloped area by large tree root; birch, spruce and cedar	208587	B Horizon	0.20-0.34	Med brown	Fine sand	15% clasts; semi-rounded to rounded mafic rocks; <2cm in size; poorly sorted; few angular mafic pieces <1cm
BBE116	17-Aug-16	442061	5507383	329	Sloped area by large tree root; birch, spruce and cedar	209064	C Horizon	0.87-1.20	Med brown-beige	Fine sand/silt with little clay	25-30% clasts; rounded to subangular mafic and felsic rocks + qtz; poorly sorted; <3cm
BBE117	17-Aug-16	442055	5507277	332	Relatively flat ground; birch, spruce forest	208588	B Horizon	0.25-0.38	Med brown-slight orange	Fine sand	25-30% clasts; angular to rounded rocks; mostly mafic but few are granitoids/qz; <2cm
BBE118	17-Aug-16	442107	5507197	330	Low ground with cedar and spruce trees	208589	B Horizon	0.25-0.35	Med brown with slight orange	Silt with little clay	20% clasts; angular to rounded rocks; mostly mafic but few are granitoids/qz; <2cm
BBE119	17-Aug-16	442162	5507140	327	Slope near lake; spruce and cedar trees. *Had to go ~25-30m away from site. Was on perimeter of lake.	208590	B Horizon	0.15-0.25	Med brown-orange	Clay to silt	<5% clasts of angular mafic rock; <1cm in size; semi-sorted
BBE120	07-Sep-16	442206	5507019		Cedar, spruce, balsam; 10m from lake; mossy terrain and rocky	227154	B Horizon	0.10-0.22	Orange rusty brown	Silt to sand	

BBE120	07-Sep-16	442206	5507019		Cedar, spruce, balsam; 10m from lake; mossy terrain and rocky	177752	C Horizon	0.70-0.80	Dull grey	High clay content with minor sandy component	5% very angular mafic clasts; <1-2cm
BBE121	09-Sep-16	442249	5506947	322	Flat ground; spruce, birch, balsam, pine	274825	B Horizon	0.28-0.40	Light orange-brown	Silt	5% clasts of angular mafic rock; <2-3cm in size but most are 1-2mm
BBE121	09-Sep-16	442249	5506947	322	Flat ground; spruce, birch, balsam, pine	209070	C Horizon	0.98-1.20		Sandy	25-30% clasts of angular to subrounded mafic, felsic and granitoid rocks; <4cm in size (most 2-3mm)
BBE122	09-Sep-16	442291	5506859	329	Very flat; spruce and birch	274824	B Horizon	0.20-0.38	Med beige-brown	Silt to fine sand	15% clasts; angular to subrounded mafic and fewer felsic rocks; <3-4cm in size but most are 1-3mm; poorly sorted
BBE123	09-Sep-16	442355	5506765	332	Dense spruce and alder; flat ground	274823	B Horizon	0.20-0.33	Med brown-beige	Fine to med sand w/clay	<1% clasts of angular mafic rock; <1-2mm in size
BBE124	09-Sep-16	442394	5506673	337	Flat ground; sparse spruce and birch	274822	B Horizon	0.28-0.36	Med brown-orange w/slight beige	Silt to fine sand	No visible clasts
BBE125	09-Sep-16	442467	5506604	334	Sloped ridge; spruce and birch trees	274821	B Horizon	0.28-0.37	Med brown	Silt	<5% clasts of angular to subangular mafic clasts; <2-3mm in size
BBE135	09-Sep-16	442076	5507651	324	Spruce and birch; flat level ground	274826	B Horizon	0.16-0.30	Med rusty orange-brown	Sandy	15% clasts; angular mafic rocks (mostly) and some subangular to subrounded felsic rocks and granitoids; <1-2cm in size
BBE135	09-Sep-16	442076	5507651	324	Spruce and birch; flat level ground	209071	C Horizon	0.75-0.87	Light-med brown-beige	Sandy	25% clasts; angular to subrounded mafic rocks and felsic/granitoid rocks; <4cm in size; poorly sorted
BBE136	04-Sep-16	442137	5507561	326	Sparse spruce and birch forest; relatively flat ground	208600	B Horizon	0.21-0.35	Med brown-slight orange	Silt	5-10% clasts; angular mafic rocks and rounded to subrounded granitoids + qz; poorly sorted; <2cm
BBE136	04-Sep-16	442137	5507561	326	Sparse spruce and birch forest; relatively flat ground	209067	C Horizon	0.80-1.12	Med beige-brown-grey	Fine sand	25-30% clasts; angular to rounded mafic and felsic rocks - also qz and granitoids; <3-4cm in size; poorly sorted
BBE137	17-Aug-16	442170	5507473	327	Area near slope of outcrop; birch and spruce trees	208591	B Horizon	0.24-0.39	Med brown-orange	Silt	<5% clasts of angular to subangular mafic rock; <1cm in size; semi-sorted
BBE138	04-Sep-16	442215	5507386	332	Spruce and birch trees; slight slope	274801	B Horizon	0.29-0.39	Med brown with slight orange	Silt	<5% clasts; angular to subangular mafic and felsic rocks; <3cm in size; poorly sorted
BBE139	04-Sep-16										

BBE140	04-Sep-16	442336	5507210	329	Sparse birch and spruce forest; gently sloping	274802	B Horizon	0.25-0.39	Med brown-beige	Silt to fine sand	No visible clasts
BBE141	04-Sep-16	442373	5507113	328	Sloped area on side of outcrop; spruce and cedar trees	274803	B Horizon	0.27-0.35	Med brown-orange	Silt to very fine sand	<2cm angular to subrounded mafic rocks; poorly sorted
BBE142	09-Sep-16	442428	5507031	336	Ridge; spruce, cedar and birch trees	274817	B Horizon	0.26-0.35	Med brown w/slight orange	Silt to fine sand	<5% mafic and felsic clasts; <2-3mm in size; vary from subrounded to angular; sorted
BBE143	09-Sep-16	442490	5506956	329	Cedar swamp	274818	B Horizon	0.28-0.37	Med-dark brown-beige	Med sand	<5% clasts; angular to subangular mafic clasts; <1-2mm in size; sorted
BBE144	09-Sep-16	442518	5506857	335	Ridge; spruce and birch trees	274819	B Horizon	0.21-0.32	Med-dark brown-orange/beige	Silt	<1% clasts; angular mafic rocks <1-2mm in size
BBE145	09-Sep-16	442578	5506768	336	Near clearing; flat ground; spruce, birch and alder	274820	B Horizon	0.26-0.35	Med rusty brown-orange	Silt to fine sand	<5% clasts of angular to subangular mafic volcanic; <2-3mm in size
BBE146	08-Sep-16	442620	5506688	334	Gently sloping area; sparse spruce and birch	274816	B Horizon	0.26-0.34	Med brown-yellow	Sand	<5% clasts of angular to subangular mafic clasts; <2-3mm in size
BBE147	08-Sep-16	442693	5506604	331	Lakeside; spruce and birch	274815	B Horizon	0.19-0.27	Med brown w/slight orange	<5% clasts of angular to subangular mafic rocks (stubby)	
BBE157	29-Aug-16	442291	5507666		Spruce/mossy terrain	208599	B Horizon	0.08-0.15	Light brownish-orange-rusty		Silty fine sand
BBE157	29-Aug-16	442291	5507666		Spruce/mossy terrain	209066	C Horizon	0.80-1.10	Pale grey	High clay content	3-4cm angular mafic clasts
BBE158	29-Aug-16	442358	5507581		Spruce/cedar; mossy	208598	B Horizon	0.30-0.40	Medim rusty orange-brown	Silty to med sandy	
BBE158	07-Sep-16	442351	5507556	323	Roadside; low ground near swamp	274804	B Horizon	0.28-0.43	Med brown-orange	Fine silt to fine sand	<2% clasts of angular to rounded mafic and felsic rocks; semi-sorted
BBE158	07-Sep-16	442351	5507556	323	Roadside; low ground near swamp	209068	C Horizon	0.93-1.20	Light grey-beige	Clay with sand	15% clasts of dark to light, angular to rounded mafic and felsic rocks; semi-sorted
BBE159	07-Sep-16	442394	5507494	331	Flat, low ground near outcrop	274805	B Horizon	0.25-0.37	Light-med beige	Silt	<3% clasts of angular mafic rock; <1-2mm in size
BBE160	07-Sep-16	442463	5507399	335	Sparse spruce and birch forest	274806	B Horizon	0.23-0.33	Med brown-orange (rusty)	Silt	<2% clasts of angular and subangular mafic rocks; <3cm in size

BBE161	07-Sep-16	442505	5507346	328	Edge of swamp; spruce and birch trees	274807	B Horizon	0.18-0.29	Med-dark brown w/slight orange	Silt to fine sand; no visible clasts	No visible clasts
BBE162	08-Sep-16	442547	5507218	330	Near swamp; cedar, alder, birch and spruce	274808	B Horizon	0.22-0.33	Light-med beige-brown	Mixture of clay and silt; no visible clasts	No visible clasts
BBE163	08-Sep-16	442597	5507133	333	Flat ground; birch, cedar, spruce trees	274809	B Horizon	0.27-0.38	Med beige-brown	Silt with clay	<5% clasts of angular to subangular mafic rock
BBE164	08-Sep-16	442651	5507067	338	Sloped area on side of outcrop; birch, cedar and spruce	274810	B Horizon	0.25-0.34	Med brown-orange	Silt	15-20% clasts of angular to subrounded mafic rock; <3-4cm in size (pebble size)
BBE165	08-Sep-16	442695	5506955	353	Spruce and birch trees; in middle of clearing	274811	B Horizon	0.23-0.33	Med rusty brown-orange	Silt to fine sand	<5% clasts of angular to subrounded green mafic rocks; granule size (<1-2cm)
BBE166	08-Sep-16	442748	5506882	346	Side of steep slope; spruce, birch and alder trees	274812	B Horizon	0.20-0.31	Med rusty brown-orange	Silt	<5% clasts of angular to subangular mafic rocks and few subrounded felsic rocks; granule size (<1-2cm)
BBE167	08-Sep-16	442792	5506793	333	Mossy; flat and sparse spruce and birch forest - lots of blown over trees	274813	B Horizon	0.26-0.35	Med brown w/slight orange	Silt/clay	No visible clasts
BBE168	08-Sep-16	442838	5506707	331	Mossy; flat area with birch and spruce trees	274814	B Horizon	0.35-0.45	Med brown-orange	Fine silt	No visible clasts
BBE168	08-Sep-16	442838	5506707	331	Mossy; flat area with birch and spruce trees	209069	C Horizon	0.65-0.79	Light-med brown-beige	Fine sand w/clay	25% clasts; angular to subangular mafic rocks; large (<5cm) in size; most are 2-3mm
BBE169	12-Sep-16	440590	5507827	327	Near road; spruce and birch trees	274828	B Horizon	0.20-0.40	Light-med brown-beige	Silty/sandy w/clay content	
BBE170	12-Sep-16	440529	5507904	324	Gently sloping hill; dense spruce	274829	B Horizon	0.24-0.35	Med brown-orange	Silty/sandy	2% clasts of angular mafic rock; 2-3mm in size mostly
BBE170	12-Sep-16	440533	5507898	324	Gently sloping hill; dense spruce	209072	C Horizon	0.95-1.20	Beige-tan	Sandy till	Larger (2-3cm) clasts of angular and subangular mafic volcanic; 1-2mm clasts of felsic and mafic rocks; 5% clasts
BBE171	12-Sep-16	440756	5507915	321	Near swamp; spruce trees	274830	B Horizon	0.33-0.43	Med brown-yellow-orange	Silty/sandy	No visible clasts
BBE172	12-Sep-16	440948	5507979	323	Near swamp; spruce and cedar trees. Had to move ~50m from site due to swamp.	274831	B Horizon	0.21-0.32	Med rusty brown-orange	Fine sand	No visible clasts

Appendix E: Principal Components Analysis

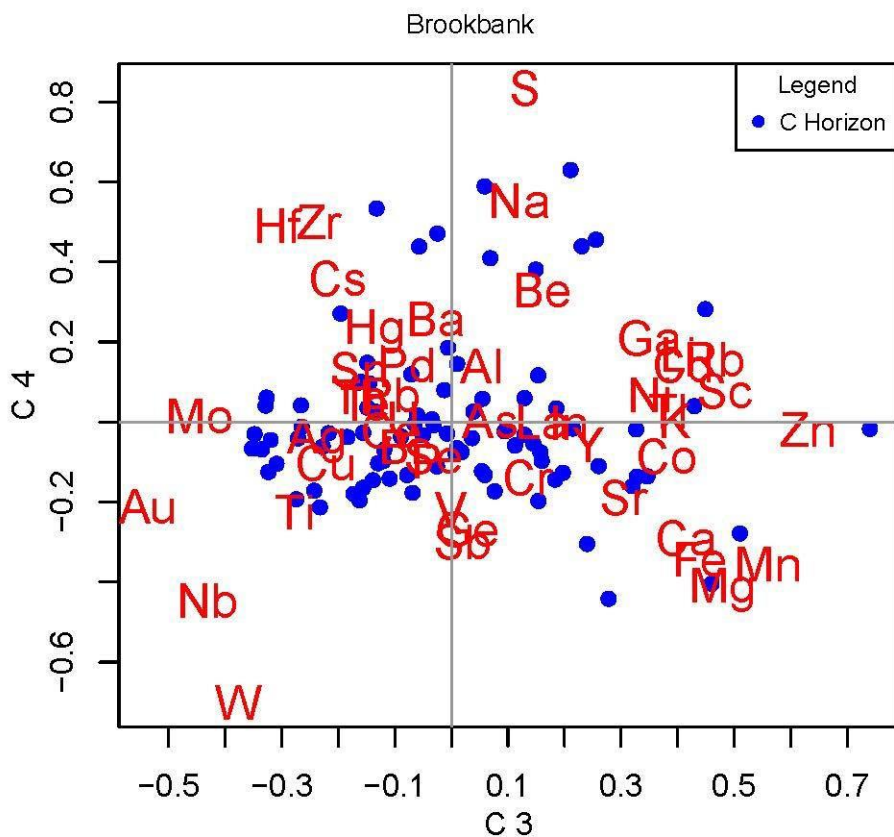


Figure 21 Biplot of PC3-PC4 for C horizon

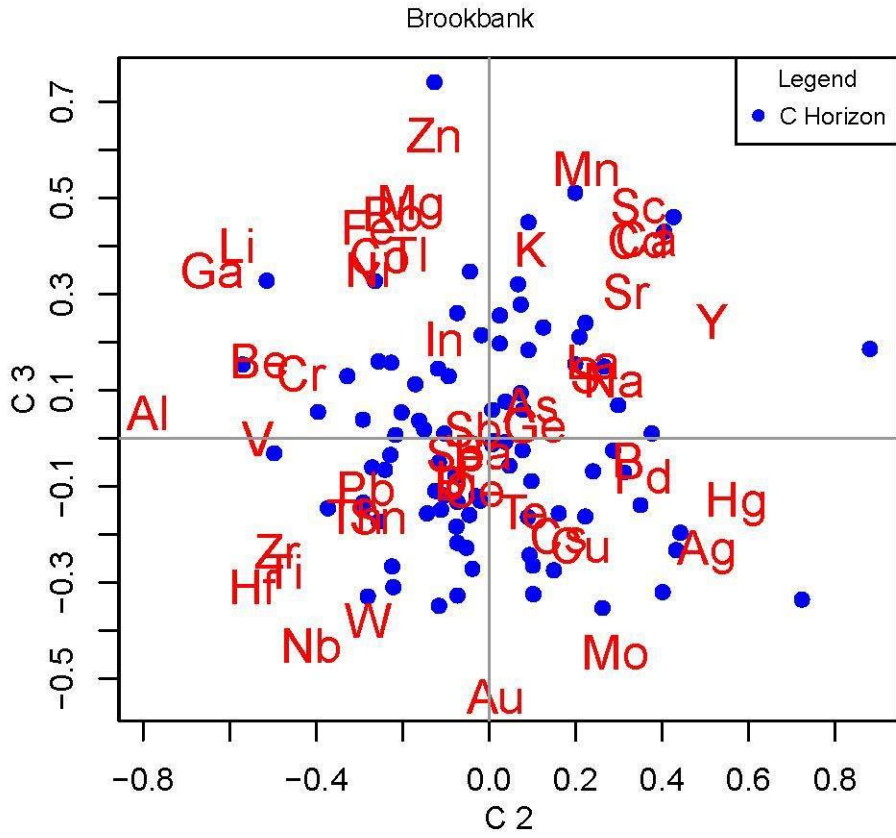


Figure 22 Biplot of PC2-PC3 for C horizon

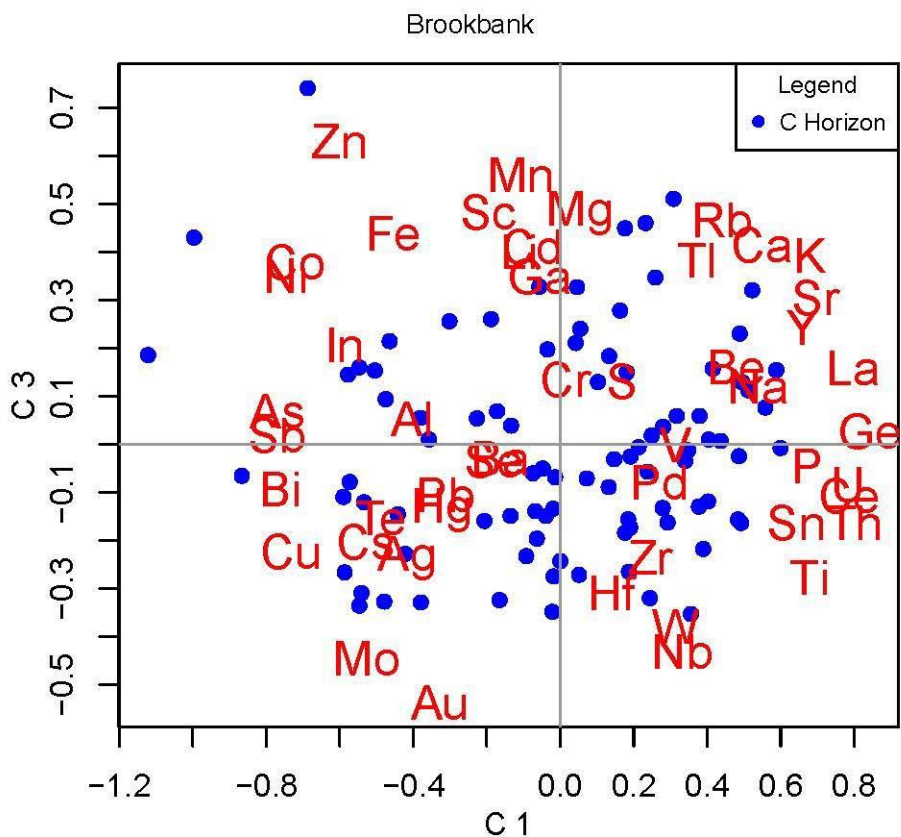


Figure 23 Biplot of PC1-PC3 for C horizon

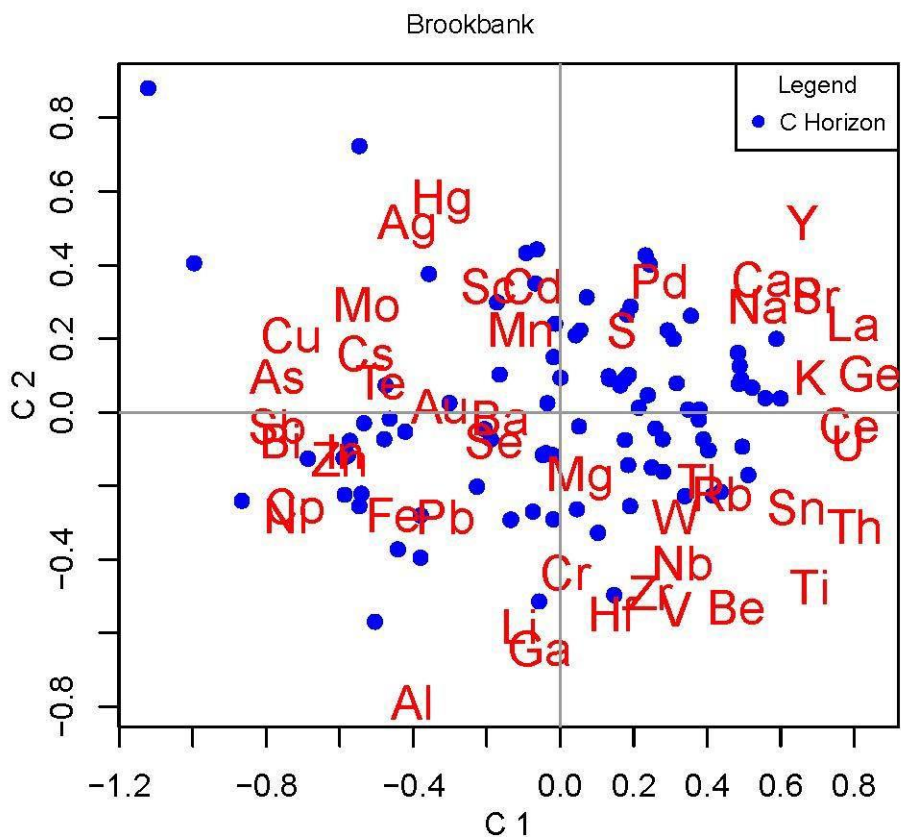


Figure 24 Biplot of PC1-PC2 for C horizon

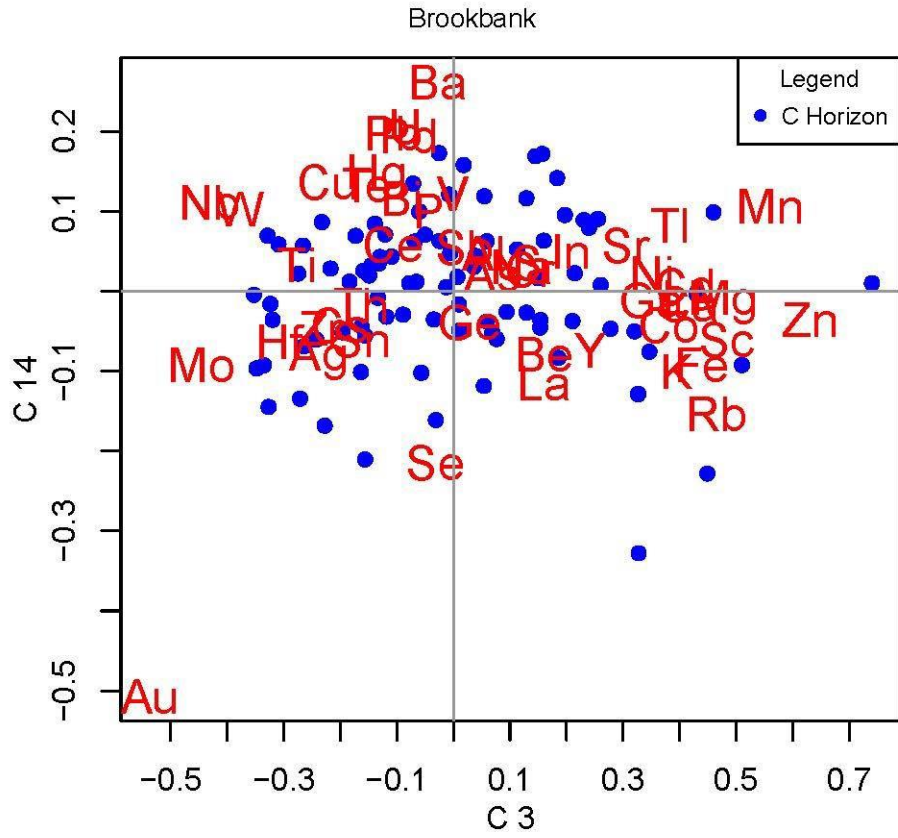


Figure 25 Biplot of PC3-PC14 for C horizon

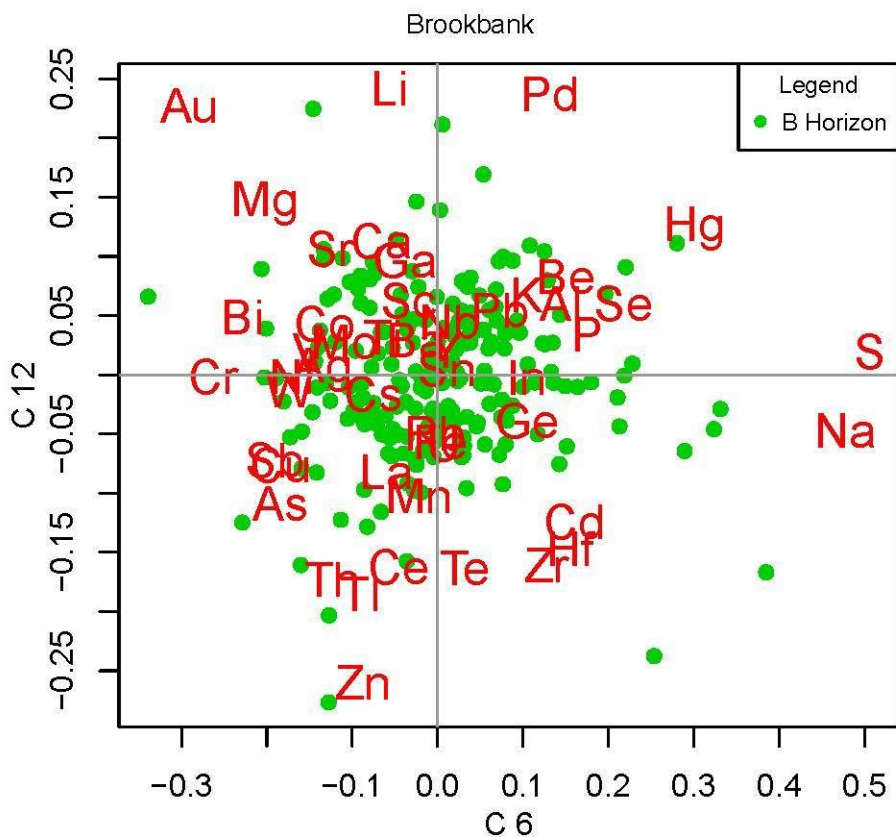


Figure 26 Biplot of PC6-PC12 for B horizon

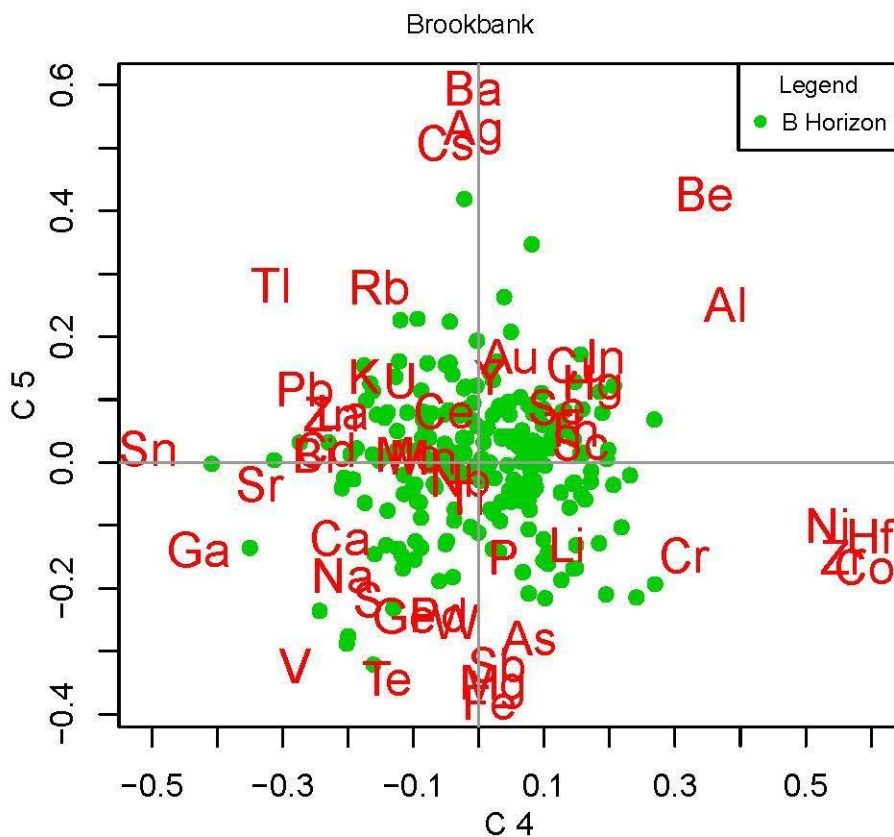
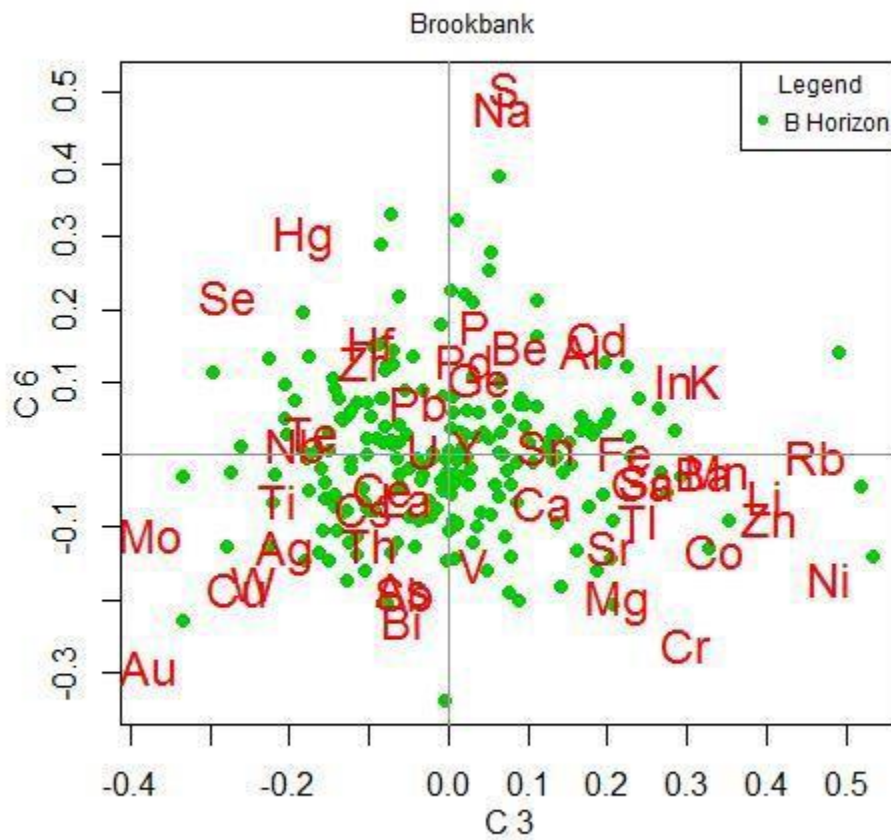


Figure 27 Biplot of PC4-PC5 for B horizon



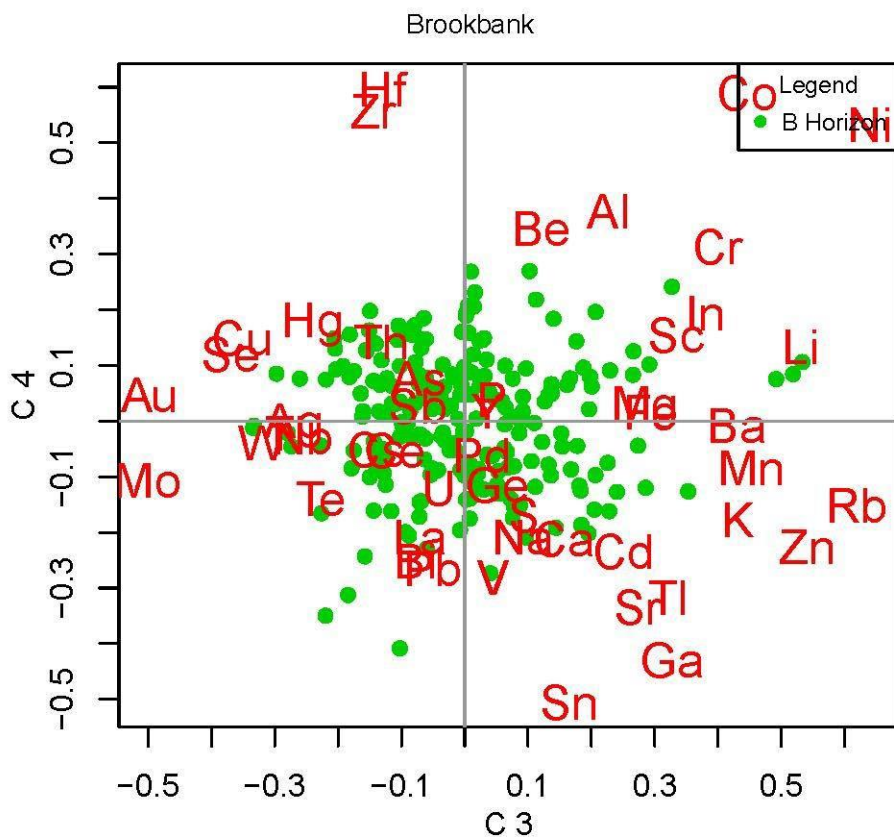


Figure 29 Biplot of PC3-PC4 for B horizon

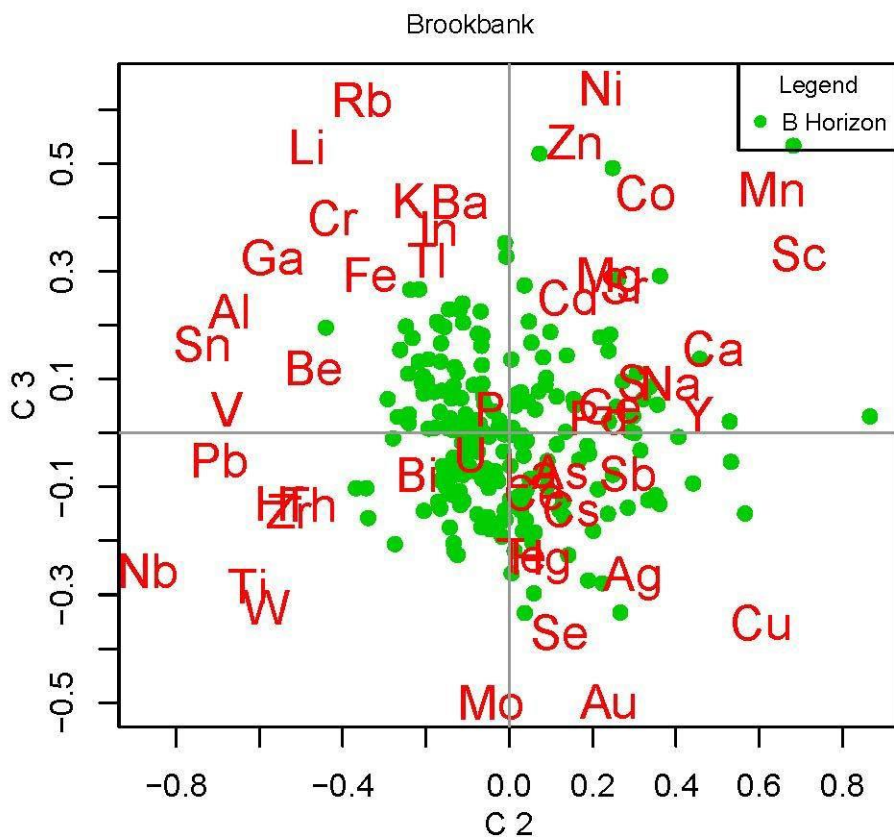


Figure 30 Biplot of PC2-PC3 for B horizon

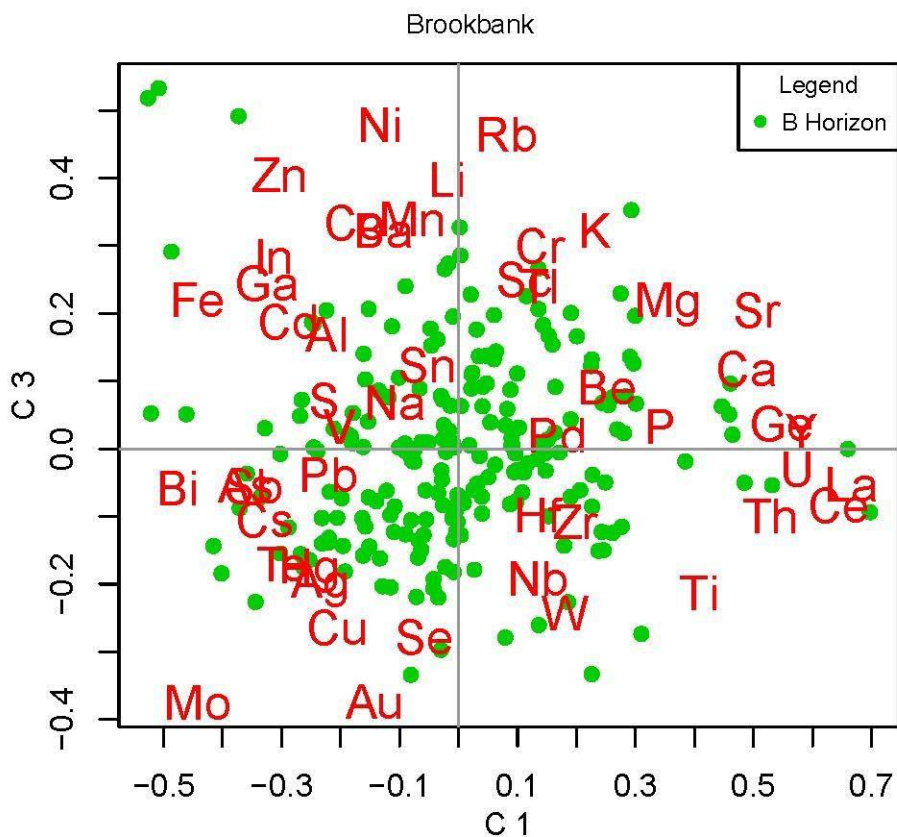


Figure 31 Biplot of PC1-PC3 for B horizon

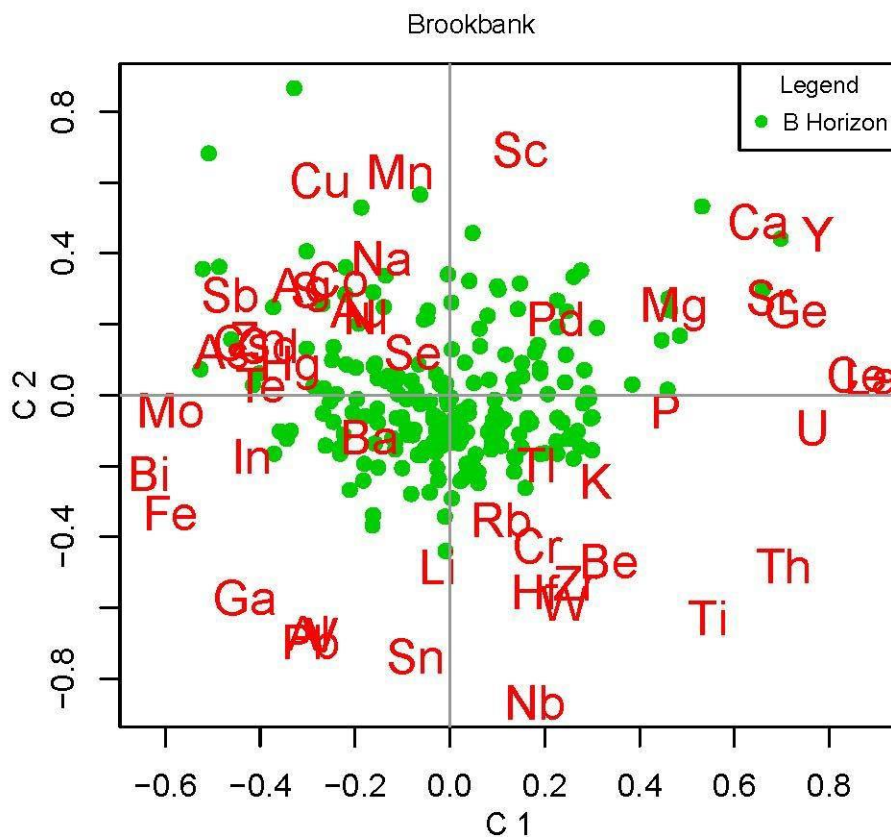


Figure 32 Biplot of PC1-PC2 for B horizon

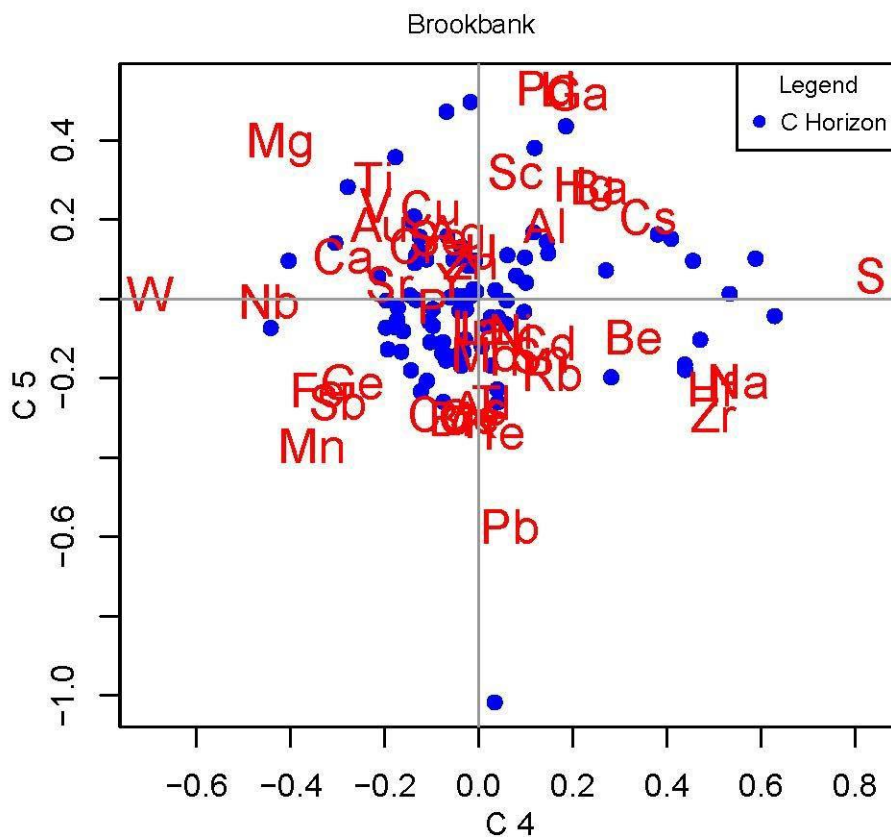


Figure 33 Biplot of PC4-PC5 for B horizon

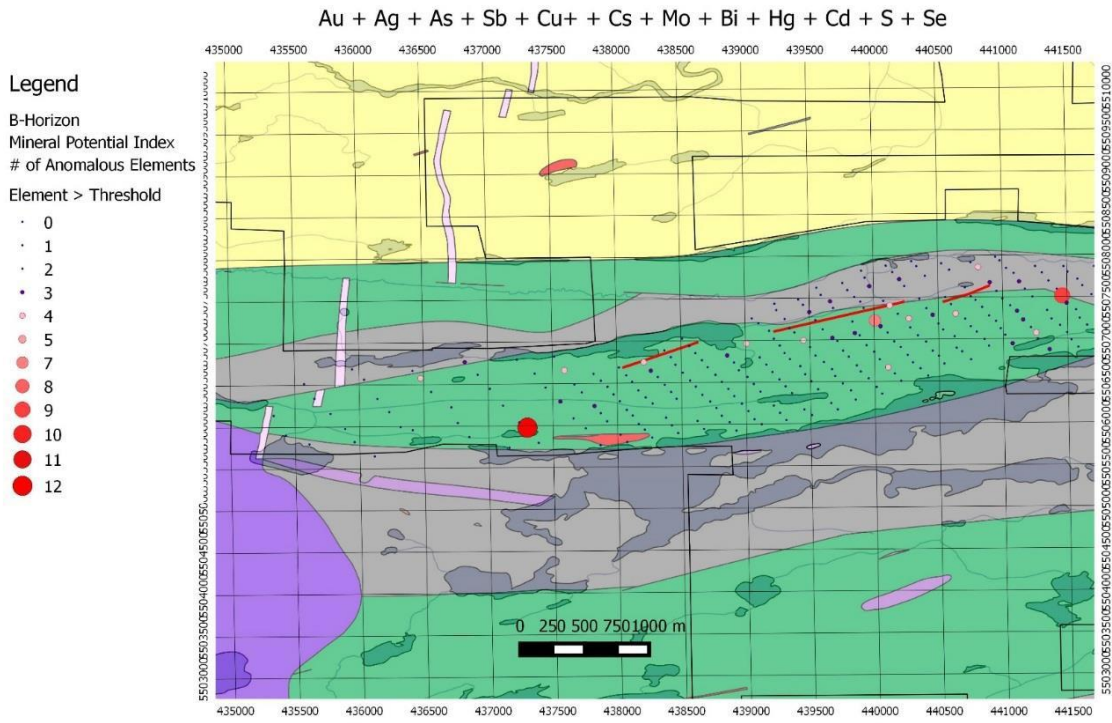


Figure 34 B horizon mineralization potential index.

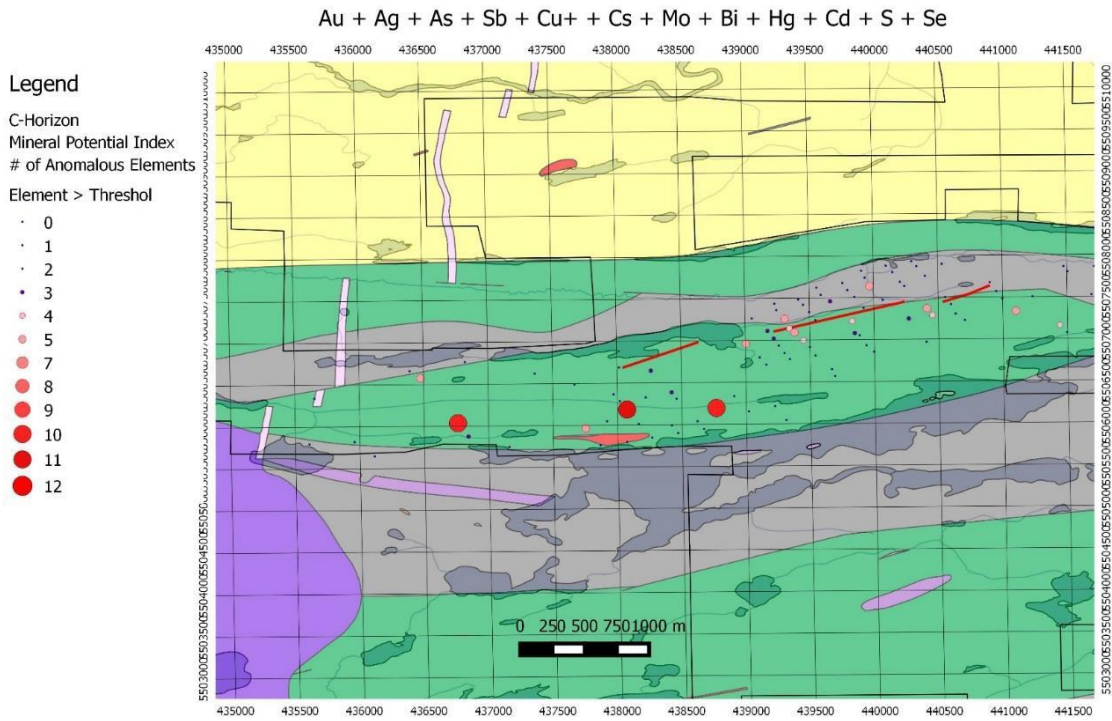


Figure 35 C horizon mineralization potential index.

Appendix F: Assay Certificates

A

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

To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

Page: 1
 Total# Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-JUN- 2016
 Account: GGMGDFMX

minerals

CERTIFICATE TB16089325

Project: Greenstone Gold Mines Soil Sam
 P.O. No.: 16- 00547
 This report is for 121 Soil samples submitted to our lab in Thunder Bay, ON, Canada
 on 6-JUN- 2016.

The following have access to data associated with this certificate:

MICHELE COTE

TOM SALMI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Red w/o BarCode
SPL-34	Pulp Splitting Charge
PUL-31	Pul verize split to 85% < 75 um
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
AuME-ST44	50g Super Trace Au + Multi Element PKG	ICP-MS

To: GREENSTONE GOLD MINES
 ATTN: TOM SALMI
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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 [Redacted] Laboratory Manager



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 2103 Do 11 a rton Hwy
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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

Page: 2 - A
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 26- JUN- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	AuME- ST44 Au ppm	Au ME- ST44 Ag ppm	AuME-ST44 Al %	AuME- ST44 As ppm	AuME- ST44 B ppm	AuME- ST44 Ba ppm	AuME-ST44 Be ppm	AuME- ST44 Bi ppm	AuME- ST44 Ca %	AuME-ST44 Cd ppm	AuME- ST44 Ce ppm	AuME-S T44 Co ppm	AuME-ST44 Cr ppm	AuME-ST44 Cs ppm
		0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
274501		0.57	0.0014	0.018	0.99	4.71	10	24.2	0.29	0.065	0.22	0.020	17.90	5.10	17.90	0.662
274502		0.46	0.0248	0.043	1.21	9.88	10	29.5	0.36	0.096	0.16	0.036	31.0	11.65	24.6	0.699
274503		0.44	0.0012	0.026	0.41	3.70	10	20.3	0.15	0.031	0.26	0.045	20.6	3.41	12.60	0.613
274504		0.70	0.0007	0.013	0.39	2.65	10	18.9	0.17	0.031	0.26	0.021	31.3	3.13	12.60	0.179
274505		0.34	0.0031	0.061	0.42	1.12	10	20.9	0.17	0.042	0.13	0.007	23.4	2.63	11.35	0.529
274506		0.43	0.0039	0.030	0.54	3.76	10	17.0	0.15	0.049	0.25	0.016	25.3	5.21	16.50	0.374
274507		0.43	0.0011	0.034	1.38	2.99	10	28.4	0.34	0.055	0.11	0.023	19.80	6.79	22.3	0.523
274508		0.48	0.0005	0.008	1.22	1.67	10	28.6	0.38	0.061	0.15	0.022	28.1	5.33	21.6	0.432
274509		0.57	0.0006	0.008	0.91	1.71	10	22.6	0.24	0.043	0.13	0.011	22.4	3.88	17.25	0.407
274510		0.31	0.0018	0.155	1.75	2.36	10	46.2	0.31	0.060	0.08	0.017	14.70	5.30	21.5	1.025
274511		0.39	0.0009	0.040	1.49	1.97	10	28.9	0.36	0.052	0.08	0.009	19.00	6.74	24.4	0.615
274512		0.49	0.0025	0.147	1.68	1.87	10	50.2	0.61	0.114	0.33	0.032	24.3	6.14	22.6	1.660
274513		0.54	0.0068	0.018	0.42	1.18	10	11.7	0.14	0.033	0.17	0.006	15.30	2.80	10.95	0.303
274514		0.53	0.0217	0.342	1.53	5.50	10	64.6	0.38	0.149	0.17	0.029	21.4	10.15	26.5	1.715
274515		0.58	0.0043	0.085	0.69	4.78	10	19.1	0.26	0.152	0.26	0.015	28.0	4.27	19.05	1.110
274516		0.53	0.0007	0.021	0.43	1.04	10	15.1	0.12	0.031	0.20	0.013	15.45	2.65	13.55	0.716
274517		0.35	0.0016	0.053	1.60	2.28	10	22.3	0.41	0.055	0.11	0.026	19.60	6.98	22.6	1.035
274518		0.44	0.0011	0.013	2.12	4.79	10	34.5	0.69	0.144	0.14	0.082	21.6	11.10	38.6	0.754
274519		0.51	0.0008	0.010	0.89	1.16	10	17.8	0.17	0.053	0.10	0.015	14.95	3.42	16.30	0.600
274520		0.51	0.0002	0.018	0.59	1.17	10	19.7	0.17	0.030	0.17	0.016	17.50	3.33	15.30	0.578
274521		0.53	0.0005	0.017	0.77	1.57	10	23.4	0.26	0.051	0.21	0.038	17.40	3.92	15.35	0.587
274522		0.32	0.0011	0.080	1.46	3.20	10	23.4	0.37	0.059	0.11	0.057	15.10	4.85	20.2	0.660
274523		0.42	0.0003	0.013	1.03	1.81	10	29.6	0.35	0.043	0.10	0.040	17.50	4.76	20.8	0.399
274524		0.51	0.0004	0.010	1.14	2.52	10	30.6	0.35	0.062	0.13	0.040	18.10	7.28	24.1	0.518
274525		0.56	0.0449	0.412	0.88	3.30	10	23.6	0.24	0.117	0.26	0.057	28.3	14.20	25.5	2.44
274526		0.50	0.0010	0.007	0.50	2.35	10	12.7	0.14	0.049	0.06	0.008	9.60	1.870	8.01	0.358
274527		0.49	0.0007	0.008	1.48	2.02	10	33.4	0.37	0.068	0.10	0.040	14.70	5.13	21.5	0.507
274528		0.42	0.0007	0.017	1.42	2.51	10	35.3	0.36	0.085	0.11	0.046	16.00	7.12	26.0	0.654
274529		0.37	0.0026	0.027	1.46	26.7	10	29.2	0.36	0.157	0.18	0.040	31.1	10.95	38.7	0.730
274530		0.50	0.0012	0.012	0.59	1.31	10	19.8	0.18	0.041	0.16	0.014	18.70	2.95	15.10	0.534
274531		0.44	0.0089	0.111	1.55	11.20	10	115.5	0.46	0.125	0.35	0.114	43.1	10.35	35.4	1.615
274532		0.41	0.0019	0.039	1.86	12.40	10	59.7	0.44	0.133	0.41	0.062	25.2	8.35	33.1	1.850
274533		0.34	0.0016	0.028	1.51	3.67	10	35.8	0.52	0.130	0.15	0.079	25.0	6.86	27.9	0.755
274534		0.41	0.0006	0.018	0.42	1.49	10	18.2	0.16	0.027	0.30	0.023	23.6	2.70	14.35	0.277
274535		0.43	0.0022	0.032	1.38	18.10	10	30.0	0.37	0.139	0.12	0.016	23.0	10.95	42.7	0.736
274536		0.31	0.0055	0.044	0.96	3.74	10	22.3	0.14	0.091	0.12	0.025	16.60	4.73	19.60	0.654
274537		0.20	0.0110	0.083	1.44	3.70	10	29.5	0.33	0.083	0.10	0.042	17.00	4.69	21.4	0.964
274538		0.28	0.0008	0.016	0.84	1.73	10	26.6	0.19	0.060	0.18	0.024	14.35	2.81	15.15	0.458
274539		0.40	0.0007	0.034	1.30	2.26	10	25.4	0.32	0.060	0.10	0.018	17.70	4.31	21.6	0.740
274540		0.94	0.0012	0.044	0.87	3.52	10	19.2	0.24	0.068	0.11	0.017	21.7	4.38	18.75	0.571



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To: **GREENSTONE GOLD MINES**
1 35 HARDROCK ROAD
GERALDTON ON POT 1 MO

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 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-JUN- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	Au ME- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
274501		22.4	1.280	2.41	0.035	0.012	0.013	0.011	0.02	7.47	6.0	0.16	111.5	0.51	0.005	0.983
274502		25.1	1.640	3.13	0.048	0.078	0.018	0.012	0.02	11.00	9.8	0.21	155.0	1.16	0.005	0.929
274503		10.25	1.080	1.565	0.041	0.019	0.021	<0.005	0.01	9.44	5.0	0.15	69.9	0.32	0.005	0.642
274504		4.45	0.950	1.485	0.057	0.019	0.009	0.005	0.02	14.80	5.1	0.14	130.5	0.32	0.005	0.583
274 50 5		30.6	0.730	1.430	0.037	0.017	0.022	<0.005	0.01	9.05	3.6	0.10	63.5	0.95	0.004	0.544
274506		16.60	0.980	1.790	0.048	0.016	0.023	<0.005	0.01	11.60	6.8	0.18	68.7	0.20	0.005	0.612
274507		7.68	1.590	2.55	0.034	0.141	0.018	0.009	0.02	8.91	9.6	0.18	69.8	0.32	0.005	1.390
274508		3.69	1.340	2.97	0.041	0.084	0.009	0.010	0.02	10.25	10.2	0.24	82.1	0.11	0.005	1.050
274509		2.73	1.180	2.40	0.039	0.047	0.016	0.011	0.02	9.74	7.5	0.16	64.7	0.27	0.004	1.050
27 4 510		5.94	1.680	3.39	0.031	0.099	0.023	0.012	0.02	8.10	9.7	0.16	53.9	0.64	0.005	1.775
274511		11.00	1.480	2.48	0.037	0.191	0.009	0.016	0.02	8.65	8.2	0.15	52.7	0.61	0.005	1.715
274512		74.3	1.690	3.84	0.059	0.056	0.048	0.027	0.03	16.15	9.3	0.19	173.5	0.32	0.007	1.115
274513		9.15	0.720	1.580	0.034	0.006	0.018	0.005	0.01	6.89	4.6	0.14	62.1	0.78	0.004	0.692
274514		83.3	1.930	3.33	0.035	0.063	0.039	0.016	0.03	9.93	10.2	0.29	109.5	1.86	0.006	1.265
27451 5		41.1	1.320	2.19	0.045	0.025	0.017	0.014	0.02	11.60	6.3	0.17	74.7	0.75	0.006	1.115
274 516		3.33	0.960	1.770	0.030	0.017	0.011	0.009	0.01	7.73	5.1	0.12	55.0	0.98	0.005	0.818
274 517		14.70	1.540	2.82	0.041	0.089	0.032	0.016	0.02	8.90	10.6	0.17	60.5	0.42	0.005	1.755
274518		11.10	2.73	4.18	0.055	0.190	0.041	0.021	0.03	11.35	21.0	0.31	110.5	0.39	0.036	2.35
274519		2.03	1.100	3.27	0.030	0.066	0.012	0.010	0.02	7.64	10.6	0.18	52.4	0.26	0.004	1.225
274520		2.80	0.870	2.29	0.028	0.010	<0.004	0.012	0.02	8.38	9.7	0.22	76.8	0.07	0.004	0.925
274 521		5.45	0.940	2.60	0.027	0.012	0.011	0.010	0.02	8.10	9.8	0.19	69.2	0.17	0.005	1.030
274522		5.67	1.480	2.92	0.033	0.076	0.032	0.015	0.02	7.39	11.3	0.15	55.9	0.31	0.005	1.645
274523		3.75	1.400	2.55	0.036	0.040	0.016	0.010	0.02	8.53	7.2	0.16	56.4	0.11	0.004	1.050
274524		5.25	1.860	3.12	0.036	0.102	0.011	0.013	0.03	8.48	12.1	0.19	82.3	0.21	0.005	1.385
274 52 5		82.9	2.14	3.17	0.058	0.038	0.099	0.016	0.03	13.95	12.5	0.35	177.5	2.16	0.006	0.615
274526		5.26	0.570	2.08	0.015	0.008	0.006	0.005	0.01	4.87	2.9	0.05	19.1	0.17	0.003	0.665
274527		3.22	1.670	3.53	0.036	0.082	0.019	0.016	0.03	7.46	13.0	0.17	66.4	0.22	0.005	1.930
274528		5.47	1.680	4.62	0.031	0.096	0.026	0.021	0.03	7.58	18.5	0.22	73.7	0.27	0.010	1.900
274529		45.7	2.46	3.86	0.041	0.075	0.040	0.020	0.02	10.70	14.4	0.40	199.5	0.71	0.025	1.190
274530		8.77	0.940	2.46	0.041	0.015	0.008	0.011	0.02	9.18	10.1	0.18	67.8	0.18	0.005	0.935
274 53 1		48.0	2.55	4.18	0.070	0.039	0.060	0.025	0.03	20.6	19.5	0.32	484	0.40	0.015	0.969
274532		25.0	2.03	4.70	0.042	0.024	0.035	0.026	0.03	11.70	17.6	0.28	134.0	0.47	0.006	1.265
274533		7.39	2.14	6.23	0.046	0.030	0.026	0.015	0.05	10.95	19.9	0.29	203	0.34	0.017	2.20
27 4 534		4.74	0.860	1.835	0.058	0.012	0.012	0.005	0.02	11.15	5.7	0.16	99.8	0.07	0.006	0.672
2 74 535		28.1	2.46	4.32	0.041	0.054	0.027	0.023	0.02	9.36	16.1	0.36	157.0	0.53	0.009	1.460
2 74 536		9.95	1.390	4.66	0.031	0.027	0.013	0.006	0.01	8.67	9.5	0.17	57.9	0.47	0.005	0.780
274537		25.0	1.870	3.36	0.035	0.049	0.025	0.013	0.02	8.29	11.5	0.16	66.7	0.88	0.016	1.845
274538		4.28	1.280	2.86	0.034	0.021	0.005	0.008	0.01	6.17	6.5	0.11	47.0	0.28	0.004	1.000
274539		6.00	1.600	3.01	0.034	0.051	0.023	0.015	0.02	8.18	8.5	0.13	52.7	0.29	0.005	1.890
274540		11.80	1.220	2.89	0.044	0.024	0.016	0.014	0.02	12.10	6.8	0.14	79.6	0.31	0.004	0.999



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To: GREENSTONE GOLD MINES
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CERTIFICATE OF ANALYSIS TB16089325

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		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.04	0.001	0.00S	0.001	0.001	0.00S	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
274501		13.30	0.012	4.11	0.001	<0.001	2.69	<0.001	0.01	0.201	1.915	0.5	0.29	10.95	<0.005	0.02
274502		19.50	0.011	5.67	0.001	<0.001	3.34	<0.001	0.01	1.210	2.45	0.5	0.30	6.32	<0.005	0.01
274503		6.18	0.037	2.08	0.001	0.001	1.330	0.001	0.01	0.041	1.355	0.4	0.18	6.52	<0.005	<0.01
27 4504		6.61	0.051	2.26	<0.001	0.001	1.855	<0.001	<0.01	0.037	1.620	0.3	0.16	7.02	<0.005	<0.01
274505		5.14	0.008	2.20	0.001	<0.001	1.360	<0.001	<0.01	0.042	1.445	0.3	0.17	3.63	<0.005	<0.01
274506		12.45	0.050	2.43	0.001	0.001	1.745	<0.001	<0.01	0.359	1.875	0.3	0.19	6.67	<0.005	<0.01
27 450 7		16.20	0.034	3.72	<0.001	<0.001	2.83	<0.001	0.01	0.125	1.695	0.4	0.29	4.53	<0.005	0.01
274508		13.50	0.013	4.30	<0.001	0.001	4.53	<0.001	<0.01	0.062	2.04	0.3	0.36	6.95	<0.005	0.01
274509		8.89	0.024	3.39	<0.001	<0.001	2.71	<0.001	0.01	0.046	1.445	0.3	0.28	5.28	<0.005	0.01
274510		13.45	0.018	4.70	<0.001	0.001	3.35	<0.001	0.01	0.079	1.535	0.4	0.38	4.90	<0.005	0.02
274511		11.55	0.009	3.70	<0.001	<0.001	2.56	<0.001	0.01	0.057	1.885	0.2	0.33	5.22	<0.005	<0.01
2745 12		18.75	0.013	6.18	0.003	0.001	4.83	0.001	0.01	0.073	8.79	0.8	0.50	7.73	<0.005	0.01
2745 1 3		6.05	0.036	2.25	0.001	<0.001	1.615	<0.001	0.01	0.031	1.225	0.2	0.19	5.28	<0.005	<0.01
2745 1 4		22.6	0.021	5.84	<0.001	0.001	4.55	<0.001	0.01	0.293	2.21	0.5	0.33	8.42	<0.005	0.04
274515		10.45	0.021	3.23	<0.001	<0.001	2.09	<0.001	0.01	0.145	1.885	0.3	0.26	6.86	<0.005	0.03
274 516		4.97	0.015	2.13	<0.001	<0.001	1.785	<0.001	0.01	0.021	1.245	0.2	0.22	4.86	<0.005	0.01
274517		14.65	0.032	4.32	<0.001	0.001	3.80	<0.001	0.01	0.061	1.830	0.3	0.33	5.50	<0.005	<0.01
274518		20.6	0.035	5.89	0.001	0.001	6.34	<0.001	0.06	0.110	2.43	0.3	0.36	6.79	0.008	0.01
274519		7.70	0.007	3.60	<0.001	<0.001	4.51	<0.001	0.01	0.044	1.280	0.1	0.33	4.79	<0.005	<0.01
274520		8.33	0.011	2.34	<0.001	<0.001	3.59	<0.001	0.01	0.047	1.495	0.1	0.27	5.21	<0.005	<0.01
274521		10.00	0.017	3.50	0.001	<0.001	2.88	<0.001	0.02	0.064	1.325	0.2	0.25	5.78	<0.005	<0.01
274522		12.10	0.035	5.07	<0.001	<0.001	4.55	<0.001	0.01	0.064	1.355	0.2	0.33	5.08	<0.005	0.01
274523		10.40	0.034	3.36	<0.001	<0.001	4.03	<0.001	<0.01	0.047	1.340	0.2	0.29	4.39	<0.005	0.01
274 5 24		13.85	0.038	3.99	<0.001	<0.001	5.47	<0.001	<0.01	0.055	1.465	0.1	0.30	5.02	<0.005	0.01
274525		23.5	0.033	4.03	0.006	0.001	3.35	<0.001	<0.01	0.335	5.56	0.3	0.20	8.70	<0.005	<0.01
274526		3.60	0.004	2.52	0.001	<0.001	1.585	<0.001	<0.01	0.072	0.684	0.1	0.23	3.28	<0.005	0.01
274 52 7		12.25	0.028	4.85	0.001	<0.001	5.32	<0.001	0.01	0.050	1.475	0.2	0.34	5.45	0.005	0.02
274528		16.65	0.028	5.85	<0.001	0.001	7.01	<0.001	0.01	0.076	1.790	0.2	0.45	5.01	<0.005	0.01
274529		31.9	0.046	5.27	0.001	0.001	3.56	<0.001	0.03	0.983	2.65	0.5	0.26	8.89	<0.005	0.03
274530		7.99	0.010	3.03	<0.001	<0.001	2.94	<0.001	<0.01	0.057	1.645	0.1	0.23	6.68	<0.005	<0.01
274531		29.0	0.031	7.95	0.002	<0.001	8.75	<0.001	0.02	0.451	6.77	0.9	0.34	15.70	<0.005	<0.01
274532		25.3	0.028	6.37	<0.001	0.001	6.87	0.001	0.02	0.375	3.07	0.6	0.37	16.10	<0.005	0.03
274533		14.70	0.045	6.80	0.001	0.004	8.01	0.001	0.02	0.146	2.27	0.2	0.55	7.50	0.007	0.01
274 534		5.75	0.056	2.14	<0.001	<0.001	2.79	<0.001	0.01	0.094	2.10	0.3	0.25	8.93	<0.005	<0.01
274535		33.1	0.028	5.68	<0.001	<0.001	5.38	<0.001	0.02	0.804	2.44	0.4	0.33	6.74	<0.005	0.01
274536		11.05	0.007	4.52	0.001	<0.001	2.60	<0.001	0.01	0.182	1.640	0.1	0.38	6.97	<0.005	0.02
274537		11.00	0.033	4.75	0.001	<0.001	3.90	<0.001	0.02	0.104	1.660	0.3	0.34	5.29	<0.005	0.01
274538		6.27	0.011	3.67	<0.001	<0.001	2.36	<0.001	<0.01	0.050	1.155	0.2	0.30	7.13	<0.005	<0.01
274539		11.90	0.038	4.25	<0.001	<0.001	3.85	<0.001	0.01	0.060	1.505	0.2	0.34	5.72	0.005	0.02
274540		10.15	0.011	4.00	0.001	<0.001	3.26	<0.001	<0.01	0.151	1.905	0.3	0.35	5.80	<0.005	0.01

***** See Appendix Page for comments regarding this certi fi cate *****



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To: GREENSTONE GOLD MINES
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		Th ppm	Ti %	Ti ppm	U ppm	v ppm	w ppm	y ppm	Zn ppm	Zr ppm
274501		2.26	0.046	0.035	0.520	20.6	0.120	3.15	12.6	0.79
274502		3.71	0.043	0.070	0.403	26.7	0.122	3.73	16.7	3.61
274503		1.280	0.029	0.034	0.436	14.0	0.086	4.01	9.9	0.63
274504		2.57	0.032	0.033	0.289	15.2	0.084	5.72	8.4	0.98
274505		2.34	0.032	0.017	0.206	13.6	0.107	4.11	5.4	0.90
274506		2.95	0.038	0.029	0.363	16.2	0.117	4.94	11.6	0.80
274507		3.33	0.050	0.041	0.351	24.6	0.156	2.82	13.4	3.53
274508		3.38	0.060	0.041	0.377	23.3	0.108	3.77	12.6	3.25
274509		3.02	0.049	0.038	0.334	22.1	0.150	3.07	9.8	2.01
274510		2.91	0.060	0.040	0.283	24.0	0.151	2.13	9.4	3.18
274511		4.03	0.068	0.037	0.338	22.8	0.127	2.51	8.8	5.51
274512		4.01	0.036	0.073	0.395	20.9	0.062	15.85	15.1	2.13
274513		1.780	0.035	0.018	0.240	13.4	0.077	3.32	7.2	0.45
274514		3.51	0.056	0.049	0.373	26.4	0.147	3.19	17.8	2.38
274515		3.52	0.052	0.031	0.414	20.5	0.169	4.09	8.5	1.09
274516		2.13	0.040	0.028	0.247	16.4	0.096	2.47	6.3	0.55
274517		3.68	0.057	0.042	0.421	23.3	0.140	2.90	12.5	2.93
274518		7.37	0.086	0.054	0.521	39.3	0.287	3.49	24.3	6.09
274519		3.24	0.053	0.034	0.284	23.1	0.164	1.915	9.1	2.21
274520		2.02	0.052	0.023	0.262	13.8	0.102	3.02	11.0	0.48
274521		1.760	0.049	0.024	0.304	14.9	0.105	2.99	11.1	0.53
274522		2.84	0.050	0.035	0.314	22.0	0.127	2.23	20.3	2.54
274523		3.66	0.052	0.035	0.314	24.9	0.114	2.44	12.7	1.80
274524		3.87	0.062	0.040	0.307	29.2	0.174	2.73	17.2	3.45
274525		3.64	0.045	0.031	0.289	25.5	0.124	7.23	24.9	1.73
274526		1.315	0.023	0.027	0.160	14.7	0.059	1.255	3.4	0.41
274527		2.67	0.060	0.035	0.286	26.9	0.122	2.45	12.1	3.01
274528		3.28	0.066	0.053	0.316	31.6	0.109	2.46	18.3	3.23
274529		2.70	0.041	0.055	0.509	30.1	0.116	3.62	28.2	2.35
274530		2.88	0.050	0.027	0.408	18.6	0.116	3.10	9.2	0.97
274531		3.51	0.034	0.062	1.260	29.9	0.090	14.45	32.4	1.40
274532		1.645	0.037	0.073	1.540	28.7	0.091	7.79	29.0	0.81
274533		3.28	0.089	0.081	0.457	39.6	0.283	3.33	30.5	1.33
274534		1.485	0.036	0.022	0.511	14.3	0.093	5.95	8.1	0.26
274535		2.75	0.054	0.065	0.359	34.1	0.149	2.94	23.3	1.63
274536		2.27	0.017	0.069	0.256	33.1	0.064	1.635	12.7	1.05
274537		2.60	0.053	0.043	0.323	28.1	0.182	2.17	18.5	1.85
274538		1.890	0.040	0.029	0.243	25.3	0.107	1.810	9.9	1.06
274539		2.74	0.058	0.034	0.338	28.2	0.146	2.41	13.5	2.02
274540		2.85	0.050	0.044	0.358	26.3	0.127	5.48	11.9	1.48



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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 Plus Appendix Pages
 Finalized Date: 26-JUN- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
274541		0.54	0.0022	0.198	0.84	1.16	10	42.4	0.27	0.091	0.23	0.045	21.2	5.52	21.4	2.86
274542		0.36	0.0053	0.126	1.54	14.00	10	37.5	0.33	0.202	0.12	0.034	22.9	11.20	34.7	1.320
274543		0.38	0.0097	0.079	1.06	2.40	10	26.0	0.22	0.093	0.16	0.050	19.00	5.65	18.90	0.709
274544		0.29	0.0021	0.082	1.55	2.74	10	46.1	0.32	0.072	0.09	0.043	18.50	6.71	21.4	0.545
274545		0.61	0.0177	0.021	1.57	2.96	10	38.1	0.33	0.101	0.11	0.036	24.0	4.19	21.6	2.03
274551		0.39	0.0173	0.076	1.37	35.3	10	40.6	0.23	0.805	0.09	0.011	24.7	7.95	28.3	0.903
274552		0.28	0.0007	0.034	0.69	2.90	10	12.3	0.11	0.108	0.08	0.032	19.55	2.34	14.35	0.694
274553		0.37	0.0079	0.126	0.62	1.59	10	19.1	0.22	0.043	0.19	0.026	32.5	3.55	14.75	0.907
274554		0.35	0.0019	0.044	1.18	2.60	10	23.9	0.30	0.060	0.13	0.022	16.85	3.33	24.0	1.060
274555		0.27	0.0010	0.162	1.65	4.61	10	35.6	0.32	0.123	0.21	0.041	26.1	8.55	26.9	1.605
274556		0.38	0.0016	0.125	1.46	2.34	10	41.8	0.34	0.081	0.11	0.018	20.3	5.07	17.95	1.120
274557		0.45	0.0005	0.141	1.20	2.37	10	27.9	0.35	0.057	0.14	0.036	26.4	4.81	20.8	0.542
274558		0.48	0.0028	0.019	0.36	1.46	10	9.5	0.16	0.030	4.60	0.018	25.4	2.40	13.75	0.152
274559		0.48	0.0010	0.020	0.81	1.58	10	16.2	0.23	0.043	0.14	0.018	28.2	3.45	17.10	0.377
274560		0.42	0.0012	0.083	0.53	1.69	10	17.1	0.21	0.044	0.19	0.023	37.8	3.74	18.25	0.902
274561		0.37	0.0055	0.066	1.31	5.92	10	28.5	0.23	0.133	0.09	0.035	18.85	5.99	24.7	1.405
274562		0.48	0.0013	0.044	1.64	2.26	10	14.5	0.37	0.054	0.14	0.040	20.4	5.80	22.6	0.733
274563		0.39	0.0015	0.036	1.53	2.99	10	28.8	0.35	0.068	0.11	0.042	37.0	5.73	23.0	0.813
274564		0.42	0.0056	0.140	1.33	4.41	10	26.0	0.28	0.122	0.11	0.034	24.8	6.24	25.2	0.813
274565		0.43	0.0165	0.135	1.10	4.78	10	31.0	0.24	0.221	0.15	0.030	37.0	8.17	38.2	1.480
274566		0.43	0.0041	0.039	1.43	2.47	10	44.4	0.30	0.098	0.14	0.032	18.55	6.16	23.7	1.515
274567		0.49	0.0234	0.267	2.20	4.74	10	87.9	0.51	0.223	0.15	0.053	30.7	15.55	25.8	2.31
274568		0.34	0.0214	0.149	1.08	4.66	10	22.1	0.24	0.119	0.15	0.026	19.80	6.32	20.9	1.080
274569		0.42	0.0013	0.160	1.53	2.77	10	33.5	0.32	0.089	0.14	0.029	23.9	5.02	24.4	1.105
274570		0.32	0.0006	0.152	1.85	7.07	10	45.5	0.34	0.206	0.08	0.072	18.30	3.85	26.4	0.768
274571		0.54	0.0074	0.113	1.21	3.24	10	19.2	0.22	0.082	0.10	0.034	23.6	3.86	17.15	0.816
274572		0.46	0.0033	0.041	1.31	3.88	10	28.5	0.28	0.059	0.11	0.019	33.6	4.81	20.8	0.721
274573		0.46	0.0003	0.032	0.71	4.89	10	17.5	0.17	0.055	0.16	0.048	22.2	3.60	16.75	0.550
274574		0.72	0.0059	0.052	1.32	7.30	10	26.2	0.28	0.134	0.23	0.035	21.7	9.71	27.2	0.895
274575		0.47	0.0043	0.046	1.85	6.98	10	32.8	0.31	0.166	0.08	0.085	19.45	6.54	29.5	1.315
274576		0.48	0.0049	0.063	1.67	5.40	10	44.1	0.31	0.109	0.08	0.037	19.85	6.61	24.5	0.989
274577		0.48	0.0092	0.062	1.49	4.15	10	33.2	0.31	0.097	0.14	0.026	24.5	6.67	23.4	0.953
274578		0.86	0.0026	0.024	1.40	5.39	10	32.5	0.37	0.079	0.11	0.035	21.3	6.67	20.4	0.728
274579		0.59	0.0005	0.040	0.69	2.72	10	14.4	0.21	0.046	0.24	0.021	20.1	3.19	16.40	0.452
274580		0.39	0.0003	0.028	0.86	1.89	10	21.7	0.25	0.054	0.09	0.023	11.90	3.67	16.05	0.428
274581		0.43	0.0001	0.002	0.61	2.04	10	9.9	0.10	0.067	0.07	0.030	8.24	2.37	15.20	0.291
227001		0.90	0.0014	0.015	0.58	1.71	10	24.5	0.20	0.040	0.21	0.016	31.2	3.92	15.75	0.448
227002		1.16	0.0023	0.047	0.70	1.85	10	42.4	0.24	0.047	0.34	0.046	30.1	4.38	18.95	1.260
227003		1.16	0.0045	0.023	0.58	2.09	10	28.2	0.24	0.053	0.57	0.024	35.2	4.36	21.0	0.252
227004		1.26	0.0282	0.163	0.91	7.36	10	46.9	0.22	0.123	0.34	0.034	30.1	7.71	28.7	1.905

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

Page: 3 - B
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-JUN- 2016
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16089325

Sample Description	Method Analyte Units LOR	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
274541		95.9	1.370	2.75	0.038	0.037	0.010	0.009	0.02	9.67	8.2	0.21	131.5	1.21	0.007	1.040
274542		41.6	3.30	4.41	0.038	0.099	0.034	0.014	0.02	8.82	14.8	0.37	141.5	1.46	0.036	1.740
274543		13.25	1.690	3.71	0.034	0.037	0.017	0.013	0.02	8.85	7.9	0.17	79.3	0.68	0.004	1.280
274544		14.30	1.750	3.50	0.029	0.070	0.019	0.013	0.02	8.37	8.5	0.15	54.8	0.63	0.005	1.415
274545		13.15	1.870	4.95	0.040	0.025	0.021	0.031	0.03	10.55	10.1	0.18	96.5	0.89	0.006	1.590
274551		16.05	1.410	5.33	0.036	0.033	0.021	0.010	0.02	11.95	14.4	0.22	58.3	0.64	0.005	0.952
274552		12.55	1.490	4.84	0.039	0.033	0.012	0.010	0.02	9.69	4.5	0.13	49.9	1.54	0.004	1.560
274553		7.87	1.040	2.00	0.031	0.028	0.011	0.005	0.01	8.05	4.5	0.13	126.0	0.34	0.004	0.872
274554		6.60	1.460	2.71	0.039	0.039	0.023	0.015	0.02	7.93	8.0	0.15	68.4	0.50	0.017	1.655
274555		17.15	2.39	4.81	0.039	0.060	0.014	0.017	0.03	10.05	11.9	0.25	103.0	1.39	0.007	1.970
274556		26.9	1.760	3.69	0.041	0.044	0.025	0.016	0.02	9.35	9.6	0.17	82.1	1.16	0.006	1.760
274557		5.43	1.430	2.87	0.038	0.042	0.020	0.013	0.03	9.61	7.0	0.17	66.5	0.24	0.005	1.555
274558		8.56	0.830	1.445	0.060	0.024	0.011	<0.005	0.02	12.10	4.1	1.45	95.9	0.15	0.009	0.625
274559		3.13	1.100	2.16	0.038	0.024	0.012	0.009	0.02	9.13	5.5	0.14	63.7	0.13	0.005	1.100
274560		37.4	1.190	2.02	0.066	0.035	0.014	0.008	0.02	14.70	4.8	0.13	96.4	1.74	0.005	1.215
274561		23.5	2.52	4.48	0.037	0.053	0.026	0.012	0.02	8.79	10.1	0.26	96.0	1.26	0.009	2.18
274562		8.74	1.710	2.94	0.040	0.088	0.018	0.014	0.02	8.80	9.3	0.13	49.6	0.99	0.005	2.22
274563		15.40	1.550	3.33	0.041	0.060	0.025	0.021	0.03	10.55	8.0	0.19	76.6	0.29	0.006	1.755
274564		19.15	2.14	3.55	0.045	0.076	0.034	0.018	0.02	11.30	9.7	0.15	82.8	1.01	0.005	1.705
274565		64.4	3.06	3.45	0.060	0.056	0.021	0.008	0.02	15.70	9.0	0.22	146.5	1.00	0.005	1.675
274566		48.9	1.820	4.11	0.035	0.048	0.014	0.013	0.02	9.08	10.2	0.20	85.3	1.45	0.006	1.165
274567		127.0	3.20	6.15	0.049	0.048	0.030	0.044	0.04	12.50	13.5	0.31	560	2.60	0.006	1.200
274568		13.25	1.950	3.56	0.033	0.038	0.014	0.013	0.02	8.32	10.6	0.17	84.9	1.85	0.005	1.745
274569		7.50	2.06	4.63	0.037	0.052	0.018	0.016	0.02	9.90	11.0	0.17	67.1	1.46	0.005	2.55
274570		26.9	4.12	8.62	0.040	0.081	0.045	0.019	0.02	9.02	13.0	0.12	92.1	1.73	0.019	2.47
274571		13.50	1.390	3.42	0.037	0.043	0.024	0.007	0.02	11.00	9.3	0.14	53.6	0.55	0.006	1.585
274572		12.35	1.420	3.38	0.038	0.043	0.022	0.012	0.02	12.00	8.3	0.19	78.9	0.43	0.006	1.480
274573		13.40	1.310	2.41	0.036	0.038	0.005	0.011	0.01	10.20	6.3	0.14	59.4	0.74	0.004	1.260
274574		57.8	2.26	3.96	0.041	0.044	0.018	0.014	0.01	9.56	10.4	0.36	176.5	0.82	0.009	1.035
274575		52.8	2.54	4.68	0.037	0.107	0.046	0.021	0.02	9.10	12.4	0.27	91.1	1.67	0.010	1.805
274576		23.5	2.15	4.21	0.037	0.099	0.022	0.020	0.02	9.48	11.6	0.19	75.5	1.08	0.005	1.465
274577		34.0	1.980	3.56	0.046	0.078	0.030	0.010	0.02	10.65	10.6	0.21	79.4	0.66	0.010	1.785
274578		28.9	1.840	3.50	0.033	0.088	0.032	0.020	0.02	9.72	9.5	0.26	101.5	0.43	0.005	1.290
274579		7.82	1.170	2.24	0.028	0.024	0.021	0.010	0.02	8.59	8.1	0.15	67.1	0.16	0.004	0.983
274580		2.44	1.280	2.63	0.026	0.056	0.016	0.010	0.02	5.79	8.2	0.12	47.4	0.21	0.003	1.225
274581		2.01	1.470	4.22	0.025	0.057	0.004	0.007	0.02	4.33	7.1	0.13	41.6	0.28	0.002	1.880
227001		9.67	1.070	2.10	0.049	0.038	0.011	0.005	0.04	14.35	4.9	0.16	99.6	0.18	0.027	0.611
227002		22.2	1.020	2.57	0.050	0.020	0.034	0.009	0.04	14.75	7.4	0.22	91.5	0.20	0.023	1.070
227003		6.82	1.500	2.42	0.063	0.033	0.014	0.012	0.04	18.45	7.1	0.37	113.0	0.41	0.023	0.859
227004		80.9	2.11	3.23	0.056	0.050	0.308	0.016	0.05	16.80	9.7	0.39	213	3.01	0.019	0.667

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To: GREENSTONE GOLD MINES
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		Ni ppm	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	
274541		10.75	0.007	5.75	<0.001	<0.001	3.83	0.001	<0.01	0.050	2.10	0.3	0.37	10.60	<0.005	0.02
274542		24.6	0.027	6.49	0.001	<0.001	4.24	<0.001	0.04	0.585	2.75	0.5	0.44	7.25	<0.005	0.05
274543		10.50	0.013	5.01	<0.001	<0.001	5.72	<0.001	0.01	0.082	1.670	0.2	0.43	6.88	<0.005	0.01
274544		13.50	0.013	5.29	<0.001	<0.001	3.05	<0.001	0.01	0.068	1.875	0.4	0.36	6.70	<0.005	0.02
274545		10.50	0.023	6.81	0.001	0.001	4.54	<0.001	0.01	0.070	1.905	0.2	0.59	7.41	<0.005	0.02
274551		14.05	0.008	5.89	0.001	<0.001	4.57	<0.001	0.01	0.310	2.11	0.2	0.48	6.94	<0.005	0.01
274552		5.41	0.010	4.00	0.001	<0.001	3.16	<0.001	0.01	0.119	1.460	0.2	0.50	5.22	<0.005	0.03
274553		6.88	0.014	3.64	<0.001	<0.001	2.24	<0.001	<0.01	0.035	1.440	0.2	0.23	4.75	<0.005	<0.01
274554		11.10	0.036	4.25	0.001	<0.001	3.83	<0.001	0.02	0.054	1.610	0.4	0.35	5.82	<0.005	0.02
274555		16.75	0.020	6.86	<0.001	<0.001	4.52	<0.001	0.01	0.099	2.30	0.3	0.50	9.30	<0.005	0.03
274556		10.90	0.030	4.93	<0.001	<0.001	4.36	<0.001	0.01	0.058	2.56	0.6	0.42	6.01	<0.005	0.01
274557		11.30	0.036	4.15	<0.001	<0.001	4.09	<0.001	0.01	0.047	1.725	0.3	0.34	6.43	<0.005	<0.01
274558		5.14	0.058	1.955	<0.001	<0.001	1.630	<0.001	<0.01	0.114	1.735	0.3	0.20	28.6	<0.005	<0.01
274559		8.19	0.051	3.36	<0.001	<0.001	3.95	<0.001	<0.01	0.051	1.345	0.2	0.27	5.14	<0.005	0.01
274560		6.69	0.014	2.72	0.001	<0.001	2.36	<0.001	<0.01	0.036	2.10	0.5	0.26	5.22	<0.005	<0.01
274561		15.20	0.021	6.26	0.001	<0.001	4.28	<0.001	0.02	0.153	1.965	0.4	0.43	6.64	<0.005	0.03
274562		10.60	0.027	4.44	<0.001	0.001	2.40	<0.001	0.01	0.046	1.855	0.3	0.35	5.06	0.005	<0.01
274563		13.45	0.023	5.31	0.001	<0.001	4.06	<0.001	0.01	0.060	1.970	0.5	0.39	6.36	<0.005	0.02
274564		12.20	0.030	5.93	0.001	0.001	3.45	<0.001	0.01	0.249	2.41	0.4	0.37	5.55	<0.005	0.03
274565		14.95	0.032	11.80	<0.001	<0.001	2.92	<0.001	0.01	0.214	2.02	0.4	0.34	6.28	<0.005	0.09
274566		14.20	0.010	4.60	<0.001	<0.001	4.26	<0.001	0.01	0.117	2.16	0.3	0.44	9.11	<0.005	0.01
274567		24.9	0.029	6.29	<0.001	<0.001	8.78	<0.001	0.01	0.180	5.96	0.7	0.50	8.81	<0.005	0.03
274568		13.35	0.026	4.53	0.001	<0.001	3.24	<0.001	0.01	0.185	1.850	0.3	0.41	5.76	<0.005	0.01
274569		12.75	0.029	5.90	0.001	<0.001	3.94	<0.001	0.01	0.057	1.850	0.5	0.52	6.41	<0.005	0.02
274570		10.35	0.029	10.55	0.001	<0.001	3.87	<0.001	0.04	0.258	2.35	0.6	0.87	8.00	<0.005	0.03
274571		8.17	0.017	4.94	<0.001	<0.001	3.52	<0.001	0.01	0.085	1.670	0.4	0.42	5.92	<0.005	0.01
274572		12.70	0.013	4.85	<0.001	<0.001	4.20	<0.001	0.01	0.111	1.965	0.4	0.39	7.38	<0.005	0.02
274573		8.89	0.012	3.38	<0.001	<0.001	2.68	<0.001	<0.01	0.120	1.520	0.2	0.29	5.03	<0.005	0.03
274574		21.3	0.011	4.44	0.001	0.001	2.35	0.001	0.01	0.321	3.79	0.4	0.34	8.85	<0.005	0.03
274575		16.05	0.027	9.16	0.002	<0.001	4.20	<0.001	0.02	0.352	2.68	0.4	0.48	5.58	0.005	0.02
274576		14.85	0.023	5.50	0.001	<0.001	4.51	<0.001	0.01	0.201	1.965	0.4	0.47	5.45	<0.005	0.02
274577		14.20	0.027	4.85	0.001	<0.001	3.81	<0.001	0.02	0.111	2.04	0.5	0.35	6.39	<0.005	0.02
274578		14.25	0.019	4.30	0.001	<0.001	3.33	<0.001	0.01	0.169	2.45	0.4	0.34	5.30	<0.005	<0.01
274579		7.86	0.023	3.24	0.001	<0.001	3.80	<0.001	0.01	0.099	1.305	0.3	0.21	5.97	<0.005	<0.01
274580		8.19	0.031	3.73	<0.001	0.001	3.30	<0.001	<0.01	0.058	1.065	0.3	0.30	3.89	0.005	0.01
274581		6.21	0.011	4.43	<0.001	<0.001	3.99	<0.001	<0.01	0.076	0.821	0.1	0.39	3.30	<0.005	0.01
227001		9.54	0.018	2.91	0.001	<0.001	2.64	<0.001	<0.01	0.072	2.43	0.4	0.30	13.20	<0.005	<0.01
227002		14.30	0.035	3.12	0.002	0.001	2.53	0.001	0.03	0.079	2.45	0.5	0.33	12.05	<0.005	<0.01
227003		10.35	0.051	3.20	0.001	0.001	3.16	<0.001	<0.01	0.057	2.48	0.3	0.23	12.90	<0.005	<0.01
227004		21.5	0.052	3.49	0.009	0.002	3.43	<0.001	0.01	0.449	8.40	0.5	0.25	12.05	<0.005	0.01



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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 Total# Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-JUN- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16089325

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST 44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	y ppm	Zn ppm	Zr ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
274541		3.14	0.060	0.042	0.301	25.5	0.295	3.22	17.6	1.68
274542		3.07	0.068	0.049	0.364	47.2	0.273	2.58	26.1	3.98
274543		2.78	0.055	0.044	0.323	32.5	0.126	2.31	21.0	1.53
274544		2.82	0.062	0.042	0.289	32.2	0.173	2.36	17.0	2.68
274545		3.11	0.053	0.052	0.410	35.6	0.146	2.10	23.8	1.24
27455 1		2.64	0.022	0.073	0.354	32.5	0.120	2.03	17.0	1.61
274552		3.18	0.077	0.044	0.324	51.9	0.146	1.725	9.4	1.51
274553		3.00	0.039	0.031	0.303	19.5	0.096	2.64	8.7	1.17
274554		2.56	0.060	0.041	0.339	29.2	0.128	2.63	10.5	1.62
274555		3.18	0.078	0.051	0.363	43.4	0.194	2.79	19.2	2.57
274556		2.71	0.071	0.053	0.400	31.6	0.175	3.93	15.4	1.86
274557		3.29	0.059	0.040	0.363	25.2	0.100	3.17	17.0	2.06
274558		2.55	0.041	0.033	0.350	16.7	0.095	5.67	8.1	1.47
274559		3.21	0.049	0.034	0.375	21.3	0.123	3.15	12.4	1.42
274560		4.15	0.057	0.032	0.421	23.5	0.172	5.51	9.6	1.72
274561		2.51	0.076	0.047	0.340	41.3	0.205	2.15	18.0	2.40
274562		3.43	0.064	0.031	0.371	28.4	0.162	2.99	11.2	3.60
274563		3.82	0.067	0.053	0.418	26.5	0.142	2.91	16.6	2.49
274564		4.02	0.061	0.039	0.443	36.0	0.201	3.47	14.9	3.46
274565		6.72	0.066	0.040	0.495	54.3	0.424	3.45	17.3	2.37
274566		3.10	0.060	0.061	0.303	36.2	0.200	2.48	20.4	2.28
274567		3.08	0.042	0.085	0.509	55.3	0.163	6.26	43.6	1.66
274568		2.58	0.052	0.034	0.298	32.7	0.173	2.38	14.2	1.98
274569		3.09	0.078	0.042	0.402	37.1	0.140	3.01	13.6	2.34
274570		2.34	0.044	0.074	0.397	74.4	0.081	2.02	23.6	3.62
274571		3.32	0.053	0.040	0.366	27.8	0.141	2.68	12.2	1.79
274572		3.83	0.070	0.057	0.428	27.3	0.118	3.09	18.5	1.89
274573		3.14	0.051	0.034	0.327	23.7	0.141	2.83	33.1	1.82
274574		2.76	0.060	0.045	0.324	41.4	0.172	4.00	20.1	2.15
274575		3.60	0.061	0.057	0.428	43.2	0.263	2.42	22.4	3.81
274576		3.65	0.062	0.053	0.371	37.8	0.175	2.17	20.8	3.79
274577		3.71	0.069	0.049	0.419	34.1	0.251	2.92	15.9	3.09
274578		3.29	0.055	0.043	0.351	30.8	0.153	3.47	18.9	3.12
274579		2.38	0.041	0.031	0.392	20.3	0.112	3.34	13.4	0.85
274580		2.04	0.042	0.025	0.224	22.4	0.106	1.930	10.8	2.08
22700 1		1.755	0.069	0.026	0.185	30.9	0.116	1.170	10.2	2.10
22700 2		3.58	0.056	0.042	0.394	19.1	0.092	5.73	9.5	2.20
227002		1.695	0.045	0.054	0.520	19.4	0.171	6.73	14.9	0.82
227003		3.74	0.054	0.056	0.412	26.5	0.135	7.77	11.7	1.57
227004		3.08	0.044	0.039	0.371	28.4	0.235	10.05	22.5	1.81

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



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	WEI- 21	AuME-ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME-ST44	AuME- ST44	AuME-ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
227005		1.58	0.0008	0.018	0.65	2.21	10	19.2	0.23	0.049	0.21	0.023	34.9	6.39	21.0	0.276
227006		0.99	0.0019	0.027	0.90	2.45	20	25.9	0.31	0.051	8.30	0.039	37.4	7.05	26.2	0.364
227007		2.51	0.0010	0.025	0.44	1.48	10	20.3	0.23	0.039	0.61	0.028	35.5	4.07	21.2	0.155
227008		1.15	0.0031	0.019	0.55	2.10	10	17.5	0.18	0.045	0.25	0.016	33.3	4.50	21.6	0.273
227009		1.23	0.0030	0.024	0.95	2.19	10	19.5	0.28	0.048	0.16	0.014	46.9	8.13	38.7	0.454
227010		1.54	0.0029	0.029	0.75	4.40	10	25.8	0.22	0.063	0.30	0.011	36.5	5.72	24.0	0.470
227011		1.13	0.0046	0.017	0.54	1.40	10	24.3	0.22	0.028	0.28	0.010	34.2	3.35	15.75	0.249
227012		1.36	0.0175	0.161	1.32	12.15	10	48.3	0.33	0.176	0.36	0.023	39.3	13.45	36.7	2.69
227013		1.43	0.0007	0.017	0.83	2.84	10	22.5	0.34	0.062	0.21	0.028	22.5	7.58	20.8	0.316
227014		1.78	0.0028	0.030	2.06	6.09	10	42.2	0.73	0.125	0.31	0.069	61.2	15.25	50.9	1.055
227015		1.33	0.0314	0.021	1.40	4.84	10	34.1	0.40	0.058	0.33	0.038	27.4	10.55	44.6	0.552
227016		2.32	0.0018	0.033	0.86	1.43	10	48.6	0.25	0.039	0.44	0.047	29.9	5.81	27.1	1.380
227017		1.18	0.0016	0.023	1.38	8.27	10	30.4	0.34	0.095	0.14	0.029	39.8	13.05	33.3	0.705
227018		1.09	0.0075	0.051	0.91	5.74	20	30.4	0.28	0.175	7.53	0.071	51.0	11.95	53.3	0.990
227019		1.75	0.0013	0.040	0.59	3.65	20	24.2	0.22	0.090	8.40	0.061	35.0	6.99	25.8	0.568
227020		1.62	0.0156	0.017	1.17	22.4	10	38.9	0.26	0.306	0.22	0.037	41.7	14.75	39.3	0.492
227021		1.10	0.0016	0.025	0.53	1.79	10	21.7	0.23	0.043	0.49	0.038	44.6	3.89	21.4	0.224
227022		1.62	0.0015	0.038	0.92	3.22	10	23.8	0.36	0.084	0.60	0.044	49.5	9.54	34.3	0.482
227023		1.54	0.0039	0.020	1.62	26.3	10	49.0	0.34	0.148	0.22	0.027	36.5	12.70	45.3	0.780
227024		1.06	0.0024	0.049	0.68	5.52	10	60.3	0.24	0.053	0.33	0.027	39.9	4.67	23.7	0.470
227025		1.78	0.0040	0.023	0.55	3.71	10	27.2	0.20	0.044	0.34	0.010	35.9	2.97	20.6	0.393
227026		1.32	0.0008	0.022	0.71	2.37	10	25.4	0.31	0.053	0.48	0.041	51.8	5.88	25.6	0.329
227027		1.65	0.0036	0.040	0.78	4.47	10	38.8	0.25	0.073	0.47	0.037	42.6	7.41	30.2	0.355
227028		0.77	0.0042	0.034	1.54	23.1	10	37.4	0.39	0.170	0.19	0.021	45.2	14.95	50.0	0.731
227029		0.89	0.0060	0.048	1.65	7.21	10	59.0	0.31	0.101	0.15	0.026	26.9	13.40	44.5	0.954
227030		0.66	0.0260	0.051	1.15	7.54	10	27.5	0.28	0.107	0.18	0.026	30.5	9.47	26.1	0.731
227031		0.82	0.0202	0.035	1.53	32.9	10	44.8	0.42	0.246	0.31	0.069	52.1	15.55	45.4	0.959
227032		1.10	0.0038	0.015	0.80	3.78	10	19.2	0.22	0.051	0.22	0.015	37.3	4.99	23.6	0.582
227033		0.74	0.0099	0.036	0.97	10.90	10	36.8	0.24	0.098	0.20	0.025	31.4	9.01	32.8	0.412
227051		0.94	0.0057	0.070	1.40	21.4	10	58.0	0.32	0.192	0.28	0.017	35.9	11.40	44.4	0.521
227052		1.09	0.0041	0.085	0.59	2.90	10	25.6	0.17	0.102	0.29	0.021	33.7	5.43	20.9	0.880
227053		1.16	0.0096	0.113	1.28	10.95	10	45.9	0.34	0.150	0.42	0.162	37.4	9.08	33.3	1.825
227054		1.12	0.0028	0.067	0.70	5.16	10	26.7	0.19	0.083	0.34	0.033	36.6	6.82	23.7	0.747
227055		1.03	0.0017	0.018	1.01	4.55	10	26.4	0.22	0.067	0.14	0.025	37.0	7.44	22.1	0.456
227056		1.30	0.0192	0.098	1.65	12.60	10	57.1	0.32	0.326	0.11	0.029	33.4	16.30	41.9	1.020
227057		0.91	0.0232	0.088	1.18	5.87	10	55.8	0.27	0.128	0.14	0.021	35.1	10.40	33.4	1.045
227058		1.08	0.0164	0.091	0.90	3.01	10	43.9	0.26	0.098	0.21	0.019	43.1	6.66	28.8	0.903
227059		1.43	0.0024	0.066	0.61	5.19	10	17.3	0.22	0.083	0.22	0.034	41.8	5.64	24.0	0.706
227060		1.12	0.0019	0.057	1.07	4.17	10	27.6	0.27	0.065	0.17	0.018	44.1	7.06	27.0	0.743
227061		1.42	0.0062	0.067	1.20	7.35	10	27.6	0.28	0.126	0.20	0.020	22.9	8.99	28.3	0.669



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CERTIFICATE OF ANALYSIS

TB16089325

Sample Description	Method	Au ME- ST44	AuME- ST44	Au ME- ST44	AuM E- ST44	AuME- ST44	AuME- ST44	AuM E- ST44	AuME- ST44	AuM E- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
227005		12.20	1.340	2.06	0.053	0.080	0.007	0.009	0.04	14.05	5.7	0.19	177.0	0.16	0.024	0.952
227006		16.60	1.900	3.34	0.066	0.034	0.027	0.015	0.07	21.0	12.4	3.09	202	0.17	0.024	0.566
227007		5.69	1.490	2.02	0.096	0.051	0.011	0.009	0.05	28.8	5.0	0.28	205	0.15	0.030	0.524
227008		6.15	1.390	1.960	0.056	0.097	0.005	0.009	0.04	14.05	4.5	0.17	145.5	0.16	0.026	1.090
227009		28.1	1.760	3.14	0.064	0.191	<0.004	0.009	0.03	21.2	8.5	0.37	135.5	0.21	0.025	0.697
227010		40.3	1.540	2.70	0.055	0.068	0.020	0.008	0.05	17.00	6.6	0.30	133.0	0.32	0.025	0.599
227011		10.45	1.050	2.01	0.054	0.089	0.017	0.008	0.05	15.00	5.0	0.18	98.4	0.30	0.025	0.687
227012		165.5	2.81	4.27	0.078	0.049	0.053	0.026	0.06	22.3	12.3	0.64	276	1.51	0.020	0.581
227013		11.20	1.690	2.40	0.038	0.119	0.005	0.009	0.05	11.05	9.3	0.28	131.5	0.23	0.028	1.150
227014		17.05	3.19	5.34	0.115	0.049	0.047	0.029	0.12	28.7	23.1	0.62	263	0.64	0.028	1.995
227015		7.67	3.29	5.69	0.060	0.065	<0.004	0.014	0.07	13.10	21.7	0.68	254	0.48	0.020	0.960
227016		14.95	1.460	3.40	0.051	0.084	0.020	0.008	0.05	14.65	11.9	0.40	137.5	0.18	0.031	1.910
227017		41.9	2.07	3.38	0.041	0.139	0.019	0.012	0.04	11.05	10.0	0.48	164.5	0.31	0.011	0.728
227018		38.5	3.88	4.61	0.120	0.094	0.018	0.013	0.11	26.6	15.3	2.98	410	0.26	0.024	0.664
227019		24.3	2.00	2.54	0.072	0.022	0.024	0.009	0.07	17.15	10.8	3.11	412	0.24	0.018	0.531
227020		66.8	2.46	3.81	0.072	0.107	0.059	0.023	0.05	25.2	11.9	0.53	187.0	0.29	0.022	0.215
227021		5.78	1.460	2.06	0.073	0.045	0.009	0.005	0.05	19.05	5.0	0.29	157.0	0.13	0.026	1.055
227022		26.7	2.28	3.97	0.090	0.048	0.016	0.011	0.07	30.5	12.4	0.52	195.5	0.17	0.025	0.868
227023		62.0	2.63	3.83	0.051	0.074	0.045	0.023	0.05	13.85	13.5	0.57	275	0.54	0.012	0.776
227024		24.1	1.540	2.48	0.071	0.030	0.021	0.012	0.05	20.5	7.2	0.21	210	0.19	0.020	1.045
227025		25.4	1.300	2.19	0.065	0.061	0.038	0.007	0.04	19.20	5.3	0.18	94.0	0.34	0.019	0.808
227026		10.00	1.740	2.74	0.102	0.038	0.011	0.007	0.08	35.4	8.0	0.35	287	0.22	0.032	1.020
227027		13.55	1.740	3.13	0.062	0.012	0.018	0.010	0.05	17.40	8.2	0.39	368	0.27	0.026	0.826
227028		51.3	2.77	4.02	0.043	0.064	0.029	0.020	0.05	13.80	13.3	0.50	303	0.47	0.015	1.095
227029		31.0	2.51	4.96	0.038	0.133	0.006	0.018	0.04	13.25	16.2	0.46	165.5	0.49	0.016	0.867
227030		48.4	1.930	2.94	0.045	0.083	0.022	0.018	0.04	11.20	9.5	0.33	174.0	0.99	0.014	1.260
227031		67.6	3.32	4.28	0.060	0.110	0.033	0.022	0.04	19.10	15.7	0.46	298	0.72	0.017	1.265
227032		9.85	1.370	2.19	0.058	0.051	0.013	0.008	0.04	13.60	6.6	0.21	89.2	0.20	0.017	1.425
227033		41.1	1.950	3.29	0.055	0.056	0.064	0.011	0.04	19.00	10.5	0.39	242	0.38	0.018	0.393
227051		40.2	2.68	4.32	0.048	0.084	0.043	0.015	0.07	18.65	16.6	0.63	256	0.58	0.018	0.196
227052		113.5	1.530	2.17	0.053	0.033	0.011	0.008	0.05	14.35	6.4	0.25	251	1.47	0.025	0.707
227053		78.1	2.37	4.16	0.063	0.081	0.044	0.020	0.07	17.80	11.5	0.54	284	0.88	0.036	0.705
227054		48.2	1.880	2.76	0.069	0.033	0.020	0.010	0.05	15.85	6.4	0.38	248	1.53	0.041	0.824
227055		23.5	1.430	2.68	0.044	0.105	0.015	0.011	0.04	11.10	7.5	0.28	159.0	0.29	0.013	1.120
227056		79.6	3.03	4.63	0.051	0.170	0.036	0.024	0.04	12.55	18.3	0.59	287	0.71	0.015	0.694
227057		60.7	2.27	3.42	0.051	0.086	0.022	0.014	0.04	12.20	11.4	0.40	194.5	0.68	0.011	0.951
227058		82.2	2.18	3.09	0.057	0.058	0.029	0.013	0.03	18.05	7.5	0.22	195.0	0.92	0.012	0.881
227059		25.9	1.630	2.04	0.063	0.046	0.019	0.012	0.03	13.75	5.4	0.20	170.5	0.36	0.018	1.045
227060		18.05	1.560	3.02	0.049	0.111	0.012	0.010	0.04	13.10	8.6	0.29	151.5	0.48	0.016	1.345
227061		80.7	2.11	3.60	0.038	0.067	0.018	0.015	0.03	9.70	10.0	0.45	257	0.72	0.015	0.742



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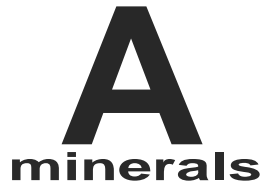
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CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.01	
22700 5		16.25	0.038	2.86	<0.001	<0.001	3.26	<0.001	<0.01	0.094	2.01	0.3	0.29	10.50	<0.005	<0.01
227006		15.60	0.053	3.30	<0.001	0.001	5.42	<0.001	0.01	0.078	3.89	0.4	0.36	55.0	<0.005	0.01
22700 7		8.78	0.043	2.83	0.001	0.001	2.50	<0.001	<0.01	0.087	2.87	0.4	0.24	14.15	<0.005	<0.01
22700 8		9.84	0.046	2.78	0.001	0.001	3.39	<0.001	<0.01	0.101	1.795	0.2	0.29	11.30	<0.005	<0.01
227 00 9		21.3	0.005	2.60	0.001	0.001	2.27	<0.001	<0.01	0.081	2.49	0.5	0.33	8.10	<0.005	<0.01
227 010		14.60	0.038	3.18	0.002	0.001	3.65	<0.001	<0.01	0.140	3.62	0.4	0.30	14.60	<0.005	<0.01
2270 11		7.72	0.051	2.47	0.002	<0.001	2.74	<0.001	<0.01	0.065	2.22	0.4	0.27	12.55	<0.005	<0.01
22701 2		32.6	0.049	4.53	0.003	0.001	5.08	<0.001	<0.01	0.679	8.05	0.7	0.27	17.05	<0.005	0.03
2270 1 3		14.35	0.029	3.21	0.001	<0.001	3.54	<0.001	<0.01	0.079	2.01	0.3	0.28	11.40	<0.005	<0.01
227014		31.8	0.069	6.25	<0.001	<0.001	16.40	<0.001	0.02	0.348	4.82	0.5	0.65	14.55	<0.005	0.01
227 01 5		24.1	0.042	4.58	<0.001	0.001	7.58	<0.001	0.01	0.162	4.07	0.3	0.54	12.40	<0.005	0.01
22701 6		14.85	0.039	3.49	0.003	0.001	4.36	0.001	0.04	0.119	3.11	0.5	0.41	14.05	<0.005	<0.01
227017		28.2	0.028	6.42	0.001	0.001	4.49	<0.001	<0.01	0.689	2.83	0.3	0.24	7.66	<0.005	0.01
227018		22.2	0.065	8.26	0.001	0.001	10.20	<0.001	0.01	0.200	3.59	0.4	0.44	49.4	<0.005	0.04
22701 9		12.90	0.045	5.28	0.003	0.001	7.56	<0.001	0.01	0.112	3.15	0.3	0.25	49.2	<0.005	0.01
2270 20		35.1	0.021	4.76	0.002	<0.001	3.11	<0.001	<0.01	0.653	7.65	0.5	0.28	13.40	<0.005	0.02
22 70 2 1		8.04	0.046	3.06	0.001	<0.001	4.11	<0.001	<0.01	0.075	2.27	0.4	0.31	12.15	<0.005	<0.01
227 02 2		19.20	0.052	4.19	0.002	0.001	6.93	<0.001	<0.01	0.123	4.07	0.5	0.39	14.80	<0.005	<0.01
22 702 3		41.5	0.045	5.27	0.002	<0.001	4.25	<0.001	0.01	1.155	3.46	0.6	0.21	11.70	<0.005	0.01
22 7024		11.05	0.047	3.77	0.002	<0.001	4.81	<0.001	<0.01	0.232	3.56	0.4	0.36	14.30	<0.005	0.02
227 025		7.38	0.063	2.92	0.001	<0.001	2.75	<0.001	<0.01	0.191	2.89	0.4	0.29	14.15	<0.005	<0.01
22 702 6		12.20	0.045	3.99	0.001	0.001	5.89	<0.001	<0.01	0.090	3.70	0.5	0.34	15.85	<0.005	<0.01
2270 27		15.00	0.070	3.47	<0.001	0.001	3.52	<0.001	0.01	0.413	3.29	0.6	0.31	16.50	<0.005	<0.01
227028		42.7	0.038	6.75	<0.001	0.001	5.80	<0.001	0.01	1.200	3.62	0.5	0.31	10.65	<0.005	0.01
2270 29		31.6	0.007	5.22	<0.001	0.001	4.17	<0.001	0.01	0.445	3.60	0.3	0.37	11.15	<0.005	<0.01
227030		19.00	0.040	3.96	<0.001	0.001	4.57	<0.001	0.01	0.440	2.62	0.5	0.31	9.45	<0.005	0.02
227031		33.0	0.026	8.05	0.002	<0.001	4.14	<0.001	0.01	1.155	4.76	0.6	0.33	14.75	<0.005	0.04
227032		12.45	0.047	3.13	<0.001	0.001	3.54	<0.001	0.01	0.181	1.850	0.5	0.28	9.91	<0.005	0.01
227 0 33		23.8	0.024	4.02	0.003	<0.001	3.04	<0.001	<0.01	0.447	4.63	0.3	0.26	9.77	<0.005	0.02
227051		40.7	0.049	5.51	0.001	<0.001	5.45	<0.001	<0.01	0.587	4.97	0.3	0.27	24.0	<0.005	0.03
22 70 52		12.50	0.054	2.73	0.002	<0.001	3.01	<0.001	<0.01	0.132	2.91	0.1	0.23	10.75	<0.005	0.03
22 7053		28.6	0.060	4.88	0.003	0.001	5.19	<0.001	0.03	0.360	5.11	0.2	0.34	17.85	<0.005	0.01
227054		14.25	0.055	3.86	0.001	0.002	3.06	<0.001	0.02	0.204	2.90	0.1	0.25	13.30	<0.005	0.01
227055		14.90	0.030	4.13	0.001	<0.001	3.85	<0.001	<0.01	0.146	1.850	0.3	0.29	7.76	<0.005	0.01
2270 56		37.1	0.022	7.90	<0.001	0.001	4.95	<0.001	0.01	0.907	4.21	0.4	0.21	8.77	<0.005	0.04
227057		22.5	0.029	11.80	<0.001	<0.001	3.99	<0.001	<0.01	0.330	2.45	0.5	0.27	7.15	<0.005	0.04
227058		13.75	0.037	4.59	0.001	0.001	4.00	<0.001	<0.01	0.129	4.57	0.5	0.33	9.13	<0.005	0.02
227 059		10.75	0.049	3.48	<0.001	0.001	2.76	<0.001	<0.01	0.139	2.15	0.5	0.27	8.95	<0.005	0.03
227060		16.15	0.024	4.36	<0.001	0.001	4.25	<0.001	<0.01	0.159	2.16	0.4	0.36	8.80	<0.005	0.01
227061		22.8	0.008	3.88	0.002	0.001	2.49	<0.001	<0.01	0.378	3.99	0.3	0.28	9.32	<0.005	0.04



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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Project: Greenstone Gold Mines Soil Sam

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Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Th	Ti	Ti	U	V	w	y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
227005		4.78	0.058	0.038	0.430	22.9	0.148	5.10	10.4	3.97
227006		4.14	0.067	0.065	0.476	26.3	0.168	9.86	28.7	1.63
227007		4.85	0.055	0.042	0.486	25.6	0.158	13.25	10.6	2.77
227008		5.13	0.061	0.037	0.476	25.7	0.125	4.86	9.3	4.33
227009		5.56	0.090	0.050	0.539	31.4	0.171	6.66	15.0	7.93
227010		4.62	0.066	0.046	0.460	24.9	0.155	7.87	14.9	3.60
227011		3.61	0.059	0.047	0.418	18.4	0.101	6.52	9.8	4.84
227012		3.94	0.061	0.060	0.497	39.7	0.204	11.30	33.0	2.36
227013		3.83	0.061	0.027	0.414	20.7	0.193	4.14	19.3	4.04
227014		9.21	0.116	0.076	1.000	42.6	0.252	11.30	51.8	1.98
227015		4.21	0.118	0.040	0.530	41.8	0.240	6.94	35.0	3.22
227016		4.18	0.080	0.038	0.758	22.5	0.224	6.00	25.1	3.29
227017		4.68	0.060	0.066	0.437	30.1	0.129	3.25	24.9	5.65
227018		10.05	0.105	0.151	0.794	66.1	0.567	9.52	46.2	5.52
227019		4.28	0.059	0.098	0.528	31.7	0.167	8.56	24.0	1.62
227020		4.71	0.059	0.053	0.590	33.5	0.104	10.00	32.3	5.81
227021		4.69	0.057	0.036	0.458	26.1	0.143	6.73	11.7	2.32
227022		5.87	0.076	0.105	0.539	33.9	0.195	11.20	28.9	2.17
227023		3.34	0.037	0.073	0.723	31.0	0.107	4.62	34.1	3.24
227024		4.53	0.055	0.049	0.839	24.1	0.133	10.15	17.3	1.42
227025		4.99	0.063	0.027	0.613	24.2	0.170	10.45	9.8	2.89
227026		4.76	0.069	0.065	0.539	29.1	0.156	11.20	17.6	2.06
227027		2.72	0.061	0.040	0.762	27.7	0.131	7.82	20.2	0.63
227028		3.98	0.049	0.081	0.480	33.6	0.129	4.56	29.8	2.60
227029		3.85	0.053	0.063	0.406	39.3	0.099	3.44	25.6	5.34
227030		3.85	0.055	0.052	0.409	28.1	0.140	3.80	22.8	3.41
227031		5.33	0.053	0.072	1.000	41.1	0.204	7.97	32.1	4.93
227032		4.45	0.059	0.050	0.459	24.0	0.120	4.10	11.5	2.77
227033		4.21	0.053	0.054	0.543	29.9	0.108	8.68	23.8	3.23
227051		4.85	0.040	0.054	0.488	34.0	0.103	7.60	35.7	4.56
227052		3.47	0.048	0.041	0.441	27.6	0.178	7.39	13.4	1.39
227053		4.23	0.056	0.063	0.456	29.1	0.119	8.66	29.9	4.08
227054		3.87	0.061	0.037	0.481	31.9	0.224	7.30	17.8	2.29
227055		4.12	0.056	0.056	0.387	24.2	0.143	3.37	17.6	4.46
227056		4.07	0.043	0.056	0.419	40.2	0.192	4.22	38.9	6.52
227057		5.26	0.050	0.050	0.432	36.2	0.261	3.44	23.8	3.70
227058		6.35	0.054	0.049	0.661	38.8	0.198	7.32	17.5	2.66
227059		4.60	0.055	0.042	0.476	30.0	0.199	5.34	12.4	2.35
227060		4.87	0.071	0.068	0.469	27.9	0.145	4.24	16.6	4.66
227061		3.27	0.053	0.043	0.353	35.6	0.251	4.06	21.3	3.38

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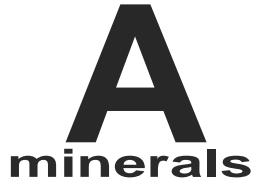
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Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
277062		1.07	0.0046	0.001	1.40	9.45	10	34.5	0.28	0.123	0.12	0.026	26.1	10.90	27.7	0.729

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
277062		36.8	2.05	3.49	0.041	0.169	0.024	0.015	0.04	10.05	10.5	0.36	129.0	0.59	0.013	0.868

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



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 Phone: + 1 (604) 984 0221 Fax : + 1 (604) 984 0218
 www.alsglobal.com

To: GREENSTONE GOLD MINES
 1 35 HARDROCK ROAD
 GERALDTON ON POT 1 MO

Page: 5 - C
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-JUN- 2016
 Account: GGMDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
277062		21.9	0.023	5.29	<0.001	0.001	4.01	<0.001	0.01	0.337	2.48	0.4	0.34	8.05	<0.005	0.03

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



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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

Page: 5 - D
 Total # Pages: 5 (A - D)
 Plus Appendix Pages
 Finalized Date: 26-J UN- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME-ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	y ppm	Zn ppm	Zr ppm
277062		0.002	0.001	0.002	0.00S	0.1	0.001	0.003	0.1	0.01
		4.25	0.065	0.060	0.419	33.7	0.157	3.29	22.7	5.92

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To: GREENSTONE GOLD MINES
135 HARDROCK ROAD
GERALDTON ON POT 1MO

Page: Appendix I
Total# Appendix Pages: 1
Finalized Date: 26-JUN- 2016
Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16089325

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
LOG- 22 PUL- 31 SCR- 41
WEI- 21

SPL- 34

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
AuME- ST44



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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

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 Plus Appendix Pages
 Finalized Date: 21- JUL- 2016
 Account: GGMGDFMX

minerals

CERTIFICATE TB16100882

Project: Greenstone Gold Mines Soil Sam

This report is for 147 Soil samples submitted to our lab in Thunder Bay, ON, Canada on 24- JUN- 2016 .

The following have access to data associated with this certificate:

MICHELE COTE

TOM SALMI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample log in - Red w/o BarCode
SPL-34	Pulp Splitting Charge
PUL-31	Pulverize split to 85% < 75 um
SCR-41	Screen to - I 80um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
AuME- ST44	50g Super Trace Au + Multi Element PKG	ICP- MS
ME-OG46	Ore Grade Elements - AquaRegia	ICP- AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE
ME- MS4 L	Super Trace Lowest DL AR by ICP- MS	

To: **GREENSTONE GOLD MINES**
ATTN: MICHELE COTE
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

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 [Redacted]



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
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 Finalized Date: 21-J UL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
274546		0.38	0.0009	0.042	1.28	2.13	<10	61.0	0.28	0.073	0.10	0.041	13.10	4.39	19.90	0.460
274547		0.31	0.0007	0.104	1.46	3.37	<10	30.2	0.28	0.075	0.06	0.053	18.40	4.41	19.30	0.770
274548		0.38	0.0006	0.020	0.92	2.88	<10	16.3	0.29	0.055	0.11	0.013	15.95	3.72	17.55	0.588
274549		0.36	0.0014	0.028	1.07	1.81	<10	19.4	0.24	0.057	0.13	0.028	11.45	3.26	15.95	0.459
274550		0.36	0.0020	0.007	1.24	2.70	<10	14.1	0.29	0.063	0.06	0.021	14.50	3.96	21.2	0.444
274582		0.50	0.0031	0.026	1.12	6.30	<10	19.7	0.31	0.093	0.12	0.043	20.4	5.44	23.2	0.659
274583		0.44	0.0021	0.053	1.26	5.56	<10	29.7	0.28	0.097	0.06	0.049	23.8	5.04	18.45	0.588
274584		0.45	0.0168	0.058	1.21	7.00	<10	34.1	0.30	0.107	0.12	0.117	16.35	5.57	21.8	1.205
274585		0.58	0.0015	0.045	1.36	5.75	<10	45.3	0.24	0.109	0.14	0.037	16.75	5.67	23.5	0.430
274586		0.56	0.0006	0.035	1.07	3.22	<10	29.0	0.24	0.085	0.12	0.021	17.80	4.21	15.70	0.439
274587		0.39	0.0003	0.012	0.75	1.67	<10	13.4	0.21	0.040	0.17	0.046	20.5	3.79	15.60	0.393
274588		0.49	0.0004	0.007	1.19	2.27	<10	45.3	0.30	0.053	0.08	0.013	11.75	4.90	21.2	0.504
274589		0.43	0.0001	0.007	0.74	1.23	<10	11.8	0.18	0.038	0.14	0.018	19.00	3.92	17.00	0.237
274590		0.40	0.0017	0.107	1.65	5.65	<10	58.5	0.41	0.087	0.13	0.055	23.2	9.60	24.9	1.075
274 59 1		0.50	0.0036	0.045	1.34	3.81	<10	31.1	0.31	0.093	0.15	0.029	15.85	7.25	24.2	0.814
274601		0.42	0.0049	0.108	1.43	4.17	<10	38.6	0.37	0.117	0.07	0.040	13.25	4.66	22.3	1.010
274602		0.39	0.0092	0.334	1.28	3.86	<10	27.6	0.34	0.079	0.09	0.034	16.30	4.90	21.0	1.040
274603		0.37	0.0032	0.096	1.32	3.29	<10	29.6	0.36	0.061	0.10	0.016	15.90	5.18	19.75	0.832
274604		0.44	0.0125	0.163	1.31	2.36	<10	25.4	0.27	0.125	0.06	0.030	11.45	4.19	17.60	1.020
274605		0.32	0.0089	0.045	1.22	5.12	<10	30.1	0.24	0.128	0.12	0.026	13.55	7.86	22.5	0.943
274606		0.36	0.0029	0.083	1.42	6.57	<10	31.6	0.32	0.126	0.07	0.106	11.85	5.90	26.0	0.998
274607		0.45	0.0111	0.385	1.67	5.44	<10	111.0	0.50	0.128	0.42	0.096	27.9	7.83	25.8	2.13
274608		0.29	0.0020	0.072	0.95	1.35	<10	20.1	0.19	0.064	0.09	0.024	12.50	3.13	12.80	0.670
274609		0.22	0.0035	0.100	1.33	3.52	<10	21.3	0.34	0.070	0.17	0.068	20.9	5.01	22.4	0.598
274610		0.17	0.0013	0.008	1.71	3.94	<10	25.1	0.29	0.093	0.07	0.032	12.95	3.90	22.9	0.455
274 6 1 1		0.35	0.0035	0.037	1.24	2.15	<10	30.7	0.25	0.067	0.11	0.036	15.25	4.70	19.35	0.493
274612		0.23	0.0004	0.027	0.86	0.92	<10	28.4	0.25	0.052	0.06	0.059	9.41	2.95	13.75	0.442
274613		0.48	0.0068	0.175	1.87	6.23	<10	54.5	0.34	0.121	0.11	0.147	17.15	7.72	27.6	1.835
2746 1 4		0.46	0.0068	0.016	0.93	1.65	<10	17.1	0.22	0.040	0.13	0.015	27.0	4.47	19.00	0.358
274615		0.62	0.0004	0.016	0.94	1.76	<10	18.6	0.32	0.044	0.12	0.032	15.95	3.98	19.45	0.274
274616		1.65	0.0126	0.076	1.22	2.81	<10	30.3	0.28	0.101	0.09	0.027	19.60	5.15	19.70	0.525
274617		0.53	0.0004	0.009	0.71	1.26	<10	14.9	0.20	0.035	0.13	0.021	28.8	3.27	14.55	0.238
274618		0.65	0.0017	0.018	1.15	2.01	<10	27.5	0.24	0.049	0.09	0.027	20.3	4.34	20.8	0.588
274619		0.43	0.0119	0.069	1.43	5.03	<10	30.7	0.31	0.085	0.11	0.063	30.0	7.92	25.4	1.130
274620		0.68	0.0549	0.088	1.74	6.46	<10	31.0	0.38	0.159	0.34	0.069	27.1	12.20	26.5	1.815
274621		0.49	0.0021	0.020	1.07	1.98	<10	35.8	0.25	0.054	0.07	0.020	22.4	4.56	20.2	0.594
274622		0.52	0.0048	0.027	1.34	4.12	<10	21.8	0.24	0.081	0.06	0.029	10.55	4.26	20.3	0.690
274623		0.56	0.0018	0.019	0.45	1.06	<10	27.2	0.17	0.037	0.26	0.036	29.2	3.02	15.35	0.388
274624		0.47	0.0082	0.022	1.21	3.15	<10	38.7	0.27	0.088	0.15	0.040	21.0	5.09	19.70	0.738
274625		0.58	0.0015	0.046	1.04	3.88	<10	21.8	0.22	0.102	0.11	0.073	17.05	4.94	22.0	0.746



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

Page: 2 - B
 Total# Pages: 5 (A - H)
 Plus Appendix Pages
 Finalized Date: 21-JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines So il Sam

CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
274546		5.74	1.710	3.71	0.024	0.031	0.024	0.014	0.02	6.59	7.5	0.14	57.5	0.45	0.004	1.330
274547		15.65	1.700	3.17	0.018	0.071	0.047	0.016	0.02	7.47	7.3	0.15	64.3	0.47	0.003	1.860
274548		11.05	1.580	2.77	0.041	0.072	0.023	0.011	0.02	7.91	7.3	0.14	57.8	0.36	0.008	1.850
274549		2.68	1.430	3.37	0.019	0.055	0.014	0.011	0.02	5.36	8.3	0.13	42.6	0.40	0.002	1.795
274550		7.74	1.900	3.06	0.033	0.140	0.027	0.010	0.01	6.57	7.7	0.10	35.1	0.70	0.003	2.30
274582		13.95	2.20	3.00	0.047	0.081	0.033	0.015	0.02	9.30	8.6	0.14	79.6	0.49	0.010	1.930
274583		14.25	1.720	4.20	0.025	0.061	0.028	0.017	0.02	9.29	7.4	0.18	65.1	0.54	0.003	1.610
274584		10.45	2.00	4.46	0.022	0.025	0.037	0.017	0.02	8.37	7.6	0.22	91.3	0.36	0.004	1.130
274585		6.29	2.97	6.81	0.021	0.041	0.021	0.028	0.02	8.38	11.4	0.18	60.2	1.35	0.003	2.58
274586		9.57	1.400	4.31	0.019	0.039	0.023	0.011	0.02	8.37	8.9	0.14	53.5	0.50	0.003	1.255
274587		2.85	1.260	2.20	0.026	0.035	0.009	0.008	0.02	7.32	6.8	0.15	58.5	0.21	0.003	1.330
274588		3.67	1.420	2.74	0.035	0.090	0.014	0.008	0.02	6.03	9.8	0.16	56.7	0.30	0.004	1.380
274589		2.13	1.180	1.995	0.028	0.052	0.012	0.009	0.02	7.85	6.0	0.16	70.7	0.15	0.004	1.055
274590		35.0	2.11	4.14	0.042	0.073	0.029	0.012	0.03	9.19	11.3	0.24	80.3	0.61	0.005	1.550
27459 1		21.3	2.03	3.91	0.041	0.061	0.022	0.013	0.02	7.82	9.3	0.28	99.1	0.52	0.005	1.425
2746 01		14.15	2.08	4.20	0.036	0.069	0.037	0.013	0.03	6.58	11.2	0.17	67.4	0.85	0.004	1.900
274602		21.6	1.740	2.95	0.040	0.064	0.039	0.009	0.02	7.60	10.3	0.18	67.6	1.57	0.010	1.515
274603		4.75	1.470	2.85	0.048	0.072	0.032	0.011	0.02	6.97	10.1	0.13	51.1	0.67	0.010	1.855
274604		13.45	1.830	4.05	0.019	0.050	0.027	0.008	0.02	5.59	7.7	0.15	82.0	0.97	0.003	1.635
274605		33.2	2.28	4.07	0.046	0.057	0.023	0.016	0.02	6.59	11.3	0.38	122.0	1.13	0.005	1.490
274606		24.1	2.50	4.77	0.023	0.043	0.058	0.017	0.02	5.75	8.4	0.23	95.6	0.85	0.003	1.420
274607		37.1	1.820	4.00	0.039	0.071	0.065	0.025	0.03	13.35	13.6	0.22	993	1.79	0.005	0.799
274608		7.15	1.050	2.83	0.021	0.035	0.017	0.007	0.02	6.23	7.2	0.14	61.7	0.40	0.003	1.170
274609		8.24	1.880	3.60	0.032	0.084	0.039	0.012	0.02	8.09	10.2	0.15	53.7	0.61	0.004	2.03
274610		5.55	2.28	4.20	0.020	0.124	0.031	0.016	0.01	5.99	9.4	0.11	34.0	0.63	0.003	2.53
274611		5.44	1.710	3.52	0.029	0.045	0.024	0.017	0.02	6.59	9.2	0.16	61.6	0.47	0.003	1.630
27461 2		2.17	1.180	2.53	0.031	0.021	0.023	0.010	0.01	4.24	6.0	0.10	445	0.23	0.002	0.907
274613		19.05	2.42	3.91	0.044	0.097	0.038	0.016	0.02	7.92	12.4	0.19	63.0	1.97	0.004	2.07
2746 1 4		3.32	1.260	2.00	0.034	0.082	0.015	0.010	0.02	7.90	6.7	0.16	73.5	0.23	0.003	1.205
2746 1 5		4.00	1.430	2.61	0.028	0.040	0.021	0.009	0.02	7.65	7.8	0.17	59.7	0.13	0.002	1.000
274616		21.8	1.560	3.57	0.029	0.050	0.032	0.015	0.02	8.99	8.2	0.18	77.8	0.52	0.003	1.225
274617		2.76	1.040	1.880	0.032	0.039	0.013	0.008	0.01	6.40	5.3	0.15	79.8	0.14	0.002	0.872
274618		9.93	1.340	2.51	0.032	0.086	0.025	0.011	0.02	8.60	7.0	0.17	56.7	0.19	0.003	1.525
274619		33.6	1.910	3.45	0.028	0.081	0.039	0.017	0.02	8.47	7.8	0.27	88.5	0.39	0.003	1.315
274620		62.4	2.52	3.72	0.039	0.039	0.064	0.025	0.02	9.81	12.0	0.36	323	1.06	0.004	1.070
274621		9.25	1.250	2.41	0.025	0.070	0.032	0.014	0.01	9.46	6.1	0.15	47.8	0.23	0.002	1.355
274622		15.85	2.02	3.50	0.022	0.073	0.029	0.012	0.01	5.39	8.8	0.20	61.6	1.49	0.001	1.375
274623		16.65	0.710	1.740	0.050	0.047	0.032	<0.005	0.02	15.55	5.4	0.16	50.1	0.19	0.004	0.674
274624		11.30	1.970	4.51	0.031	0.047	0.017	0.010	0.02	9.51	9.5	0.19	74.5	0.62	0.004	1.850
274625		11.65	2.17	4.95	0.026	0.047	0.021	0.012	0.02	7.05	7.6	0.21	75.0	0.77	0.003	1.635



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Project : Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
274546		9.86	0.029	4.83	<0.001	<0.001	3.84	<0.001	<0.01	0.066	1.275	0.2	0.42	6.21	<0.005	0.02
274547		9.77	0.029	5.29	<0.001	0.001	2.50	<0.001	0.01	0.103	1.345	0.4	0.36	3.26	0.006	0.02
274548		9.56	0.032	4.24	0.001	0.001	2.75	<0.001	0.02	0.059	1.425	0.2	0.33	4.87	<0.005	0.01
274549		7.85	0.034	4.56	<0.001	<0.001	2.65	<0.001	<0.01	0.042	1.025	0.1	0.34	4.53	0.005	<0.01
274550		7.55	0.014	5.25	0.001	0.001	1.645	<0.001	0.01	0.076	1.495	0.3	0.35	2.91	0.008	0.02
274582		11.50	0.037	4.88	0.001	<0.001	2.37	<0.001	0.02	0.325	1.615	0.4	0.31	4.37	0.007	0.01
274583		10.30	0.018	5.74	0.001	0.001	3.44	<0.001	0.01	0.132	1.625	0.2	0.47	3.89	<0.005	0.02
274584		13.15	0.037	5.10	<0.001	0.001	5.84	<0.001	0.01	0.195	1.675	0.2	0.47	5.74	<0.005	0.02
274585		11.35	0.015	6.48	0.001	0.001	2.09	<0.001	0.01	0.150	1.610	0.1	0.64	6.94	<0.005	0.03
274586		8.66	0.018	4.72	<0.001	0.001	2.04	<0.001	0.01	0.107	1.555	0.2	0.44	5.39	<0.005	0.01
274587		7.79	0.047	3.21	<0.001	<0.001	2.65	<0.001	<0.01	0.043	1.125	0.1	0.27	5.35	<0.005	<0.01
274588		11.65	0.015	4.06	<0.001	<0.001	3.77	<0.001	0.01	0.078	1.365	0.2	0.31	4.65	<0.005	0.01
274589		7.71	0.037	2.74	<0.001	<0.001	3.06	<0.001	<0.01	0.047	1.235	0.1	0.27	5.02	<0.005	<0.01
274590		17.00	0.025	5.96	0.002	0.001	4.02	<0.001	0.01	0.107	2.13	0.3	0.37	5.38	<0.005	0.02
274591		15.85	0.024	4.52	<0.001	0.001	4.26	<0.001	0.01	0.123	2.01	0.3	0.35	6.56	<0.005	0.01
274601		12.35	0.030	6.32	<0.001	<0.001	4.36	<0.001	0.01	0.167	1.545	0.3	0.38	4.43	<0.005	0.04
274602		12.65	0.035	4.55	<0.001	<0.001	3.71	<0.001	0.02	0.170	1.710	0.3	0.28	4.64	<0.005	0.01
274603		11.20	0.030	4.38	<0.001	<0.001	3.04	<0.001	0.02	0.056	1.540	0.3	0.30	4.70	0.005	<0.01
274604		8.08	0.021	5.86	0.001	0.001	3.46	<0.001	0.01	0.138	1.300	0.3	0.40	4.02	<0.005	0.01
274605		16.20	0.020	5.12	0.002	0.001	3.09	<0.001	0.01	0.172	2.52	0.2	0.33	5.91	<0.005	0.04
274606		12.10	0.030	5.73	<0.001	<0.001	3.71	<0.001	0.01	0.211	1.510	0.2	0.46	4.47	<0.005	0.02
274607		13.35	0.022	7.54	0.001	0.001	7.06	0.001	0.02	0.154	4.73	0.3	0.43	7.87	<0.005	<0.01
274608		5.94	0.010	4.51	<0.001	<0.001	3.53	<0.001	<0.01	0.062	1.055	0.1	0.34	3.85	<0.005	<0.01
274609		10.55	0.032	5.15	<0.001	<0.001	3.04	<0.001	0.01	0.087	1.635	0.4	0.36	6.94	<0.005	0.01
274610		7.87	0.017	6.55	0.001	0.001	1.960	<0.001	0.01	0.115	1.395	0.3	0.44	4.54	0.007	0.01
274611		9.68	0.032	4.82	<0.001	<0.001	3.94	<0.001	<0.01	0.051	1.170	0.1	0.36	5.10	<0.005	0.01
274612		6.34	0.036	3.17	<0.001	<0.001	4.68	<0.001	<0.01	0.047	0.719	0.2	0.27	3.04	<0.005	<0.01
274613		18.20	0.026	6.45	<0.001	<0.001	3.61	<0.001	0.01	0.173	1.690	0.4	0.41	5.43	<0.005	0.03
274614		9.83	0.036	2.94	<0.001	<0.001	2.59	<0.001	<0.01	0.036	1.200	0.1	0.22	4.71	<0.005	<0.01
274615		9.96	0.063	3.35	<0.001	<0.001	3.36	<0.001	<0.01	0.042	1.235	0.2	0.22	4.75	<0.005	<0.01
274616		11.15	0.019	4.69	<0.001	<0.001	3.21	<0.001	<0.01	0.143	1.710	0.2	0.35	5.19	<0.005	<0.01
274617		7.30	0.036	2.52	<0.001	<0.001	2.73	<0.001	<0.01	0.044	1.060	0.1	0.20	5.02	<0.005	<0.01
274618		10.50	0.024	3.79	<0.001	0.001	2.52	<0.001	<0.01	0.059	1.400	0.2	0.30	4.55	<0.005	<0.01
274619		16.35	0.028	5.36	0.001	<0.001	3.73	<0.001	0.01	0.127	2.10	0.3	0.36	5.45	<0.005	0.02
274620		17.75	0.058	6.14	0.001	<0.001	3.43	0.002	0.02	0.290	3.59	0.6	0.27	7.31	<0.005	0.03
274621		9.82	0.023	3.73	<0.001	<0.001	2.65	<0.001	<0.01	0.053	1.305	0.3	0.26	3.23	<0.005	<0.01
274622		10.60	0.020	4.85	<0.001	<0.001	1.985	<0.001	0.01	0.148	1.495	0.3	0.31	3.00	<0.005	<0.01
274623		6.60	0.051	2.57	<0.001	<0.001	2.00	<0.001	<0.01	0.047	1.850	<0.1	0.23	6.92	<0.005	<0.01
274624		10.65	0.021	5.93	0.001	<0.001	3.75	<0.001	<0.01	0.081	1.600	0.2	0.47	7.56	<0.005	<0.01
274625		10.60	0.018	8.04	<0.001	<0.001	2.96	<0.001	<0.01	0.099	1.470	0.1	0.47	5.27	<0.005	0.02



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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

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Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Cu- OG46	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	Au ppm	Ag ppm	Al %	As ppm	B ppm
274546		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01	0.001	0.0002	0.001	0.01	0.01	10
274547		2.23	0.048	0.038	0.237	33.0	0.177	1.540	16.1	1.29						
274548		2.44	0.046	0.042	0.332	27.1	0.167	1.960	14.2	1.92						
274549		2.70	0.058	0.032	0.301	28.6	0.169	2.50	9.8	2.48						
274550		1.885	0.051	0.021	0.231	25.3	0.128	1.710	9.5	1.60						
274582		2.65	0.059	0.030	0.253	31.2	0.150	2.18	6.7	4.07						
274583		3.97	0.060	0.034	0.363	34.3	0.230	2.59	11.7	2.75						
274584		3.08	0.048	0.044	0.344	32.8	0.172	2.23	19.5	1.95						
274585		2.54	0.049	0.050	0.311	36.5	0.170	1.700	90.2	0.99						
274586		2.62	0.071	0.041	0.389	54.5	0.202	1.640	15.6	1.56						
274587		2.38	0.035	0.038	0.283	28.6	0.169	2.07	11.6	1.24						
274588		2.19	0.045	0.021	0.281	21.4	0.173	2.73	10.5	1.11						
274589		2.29	0.052	0.027	0.203	25.4	0.105	1.755	10.6	2.89						
274590		2.68	0.051	0.025	0.284	21.4	0.115	2.61	10.0	1.83						
274591		3.99	0.064	0.051	0.411	37.8	0.176	2.67	25.0	2.43						
274601		2.78	0.070	0.038	0.306	38.2	0.225	2.30	18.9	2.36						
274602		2.52	0.051	0.037	0.281	35.8	0.179	1.515	15.4	2.54						
274603		2.73	0.047	0.042	0.308	26.5	0.163	2.06	13.2	2.23						
274604		2.60	0.053	0.032	0.272	24.4	0.125	2.07	10.7	2.30						
274605		1.995	0.047	0.038	0.229	34.5	0.196	1.235	12.7	1.64						
274606		2.22	0.065	0.039	0.246	41.0	0.223	2.18	19.1	2.36						
274607		1.855	0.058	0.045	0.262	48.6	0.274	1.835	29.1	1.51						
274608		3.08	0.027	0.098	0.457	26.1	0.091	8.41	49.4	1.91						
274609		1.990	0.037	0.038	0.237	18.8	0.092	1.660	9.9	1.03						
274610		2.98	0.066	0.035	0.341	30.7	0.230	2.47	13.2	2.79						
274611		2.60	0.067	0.030	0.248	34.9	0.156	1.610	8.5	3.61						
274612		2.43	0.060	0.031	0.263	29.3	0.126	2.09	11.9	1.77						
274613		1.640	0.033	0.036	0.181	20.3	0.104	1.095	33.5	0.69						
274614		3.14	0.069	0.042	0.334	33.5	0.186	2.13	17.0	3.26						
274615		3.43	0.050	0.030	0.315	22.2	0.119	2.71	9.0	2.92						
274616		3.09	0.044	0.028	0.307	25.8	0.140	2.48	12.9	1.54						
274617		3.35	0.049	0.043	0.361	29.8	0.165	2.32	13.8	1.93						
274618		2.26	0.044	0.026	0.263	18.3	0.080	2.65	8.2	1.45						
274619		3.92	0.062	0.042	0.330	23.4	0.141	2.30	12.2	3.12						
274620		3.98	0.069	0.047	0.354	32.6	0.173	2.60	19.4	3.34						
274621		1.845	0.042	0.052	0.406	34.9	0.191	5.78	31.3	1.32						
274622		3.73	0.056	0.035	0.323	21.4	0.140	2.44	8.8	2.97						
274623		1.765	0.050	0.031	0.233	34.1	0.247	1.810	12.2	2.41						
274624		3.47	0.044	0.049	0.321	15.3	0.113	6.59	9.9	2.21						
274625		2.95	0.076	0.044	0.333	34.8	0.136	2.79	14.1	2.08						
274625		2.42	0.084	0.039	0.266	48.5	0.186	1.845	31.0	1.84						



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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

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Project : Greenstone Gold Mines Soil Sam

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Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41 L	ME-MS41L	ME-MS41 L	ME-MS41L	ME-MS41L	ME-MS41L	
		Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm
274546 274547 274548 274549 274550		0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005	0.01	0.001	0.004	0.005	0.002	0.004
274582 274583 274584 274585 274586																
274587 274588 274589 274590 274591																
274601 274602 274603 274604 274605																
274606 274607 274608 274609 274610																
274611 274612 274613 274614 274615																
274616 274617 274618 274619 274620																
274621 274622 274623 274624 274625																



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CERTIFICATE OF ANALYSIS

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Sample Description	Method Analyte Units LOR	ME- MS41L	ME-MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME-MS41L	ME-MS41L	ME- MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME- MS41L	ME- MS41L	ME- MS41L
		In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm
274546 274547 274548 274549 274550		0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002	0.04	0.001	0.005	0.001	0.002	0.005
274582 274583 274584 274585 274586																
274587 274588 274589 274590 274591																
274601 274602 274603 274604 274605																
274606 274607 274608 274609 274610																
274611 274612 274613 274614 274615																
274616 274617 274618 274619 274620																
274621 274622 274623 274624 274625																

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CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	ME- MS41 L	ME- MS41L	ME- MS41 L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41 L	ME- MS41 L	ME- MS41L	ME- MS41 L	ME- MS41 L	ME- MS41 L
		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
274546 274547 274548 274549 274550		0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01	0.002	0.001	0.002	0.005	0.1
274582 274583 274584 274585 274586															
274587 274588 274589 274590 274591															
274601 274602 274603 274604 274605															
274606 274607 274608 274609 274610															
274611 274612 274613 274614 274615															
274616 274617 274618 274619 274620															
274621 274622 274623 274624 274625															

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To: **GREENSTONE GOLD MINES**
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CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L
		y ppm	Zn ppm	Zr ppm
274546 274547 274548 274549 274550		0.003	0.1	0.01
274582 274583 274584 274585 274586				
274587 274588 274589 274590 27459 1				
274601 274602 274603 274604 274605				
274606 274607 274608 274609 274610				
274611 274612 274613 274614 2746 1 5				
27 461 6 27 4617 27461 8 274619 274620				
274621 274622 274623 27 4624 274625				

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To: **GREENSTONE COLD MINES**
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Sample De scription	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.0001	0.001	0.01	0.01	1.0	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
274626		0.34	0.0005	0.029	1.09	1.75	<10	27.5	0.26	0.054	0.07	0.019	13.70	5.31	19.60	0.513
274627		0.67	0.0022	0.007	0.86	1.69	<10	20.8	0.22	0.045	0.14	0.007	15.95	3.12	16.05	0.404
274628		0.57	0.123	0.076	1.32	3.11	<10	39.2	0.29	0.125	0.11	0.067	15.30	5.37	19.85	1.375
274629		0.52	0.0053	0.019	0.92	1.97	<10	11.6	0.21	0.039	0.11	0.036	29.3	3.82	19.30	0.498
274630		0.62	0.0023	0.062	0.79	2.46	<10	19.8	0.23	0.054	0.11	0.081	15.55	2.74	17.80	0.898
274631		0.47	0.0108	0.060	1.27	4.17	<10	24.2	0.36	0.081	0.16	0.042	47.3	5.21	22.2	1.015
274632		0.42	0.0057	0.068	0.99	3.27	<10	29.1	0.27	0.088	0.14	0.037	15.55	3.91	17.45	0.508
274633		0.51	0.0007	0.008	0.83	1.51	<10	21.7	0.21	0.060	0.21	0.023	16.10	3.44	21.1	0.506
274634		0.52	0.0019	0.007	1.17	1.88	<10	17.3	0.28	0.055	0.13	0.020	21.4	3.99	22.2	0.658
274635		0.78	0.0006	0.012	0.47	1.42	<10	12.1	0.19	0.031	0.20	0.016	25.1	2.86	15.25	0.200
274636		0.66	0.0021	0.018	0.78	1.60	<10	19.2	0.23	0.046	0.24	0.024	28.0	3.15	18.60	0.524
274637		0.57	0.0004	0.013	1.30	2.78	<10	16.2	0.32	0.048	0.13	0.047	18.90	4.02	20.4	0.833
274638		0.82	0.0009	0.064	0.71	2.11	<10	25.8	0.23	0.056	0.25	0.044	26.4	3.56	20.5	0.437
274639		0.60	0.0064	0.030	1.56	3.51	<10	48.4	0.42	0.087	0.11	0.038	24.0	8.02	22.9	0.927
274640		0.43	0.0133	0.081	1.27	4.96	<10	43.2	0.26	0.167	0.11	0.049	19.15	6.50	25.0	0.807
274641		0.48	0.0034	0.121	1.67	2.79	<10	24.3	0.32	0.100	0.09	0.030	20.6	5.14	24.4	0.771
274642		0.59	0.0010	0.032	0.77	1.77	<10	13.7	0.20	0.043	0.10	0.017	23.2	3.51	16.40	0.760
274643		0.36	0.0034	0.100	0.83	3.61	<10	23.2	0.21	0.076	0.15	0.025	15.20	4.05	21.8	0.709
274644		0.44	0.0006	0.057	0.89	2.37	<10	27.8	0.23	0.050	0.16	0.015	22.4	4.15	19.75	0.604
274645		0.39	0.0027	0.095	1.02	2.80	<10	31.7	0.21	0.058	0.09	0.028	22.1	4.26	21.2	0.772
274646		0.47	0.0010	0.052	0.98	1.43	<10	25.0	0.22	0.054	0.11	0.027	23.4	3.42	18.65	0.827
274647		0.36	0.0074	0.046	1.34	2.63	<10	26.6	0.32	0.067	0.07	0.021	17.00	5.22	24.2	0.674
274648		0.38	0.0013	0.064	1.04	2.86	<10	18.9	0.23	0.059	0.08	0.068	15.55	3.56	20.8	0.754
274649		0.32	0.0003	0.030	1.09	1.40	<10	29.4	0.28	0.042	0.17	0.014	20.7	4.49	20.4	0.422
274650		0.35	0.0004	0.008	0.60	2.31	<10	10.6	0.10	0.070	0.08	0.018	10.15	2.09	16.00	0.550
274701		0.32	0.0008	0.160	1.37	7.08	<10	41.6	0.29	0.105	0.13	0.062	17.20	6.28	60.4	1.565
274702		0.33	0.0008	0.034	1.40	0.74	<10	30.8	0.15	0.083	0.05	0.053	9.93	9.59	30.2	1.095
274703		0.37	0.0007	0.063	1.73	5.86	<10	36.2	0.36	0.118	0.10	0.056	18.50	5.61	29.6	0.810
274704		0.53	0.0011	0.008	0.69	1.06	<10	14.4	0.15	0.099	0.07	0.021	15.85	1.465	10.50	0.260
274705		0.27	0.0008	0.016	0.78	1.60	<10	12.9	0.23	0.043	0.11	0.021	18.85	2.78	16.30	0.327
274706		0.35	0.0003	0.004	0.57	1.17	<10	8.4	0.15	0.030	0.10	0.014	13.50	3.05	14.15	0.209
274707		0.32	0.0001	0.033	0.65	3.04	<10	19.8	0.13	0.063	0.09	0.026	11.10	3.43	16.60	0.366
274708		0.26	0.0004	0.045	1.46	4.07	<10	22.1	0.30	0.071	0.08	0.051	17.70	4.42	20.6	0.652
274709		0.32	0.0029	0.067	1.14	2.15	<10	28.8	0.23	0.077	0.08	0.022	18.05	4.28	19.70	0.716
274710		0.53	0.0006	0.010	0.46	1.23	<10	10.4	0.14	0.028	0.15	0.012	23.7	2.63	14.25	0.301
274711		0.42	0.0017	0.014	0.81	2.76	<10	16.4	0.17	0.060	0.09	0.032	14.30	3.42	18.70	0.700
274712		0.46	0.0050	0.023	1.17	3.33	<10	17.6	0.24	0.086	0.11	0.039	20.3	4.94	21.1	0.682
274713		0.56	0.0004	0.012	0.73	1.66	<10	26.1	0.17	0.036	0.12	0.010	13.95	3.22	17.05	0.340
274714		0.30	0.0015	0.023	1.12	2.07	<10	47.4	0.18	0.058	0.05	0.024	13.25	3.69	19.50	0.561
274715		0.29	0.0015	0.015	1.14	2.77	<10	23.1	0.15	0.099	0.08	0.054	17.55	4.22	32.1	0.532

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



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To: GREENSTONE GOLD MINES
 1 35 HARDROCK ROAD
 GERALDTON ON POT 1 MO

Page: 3 - B
 Total# Pages: 5 (A - H)
 Plus Appendix Pages
 Finalized Date: 21-JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME-ST44	AuME-ST44	AuME - ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME-ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
274626		2.51	1.360	2.66	0.027	0.040	0.021	0.007	0.02	5.69	7.1	0.16	118.0	0.32	0.002	1.350
274627		11.90	1.080	2.30	0.029	0.075	0.012	0.005	0.01	7.70	5.1	0.16	48.5	0.22	0.002	0.836
274628		16.35	2.16	5.13	0.024	0.021	0.050	0.012	0.02	7.40	9.9	0.18	214	0.83	0.003	1.395
274629		4.22	1.270	1.845	0.034	0.112	0.023	0.007	0.01	8.39	5.6	0.15	59.4	0.20	0.003	1.510
274630		5.90	1.490	2.94	0.026	0.028	0.024	0.007	0.02	7.45	5.6	0.13	46.3	0.48	0.003	1.600
274631		15.85	1.700	3.29	0.039	0.040	0.032	0.017	0.02	13.20	7.3	0.18	207	0.37	0.004	1.070
274632		5.64	1.590	3.84	0.025	0.025	0.018	0.008	0.02	7.75	8.3	0.15	72.1	0.37	0.003	1.340
274633		6.77	1.670	3.33	0.024	0.030	0.009	0.011	0.02	7.75	7.5	0.18	79.6	0.21	0.003	1.210
274634		39.4	1.450	3.16	0.028	0.061	0.024	0.012	0.02	8.05	6.6	0.19	79.8	0.28	0.003	1.305
274635		7.62	0.930	1.720	0.042	0.024	0.013	0.006	0.01	12.60	4.8	0.15	155.0	0.11	0.003	0.484
274636		9.20	1.040	2.58	0.033	0.028	0.011	0.008	0.02	13.25	6.1	0.16	70.4	0.08	0.003	0.800
274637		8.08	1.470	2.35	0.026	0.095	0.034	0.018	0.01	7.60	8.6	0.14	89.0	0.68	0.002	1.545
274638		10.40	1.230	2.59	0.039	0.051	0.016	0.010	0.02	13.50	8.5	0.19	97.0	0.16	0.004	0.706
274639		20.1	1.770	3.39	0.043	0.119	0.043	0.019	0.03	9.06	11.2	0.24	85.5	0.50	0.005	1.575
274640		11.25	2.26	4.63	0.028	0.053	0.039	0.022	0.03	8.25	10.1	0.26	160.5	1.23	0.003	1.945
274641		8.31	1.630	3.02	0.024	0.096	0.033	0.021	0.02	7.75	9.0	0.15	53.8	1.65	0.003	2.38
274642		24.0	1.030	2.16	0.046	0.067	0.022	0.005	0.02	10.30	7.5	0.16	57.2	0.28	0.005	1.240
274643		6.83	1.750	3.48	0.026	0.038	0.015	0.017	0.02	7.76	8.6	0.18	69.3	1.74	0.002	2.04
274644		9.35	1.300	2.51	0.033	0.089	0.010	0.009	0.02	8.10	7.1	0.17	72.4	0.32	0.003	1.465
274645		8.07	1.370	2.75	0.021	0.067	0.022	0.010	0.02	7.77	7.5	0.17	72.5	0.45	0.003	1.975
274646		5.81	1.230	2.89	0.030	0.040	0.020	0.006	0.02	10.50	7.2	0.16	59.2	0.31	0.003	1.390
274647		9.65	1.560	3.25	0.039	0.105	0.027	0.012	0.02	7.42	9.3	0.15	52.8	0.39	0.005	1.690
274648		4.92	1.470	2.76	0.025	0.071	0.024	0.010	0.02	6.55	8.4	0.15	53.3	1.00	0.002	2.15
274649		2.31	1.280	2.31	0.031	0.045	0.021	0.013	0.02	8.36	7.5	0.16	59.8	0.23	0.003	1.545
274650		9.27	1.690	4.95	0.021	0.041	0.017	0.007	0.01	5.25	5.9	0.11	34.4	1.13	0.002	1.925
274701		21.1	2.09	4.32	0.027	0.042	0.032	0.032	0.02	7.84	9.0	0.23	238	0.44	0.003	1.015
274702		12.30	4.24	6.62	0.024	0.038	0.030	0.022	0.02	4.56	12.4	0.15	296	1.12	0.006	0.435
274703		7.99	2.69	5.15	0.032	0.073	0.050	0.025	0.03	8.58	13.6	0.18	102.5	0.78	0.003	2.67
274704		2.81	0.910	4.50	0.024	0.025	0.019	0.008	0.01	8.02	5.6	0.07	34.5	0.52	0.003	1.365
274705		5.91	1.080	2.31	0.030	0.052	0.049	0.007	0.01	9.23	7.9	0.15	44.8	0.22	0.003	1.380
274706		1.83	0.920	1.705	0.027	0.084	0.011	0.006	0.01	6.00	6.3	0.13	68.0	0.14	0.002	1.130
274707		3.15	1.460	2.67	0.026	0.046	0.011	<0.005	0.01	4.77	6.9	0.14	48.1	0.40	0.002	1.740
274708		6.24	1.840	3.62	0.027	0.062	0.049	0.014	0.01	6.34	8.5	0.11	45.5	0.51	0.003	2.49
274709		14.70	1.340	3.56	0.028	0.066	0.019	0.012	0.01	8.72	8.1	0.18	63.1	0.34	0.004	1.400
274710		2.94	0.830	1.570	0.038	0.035	0.008	<0.005	0.01	7.84	5.0	0.15	64.3	0.16	0.003	1.055
274711		10.75	1.810	3.60	0.029	0.050	0.019	0.009	0.01	7.15	7.7	0.17	60.2	0.62	0.002	1.900
274712		27.3	1.850	3.62	0.034	0.049	0.036	0.022	0.02	8.81	8.7	0.24	101.0	0.74	0.003	1.875
274713		5.03	1.070	2.15	0.029	0.054	0.012	0.009	0.01	6.67	5.7	0.16	63.8	0.23	0.002	1.085
274714		5.82	1.330	2.80	0.016	0.071	0.023	0.010	0.01	5.89	7.2	0.14	42.5	0.38	0.002	1.805
274715		8.70	2.61	6.57	0.029	0.016	0.028	0.013	0.02	8.70	13.3	0.21	127.5	0.99	0.002	1.260

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

Page: 3 - C
 Total# Pages: 5 (A - H)
 Plus Appendix Pages
 Finalized Date: 21-JUL- 2016
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME-ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
27462 6		9.48	0.022	3.95	<0.001	<0.001	3.36	<0.001	0.01	0.043	1.225	0.2	0.32	3.11	<0.005	<0.01
274627		6.65	0.033	3.33	<0.001	<0.001	2.02	<0.001	<0.01	0.059	1.270	0.1	0.26	4.53	<0.005	<0.01
274628		8.74	0.023	5.78	<0.001	<0.001	3.41	<0.001	0.01	0.165	1.700	0.3	0.47	5.82	<0.005	0.02
274629		8.02	0.029	3.20	<0.001	<0.001	1.880	<0.001	<0.01	0.048	1.310	0.2	0.24	4.10	0.006	<0.01
274630		7.27	0.034	3.95	<0.001	<0.001	4.05	<0.001	0.01	0.066	1.100	0.2	0.33	4.97	<0.005	<0.01
2746 31		12.95	0.031	4.64	<0.001	<0.001	4.43	<0.001	<0.01	0.145	2.33	0.2	0.34	6.09	<0.005	<0.01
274632		9.55	0.022	4.79	<0.001	<0.001	4.83	<0.001	<0.01	0.111	1.080	0.1	0.44	6.16	<0.005	<0.01
274633		8.78	0.035	3.98	<0.001	<0.001	3.99	<0.001	<0.01	0.058	1.285	0.1	0.34	5.71	<0.005	<0.01
274634		11.10	0.030	4.05	<0.001	<0.001	2.55	<0.001	<0.01	0.059	1.815	0.3	0.34	4.89	<0.005	0.01
274635		6.69	0.034	2.36	0.001	<0.001	1.565	<0.001	<0.01	0.064	1.755	<0.1	0.19	6.89	<0.005	<0.01
27 4636		7.71	0.029	3.11	<0.001	<0.001	2.31	0.001	<0.01	0.041	1.860	0.2	0.26	5.46	<0.005	0.01
2746 37		8.54	0.053	3.75	<0.001	<0.001	2.28	<0.001	0.01	0.088	1.420	0.5	0.24	4.50	0.008	0.01
274638		6.92	0.025	3.74	0.002	<0.001	3.47	<0.001	<0.01	0.066	2.07	0.2	0.28	6.55	<0.005	0.01
274639		16.95	0.045	5.44	0.001	0.001	4.31	<0.001	0.01	0.138	2.33	0.3	0.32	5.71	<0.005	0.01
274640		13.55	0.043	6.34	0.001	<0.001	3.63	<0.001	0.01	0.136	1.675	0.4	0.44	6.27	0.098	0.03
274641		12.10	0.024	5.26	0.001	<0.001	2.49	<0.001	0.01	0.062	1.570	0.5	0.37	4.63	0.006	0.04
274642		9.22	0.009	2.83	<0.001	<0.001	2.02	<0.001	<0.01	0.060	1.955	0.2	0.26	4.38	<0.005	0.01
27464 3		9.55	0.036	4.48	<0.001	<0.001	2.74	<0.001	<0.01	0.094	1.260	0.3	0.42	5.27	<0.005	0.03
274644		8.78	0.036	3.44	<0.001	<0.001	2.33	<0.001	<0.01	0.045	1.360	0.2	0.28	5.15	<0.005	0.01
274645		9.99	0.021	4.29	<0.001	<0.001	2.72	<0.001	<0.01	0.057	1.270	0.4	0.34	4.23	<0.005	0.02
27 4646		8.00	0.009	4.15	<0.001	<0.001	2.43	<0.001	<0.01	0.052	1.445	0.2	0.35	5.99	<0.005	0.01
274647		11.85	0.015	4.52	0.001	0.001	3.08	<0.001	0.01	0.077	1.830	0.3	0.40	4.94	<0.005	0.01
274 648		8.50	0.025	4.44	<0.001	<0.001	2.78	<0.001	0.01	0.065	1.275	0.4	0.37	3.62	0.005	0.02
274649		9.81	0.039	3.48	<0.001	<0.001	3.34	<0.001	<0.01	0.038	1.310	0.2	0.30	7.54	0.005	0.01
274650		4.58	0.007	3.57	<0.001	<0.001	1.915	<0.001	<0.01	0.073	0.826	0.2	0.47	3.78	<0.005	0.02
274701		23.3	0.022	4.13	<0.001	<0.001	3.79	<0.001	<0.01	0.123	2.48	0.5	0.43	5.94	<0.005	0.04
27 470 2		31.0	0.022	3.32	<0.001	<0.001	3.56	<0.001	0.01	0.113	2.75	0.2	0.40	3.75	<0.005	0.01
274703		11.90	0.038	7.44	<0.001	<0.001	4.27	<0.001	0.01	0.160	1.645	0.4	0.50	5.06	<0.005	0.02
27 470 4		3.33	0.007	5.72	<0.001	<0.001	1.525	<0.001	<0.01	0.050	0.766	0.2	0.57	4.48	<0.005	0.01
274705		6.81	0.020	3.26	0.001	<0.001	2.34	<0.001	<0.01	0.095	1.445	0.4	0.27	4.64	<0.005	<0.01
274 706		6.12	0.028	2.58	<0.001	<0.001	2.49	<0.001	<0.01	0.040	0.905	0.1	0.20	3.17	0.006	0.01
27470 7		8.24	0.019	3.77	<0.001	<0.001	2.64	<0.001	<0.01	0.081	0.824	0.1	0.32	3.24	<0.005	0.01
274708		9.64	0.031	5.81	<0.001	<0.001	1.730	<0.001	0.01	0.101	1.210	0.4	0.37	4.34	0.010	0.03
274709		10.25	0.018	4.51	<0.001	<0.001	2.94	<0.001	<0.01	0.078	1.790	0.2	0.39	4.22	<0.005	0.01
27471 0		6.49	0.038	2.02	0.001	<0.001	1.530	<0.001	<0.01	0.035	1.005	0.1	0.21	4.33	<0.005	0.01
274711		7.45	0.014	3.48	<0.001	<0.001	2.02	<0.001	<0.01	0.046	1.150	0.3	0.35	3.60	<0.005	0.03
274712		9.93	0.029	4.83	<0.001	<0.001	2.42	<0.001	0.01	0.114	2.13	0.5	0.34	4.49	<0.005	0.03
274713		7.85	0.026	2.42	<0.001	<0.001	1.915	<0.001	<0.01	0.038	1.160	0.3	0.24	4.10	<0.005	0.02
274714		9.17	0.012	4.50	<0.001	<0.001	2.24	<0.001	<0.01	0.050	0.992	0.3	0.35	3.49	<0.005	<0.01
27471 5		16.15	0.019	4.05	<0.001	<0.001	3.10	<0.001	0.01	0.121	1.800	0.3	0.60	5.10	<0.005	0.02

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



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To : GREENSTONE GOLD MINES
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CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	AuME-ST44	AuME- ST44	AuME- ST44	AuME - ST44	AuME- ST44	AuME- ST44	AuM E- ST44	Au ME- ST44	AuME- ST44	Cu- OG46	ME- MS41 I	ME- MS41 I	ME- MS41 I	ME- MS41 L	ME- MS41 L
		Th ppm 0.002	Ti % 0.001	Tl ppm 0.002	U ppm 0.005	V ppm 0.1	W ppm 0.001	X ppm 0.003	Y ppm 0.1	Zn ppm 0.1	Zr ppm 0.01	Cu % 0.001	Au ppm 0.0002	Ag ppm 0.001	Al % 0.01	As ppm 0.01
274626		2.16	0.056	0.034	0.239	22.6	0.117	1.765	9.0	1.60						
274627		3.08	0.043	0.039	0.305	20.8	0.164	2.66	9.1	2.72						
274628		1.640	0.053	0.044	0.357	43.2	0.191	2.32	25.6	0.79						
274629		3.75	0.054	0.027	0.331	21.1	0.128	2.74	8.0	3.56						
274630		2.54	0.063	0.028	0.283	28.3	0.166	2.06	22.5	1.29						
274631		3.96	0.043	0.050	0.487	25.9	0.133	7.19	18.8	1.92						
274632		2.77	0.048	0.043	0.287	29.2	0.158	1.655	17.6	1.06						
274633		3.05	0.046	0.033	0.305	29.7	0.114	2.39	15.5	1.47						
274634		3.40	0.049	0.032	0.352	26.1	0.133	2.64	11.8	2.45						
274635		3.13	0.040	0.035	0.268	17.9	0.123	5.37	8.2	1.39						
274636		2.16	0.032	0.032	0.280	20.9	0.109	5.73	13.8	0.74						
274637		2.66	0.038	0.026	0.345	23.6	0.132	2.62	16.9	2.51						
274638		3.33	0.036	0.040	0.298	22.7	0.087	4.84	14.1	1.17						
274639		3.51	0.058	0.050	0.373	28.8	0.148	2.62	18.0	3.76						
274640		2.57	0.067	0.044	0.314	41.7	0.216	2.09	16.5	1.80						
274641		2.66	0.058	0.036	0.322	28.0	0.158	2.19	10.7	2.58						
274642		3.46	0.058	0.034	0.381	19.8	0.115	3.55	8.7	2.58						
274643		2.25	0.060	0.032	0.281	34.3	0.165	2.16	14.3	1.52						
274644		2.75	0.048	0.034	0.304	24.0	0.113	2.65	11.1	2.49						
274645		2.98	0.062	0.043	0.308	26.6	0.161	1.885	13.0	1.95						
274646		3.11	0.056	0.040	0.341	26.5	0.107	2.98	12.7	1.49						
274647		3.29	0.065	0.031	0.304	28.9	0.127	1.860	10.9	3.91						
274648		2.43	0.055	0.029	0.303	27.6	0.152	1.890	11.6	2.09						
274649		2.83	0.053	0.030	0.323	26.3	0.124	2.59	10.7	1.43						
274650		1.930	0.067	0.028	0.172	49.1	0.156	0.910	8.3	1.26						
274701		2.27	0.018	0.058	0.338	27.0	0.129	2.56	46.2	1.70						
274702		1.140	0.002	0.039	0.177	43.3	0.057	1.000	39.9	1.14						
274703		3.19	0.061	0.046	0.391	42.6	0.233	2.25	25.4	2.21						
274704		2.13	0.036	0.035	0.251	30.5	0.104	1.305	13.6	0.70						
274705		2.65	0.043	0.038	0.459	19.1	0.114	2.99	10.2	1.70						
274706		2.10	0.039	0.021	0.237	18.0	0.115	2.11	7.6	2.17						
274707		1.755	0.057	0.022	0.181	25.8	0.140	1.375	9.9	1.56						
274708		2.01	0.048	0.028	0.302	29.3	0.167	1.955	10.3	1.82						
274709		2.35	0.042	0.046	0.272	29.6	0.140	2.37	12.6	1.93						
274710		2.02	0.039	0.020	0.264	17.4	0.079	2.90	8.1	1.17						
274711		2.29	0.061	0.032	0.271	32.8	0.185	1.665	12.1	1.48						
274712		2.67	0.060	0.039	0.411	35.6	0.213	2.78	16.3	1.68						
274713		2.25	0.045	0.030	0.256	21.6	0.093	2.15	9.7	1.78						
274714		2.21	0.051	0.035	0.241	26.8	0.122	1.315	9.0	2.06						
274715		2.16	0.019	0.039	0.295	39.4	0.144	1.415	30.5	0.80						

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units LOR	ME-MS4II	ME-MS4I I	ME- MS4II	ME- MS41L	ME- MS41L	ME-MS41L	ME-MS41 L	ME- MS4I L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS4 1L	ME-MS41L
		Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm
274626 274627 274628 274629 274630		0.5	0.01	0.001	0.01	0.001	0	0.001	0.01	0.005	0.01	0.001	0.004	0.005	0.002	0
274631 274632 274633 274634 274635																
274636 274637 274638 274639 274640																
274641 274642 274643 274644 274645																
274646 274647 274648 274649 274650																
274701 274702 274703 274704 274705																
274706 274707 274708 274709 274710																
274711 274712 274713 274714 274715																

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Sample Description	Method Analyte Units LOR	ME- MS41L	ME- MS4 1L	ME- MS41L	ME- MS4 1L	ME- MS41L	ME-MS41L	ME- MS41 L	ME- MS41L	ME- MS41 L	ME- MS4 1 L	ME-MS41L	ME- MS41 L	ME- MS41L	ME- MS41 L	ME- MS41L
		In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	p %	Pb ppm	Pd ppm	Pt ppm	Rb ppm
274626 274627 274628 274629 274630		0.005	0.01	0.002	0.1	0.0 1	0.1	0.01	0.001	0.002	0.04	0.001	0.005	0.001	0.002	0
27463 1 274632 274633 274634 274635																
274636 274637 274638 274639 274640																
274641 274642 274643 274644 274645																
274646 274647 274648 274649 274650																
274701 274702 274703 274704 274705																
274706 274707 274 708 2 74709 274710																
274711 274712 274713 274714 27471 5																

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Sample Description	Method Analyte Units LOR	ME- MS41 L	ME- MS41 L	ME-MS4II	ME- MS4I L	ME- MS4II	ME- MS4I L	ME- MS4II	ME-MS4I L	ME-MS4II	ME- MS41 L	ME- MS41 L	ME-MS4I L	ME-MS4I L	ME-MS4I L	ME- MS41L
		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	w ppm
274626 274627 274628 274629 274630		0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01	0.002	0.001	0.002	0.005	0.1	0.001
274631 274632 274633 274634 274635																
274636 274637 2746 38 274639 274640																
2746 41 2746 42 274643 274644 274645																
274646 274647 274648 274649 274650																
27470 1 274 702 274703 27 4704 274705																
274706 274707 274708 274709 274710																
2747 1 1 274712 274713 274714 27471 5																

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Sample Description	Method Analyte Units LOR	ME-MS411	ME-MS41L	ME-MS41
		y ppm 0.003	Zn ppm 0.1	Zr ppm 0.01
274626 274627 274628 274629 274630				
274631 274632 274633 274634 274635				
274636 274637 274638 274639 274640				
274641 274642 274643 274644 274645				
274646 274647 274648 274649 274650				
274701 274702 274703 274704 274705				
274706 274707 274708 274709 274710				
274711 274712 274713 274714 274715				

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Sample Description	Method Analyte Units LOR	WEI- 21	AuM E- ST44	AuME- ST44	AuME-ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
274716		1.07	0.0016	0.018	0.36	0.45	<10	14.0	0.11	0.028	1.87	0.037	25.1	3.13	14.50	0.199
274717		0.47	0.0024	0.043	0.68	2.14	<10	18.0	0.22	0.048	0.19	0.020	30.3	3.38	18.60	0.412
274718		0.56	0.0414	0.034	1.35	2.77	<10	24.9	0.31	0.081	0.11	0.032	22.3	5.43	23.7	0.870
274719		0.34	0.0023	0.039	1.18	2.22	<10	23.8	0.26	0.068	0.07	0.037	14.30	3.51	17.95	0.604
274 720		0.40	0.0004	0.051	1.30	1.60	<10	30.2	0.26	0.066	0.11	0.028	20.6	3.84	20.8	0.598
274 721		0.35	0.0008	0.035	1.36	1.86	<10	30.6	0.31	0.064	0.08	0.026	17.10	3.95	21.0	0.533
274722		0.40	0.0008	0.031	1.23	2.02	<10	36.6	0.33	0.068	0.08	0.016	16.10	4.72	20.4	0.468
274 723		0.43	0.0012	0.012	0.79	2.25	<10	20.9	0.29	0.060	0.09	0.034	11.95	3.93	15.85	0.456
274724		0.38	0.0008	0.065	1.10	2.33	<10	27.9	0.29	0.062	0.13	0.015	19.00	4.64	18.70	0.558
274 725		0.63	0.0009	0.077	1.25	1.42	<10	37.6	0.36	0.113	0.21	0.026	14.80	4.70	20.1	0.931
274726		0.49	0.0025	0.040	0.88	3.31	<10	19.8	0.19	0.099	0.20	0.023	13.85	3.29	12.20	0.940
274727		0.64	0.0043	0.015	0.79	2.26	<10	12.1	0.22	0.046	0.15	0.024	26.7	4.65	16.95	0.620
274751		0.47	0.0059	0.082	1.04	1.79	<10	49.5	0.29	0.111	0.46	0.092	17.60	8.75	17.85	1.165
274 752		0.44	0.0089	0.014	0.69	2.19	<10	9.7	0.14	0.062	0.10	0.023	18.65	3.42	17.85	0.776
274753		0.45	0.0037	0.081	1.30	3.05	<10	29.2	0.33	0.123	0.05	0.051	12.00	2.70	18.20	1.305
274754		0.51	0.0119	0.014	1.02	2.97	10	33.5	0.20	0.092	0.23	0.035	14.55	7.02	28.4	0.920
274755		0.46	0.0012	0.034	0.63	1.71	<10	10.5	0.17	0.038	0.16	0.028	33.5	4.24	16.70	0.445
274756		0.33	0.0015	0.064	1.20	1.23	<10	36.6	0.30	0.074	0.08	0.025	18.40	4.02	17.55	0.750
274 757		0.49	0.0168	0.015	1.27	4.22	<10	30.3	0.34	0.075	0.11	0.018	16.05	8.07	20.6	0.554
274758		0.39	0.0006	0.007	0.84	1.54	<10	13.4	0.19	0.034	0.13	0.016	18.55	4.47	15.45	0.253
274759		0.43	0.0048	0.068	0.63	1.43	<10	20.4	0.21	0.065	0.16	0.015	21.8	3.88	15.35	0.427
274760		0.50	0.0083	0.092	2.22	3.69	<10	67.5	0.52	0.129	0.16	0.048	21.9	12.35	133.5	1.415
274761		0.37	0.0010	0.042	0.88	4.64	10	31.1	0.26	0.124	0.08	0.039	14.10	5.57	21.0	0.664
274762		0.50	0.0015	0.018	1.33	2.48	<10	23.1	0.21	0.060	0.06	0.018	15.15	3.33	18.90	0.916
274763		0.57	0.0005	0.040	0.90	2.12	<10	22.1	0.19	0.051	0.10	0.018	19.65	4.51	15.45	0.528
274764		0.36	0.0006	0.023	1.58	5.32	10	51.9	0.32	0.154	0.12	0.057	17.20	5.15	27.6	1.100
274765		0.33	0.0074	0.099	0.72	8.16	10	29.0	0.15	0.086	0.10	0.085	17.70	6.03	13.65	1.740
227033		1.53	0.0016	0.300	0.56	2.31	<10	19.5	0.22	0.056	0.92	0.102	33.2	5.19	22.6	0.202
227035		0.98	0.0033	0.042	0.91	3.45	<10	24.9	0.26	0.096	0.15	0.126	30.4	6.26	21.4	0.707
227036		1.04	0.0038	0.021	0.89	4.08	<10	24.8	0.26	0.076	0.17	0.018	32.6	6.10	21.6	0.548
227037		1.06	0.0067	0.032	1.06	5.05	<10	23.7	0.33	0.240	0.14	0.024	34.4	7.85	25.6	0.490
227038		0.99	0.0087	0.069	1.44	7.95	<10	47.3	0.29	0.228	0.12	0.041	24.8	10.25	29.6	1.140
227039		1.24	0.0220	0.194	1.33	6.55	<10	44.3	0.27	0.108	0.13	0.039	29.2	8.83	27.7	1.010
227040		0.92	0.0062	0.058	0.69	1.97	<10	20.9	0.19	0.049	0.21	0.026	41.3	4.92	21.3	0.659
227041		0.97	0.0270	0.036	0.82	3.28	<10	26.4	0.24	0.096	0.22	0.020	44.8	7.87	26.1	0.552
227042		0.29	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
227043		0.65	0.0066	0.044	1.33	7.63	<10	29.3	0.29	0.139	0.23	0.026	36.4	13.85	27.8	0.993
227044		0.92	0.0014	0.026	0.58	1.91	<10	18.7	0.21	0.051	0.25	0.014	37.8	3.74	17.50	0.313
227045		0.92	0.0027	0.028	0.71	3.02	<10	17.5	0.22	0.063	0.19	0.022	40.7	5.83	20.4	0.422
227046		1.72	0.0100	0.073	0.50	1.89	<10	26.2	0.19	0.041	0.27	0.068	38.1	3.61	18.15	0.779

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		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
274716		6.53	0.560	1.520	0.054	0.048	0.014	0.007	0.02	12.30	4.6	0.88	68.3	0.06	0.004	0.783
274717		46.9	1.110	2.12	0.033	0.044	0.016	0.008	0.01	12.75	5.1	0.17	90.1	2.22	0.003	1.150
274718		26.3	1.660	2.93	0.049	0.103	0.051	0.011	0.02	9.40	8.6	0.21	72.8	0.93	0.014	1.650
274719		11.10	1.430	3.57	0.026	0.041	0.043	0.017	0.01	7.27	7.4	0.13	59.9	0.46	0.003	1.745
274720		5.34	1.390	3.52	0.023	0.033	0.022	0.014	0.02	8.74	7.9	0.17	60.9	0.31	0.003	1.735
274721		2.72	1.480	3.40	0.020	0.050	0.032	0.013	0.02	8.34	8.8	0.16	67.6	0.24	0.003	2.10
274722		9.13	1.360	3.02	0.031	0.075	0.019	0.013	0.02	6.82	8.4	0.15	54.9	0.26	0.005	1.775
274723		5.90	1.240	2.72	0.027	0.044	0.013	0.006	0.02	5.76	7.3	0.15	49.9	0.22	0.004	1.210
274724		6.88	1.280	2.73	0.035	0.071	0.012	0.013	0.02	6.89	7.1	0.15	59.9	0.23	0.004	1.660
274725		19.90	1.300	4.20	0.032	0.038	0.014	0.019	0.02	8.29	9.5	0.20	133.5	0.19	0.005	0.963
274726		6.03	1.410	4.19	0.018	0.012	0.010	0.012	0.02	7.05	8.9	0.14	99.9	0.42	0.005	1.275
274727		3.76	1.060	1.865	0.042	0.044	0.020	0.009	0.01	8.55	6.4	0.14	55.0	0.19	0.004	1.470
274751		24.7	1.500	3.24	0.029	0.023	0.040	0.015	0.01	7.60	7.6	0.24	188.5	1.23	0.009	1.235
274752		11.75	1.170	1.740	0.033	0.077	0.022	0.005	0.01	7.93	5.5	0.14	52.0	0.26	0.004	1.435
274753		23.2	1.750	4.84	0.029	0.038	0.050	0.012	0.01	6.03	8.3	0.09	47.7	0.92	0.008	1.805
274754		10.95	1.760	3.78	0.044	0.030	0.015	0.011	0.01	7.64	9.0	0.34	110.0	0.38	0.006	1.040
274755		22.3	1.120	1.890	0.041	0.032	0.015	0.011	0.01	8.32	5.2	0.15	141.0	0.22	0.004	0.942
274756		15.25	1.430	3.70	0.030	0.050	0.021	0.015	0.01	7.78	7.3	0.15	71.7	0.52	0.005	1.440
274757		6.64	1.550	2.81	0.031	0.104	0.013	0.019	0.02	7.05	10.3	0.15	76.0	0.31	0.005	1.985
274758		4.76	1.060	1.700	0.042	0.069	0.009	0.006	0.01	7.11	6.3	0.14	105.0	0.20	0.004	1.090
274759		15.60	1.040	2.05	0.036	0.028	0.011	0.011	0.01	8.56	5.3	0.15	76.2	0.58	0.004	1.090
274760		52.0	2.45	6.26	0.046	0.070	0.030	0.028	0.03	8.95	17.2	0.70	226	1.06	0.006	1.765
274761		10.70	1.650	3.33	0.034	0.038	0.011	0.009	0.02	6.76	9.2	0.20	96.1	0.61	0.006	1.205
274762		23.7	1.150	3.16	0.034	0.079	0.049	0.015	0.02	7.46	8.1	0.18	58.9	0.40	0.005	1.780
274763		20.4	1.080	2.76	0.030	0.050	0.016	0.013	0.01	7.63	6.5	0.18	73.9	0.20	0.004	1.045
274764		16.80	2.64	7.42	0.050	0.019	0.047	0.020	0.02	8.75	16.1	0.17	176.5	1.07	0.014	1.725
274765		15.65	2.29	2.89	0.056	0.009	0.019	0.012	0.02	8.10	6.9	0.13	495	0.75	0.014	1.085
227033		10.85	1.540	2.33	0.063	0.039	0.020	0.014	0.04	19.15	6.8	0.46	192.0	0.19	0.028	0.982
227035		42.3	1.560	2.81	0.041	0.109	0.025	0.024	0.04	10.50	7.3	0.23	117.5	0.41	0.022	1.480
227036		41.9	1.620	2.85	0.058	0.115	0.020	0.015	0.04	13.55	7.4	0.26	147.0	0.32	0.023	1.365
227037		37.0	1.920	2.86	0.045	0.176	0.014	0.019	0.04	10.30	8.6	0.27	153.0	0.64	0.022	1.365
227038		44.9	2.33	3.70	0.047	0.118	0.026	0.012	0.05	9.38	11.7	0.37	153.0	0.78	0.017	1.530
227039		41.8	2.02	3.42	0.047	0.113	0.032	0.013	0.04	11.15	11.4	0.32	125.0	1.40	0.016	1.480
227040		8.68	1.400	2.16	0.052	0.063	0.011	0.010	0.04	12.80	6.1	0.17	143.0	0.44	0.027	1.510
227041		38.1	1.940	2.83	0.068	0.072	0.019	0.012	0.05	17.05	7.7	0.32	227	0.50	0.029	1.115
227042		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
227043		66.8	2.53	3.88	0.045	0.093	0.019	0.026	0.04	9.62	10.2	0.53	314	1.62	0.017	1.160
227044		13.15	1.200	2.02	0.060	0.050	0.007	0.010	0.04	12.80	5.0	0.17	145.5	0.33	0.027	1.335
227045		11.55	1.310	2.07	0.052	0.099	0.010	0.008	0.04	11.15	5.2	0.20	141.5	0.39	0.021	1.275
227046		20.0	1.140	1.995	0.065	0.041	0.018	0.005	0.04	14.40	4.8	0.16	173.0	0.87	0.029	1.075

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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT I MO

Page: 4 - C
 Total# Pages: 5 (A - H)
 Plus Appendix Pages
 Finalized Date: 21-J UL- 2016
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
274716		6.60	0.056	2.01	<0.001	<0.001	1.430	<0.001	<0.01	0.027	1.485	0.2	0.23	14.35	<0.005	0.01
274717		8.07	0.030	2.81	<0.001	<0.001	1.785	<0.001	<0.01	0.057	1.605	0.2	0.26	5.53	<0.005	0.02
274718		11.85	0.037	7.71	0.001	0.001	3.26	<0.001	0.02	0.098	2.12	0.4	0.29	5.28	<0.005	0.08
274719		8.14	0.018	4.28	<0.001	<0.001	2.70	<0.001	0.01	0.064	1.300	0.4	0.39	3.72	<0.005	0.01
274 720		9.84	0.026	4.95	<0.001	<0.001	4.21	<0.001	<0.01	0.047	1.360	0.3	0.42	5.54	<0.005	<0.01
274 721		9.15	0.027	4.59	<0.001	<0.001	4.42	<0.001	0.01	0.060	1.370	0.4	0.36	4.91	<0.005	<0.01
274 722		11.35	0.021	4.29	<0.001	<0.001	3.30	<0.001	0.01	0.044	1.450	0.2	0.36	5.01	<0.005	<0.01
274723		10.00	0.028	3.97	0.001	<0.001	3.91	<0.001	0.01	0.056	1.120	0.3	0.25	4.29	<0.005	0.01
274 724		12.95	0.031	4.33	<0.001	<0.001	2.63	<0.001	0.01	0.046	1.325	0.2	0.28	4.85	<0.005	0.01
274 725		17.20	0.010	5.81	<0.001	<0.001	3.06	<0.001	0.01	0.037	2.63	0.1	0.44	7.66	<0.005	0.01
274 726		6.99	0.011	4.57	<0.001	<0.001	2.68	<0.001	0.01	0.103	1.205	0.2	0.46	6.89	<0.005	0.02
274 727		10.25	0.035	3.45	<0.001	<0.001	1.945	<0.001	0.01	0.041	1.260	0.1	0.24	5.42	0.005	0.01
27475 1		11.85	0.025	6.06	<0.001	<0.001	1.795	0.003	0.06	0.069	2.03	0.6	0.28	6.57	<0.005	0.04
274 752		7.36	0.035	2.89	<0.001	<0.001	2.36	<0.001	0.01	0.041	1.340	0.3	0.25	3.48	0.007	0.01
274753		5.82	0.024	6.02	<0.001	<0.001	2.67	<0.001	0.02	0.086	1.430	0.5	0.56	3.18	<0.005	0.03
274754		16.00	0.009	3.93	<0.001	0.001	3.43	<0.001	0.01	0.101	2.43	0.2	0.29	6.76	<0.005	0.02
274 755		8.98	0.030	2.70	<0.001	<0.001	2.74	<0.001	0.01	0.048	1.795	0.2	0.19	5.46	<0.005	<0.01
274 756		9.28	0.009	5.25	<0.001	<0.001	2.96	<0.001	0.01	0.057	1.445	0.2	0.38	5.38	<0.005	0.02
274757		14.10	0.028	4.99	<0.001	<0.001	3.15	<0.001	0.01	0.115	1.475	0.2	0.32	4.95	<0.005	0.01
274758		9.13	0.043	3.16	0.001	<0.001	2.64	<0.001	<0.01	0.046	1.355	0.2	0.20	4.21	<0.005	0.01
274 759		8.26	0.019	3.21	<0.001	<0.001	1.705	0.001	0.01	0.033	1.395	0.1	0.21	4.55	<0.005	<0.01
274760		41.7	0.028	6.27	0.002	0.001	5.08	<0.001	0.01	0.103	3.08	0.5	0.49	10.40	<0.005	0.04
274 76 1		11.65	0.017	5.23	<0.001	0.001	4.78	<0.001	0.03	0.272	1.235	0.2	0.35	4.07	<0.005	0.02
274762		9.01	0.023	4.90	0.001	<0.001	2.37	<0.001	0.01	0.085	1.860	0.7	0.32	3.18	<0.005	0.02
274763		10.10	0.011	3.40	0.001	<0.001	2.19	<0.001	<0.01	0.046	2.11	0.2	0.31	6.03	<0.005	0.01
274764		18.15	0.038	7.32	0.001	<0.001	4.31	<0.001	0.02	0.143	2.16	0.4	0.78	7.05	<0.005	<0.01
274765		15.75	0.019	5.00	<0.001	<0.001	3.08	<0.001	0.02	0.254	2.15	0.4	0.28	5.11	<0.005	0.03
227033		10.60	0.044	3.30	<0.001	<0.001	2.58	<0.001	0.01	0.093	3.14	0.1	0.25	15.30	<0.005	0.01
227035		12.25	0.022	4.00	0.001	0.001	3.58	<0.001	0.01	0.138	2.49	0.3	0.41	9.61	<0.005	0.01
227036		12.65	0.024	3.91	0.001	<0.001	3.69	<0.001	0.01	0.190	3.05	0.2	0.31	10.25	<0.005	0.01
227037		15.30	0.007	8.29	<0.001	0.001	2.59	<0.001	0.01	0.307	2.79	0.3	0.37	8.65	<0.005	0.07
22 70 38		22.6	0.028	7.93	<0.001	0.001	5.15	<0.001	0.01	0.471	2.66	0.4	0.33	8.87	<0.005	0.05
227039		21.5	0.032	4.94	<0.001	0.001	5.54	<0.001	0.01	0.426	2.58	0.4	0.34	9.02	<0.005	0.01
227040		9.46	0.044	3.15	0.002	<0.001	3.79	<0.001	0.01	0.063	1.875	0.3	0.29	11.35	<0.005	0.01
227041		13.85	0.041	3.73	0.002	<0.001	4.11	<0.001	<0.01	0.224	3.26	0.2	0.41	13.10	<0.005	0.04
227042		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
227043		25.0	0.030	6.02	0.001	<0.001	4.56	0.001	0.01	0.326	4.17	0.3	0.42	13.45	<0.005	0.05
227044		7.59	0.051	2.81	<0.001	<0.001	3.14	<0.001	<0.01	0.088	1.970	0.1	0.36	11.80	<0.005	<0.01
227045		10.25	0.038	3.27	0.001	<0.001	3.21	<0.001	<0.01	0.112	1.850	0.2	0.26	9.56	<0.005	0.01
227046		8.53	0.038	2.78	0.001	<0.001	2.52	<0.001	<0.01	0.075	2.23	0.1	0.32	12.50	<0.005	0.01

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



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

Page: 4 - D
 Total# Pages: 5 (A - H)
 Plus Appendix Pages
 Finalized Date: 21-JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Cu- OG46	ME- MS41 L	ME- MS41 L	ME- MS41L	ME- MS41L	ME- MS41 L	
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	Au ppm	Ag ppm	Al %	As ppm	B ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01	0.001	0.0002	0.001	0.01	0.01	10
274716		2.87	0.045	0.026	0.361	13.0	0.117	4.66	11.4	1.80						
274717		3.43	0.048	0.052	0.387	23.2	0.157	4.00	24.1	1.59						
274718		3.95	0.062	0.046	0.417	29.7	0.154	2.77	15.0	3.71						
274719		2.19	0.045	0.037	0.270	30.1	0.144	1.575	10.7	1.27						
274720		2.57	0.055	0.048	0.329	27.9	0.120	1.960	15.8	1.09						
274721		2.34	0.057	0.042	0.303	27.0	0.132	1.860	15.3	1.28						
274722		2.68	0.049	0.035	0.277	25.9	0.133	1.945	14.1	2.42						
274723		1.980	0.031	0.028	0.229	20.7	0.104	1.815	16.9	1.48						
274724		2.40	0.042	0.028	0.269	23.3	0.135	2.60	13.6	2.56						
274725		2.09	0.021	0.049	0.312	21.8	0.061	4.36	22.8	1.44						
274726		1.715	0.023	0.034	0.243	24.3	0.114	1.640	16.8	0.75						
274727		2.57	0.041	0.024	0.298	20.3	0.121	2.99	8.9	1.60						
274751		0.813	0.031	0.043	0.363	39.1	0.153	3.98	16.2	0.75						
274752		3.19	0.045	0.023	0.307	23.6	0.159	2.76	8.5	2.52						
274753		1.240	0.027	0.040	0.317	37.4	0.133	1.980	20.4	1.19						
274754		2.29	0.046	0.037	0.309	39.3	0.186	2.68	19.5	1.13						
274755		2.75	0.037	0.025	0.295	22.4	0.103	4.13	9.8	1.15						
274 756		2.57	0.040	0.047	0.261	29.1	0.109	2.00	15.2	1.79						
274757		2.74	0.047	0.031	0.277	26.3	0.166	2.44	13.9	3.51						
274758		2.73	0.035	0.023	0.294	18.2	0.135	2.83	8.5	2.77						
274759		2.50	0.037	0.031	0.299	20.1	0.110	3.07	9.4	1.28						
274 760		2.77	0.061	0.075	0.382	54.2	0.149	2.99	49.7	2.69						
2 74761		2.58	0.051	0.050	0.242	28.3	0.225	1.460	29.5	1.47						
274762		2.94	0.049	0.035	0.382	23.5	0.138	2.16	13.0	2.61						
274763		2.85	0.036	0.040	0.295	20.9	0.087	2.12	19.3	1.91						
274764		1.990	0.031	0.061	0.356	46.2	0.166	2.27	33.2	1.01						
274765		1.915	0.026	0.032	0.315	21.5	0.107	2.51	57.8	0.36						
227033		3.64	0.045	0.044	0.390	27.3	0.170	10.20	27.7	1.65						
227035		3.81	0.064	0.045	0.447	29.6	0.188	3.72	31.2	4.19						
227036		4.22	0.065	0.044	0.461	28.0	0.171	5.19	19.4	4.97						
227037		4.32	0.060	0.052	0.423	32.2	0.203	3.98	17.2	6.27						
227038		3.80	0.056	0.049	0.402	36.7	0.207	2.86	24.0	4.68						
227039		3.92	0.049	0.052	0.393	30.8	0.162	3.32	22.5	4.15						
227040		3.94	0.056	0.035	0.428	24.6	0.146	4.53	11.7	2.50						
227041		4.85	0.067	0.053	0.518	34.8	0.228	6.45	19.1	3.94						
227042		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	1.005	0.0962	2.35	4.13	890	150
227043		2.75	0.062	0.046	0.356	43.6	0.246	5.48	33.1	3.54						
227044		4.00	0.061	0.031	0.418	22.1	0.156	5.33	10.3	2.54						
227045		4.42	0.055	0.058	0.420	24.3	0.140	4.40	12.3	3.94						
227046		3.71	0.055	0.044	0.430	21.8	0.138	6.07	10.7	2.23						

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135 HARDROCK ROAD
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Page: 4 - E
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41 L	ME-MS41 L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm
274716 274717 274718 274719 274720		0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005	0.01	0.001	0.004	0.005	0.002	0.004
274721 274722 274723 274724 274725																
274726 274727 274751 274752 274753																
274754 274755 274756 274757 274758																
274759 274760 274761 274762 274763																
274764 274765 227033 227035 227036																
227037 227038 227039 227040 227041																
227042 227043 227044 227045 227046		381	2.39	2.57	2.85	2.54	44.7	92.6	631	1.120	>10000	41.2	5.64	0.766	0.790	0.005

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CERTIFICATE OF ANALYSIS **TB16100882**

Sample Description	Method Analyte Units LOR	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41L	ME- MS41 L	ME- MS41 L	ME- MS41 L	ME- MS41L	ME- MS41 L	ME- MS41L	
		In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm
274716 274717 274718 274719 274720		0.00S	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002	0.04	0.001	0.00S	0.001	0.002	0.00S
274721 274722 274723 274724 274725																
274726 274727 274751 274752 274753																
274754 274755 274756 274757 274758																
274759 274760 274761 274762 274763																
274764 274765 227033 227035 227036																
227037 227038 227039 227040 227041																
227042 227043 227044 227045 227046		4.48	0.85	11.60	13.5	0.99	771	2280	0.769	0.113	261	0.071	1005	0.018	0.005	18.00

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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 Date: 21-JUL- 2016 Account:
 GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	ME-MS41L	ME- MS41L	ME-MS41L	ME- MS41L	ME-MS41L	ME- MS41L	ME-MS41L	ME- MS41L	ME-MS41L	ME- MS41L	ME- MS41L	ME- MS41 L	ME-MS41 L	ME-MS41L	
		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	w ppm
274716 274717 274718 274719 274720		0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01	0.002	0.001	0.002	0.005	0.1	0.001
274721 274722 274723 274724 274725																
274726 274727 274751 274752 274753																
274754 274755 274756 274757 274758																
274759 274760 274761 274762 274763																
274764 274765 227033 227035 227036																
22703 7 227038 227039 227040 227041																
227042 227043 227044 227045 227046		0.048	0.83	66.4	3.74	3.5	333	387	<0.005	0.19	2.64	0.227	0.598	1.910	85.7	10.95

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 135 HARDROCK ROAD
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L
		y ppm	Zn ppm	Zr ppm
274716 274717 274718 274719 274720		0.003	0.1	0.01
274721 274722 274723 274724 274725				
274726 274727 274751 274752 274753				
274754 274755 274756 274757 274758				
274759 274760 274761 274762 274763				
274764 274765 227033 227035 227036				
227037 227038 227039 227040 227041				
227042 227043 227044 227045 227046		8.89	9850	39.6

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CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units LOR	WEI- 21	AuM E- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuM E- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44
		Recvd Wt . kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
227047		1.50	0.0008	0.016	0.53	1.42	<10	23.3	0.19	0.041	0.26	0.026	40.7	3.53	18.95	0.231
227048		1.20	0.0006	0.014	0.55	1.32	<10	19.5	0.21	0.035	0.22	0.033	29.9	3.60	19.10	0.204
227049		0.93	0.0004	0.013	0.52	0.98	10	16.5	0.21	0.036	0.20	0.019	31.2	3.51	16.40	0.211
227050		1.27	0.0007	0.033	0.66	4.05	10	20.9	0.24	0.068	0.77	0.042	32.1	6.39	21.5	0.349
227064		1.45	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
227065		1.02	0.0003	0.011	0.62	1.28	10	15.5	0.22	0.036	0.21	0.017	26.2	4.04	18.30	0.197
227066		1.49	0.0022	0.104	1.16	24.3	10	29.5	0.24	0.234	0.18	0.073	20.3	15.00	126.0	1.665
227067		1.09	0.0292	0.040	1.86	11.75	10	40.3	0.56	0.144	0.28	0.041	50.9	16.20	47.4	0.898
227068		1.18	0.0036	0.042	1.06	2.14	10	36.8	0.28	0.084	0.14	0.019	19.65	5.24	19.70	0.624
227069		1.27	0.0037	0.010	0.56	1.67	10	19.9	0.19	0.034	0.23	0.008	21.6	2.85	15.35	0.234
227070		1.95	0.0060	0.016	0.95	3.59	10	32.4	0.25	0.072	0.19	0.013	35.9	8.12	24.1	0.592
227071		1.00	0.0020	0.014	0.63	1.52	10	19.3	0.24	0.044	0.21	0.014	35.4	3.97	19.40	0.265
227072		1.12	0.0055	0.016	0.70	2.09	10	21.2	0.33	0.054	0.23	0.029	48.8	4.61	21.7	0.317
227 073		1.43	0.0715	0.031	0.56	1.76	10	21.8	0.26	0.053	0.26	0.028	43.3	4.13	20.8	0.238
227074		1.00	0.0013	0.022	0.71	1.96	10	16.0	0.29	0.038	0.19	0.017	36.1	4.18	17.30	0.330
227075		0.28	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
227076		1.06	0.0025	0.029	0.94	3.08	10	28.9	0.22	0.057	0.30	0.027	25.8	5.80	22.5	0.504
227077		1.13	0.0030	0.161	0.71	85.1	10	43.4	0.22	0.232	0.22	0.119	44.3	46.5	10.35	1.035
227078		0.97	0.0271	0.029	0.82	3.69	10	17.7	0.29	0.080	0.21	0.017	42.4	6.12	22.2	0.575
227 10 1		1.40	0.0122	0.019	0.89	2.87	10	16.8	0.23	0.073	0.16	0.024	24.5	4.51	22.1	0.841
227102		1.42	0.0026	0.092	0.58	1.46	10	15.7	0.15	0.036	0.25	0.017	25.8	4.90	19.45	0.322
227103		1.66	0.0023	0.020	0.71	2.08	10	15.6	0.19	0.057	0.18	0.016	39.0	5.32	24.3	0.340
227104		1.52	0.0015	0.022	1.18	7.92	10	26.8	0.30	0.099	0.17	0.036	40.3	9.40	28.4	0.612
227105		1.61	0.0006	0.011	0.70	2.82	10	19.7	0.23	0.049	0.21	0.028	39.8	5.43	20.0	0.275
227106		1.40	0.0083	0.044	0.47	1.27	10	16.4	0.19	0.038	0.24	0.015	32.8	3.38	15.40	0.251
227107		1.87	0.0028	0.043	1.74	12.50	10	50.7	0.54	0.253	1.16	0.086	70.5	17.00	44.9	1.040
227108		1.40	0.0013	0.045	1.64	4.56	10	24.7	0.23	0.044	0.12	0.063	23.1	18.85	15.15	0.584

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.001	0.002	
227047		5.53	1150	1.950	0.069	0.068	0.007	0.008	0.05	16.40	4.7	0.18	145.0	0.27	0.032	0.985
227048		5.25	1.300	2.02	0.064	0.059	0.005	0.007	0.05	12.35	5.1	0.18	129.0	0.23	0.029	0.962
227049		3.69	1.040	1.705	0.063	0.043	0.007	0.009	0.05	10.60	4.9	0.17	144.5	0.16	0.025	0.945
227050		12.75	1.550	2.27	0.066	0.060	0.015	0.011	0.05	16.65	7.5	0.38	230	0.25	0.021	1.175
227064		NSS	NS\$	NS\$	NSS	NSS	NS\$	NSS	NSS	NSS	NSS	NS\$	NS\$	NSS	NSS	NS\$
227065		4.10	1.300	1.890	0.051	0.030	0.011	0.008	0.04	9.89	5.1	0.17	121.5	0.22	0.024	1.190
227066		57.3	3.52	3.44	0.048	0.033	0.050	0.045	0.07	11.00	7.4	0.22	363	0.91	0.051	0.232
227067		30.3	3.54	4.90	0.095	0.096	0.028	0.024	0.11	18.10	15.7	0.50	478	0.79	0.048	2.15
227068		19.15	1.380	3.01	0.032	0.068	0.014	0.013	0.04	9.41	7.7	0.22	98.3	0.44	0.021	1.240
227069		7.99	1.010	1.795	0.052	0.054	0.008	0.006	0.04	10.35	4.4	0.16	82.1	0.24	0.027	1.140
227070		42.7	1.770	3.00	0.046	0.078	0.020	0.013	0.05	11.90	7.7	0.32	204	0.37	0.024	0.849
227071		6.34	1.280	1.955	0.053	0.046	0.006	0.006	0.05	10.50	5.2	0.17	143.0	0.20	0.026	1.070
227072		6.08	1.440	2.13	0.060	0.041	0.011	0.009	0.06	14.15	6.2	0.20	158.5	0.20	0.026	1.235
227073		5.09	1.390	2.06	0.083	0.046	0.019	0.013	0.06	25.1	5.1	0.17	170.5	0.20	0.029	1.025
227074		5.25	1.130	1.845	0.057	0.063	0.007	0.008	0.04	9.29	4.9	0.17	120.5	0.18	0.021	1.250
227075		NS\$	NSS	NSS	NSS	NS\$	NS\$	NSS	NSS	NSS	NSS	NS\$	NSS	NSS	NSS	NSS
227076		22.4	1.700	2.94	0.040	0.023	0.011	0.012	0.05	13.00	7.5	0.33	204	0.42	0.026	0.983
227077		71.8	4.44	2.09	0.064	0.040	0.033	0.038	0.08	17.25	3.3	0.08	781	3.97	0.078	0.253
227078		11.70	1.540	2.31	0.045	0.067	0.013	0.014	0.04	11.50	6.0	0.22	145.5	0.32	0.023	1.340
227101		17.00	1.580	2.22	0.048	0.067	0.018	0.009	0.04	10.80	6.2	0.21	91.7	0.52	0.019	1.720
227102		42.7	1.310	1.950	0.035	0.020	0.035	0.011	0.03	11.80	7.2	0.26	100.5	0.20	0.022	0.854
227103		29.5	1.690	2.38	0.056	0.073	0.007	0.009	0.03	13.70	6.1	0.21	137.5	0.34	0.021	1.400
227104		16.10	1.780	2.89	0.041	0.109	0.018	0.017	0.06	12.10	10.4	0.26	217	0.39	0.017	1.725
227105		9.99	1.430	1.860	0.057	0.072	0.012	0.009	0.04	11.45	6.1	0.19	198.5	0.28	0.020	1.095
227106		25.4	1.040	1.675	0.056	0.019	0.011	0.009	0.04	13.20	4.3	0.16	129.0	0.34	0.023	0.989
227107		58.9	3.35	5.17	0.075	0.123	0.023	0.024	0.11	29.5	18.5	0.95	446	0.86	0.031	1.050
227108		72.2	3.66	5.43	0.039	0.028	0.017	0.043	0.04	7.72	14.2	0.44	530	0.31	0.027	0.382

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CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
227047		7.77	0.050	2.66	0.002	<0.001	3.61	0.001	<0.01	0.058	2.29	0.1	0.32	13.75	<0.005	<0.01
227048		8.34	0.040	2.65	<0.001	<0.001	3.58	<0.001	<0.01	0.056	1.870	0.1	0.30	12.00	<0.005	<0.01
227049		7.87	0.040	2.29	0.001	0.001	3.70	<0.001	<0.01	0.053	1.890	0.1	0.23	9.75	<0.005	0.01
227050		13.25	0.043	3.73	<0.001	0.001	4.39	<0.001	0.01	0.251	2.85	<0.1	0.23	13.30	<0.005	0.02
227064		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
227065		8.59	0.043	2.67	<0.001	0.001	3.45	<0.001	<0.01	0.062	1.735	<0.1	0.27	9.65	<0.005	<0.01
227066		40.0	0.040	4.73	<0.001	0.002	4.09	<0.001	0.01	0.548	6.56	0.7	0.17	12.05	<0.005	0.28
227067		32.2	0.051	7.72	<0.001	0.001	9.72	<0.001	0.01	0.903	4.78	0.3	0.56	17.70	<0.005	0.05
227068		13.55	0.016	3.84	<0.001	0.001	3.64	<0.001	0.01	0.086	2.39	0.2	0.44	8.71	<0.005	0.01
227069		7.66	0.042	2.37	0.001	<0.001	2.30	<0.001	<0.01	0.074	1.830	0.1	0.28	10.20	<0.005	0.01
227070		15.30	0.030	3.83	0.002	0.001	4.09	<0.001	<0.01	0.158	4.05	0.2	0.32	11.60	<0.005	0.01
227071		8.75	0.041	2.71	<0.001	<0.001	3.70	<0.001	<0.01	0.077	1.815	0.1	0.29	10.55	<0.005	<0.01
227072		10.40	0.045	3.30	0.001	<0.001	4.85	<0.001	<0.01	0.090	2.32	0.1	0.30	11.30	<0.005	0.01
227073		8.24	0.048	3.06	<0.001	<0.001	4.11	<0.001	<0.01	0.081	3.34	0.1	0.32	12.80	<0.005	0.01
227074		10.15	0.034	2.67	<0.001	0.001	3.14	<0.001	<0.01	0.049	1.695	0.2	0.26	8.87	<0.005	<0.01
227075		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
227076		15.50	0.052	2.84	<0.001	<0.001	3.47	<0.001	0.01	0.152	3.35	<0.1	0.25	12.60	<0.005	0.01
227077		47.7	0.020	12.55	<0.001	0.001	3.69	<0.001	0.02	4.26	5.90	0.5	0.53	14.60	<0.005	0.04
227078		12.05	0.035	3.61	0.002	0.001	3.52	<0.001	0.01	0.139	2.34	0.3	0.31	10.80	<0.005	0.01
227 10 1		9.90	0.034	3.71	<0.001	<0.001	3.44	<0.001	0.01	0.111	2.05	0.2	0.27	8.34	<0.005	0.02
227 102		10.55	0.034	2.36	0.002	<0.001	2.30	<0.001	<0.01	0.071	3.10	0.1	0.22	9.41	<0.005	0.01
227103		9.67	0.026	3.09	<0.001	0.001	2.60	<0.001	<0.01	0.098	1.995	0.1	0.28	9.14	<0.005	0.01
227104		16.95	0.035	5.46	<0.001	0.001	5.77	<0.001	0.01	0.325	2.51	0.3	0.33	8.31	<0.005	<0.01
227 105		11.35	0.048	3.46	<0.001	<0.001	3.62	<0.001	<0.01	0.138	2.10	0.1	0.28	9.43	<0.005	0.01
227 106		7.48	0.042	2.69	<0.001	0.001	2.28	<0.001	<0.01	0.059	2.13	0.1	0.22	9.30	<0.005	<0.01
227 107		36.2	0.053	8.53	<0.001	0.001	11.35	<0.001	0.01	0.962	6.61	0.3	0.50	20.6	<0.005	0.03
227108		21.8	0.013	2.07	0.005	0.004	3.28	<0.001	0.01	0.179	14.40	0.3	0.24	7.54	<0.005	0.01

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CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME-ST44	AuME-ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME-ST44	Cu- OG46	ME- M541L	ME-MS41L	ME-MS41L	ME-M54I L	ME- MS41L
		Th	Ti	TI	U	V	W	y	Zn	Zr	Cu	Au	Ag	Al	As	B
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01	0.001	0.0002	0.001	0.01	0.01	10
227047		4.49	0.063	0.049	0.490	22.9	0.169	6.39	11.3	3.78						
227048		4.12	0.056	0.040	0.370	24.6	0.173	4.56	10.7	2.94						
227049		3.46	0.057	0.037	0.358	20.5	0.122	4.30	10.2	2.55						
227050		4.26	0.052	0.054	0.413	26.9	0.192	6.70	20.3	3.02						
227064		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS		0.0020	0.074	1.29	12.45	10
227065		3.55	0.053	0.030	0.372	24.2	0.139	4.16	10.5	2.10						
227066		2.28	0.003	0.079	0.411	25.8	0.045	10.25	40.1	1.87						
227067		6.76	0.089	0.114	0.638	53.8	0.293	6.36	39.7	5.47						
227068		3.32	0.054	0.046	0.320	28.0	0.194	3.39	15.0	3.32						
227069		3.46	0.058	0.030	0.361	18.9	0.161	4.00	9.1	3.03						
227070		3.82	0.072	0.052	0.490	36.0	0.171	5.27	18.2	4.79						
227071		4.17	0.056	0.038	0.391	25.1	0.165	4.05	10.2	2.93						
227072		4.85	0.063	0.047	0.444	28.0	0.165	5.30	12.7	2.89						
227073		4.98	0.065	0.048	0.554	27.8	0.239	8.24	10.6	3.12						
227074		3.39	0.052	0.034	0.350	21.9	0.127	3.85	10.3	3.27						
227075		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS		0.152	2.21	2.91	682	120
227076		2.90	0.052	0.039	0.418	27.7	0.184	6.81	20.9	1.62						
227077		2.08	0.002	0.050	0.272	15.5	0.080	7.76	44.6	2.69						
227078		4.51	0.065	0.045	0.435	27.9	0.168	4.64	14.3	3.51						
227101		4.12	0.067	0.032	0.401	30.4	0.213	3.81	13.3	3.25						
227102		3.05	0.051	0.022	0.312	27.8	0.156	6.22	15.3	1.24						
227103		5.81	0.066	0.039	0.478	34.4	0.250	4.05	12.9	3.79						
227104		4.57	0.063	0.057	0.437	29.7	0.188	4.52	22.3	4.60						
227105		4.77	0.050	0.041	0.390	24.7	0.183	4.49	11.4	3.84						
227106		3.36	0.047	0.032	0.399	19.4	0.147	6.09	10.3	1.37						
227107		8.00	0.096	0.152	0.697	49.0	0.360	12.10	52.2	6.51						
227108		2.36	0.025	0.045	0.319	66.4	0.057	3.57	51.5	2.05						

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

Page: 5 - E
 Total # Pages: 5 (A - H)
 Plus Appendix Pages
 Finalized Date: 21-JUL- 2016
 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units	ME- MS41L	ME- MS41L	ME- MS41 L	ME-MS41L	ME-MS41L	ME- MS41 L	ME-MS41L	ME- MS41L	ME-MS41L	ME- MS41L	ME- MS41L	ME-MS41 L	ME- MS41L	ME- MS41L	
		Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs %	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm
	LOR	O.S	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005	0.01	0.001	0.004	0.008	0.002	
227047 227048 227049 227050 227064		82.2	0.37	0.140	2.41	0.333	52.3	13.45	31.2	1.320	40.3	2.33	5.41	0.117	0.049	0.105
227065 227066 227067 227068 227069																
227070 227071 227072 227073 227074																
227075 227076 227077 227078 227101		355	2.72	3.04	2.23	2.89	51.3	122.5	481	1.315	9880	29.4	6.73	0.832	0.886	0.004
227102 227103 227104 227105 227106																
227107 227108																

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 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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 Account: GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm
227047		0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002	0.04	0.001	0.005	0.001	0.002	0.005
227048																
227049																
227050																
227064		0.021	0.20	31.6	20.0	1.17	931	2.26	0.007	2.09	22.9	0.069	13.00	<0.001	<0.002	21.7
227065																
227066																
227067																
227068																
227069																
227070																
227071																
227072																
227073																
227074																
227075		5.37	0.64	13.35	15.3	0.76	546	1780	0.577	0.124	185.0	0.052	830	0.023	0.007	21.2
227076																
227077																
227078																
227101																
227102																
227103																
227104																
227105																
227106																
227107																
227108																

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 GGMGDFMX

Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16100882

Sample Description	Method Analyte Units LOR	ME- MS41L	ME-MS41 L	ME-MS41L	ME-MS41L	ME-MS41L	ME- MS41L	ME- MS41L	ME-MS41L	ME- MS41L	ME- MS41L	ME- MS41 L	ME- MS41 L	ME- MS41L	ME-MS41L	ME- MS41L
		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	W ppm
227047 227048 227049 227050 227064		0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01	0.002	0.001	0.002	0.005	0.1	0.001
227065 227066 227067 227068 227069		<0.001	0.04	0.640	5.76	0.6	0.76	26.5	<0.005	0.02	3.58	0.107	0.178	0.496	34.0	0.130
227070 227071 227072 227073 227074																
227075 227076 227077 227078 227101		0.058	0.67	65.4	4.34	4.4	311	281	<0.005	0.22	2.98	0.173	0.702	2.19	104.5	11.25
227102 227103 227104 227105 227106																
227107 227108																

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16100882

Sample Description	Method Analyte Units LOR	ME- MS41L	ME- MS41 L	ME-MS41L
		y ppm	Zn ppm	Zr ppm
227047 227048 227049 227050 227064		13.10	91.6	2.04
227065 227066 227067 227068 227069				
227070 227071 227072 227073 227074				
227075 227076 227077 227078 227101		10.20	8600	45.2
227102 227103 227104 227105 227106				
227107 227108				

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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

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 Plus Appendix Pages
 Finalized Date: 19- AUG- 2016
 Account: GGMGDFMX

CERTIFICATE TB16127103

Project: Greenstone Gold Mines Soil Sam
 P.O . No.: 16-00547
 This report is for 51 Soil samples submitted to our lab in Thunder Bay, ON, Canada on 3-AUG- 2016 .
 The following have access to data associated with this certificate:
 MICHELE COTE TOM SALMI

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG- 22	Sample log in - Red w/o BarCode
SPL- 34	Pulp Splitting Charge
PUL- 31	Pulverize split to 85% < 75 um
SCR-41	Screen to - 1 80um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
AuME- ST44	50g Super Trace Au + Mult i Element PKG	ICP- MS

To: **GREENSTONE GOLD MINES**
ATTN: TOM SALMI
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

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 F. [Redacted]



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To: GREENSTONE GOLD MINES
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 Total# Pages: 3 (A - D)
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 Finalized Date: 19- AUG- 2016
 Account: GG MGDFMX

Project : Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16127103

Sample Description	Method Analyte Units LOR	WEJ- 21	AuME-ST44	AuME- ST44	AuME- ST44	AuME-ST44	Au ME- ST44	AuME- ST44	AuME-ST44	AuME-ST44	AuME- ST44	AuME- ST44	AuME-ST44	Au ME- ST44	AuME- ST44	AuME-ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
27445 1		0.28	0.0584	0.048	1.29	4.55	10	32.8	0.22	0.136	0.08	0.049	13.60	4.82	16.25	1.400
274452		0.31	0.0061	0.030	1.13	6.00	10	17.9	0.13	0.116	0.06	0.037	12.75	5.20	17.45	0.799
274453		0.50	0.0008	0.012	0.85	3.98	10	28.3	0.15	0.090	0.10	0.040	13.70	5.48	21.4	0.456
274454		0.35	0.0018	0.079	1.04	4.93	10	42.4	0.29	0.082	0.24	0.079	20.6	4.97	27.8	1.490
274455		0.59	0.0024	0.017	1.98	6.98	10	28.4	0.41	0.096	0.18	0.051	16.80	11.50	28.6	0.452
274456		0.41	0.0016	0.124	0.89	34.4	10	40.3	0.11	0.051	0.18	0.120	8.35	16.25	29.2	1.435
274457		0.75	0.0111	0.045	1.01	3.68	10	19.7	0.27	0.095	0.31	0.036	23.7	6.48	17.35	0.701
274458		0.48	0.0014	0.041	1.41	2.33	10	30.9	0.36	0.071	0.08	0.020	25.0	6.34	21.2	0.785
274459		0.28	0.0020	0.068	1.48	4.49	10	44.4	0.16	0.182	0.47	0.167	14.90	21.4	47.1	1.270
274460		0.34	0.0064	0.178	1.37	2.43	10	47.5	0.38	0.118	0.77	0.155	20.8	7.92	27.7	1.015
27446 1		0.23	0.0033	0.138	2.50	9.48	10	51.8	0.56	0.187	0.31	0.249	20.0	29.3	27.7	1.370
274462		0.52	0.0009	0.054	0.49	1.40	10	15.6	0.20	0.035	3.59	0.036	26.0	3.42	13.80	0.282
274463		0.16	0.0032	0.088	1.16	4.11	10	30.7	0.26	0.081	0.14	0.076	13.35	5.37	16.75	0.83 1
274464		0.37	0.0100	0.170	1.86	115.0	10	58.0	0.40	0.113	0.47	0.122	21.2	8.16	19.00	2.10
274465		0.52	0.0085	0.010	0.82	2.69	10	23.2	0.13	0.061	0.18	0.024	17.90	4.30	18.35	0.68 0
274466		0.57	0.0013	0.007	1.54	2.51	10	18.8	0.27	0.068	0.09	0.014	18.85	5.11	18.00	0.540
274468		0.28	0.0001	0.087	1.01	6.93	10	21.4	0.16	0.115	0.07	0.056	10.40	4.66	12.50	0.526
274469		0.48	0.0112	0.643	0.47	117.5	10	12.0	0.19	0.920	0.31	0.114	29.7	64.2	6.97	1.540
274470		0.68	0.0019	0.032	0.72	2.99	10	24.6	0.19	0.060	0.18	0.029	24.5	5.72	19.70	0.715
274471		0.33	0.0011	0.020	1.25	3.98	10	28.3	0.30	0.080	0.08	0.035	23.5	5.38	20.2	0.851
274472		0.35	0.0036	0.016	0.96	5.57	10	23.6	0.17	0.098	0.09	0.051	15.55	4.80	18.40	0.943
274473		0.52	0.0002	0.016	0.87	1.39	10	27.7	0.17	0.041	0.19	0.035	26.4	4.55	10.65	1.365
274475		0.52	0.0010	0.090	1.20	3.28	10	55.1	0.24	0.074	0.26	0.041	25.3	5.87	22.5	0.778
274476		0.40	0.0007	0.096	1.26	2.28	10	75.7	0.30	0.108	0.42	0.094	24.5	6.07	20.4	1.450
274477		0.64	0.0028	0.017	1.59	6.33	10	57.1	0.37	0.118	0.43	0.038	22.3	9.03	29.7	0.792
274478		0.30	0.0005	0.046	0.83	2.15	10	27.2	0.22	0.060	0.26	0.046	19.95	4.36	15.45	0.522
274479		0.46	0.0002	0.040	1.53	2.56	10	68.0	0.20	0.093	0.09	0.084	13.95	10.80	31.1	0.775
274480		0.37	0.0005	0.007	0.89	2.69	10	19.6	0.21	0.079	0.10	0.031	16.05	3.33	16.10	0.543
274481		0.35	0.0021	0.050	1.33	3.66	10	53.3	0.37	0.077	0.18	0.071	30.0	6.52	19.85	1.420
274483		0.60	0.0001	0.021	0.91	1.62	10	26.9	0.25	0.051	0.11	0.025	14.00	3.52	14.20	0.343
274484		0.69	0.0009	0.005	0.61	1.02	10	15.2	0.18	0.037	0.16	0.006	27.0	2.49	12.45	0.455
274485		0.56	0.0028	0.008	0.94	1.47	10	26.6	0.19	0.059	0.06	0.018	17.45	2.70	14.75	0.536
274486		0.68	0.0015	0.153	1.98	11.70	10	28.0	0.28	0.113	0.63	0.096	35.5	29.9	15.05	2.26
274487		0.55	0.0001	0.028	1.12	2.21	10	21.4	0.21	0.056	0.09	0.027	15.25	3.83	15.35	0.930
274488		0.80	0.0014	0.039	0.99	2.34	10	46.6	0.23	0.074	0.37	0.044	19.45	4.59	18.95	0.743
274489		0.67	0.0017	0.022	2.02	2.77	10	25.7	0.45	0.090	0.28	0.037	21.6	14.30	55.4	0.820
274490		0.44	0.0008	0.031	1.63	3.18	10	37.1	0.36	0.115	0.06	0.100	14.85	3.40	17.40	1.265
2744 91		0.59	0.0004	0.008	0.58	1.06	10	16.8	0.15	0.037	0.03	0.013	11.45	2.12	9.28	0.298
27500 1		1.46	0.0015	0.029	0.70	5.22	10	23.3	0.33	0.067	0.71	0.040	43.4	7.75	23.9	0.682
275002		1.09	0.0081	0.026	0.60	4.66	10	22.4	0.20	0.058	0.19	0.031	25.8	4.87	25.1	0.815



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To: GREENSTONE GOLD MINES
 1 35 HARDROCK ROAD
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 Finalized Date: 19- AUG- 2016
 Account: GGMGDFMX

Project : Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16127103

Sample Description	Method Analyte Units LOR	Au ME- ST44	Au ME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
274451		14.10	2.05	6.62	0.047	0.026	0.055	0.013	0.03	7.08	8.2	0.20	101.0	3.45	0.087	1.605
274452		17.05	3.21	7.27	0.041	0.037	0.027	0.019	0.02	6.55	10.3	0.24	81.7	1.94	0.047	1.390
274453		6.15	1.760	4.25	0.037	0.042	0.022	0.013	0.03	6.89	10.6	0.26	121.0	0.48	0.019	1.010
274454		396	1.320	3.02	0.046	0.016	0.022	0.015	0.02	10.65	6.3	0.18	165.5	0.51	0.006	0.705
274455		24.7	2.39	4.14	0.039	0.090	0.026	0.022	0.02	7.40	12.7	0.24	105.0	0.54	0.007	1.455
274456		37.6	3.36	3.48	0.045	0.011	0.032	0.028	0.02	4.18	9.0	0.20	599	0.28	0.008	0.272
274457		22.8	1.530	2.48	0.042	0.031	0.024	0.012	0.01	10.40	7.3	0.21	105.0	0.45	0.006	0.801
274458		11.80	1.410	3.23	0.040	0.116	0.025	0.015	0.02	9.10	7.8	0.17	62.2	0.33	0.006	1.155
274459		34.1	3.96	5.98	0.056	0.059	0.051	0.036	0.03	6.77	13.9	0.47	341	1.16	0.009	0.531
274460		71.4	2.39	4.54	0.051	0.027	0.049	0.028	0.02	11.55	8.8	0.24	197.0	0.74	0.075	0.836
274461		44.0	7.40	10.90	0.093	0.033	0.087	0.040	0.04	7.80	15.0	0.49	1500	2.39	0.162	1.155
274462		22.9	0.690	1.810	0.056	0.035	0.033	0.006	0.02	13.90	5.6	1.19	86.9	0.10	0.008	0.552
274463		12.95	1.700	4.07	0.039	0.068	0.039	0.012	0.02	5.93	7.4	0.20	109.0	0.59	0.063	1.270
274464		185.5	1.800	4.75	0.046	0.062	0.052	0.016	0.03	11.00	9.6	0.26	309	2.22	0.008	0.951
274465		5.12	0.990	3.58	0.041	0.010	0.013	0.011	0.02	8.67	10.7	0.21	78.2	0.48	0.006	0.700
274466		19.60	1.440	2.89	0.045	0.117	0.031	0.018	0.02	8.90	8.6	0.17	65.8	0.83	0.007	1.270
274468		12.90	2.88	4.06	0.038	0.050	0.037	0.022	0.02	5.15	7.3	0.12	223	0.86	0.042	0.746
274469		366	8.94	1.600	0.125	0.087	0.653	0.253	0.01	10.90	1.8	0.04	443	2.64	0.075	0.038
274470		41.2	1.310	2.14	0.057	0.035	0.015	0.011	0.02	9.89	7.1	0.24	133.5	0.50	0.006	0.568
274471		12.05	1.870	3.48	0.041	0.076	0.044	0.013	0.02	8.78	10.4	0.18	81.2	0.54	0.088	1.350
274472		11.85	1.850	3.62	0.032	0.024	0.036	0.014	0.02	7.17	8.7	0.16	73.6	0.50	0.178	0.910
274473		7.64	1.320	1.930	0.033	0.042	0.012	0.015	0.02	8.96	4.6	0.10	124.0	0.17	0.142	0.640
274475		18.75	1.960	3.19	0.037	0.020	0.031	0.018	0.02	9.87	7.4	0.20	144.0	0.50	0.012	0.803
274476		14.40	1.690	3.12	0.038	0.044	0.018	0.015	0.03	10.05	7.3	0.25	420	0.25	0.009	0.759
274477		10.80	2.28	4.46	0.037	0.072	0.017	0.025	0.02	9.27	13.0	0.28	91.1	0.46	0.007	1.365
274478		13.25	1.140	2.55	0.032	0.025	0.016	0.010	0.02	9.22	5.7	0.18	227	0.14	0.067	0.619
274479		25.6	3.10	4.87	0.032	0.043	0.039	0.023	0.03	6.06	10.3	0.26	322	0.81	0.043	0.435
274480		8.78	1.640	3.81	0.031	0.060	0.021	0.010	0.02	7.83	8.0	0.13	53.8	0.33	0.006	1.245
274481		33.3	1.620	3.69	0.040	0.067	0.024	0.014	0.02	10.60	6.9	0.20	84.4	0.60	0.007	1.020
274483		3.04	1.220	2.56	0.039	0.018	0.014	0.005	0.02	6.13	6.6	0.14	71.4	0.13	0.006	0.764
274484		3.67	0.800	2.18	0.041	0.030	0.004	<0.005	0.01	12.50	5.3	0.15	48.0	0.11	0.006	0.597
274485		5.73	1.040	2.94	0.038	0.051	0.015	0.013	0.01	8.54	5.3	0.13	44.4	0.23	0.006	0.772
274486		106.0	4.54	6.37	0.085	0.075	0.138	0.033	0.02	16.95	16.4	0.30	1550	1.83	0.065	0.359
274487		6.41	1.340	3.03	0.044	0.057	0.024	0.010	0.02	7.11	6.8	0.14	53.7	0.36	0.006	1.305
274488		11.85	1.390	3.05	0.049	0.021	0.016	0.011	0.02	11.05	11.0	0.25	124.0	0.17	0.007	0.816
274489		18.60	3.12	7.50	0.046	0.192	0.020	0.019	0.02	9.61	26.5	0.88	240	0.20	0.007	0.916
274490		15.80	1.800	5.02	0.027	0.059	0.050	0.018	0.02	7.11	11.1	0.11	53.7	0.91	0.050	1.315
274491		3.72	0.570	1.550	0.016	0.052	0.016	0.005	0.01	4.12	3.7	0.07	30.1	0.17	0.020	0.274
275001		15.15	1.560	2.88	0.070	0.154	0.015	0.007	0.08	30.1	9.6	0.49	243	0.27	0.022	0.143
275002		205	1.410	2.37	0.038	0.025	0.015	0.012	0.04	13.00	6.2	0.17	170.5	0.78	0.047	0.206

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To: GREENSTONE GOLD MINES
 1 3 5 HARDROCK ROAD
 GERALDTON ON POT 1 MO

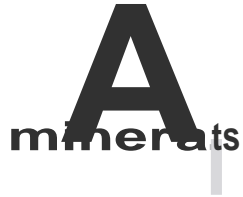
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 Account: GGMGDFMX

Project : Greenstone Gold Mines Soil Sam

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Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
274451		10.85	0.027	10.20	<0.001	<0.001	5.30	<0.001	0.11	0.151	1.770	0.4	0.65	5.00	<0.005	0.03
274452		10.35	0.014	4.84	0.001	0.001	2.19	<0.001	0.07	0.221	2.05	0.3	0.50	4.20	<0.005	0.06
274453		12.80	0.017	4.98	<0.001	<0.001	6.53	<0.001	0.03	0.161	1.575	0.2	0.42	4.75	<0.005	0.01
27 4454		47.6	0.023	4.32	0.001	<0.001	3.54	0.001	0.02	0.106	3.00	0.4	0.32	4.76	<0.005	0.03
27 4455		28.4	0.020	3.48	0.001	0.001	2.45	<0.001	0.03	0.171	2.67	0.3	0.35	7.37	<0.005	0.03
274456		50.7	0.017	2.07	0.002	0.006	4.49	<0.001	0.02	0.118	11.05	0.2	0.29	6.97	<0.005	0.02
274457		14.85	0.018	3.16	0.001	<0.001	2.06	<0.001	0.03	0.122	2.78	0.3	0.22	5.27	<0.005	0.03
274458		15.05	0.024	4.67	<0.001	<0.001	3.89	<0.001	0.02	0.064	2.13	0.2	0.38	4.91	<0.005	0.01
274459		44.0	0.027	9.28	<0.001	0.001	4.00	<0.001	0.06	0.281	5.88	0.5	0.41	9.67	<0.005	0.06
274460		17.60	0.035	4.91	0.001	0.001	4.13	0.001	0.11	0.155	5.71	0.7	0.39	11.70	<0.005	0.03
27446 1		20.4	0.060	13.80	0.004	0.002	4.83	<0.001	0.23	0.216	5.51	0.9	0.66	7.57	<0.005	0.11
27 4462		7.42	0.049	2.25	<0.001	<0.001	1.885	0.001	0.02	0.055	2.57	0.3	0.20	21.2	<0.005	0.02
27446 3		10.85	0.019	5.79	<0.001	<0.001	3.95	<0.001	0.09	0.149	1.720	0.2	0.39	5.57	<0.005	0.01
274464		22.6	0.018	6.47	0.005	0.001	5.14	<0.001	0.03	0.209	4.52	0.6	0.47	7.26	<0.005	<0.01
27446 5		12.45	0.038	3.75	<0.001	<0.001	2.32	<0.001	0.03	0.065	1.440	0.2	0.32	7.28	<0.005	<0.01
274466		10.00	0.012	4.28	<0.001	0.001	2.10	<0.001	0.03	0.087	1.835	0.4	0.32	4.77	<0.005	0.01
27 4468		9.48	0.023	3.86	<0.001	0.001	2.66	<0.001	0.06	0.276	1.380	0.4	0.42	3.57	<0.005	0.05
27 4469		95.6	0.029	39.1	0.015	0.002	1.215	0.001	0.11	7.03	12.00	2.7	0.71	7.24	<0.005	3.80
274470		17.00	0.025	3.18	<0.001	<0.001	3.22	<0.001	0.02	0.145	2.60	0.3	0.25	5.72	<0.005	0.02
27447 1		1 2.65	0.015	4.95	<0.001	<0.001	3.36	<0.001	0.11	0.133	1.645	0.4	0.39	4.85	<0.005	0.04
274 472		12.80	0.020	4.26	0.001	<0.001	4.29	<0.001	0.19	0.182	1.435	0.2	0.40	5.07	<0.005	0.01
274473		9.11	0.018	2.38	0.001	<0.001	2.83	<0.001	0.15	0.091	1.440	0.2	0.23	6.86	<0.005	0.02
274475		20.4	0.017	3.19	<0.001	<0.001	3.85	<0.001	0.03	0.096	2.24	0.3	0.36	8.55	<0.005	< 0.01
27 4 476		15.15	0.018	5.31	0.001	<0.001	6.32	<0.001	0.03	0.095	2.95	0.1	0.42	13.25	<0.005	0.01
27 4 477		22.2	0.013	5.58	<0.001	<0.001	4.92	<0.001	0.02	0.150	2.44	0.1	0.46	9.38	<0.005	0.02
274478		11.70	0.013	3.59	0.001	<0.001	3.15	<0.001	0.08	0.068	2.36	0.2	0.34	8.10	<0.005	0.01
274 479		35.2	0.026	4.59	0.001	<0.001	6.69	<0.001	0.06	0.133	2.94	0.2	0.34	5.71	<0.005	0.01
27 4 480		7.87	0.013	4.59	<0.001	<0.001	2.31	<0.001	0.03	0.069	1.360	0.3	0.41	5.37	<0.005	0.03
274 481		12.75	0.027	4.64	0.001	<0.001	3.96	<0.001	0.02	0.102	2.36	0.2	0.39	7.61	<0.005	0.01
274483		9.43	0.031	3.05	< 0.001	<0.001	3.87	<0.001	0.02	0.056	1.085	0.2	0.24	4.40	<0.005	<0.01
27 4484		6.73	0.015	2.73	0.001	<0.001	1.755	<0.001	0.02	0.023	1.585	0.1	0.22	6.69	<0.005	<0.01
27448 5		7.01	0.011	3.58	0.001	0.001	2.35	<0.001	0.02	0.062	1.390	0.1	0.32	3.80	<0.005	0.01
274486		30.7	0.040	6.75	0.003	0.001	2.99	0.001	0.09	0.823	15.00	0.7	0.27	9.61	<0.005	0.06
27448 7		8.07	0.025	3.53	<0.001	0.001	2.91	<0.001	0.02	0.055	1.425	0.3	0.34	3.96	<0.005	0.01
27 4488		13.25	0.029	3.57	0.001	<0.001	4.84	0.001	0.03	0.079	2.94	0.2	0.31	11.65	<0.005	0.02
274489		40.9	0.005	6.58	0.002	<0.001	4.36	<0.001	0.02	0.168	4.96	0.3	0.53	8.29	<0.005	0.02
27 4490		8.06	0.023	12.50	<0.001	<0.001	2.81	<0.001	0.08	0.092	2.10	0.5	0.53	4.48	<0.005	0.02
27 4491		4.95	0.005	2.70	<0.001	<0.001	1.250	<0.001	0.03	0.022	0.803	0.2	0.16	1.77	<0.005	0.01
275001		15.35	0.029	4.17	<0.001	<0.001	9.79	<0.001	0.02	0.176	4.20	0.2	0.23	11.40	<0.005	0.01
27500 2		20.3	0.025	3.02	0.001	<0.001	3.17	<0.001	0.04	0.099	3.10	0.2	0.20	7.27	<0.005	0.05

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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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 Finalized Date: 19- AUG- 2016
 Account: GGMGDFMX

Project : Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16127103

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST 44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Th ppm 0.002	Ti % 0.001	Ti ppm 0.002	U ppm 0.005	V ppm 0.1	W ppm 0.001	y ppm 0.003	Zn ppm 0.1	Zr ppm 0.01
274451		1.260	0.047	0.060	0.314	44.5	0.134	1.505	27.3	1.15
274452		1.750	0.042	0.039	0.214	50.6	0.157	1.150	13.8	1.60
274453		2.70	0.058	0.045	0.242	34.7	0.172	1.630	21.9	1.95
274454		1.370	0.030	0.058	0.450	19.6	0.089	6.22	22.4	0.60
274455		2.19	0.041	0.035	0.285	29.0	0.152	2.74	22.7	3.38
274456		0.910	0.004	0.038	0.175	43.1	0.050	2.20	53.1	0.39
274457		1.820	0.034	0.038	0.371	20.6	0.112	4.87	14.0	1.29
274458		3.56	0.063	0.047	0.402	23.8	0.141	2.92	11.0	4.38
274459		1.260	0.011	0.046	0.230	53.8	0.087	1.940	46.0	2.75
274460		0.668	0.015	0.051	0.497	33.2	0.084	7.54	23.3	1.05
274461		1.010	0.044	0.077	0.422	102.0	0.332	4.18	46.8	1.21
274462		1.910	0.032	0.039	0.278	14.5	0.086	7.97	10.1	1.71
274463		1.705	0.044	0.046	0.232	33.0	0.138	1.735	14.8	2.67
274464		2.55	0.041	0.084	0.395	30.9	0.101	7.01	56.8	2.13
274465		1.305	0.039	0.045	0.347	19.4	0.071	2.72	14.7	0.50
274466		2.97	0.052	0.038	0.372	21.9	0.124	2.73	12.0	4.39
274468		1.350	0.010	0.043	0.198	20.2	0.099	1.255	36.6	1.64
274469		2.77	<0.001	0.961	0.216	8.1	0.051	8.33	53.2	3.86
274470		3.16	0.048	0.033	0.733	19.7	0.097	3.82	14.7	1.78
274471		2.55	0.056	0.042	0.391	24.5	0.107	2.24	15.2	3.15
274472		1.910	0.036	0.038	0.272	28.1	0.121	1.430	17.5	1.24
274473		1.755	0.020	0.025	0.309	13.7	0.067	2.73	17.9	2.14
274475		1.755	0.037	0.044	0.321	23.2	0.104	4.58	22.5	0.96
274476		2.60	0.038	0.053	0.326	19.7	0.061	4.17	38.1	1.68
274477		3.46	0.067	0.056	0.383	36.8	0.305	3.16	17.0	2.91
274478		2.32	0.038	0.036	0.332	16.4	0.081	4.03	14.7	1.21
274479		1.535	0.008	0.063	0.212	27.2	0.045	1.800	37.3	1.85
274480		2.25	0.052	0.030	0.261	25.5	0.142	2.02	10.6	2.25
274481		3.45	0.059	0.052	0.405	27.8	0.183	3.58	15.5	2.99
274483		1.710	0.041	0.027	0.235	20.4	0.103	1.945	11.4	0.78
274484		2.60	0.046	0.039	0.324	16.7	0.093	3.71	6.6	1.69
274485		2.93	0.052	0.036	0.290	19.7	0.096	2.01	8.0	2.63
274486		0.984	0.011	0.075	0.342	22.9	0.133	23.1	42.1	2.06
274487		2.15	0.056	0.029	0.263	23.8	0.123	2.14	8.9	2.26
274488		1.745	0.043	0.042	0.434	19.3	0.099	4.92	16.5	0.80
274489		3.40	0.112	0.074	0.494	50.7	0.168	4.96	35.2	7.50
274490		1.800	0.029	0.043	0.368	40.5	0.117	2.15	39.8	2.07
274491		1.640	0.015	0.025	0.158	12.2	0.014	1.360	4.9	2.02
275001		5.11	0.033	0.093	0.374	25.1	0.030	10.20	24.2	6.36
275002		4.07	0.022	0.035	0.491	23.3	0.068	5.19	14.1	1.72



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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16127103

Sample Description	Method Analyte Units LOR	WEI- 21	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
275003		1.16	0.0025	0.017	0.62	1.98	10	19.2	0.23	0.045	0.17	0.015	35.1	5.44	17.40	0.423
275004		1.14	0.0050	0.055	0.65	2.20	10	23.1	0.26	0.065	0.22	0.041	22.4	4.70	17.60	0.657
275005		1.25	0.0011	0.029	0.31	15.90	10	9.3	0.14	0.024	0.16	0.023	15.05	1.840	11.25	0.243
275006		1.58	0.0009	0.020	0.28	1.51	10	14.2	0.11	0.026	0.16	0.017	15.80	2.26	9.19	0.225
275007		0.99	0.0014	0.017	0.51	1.36	10	22.7	0.17	0.044	0.19	0.041	21.2	3.14	10.40	1.475
275008		0.76	0.0023	0.211	0.78	44.9	<10	55.0	0.30	0.317	0.11	0.130	28.3	38.9	24.7	1.045
2750 09		1.87	0.0015	0.057	0.84	3.80	10	40.5	0.30	0.090	0.26	0.076	28.0	8.58	24.3	0.816
2750 10		1.63	0.0002	0.017	0.40	1.67	10	15.9	0.21	0.035	0.18	0.028	32.9	3.66	13.85	0.230
2750 11		1.60	0.0006	0.010	0.43	1.53	10	18.5	0.19	0.035	0.21	0.008	25.0	2.60	16.25	0.236
275012		1.27	0.0007	0.010	0.46	1.68	10	8.9	0.14	0.031	0.11	0.013	25.9	2.74	12.05	0.415
2750 13		1.71	0.0012	0.014	0.56	1.56	10	24.4	0.24	0.039	0.22	0.014	24.1	2.94	16.20	0.296



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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16127103

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST4 4	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
275003		9.63	1.090	1.825	0.035	0.120	0.015	0.006	0.05	12.40	5.5	0.14	132.5	0.32	0.063	0.256
275004		28.7	1.200	2.42	0.033	0.033	0.026	0.009	0.03	10.80	7.5	0.17	126.5	0.45	0.047	0.183
2750 0 5		42.7	0.670	1.230	0.021	0.025	0.012	<0.005	0.02	6.86	3.5	0.09	56.8	1.14	0.018	0.093
275006		7.58	0.570	1.140	0.020	0.032	0.017	0.005	0.02	7.87	4.1	0.11	57.5	0.09	0.014	0.092
275007		6.86	0.970	1.675	0.029	0.057	0.016	0.009	0.03	11.15	4.8	0.11	110.0	0.11	0.051	0.193
275008		157.0	3.27	1.730	0.059	0.082	0.061	0.041	0.07	10.55	7.0	0.06	842	1.70	0.102	0.020
275009		21.7	1.630	3.30	0.032	0.041	0.024	0.017	0.03	12.05	11.6	0.24	155.0	0.29	0.056	0.283
275010		6.93	0.880	1.790	0.044	0.091	0.012	<0.005	0.04	16.05	5.9	0.15	150.0	0.12	0.064	0.129
27 50 11		5.73	1.030	1.845	0.039	0.108	0.014	0.005	0.05	10.30	5.1	0.13	111.5	0.27	0.101	0.212
275012		8.00	0.650	1.590	0.022	0.097	0.013	0.006	0.02	8.87	4.8	0.12	57.8	0.16	0.038	0.203
27501 3		4.82	0.950	2.15	0.036	0.102	0.013	0.006	0.04	11.55	6.7	0.15	72.0	0.20	0.060	0.092



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB1612710 3

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
27500 3		10.55	0.030	2.64	<0.001	<0.001	3.73	<0.001	0.05	0.049	1.770	0.2	0.24	9.71	<0.005	0.01
275004		11.50	0.030	3.15	0.001	<0.001	3.08	<0.001	0.05	0.101	3.85	0.1	0.21	7.66	<0.005	0.01
27500 5		5.13	0.031	1.400	0.001	<0.001	1.750	<0.001	0.02	0.049	1.415	0.1	0.12	5.36	<0.005	0.01
27500 6		6.11	0.029	1.420	<0.001	<0.001	1.945	<0.001	0.02	0.030	1.545	<0.1	0.12	6.72	<0.005	<0.01
27500 7		9.47	0.014	2.57	<0.001	<0.001	4.40	<0.001	0.05	0.026	2.04	0.1	0.20	7.28	<0.005	0.01
275008		96.8	0.020	9.26	0.001	0.001	3.87	0.001	0.09	0.133	5.05	0.9	0.13	8.14	<0.005	0.57
275009		17.25	0.013	5.03	0.001	<0.001	5.76	<0.001	0.06	0.105	3.97	0.2	0.29	7.51	<0.005	0.02
275010		8.22	0.035	2.44	<0.001	<0.001	3.95	<0.001	0.06	0.046	2.15	0.1	0.19	8.70	<0.005	0.01
275011		7.87	0.030	2.08	0.001	<0.001	3.17	<0.001	0.09	0.031	1.740	0.1	0.28	12.40	<0.005	0.02
27501 2		5.98	0.026	2.08	<0.001	<0.001	2.19	<0.001	0.04	0.014	1.240	0.1	0.19	5.53	<0.005	0.01
2750 1 3		7.76	0.039	2.77	0.002	<0.001	2.04	<0.001	0.05	0.019	2.06	0.1	0.26	11.15	<0.005	0.01



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To: **GREENSTONE COLD MINES**
135 HARDROCK ROAD
CERALDTON ON POT 1 MO

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16127103

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Th ppm 0.002	Ti % 0.001	Ti ppm 0.002	U ppm 0.005	v ppm 0.1	w ppm 0.001	y ppm 0.003	Zn ppm 0.1	Zr ppm 0.01
275003		3.63	0.035	0.036	0.356	18.0	0.038	4.09	9.0	5.01
275004		3.08	0.016	0.032	0.318	20.1	0.030	5.46	14.1	2.15
275005		2.35	0.015	0.020	0.218	13.8	0.030	3.22	8.2	1.64
275006		1.995	0.016	0.022	0.223	10.0	0.016	3.53	7.7	1.84
275007		2.89	0.013	0.028	0.381	11.9	0.018	4.44	18.5	3.11
275008		1.555	<0.001	0.232	0.316	8.9	0.008	9.29	39.4	4.10
275009		3.69	0.021	0.052	0.401	30.9	0.039	4.92	20.6	2.67
27501 0		3.93	0.030	0.046	0.361	17.7	0.053	5.66	9.7	4.26
27 50 11		3.37	0.041	0.035	0.356	18.0	0.050	4.11	7.4	4.82
2750 1 2		3.39	0.035	0.026	0.295	15.6	0.027	2.68	7.6	4.04
27501 3		3.06	0.030	0.036	0.326	21.1	0.026	5.06	9.9	5.05



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To: GREENSTONE GOLD MINES
135 HARDROCK ROAD
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16127103

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.
LOG- 22 PUL- 31 SCR- 41
WEI- 21

SPL- 34

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
AuME- ST44



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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT I MO

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 Account: GGMCDFMX

CERTIFICATE TBI 6154429

Project: Greenstone Gold Mines Soil Sam
 P. O. No.: 16- 00547
 This report is for 125 Soil samples submitted to our lab in Thunder Bay, ON, Canada on 13-SEP-2016.

The following have access to data associated with this certificate:
 MICHELE COTE | TOM SALMI

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Red w/o BarCode
SPL- 34	Pulp Splitting Charge
PUL- 31	Pulverize split to 85% < 75 um
SCR- 41	Screen to - 1 80um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
AuME- ST44	50g Super Trace Au + Multi Element PKG	ICP- MS

To: **GREENSTONE GOLD MINES**
ATTN: TOM SALMI
135 HARDROCK ROAD
GERALDTON ON POT I MO

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 [Redacted Signature]



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To: GREENSTONE GOLD MINES
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16 154429

Sample Description	Method Analyte Units LOR	WEI- 21	AuME - ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
208501		0.26	0.0047	0.037	0.81	2.21	<10	25.3	0.18	0.194	0.10	0.084	9.00	4.28	9.70	0.429
208502		0.29	0.0031	0.059	0.75	2.19	<10	17.3	0.15	0.096	0.08	0.019	11.60	2.35	17.80	0.816
208503		0.44	0.0018	0.084	1.58	3.72	<10	22.0	0.36	0.088	0.07	0.033	14.30	7.22	20.4	0.637
208504		0.54	0.0033	0.040	0.94	2.65	10	30.6	0.22	0.068	0.06	0.017	13.15	3.50	17.75	0.581
208505		0.51	0.0042	0.024	0.84	1.87	10	14.3	0.28	0.042	0.12	0.014	23.5	4.65	16.75	0.552
208506		0.49	0.0007	0.042	0.96	2.44	<10	11.8	0.22	0.058	0.06	0.024	10.10	3.56	15.30	0.497
208507		0.30	0.0037	0.122	0.84	8.00	<10	25.9	0.18	0.155	0.06	0.076	11.80	3.08	17.55	0.787
208508		0.53	0.0007	0.037	0.72	2.12	<10	16.2	0.22	0.044	0.12	0.025	19.65	3.08	14.65	0.352
208509		0.51	0.0005	0.062	0.96	2.58	<10	23.0	0.23	0.076	0.07	0.014	12.05	3.52	11.85	0.503
208510		0.57	0.0007	0.030	0.93	4.78	<10	26.4	0.19	0.179	0.06	0.033	18.45	2.74	13.50	0.866
208511		0.50	0.0012	0.030	0.95	3.79	<10	22.7	0.26	0.075	0.08	0.021	15.55	4.50	17.00	0.470
208512		0.48	0.0010	0.043	0.93	4.29	10	14.8	0.35	0.083	0.09	0.016	16.45	4.11	15.60	0.464
208513		0.38	0.0062	0.408	1.31	29.3	<10	794	0.92	0.182	0.57	1.350	35.7	53.0	31.0	1.635
208514		0.53	0.0107	0.012	1.11	4.35	<10	36.6	0.25	0.091	0.11	0.025	14.30	7.84	20.8	0.939
208515		0.62	0.0010	0.079	1.08	2.40	<10	25.9	0.26	0.062	0.08	0.012	21.1	3.87	16.50	0.601
208516		0.50	0.0021	0.035	0.79	2.37	<10	24.0	0.23	0.052	0.29	0.028	15.80	3.64	16.30	0.481
208551		0.33	0.0034	0.063	1.96	40.0	<10	24.9	0.49	0.480	0.07	0.105	46.2	26.7	39.7	0.737
208552		0.37	0.0026	0.084	1.35	8.87	<10	24.3	0.29	0.108	0.25	0.152	16.35	11.10	29.3	0.696
208553		0.29	0.0010	0.021	1.69	9.99	<10	26.0	0.34	0.096	0.06	0.056	13.20	6.47	26.3	0.971
208554		0.34	0.0019	0.064	1.28	7.15	<10	39.6	0.39	0.172	0.07	0.061	18.70	6.51	22.0	1.020
208555		0.30	0.0031	0.027	0.97	5.27	10	31.3	0.30	0.116	0.13	0.048	19.15	5.12	17.90	0.869
208556		0.34	0.0008	0.051	0.87	9.91	<10	19.9	0.27	0.173	0.05	0.068	16.50	4.80	16.45	0.831
208557		0.39	0.0152	0.076	1.04	3.50	<10	20.1	0.30	0.082	0.05	0.043	13.85	3.90	16.10	0.713
208558		0.37	0.0017	0.057	1.22	6.52	<10	22.4	0.26	0.120	0.07	0.056	12.95	4.48	19.70	0.622
208559		0.25	0.0008	0.131	1.22	7.21	<10	37.9	0.30	0.164	0.08	0.087	16.95	5.24	23.8	1.085
208560		0.28	0.0086	0.060	1.18	4.76	10	31.6	0.31	0.085	0.10	0.043	17.00	5.29	17.15	0.820
208561		0.36	0.0014	0.060	0.98	4.60	<10	21.6	0.21	0.079	0.07	0.043	12.05	3.99	18.00	0.583
208562		0.33	0.0035	0.066	1.20	5.21	<10	32.8	0.35	0.130	0.14	0.042	14.90	7.49	19.35	0.945
208563		0.40	0.0034	0.046	1.46	10.35	<10	34.5	0.32	0.135	0.07	0.038	13.95	8.91	21.3	0.790
208564		0.39	0.0011	0.164	1.24	2.28	<10	40.7	0.34	0.117	0.10	0.030	15.00	4.57	15.60	1.045
208565		0.57	0.0005	0.016	0.76	1.24	<10	10.2	0.22	0.053	0.18	0.011	16.40	3.38	11.75	0.684
208566		0.42	0.0103	0.174	1.00	6.25	<10	23.9	0.22	0.093	0.04	0.028	14.75	3.52	17.25	0.834
208567		0.49	0.0018	0.090	0.48	3.30	<10	18.8	0.19	0.054	0.21	0.026	22.6	3.53	15.25	0.610
208568		0.60	0.0046	0.116	1.80	20.5	<10	42.0	0.43	0.186	0.07	0.195	16.75	8.80	26.9	2.08
208569		0.46	0.0040	0.584	1.75	8.96	<10	79.9	0.74	0.167	0.33	1.420	24.5	9.79	24.5	2.20
208570		0.58	0.0014	0.088	1.00	5.88	<10	32.2	0.24	0.084	0.07	0.079	13.60	4.36	14.85	1.570
208571		0.56	0.0007	0.008	0.52	1.61	10	14.9	0.16	0.048	0.21	0.024	15.35	4.30	16.75	0.248
208572		0.61	0.0004	0.006	1.08	5.95	10	19.9	0.22	0.094	0.07	0.020	16.70	3.83	16.85	0.555
208573		0.44	0.0040	0.014	1.12	40.6	10	32.3	0.23	0.109	0.08	0.035	14.95	6.29	44.4	0.486
208574		0.55	0.0022	0.023	0.65	4.61	10	19.2	0.13	0.108	0.10	0.019	15.80	3.51	12.90	0.570



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To: GREENSTONE GOLD MINES
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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
208501		21.9	3.53	14.50	0.021	0.112	0.039	0.013	0.02	4.44	2.8	0.12	76.1	1.51	0.006	2.98
208502		6.82	1.580	4.08	0.019	0.041	0.051	0.008	0.01	5.81	4.7	0.11	46.8	0.90	0.005	1.855
208503		17.90	1.460	2.83	0.021	0.082	0.090	0.013	0.02	6.11	7.7	0.19	65.9	0.43	0.004	1.580
208504		8.06	1.320	2.89	0.020	0.066	0.069	0.011	0.01	5.70	6.5	0.15	49.7	0.44	0.005	1.675
208505		2.91	1.130	1.820	0.033	0.080	0.05 0	0.009	0.01	7.47	6.3	0.13	67.5	0.23	0.005	1.495
208506		3.70	1.280	2.74	0.019	0.058	0.069	0.008	0.01	5.16	7.0	0.10	39.3	0.35	0.004	1.605
208 50 7		8.94	2.05	5.22	0.017	0.017	0.083	0.009	0.03	6.17	5.5	0.13	62.7	1.42	0.005	1.495
208508		16.30	0.950	2.15	0.025	0.031	0.054	0.007	0.01	7.58	4.2	0.14	66.0	0.63	0.005	0.885
208509		5.99	0.890	2.35	0.020	0.050	0.066	0.010	0.01	6.04	9.0	0.13	47.7	0.27	0.005	0.966
208510		7.38	1.190	4.55	0.021	0.036	0.083	0.009	0.02	9.68	11.3	0.11	35.1	0.98	0.005	1.000
208 51 1		5.44	1.340	2.75	0.024	0.048	0.080	0.012	0.02	7.18	7.2	0.13	59.0	0.30	0.005	1.385
208512		11.65	1.310	3.56	0.026	0.073	0.071	0.011	0.01	7.90	10.5	0.12	40.2	0.59	0.005	1.445
208513		688	6.99	4.20	0.074	0.179	0.271	0.027	0.03	21.8	5.5	0.17	16250	18.20	0.006	0.589
208514		22.3	1.910	3.84	0.024	0.033	0.092	0.024	0.02	7.38	10.2	0.25	104.5	0.79	0.005	0.794
208515		6.71	1.190	2.75	0.024	0.065	0.079	0.009	0.02	7.42	7.3	0.14	56.6	0.48	0.005	1.480
208516		21.2	1.300	2.29	0.029	0.014	0.068	0.010	0.01	7.31	7.2	0.15	195.5	0.36	0.005	0.952
208551		50.0	4.65	5.32	0.054	0.188	0.123	0.023	0.02	22.7	30.4	0.42	363	1.75	0.005	0.251
208552		20.5	2.85	4.95	0.026	0.040	0.079	0.014	0.02	8.28	16.3	0.28	191.5	0.83	0.006	0.876
208553		29.3	1.890	3.47	0.020	0.079	0.120	0.015	0.02	6.66	10.9	0.23	67.5	0.54	0.009	1.690
208554		21.1	1.760	3.83	0.024	0.062	0.106	0.014	0.02	7.77	8.4	0.19	97.2	0.77	0.005	1.120
208555		10.65	1.420	3.22	0.024	0.051	0.066	0.013	0.02	9.62	7.8	0.19	131.5	0.45	0.006	1.140
208556		12.15	1.780	3.54	0.022	0.032	0.081	0.011	0.02	8.19	11.7	0.14	76.1	0.79	0.010	1.015
208557		8.87	1.320	3.49	0.026	0.055	0.071	0.010	0.02	7.24	9.7	0.14	52.2	0.49	0.005	1.290
208558		7.78	2.12	4.60	0.021	0.066	0.067	0.015	0.02	6.60	9.5	0.14	60.1	0.66	0.005	1.975
208559		13.30	2.14	4.67	0.024	0.038	0.082	0.016	0.02	8.87	11.7	0.17	70.4	0.91	0.005	1.255
208560		16.50	1.480	3.48	0.021	0.045	0.046	0.016	0.02	8.47	8.2	0.14	48.3	0.73	0.005	1.375
208561		8.16	1.530	3.64	0.022	0.059	0.054	0.013	0.01	6.16	9.5	0.16	53.8	0.53	0.005	1.405
208562		19.60	1.980	4.91	0.022	0.023	0.056	0.022	0.02	7.38	9.5	0.21	221	0.68	0.006	1.280
208563		14.20	2.37	4.29	0.028	0.106	0.024	0.018	0.02	7.09	12.4	0.19	84.5	1.69	0.006	1.665
208564		15.05	1.330	4.41	0.026	0.055	0.033	0.013	0.02	7.31	8.4	0.14	94.8	0.75	0.006	1.240
208565		7.69	0.860	2.82	0.024	0.022	0.035	0.006	0.01	6.77	5.7	0.10	34.4	0.57	0.005	1.135
208566		12.95	1.400	3.19	0.020	0.076	0.039	0.009	0.01	7.15	6.4	0.14	45.6	0.90	0.005	1.465
208567		53.4	1.030	1.660	0.035	0.038	0.044	0.008	0.01	10.40	5.3	0.13	119.5	0.48	0.005	0.882
208568		21.4	3.33	6.60	0.028	0.052	0.071	0.029	0.04	8.64	15.4	0.29	147.0	1.20	0.006	1.485
208569		65.4	2.13	5.04	0.041	0.047	0.081	0.030	0.03	14.05	11.8	0.21	909	1.55	0.008	1.020
208570		15.95	1.560	3.32	0.022	0.039	0.051	0.012	0.02	7.20	7.2	0.17	55.9	0.51	0.005	0.899
208571		4.09	1.210	2.16	0.047	0.015	0.007	0.006	0.02	6.92	7.9	0.21	70.5	0.15	0.005	0.95 0
208 57 2		12.35	1.540	3.88	0.033	0.043	0.021	0.011	0.02	8.14	13.3	0.18	55.8	1.27	0.005	1.290
208573		11.95	2.44	4.57	0.032	0.077	0.016	0.013	0.02	6.37	13.4	0.26	75.4	1.12	0.005	1.900
208574		5.98	0.770	2.65	0.030	0.012	0.012	0.009	0.01	7.42	9.1	0.17	59.8	0.57	0.016	0.714



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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Project: Greenstone Go Id Mines Soil Sam

CERTIFICATE OF ANALYSIS

TB16154429

Sample Description	Method Analyte Units LOR	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
208501		5.47	0.011	11.75	0.002	0.001	1.550	<0.001	0.03	0.263	2.11	0.2	1.19	6.71	<0.005	0.02
208502		5.94	0.012	5.82	0.002	0.001	2.03	<0.001	0.03	0.090	0.852	0.2	0.44	4.40	<0.005	0.02
208503		14.60	0.021	4.92	0.002	0.001	3.08	<0.001	0.03	0.123	1.440	0.4	0.31	3.78	<0.005	0.02
208504		8.96	0.012	4.78	0.002	0.001	2.46	<0.001	0.02	0.069	0.972	0.2	0.34	3.29	<0.005	0.02
208505		9.66	0.033	3.17	0.002	0.001	2.33	<0.001	0.02	0.049	1.100	0.1	0.21	3.95	<0.005	0.01
208506		7.45	0.024	3.81	0.002	<0.001	2.46	<0.001	0.03	0.058	0.837	0.3	0.29	2.58	0.005	0.01
208507		9.48	0.027	7.02	0.002	0.001	3.93	<0.001	0.03	0.339	0.925	0.3	0.54	4.79	<0.005	0.03
208508		7.16	0.023	3.40	0.001	0.001	1.535	<0.001	0.02	0.082	1.110	0.2	0.26	4.04	<0.005	0.01
208509		9.98	0.011	4.78	0.002	0.001	2.71	<0.001	0.02	0.248	1.040	0.2	0.28	4.89	<0.005	0.01
208510		7.53	0.012	14.40	0.002	0.001	3.29	<0.001	0.03	0.285	0.897	0.2	0.46	6.57	<0.005	0.02
208511		11.25	0.029	4.38	0.002	0.001	3.29	<0.001	0.02	0.131	1.155	0.2	0.34	4.57	<0.005	0.02
208512		10.25	0.020	5.96	0.002	0.001	2.26	<0.001	0.02	0.167	1.250	0.3	0.35	4.46	<0.005	0.01
208513		45.3	0.063	6.25	0.011	0.010	6.15	0.004	0.07	1.445	9.66	1.1	0.33	12.15	<0.005	0.11
208514		21.1	0.013	4.38	0.002	0.001	4.42	<0.001	0.05	0.219	2.35	0.2	0.29	4.76	<0.005	0.02
208515		10.75	0.019	4.42	0.001	0.001	2.56	<0.001	0.02	0.083	1.235	0.3	0.31	4.12	<0.005	0.01
208516		9.89	0.024	3.27	0.001	0.001	2.67	0.001	0.03	0.090	1.825	0.2	0.26	6.15	<0.005	0.01
208551		57.3	0.027	23.1	0.002	0.002	3.30	<0.001	0.03	2.61	2.87	0.5	0.16	9.23	<0.005	0.08
208552		23.3	0.018	6.64	0.002	0.001	5.25	0.001	0.03	1.130	1.905	0.2	0.29	13.15	<0.005	0.03
208553		17.60	0.023	5.78	0.002	0.001	2.55	<0.001	0.04	0.248	1.710	0.5	0.31	3.86	<0.005	0.02
208554		14.65	0.037	6.42	0.002	0.001	4.74	<0.001	0.03	0.264	1.545	0.4	0.40	4.36	<0.005	0.03
208555		12.70	0.012	5.02	0.002	0.001	3.59	<0.001	0.02	0.167	1.495	0.1	0.36	5.13	<0.005	0.02
208556		15.75	0.020	8.40	0.003	0.001	2.97	<0.001	0.04	0.679	1.225	0.3	0.38	5.86	<0.005	0.02
208557		9.10	0.018	5.75	0.002	0.001	2.81	<0.001	0.02	0.203	1.270	0.3	0.36	4.05	<0.005	0.01
208558		11.80	0.022	6.41	0.002	0.001	3.72	<0.001	0.03	0.369	1.330	0.3	0.47	6.79	<0.005	0.03
208559		13.35	0.026	10.80	0.002	0.001	5.58	<0.001	0.03	0.280	1.240	0.3	0.43	6.01	<0.005	0.03
208560		11.45	0.014	5.43	0.002	0.001	2.68	<0.001	0.02	0.200	1.435	0.2	0.39	5.05	<0.005	0.01
208561		9.76	0.016	4.34	0.002	0.001	2.65	<0.001	0.02	0.139	1.345	0.3	0.35	3.63	<0.005	0.02
208562		13.50	0.016	5.82	0.001	0.001	3.24	<0.001	0.03	0.229	2.38	0.3	0.51	4.94	<0.005	0.02
208563		17.00	0.014	5.81	0.002	0.001	3.00	<0.001	0.03	0.325	1.750	0.2	0.43	5.29	<0.005	0.03
208564		10.10	0.011	6.60	0.002	0.001	4.74	<0.001	0.02	0.092	1.305	0.2	0.52	5.12	<0.005	0.01
208565		5.60	0.007	3.66	0.002	0.001	1.690	<0.001	0.02	0.046	1.225	0.2	0.32	4.31	<0.005	0.01
208566		8.75	0.009	5.55	0.002	0.001	2.35	<0.001	0.02	0.178	1.045	0.2	0.42	3.50	<0.005	0.02
208567		8.63	0.008	2.97	0.002	<0.001	1.995	<0.001	0.02	0.185	2.91	0.2	0.21	4.73	<0.005	0.01
208568		22.2	0.033	7.44	0.002	0.001	9.71	<0.001	0.03	0.466	2.29	0.5	0.60	5.83	<0.005	0.05
208569		35.2	0.020	11.65	0.001	0.001	6.98	0.001	0.03	0.506	3.76	0.7	0.57	8.72	<0.005	0.03
208570		10.95	0.014	4.80	0.002	0.001	4.43	<0.001	0.02	0.202	1.275	0.2	0.33	4.13	<0.005	0.02
208571		9.74	0.040	3.51	0.001	<0.001	3.19	<0.001	<0.01	0.066	1.230	0.1	0.26	6.91	<0.005	0.01
208572		9.68	0.012	5.23	0.001	<0.001	2.63	<0.001	0.01	0.316	1.385	0.2	0.39	6.31	<0.005	0.02
208573		22.0	0.015	5.79	0.001	<0.001	2.76	<0.001	0.01	0.288	1.385	0.1	0.46	7.84	<0.005	0.03
208574		10.10	0.009	6.24	0.001	<0.001	2.28	<0.001	0.02	0.146	0.862	0.1	0.27	6.54	<0.005	0.02



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To: **GREENSTONE GOLD MINES**
135 HARDROCK ROAD
GERALDTON ON POT 1 MO

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	Au ME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Th	Ti	Ti	U	V	W	y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.002	0.001	0.002	0.00S	0.1	0.001	0.003	0.1	0.01
208501		1.205	0.346	0.033	0.205	192.5	0.079	1.845	15.4	3.45
208502		1.835	0.047	0.029	0.221	31.0	0.142	1.190	9.0	1.33
208503		2.13	0.044	0.045	0.291	24.3	0.166	1.740	12.9	2.55
208504		2.39	0.054	0.033	0.229	24.2	0.142	1.160	9.7	2.39
208505		2.95	0.043	0.026	0.313	19.3	0.144	2.65	7.6	2.68
208506		2.00	0.038	0.023	0.218	23.4	0.121	1.340	6.9	2.13
208507		0.995	0.029	0.039	0.230	37.8	0.231	1.015	18.2	0.62
208508		2.59	0.036	0.034	0.272	17.9	0.100	2.31	12.9	1.52
208509		1.955	0.022	0.052	0.252	13.4	0.074	1.555	11.8	1.63
208510		2.19	0.011	0.055	0.333	21.9	0.078	1.250	19.4	1.28
208 51 1		2.74	0.047	0.034	0.289	23.1	0.124	1.840	10.6	1.83
208512		2.60	0.039	0.039	0.359	24.6	0.116	2.14	10.0	2.44
208513		1.515	0.015	0.280	0.589	52.1	0.145	33.2	53.9	5.60
208514		1.915	0.016	0.048	0.222	24.2	0.092	2.19	18.0	1.27
208515		2.71	0.044	0.035	0.291	20.6	0.115	2.00	8.9	2.21
208516		1.265	0.035	0.027	0.288	22.9	0.105	5.38	9.2	0.47
208551		6.23	0.003	0.124	0.812	20.8	0.037	3.58	53.2	6.55
208552		1.415	0.014	0.056	0.195	35.0	0.112	1.890	36.6	1.37
208553		2.29	0.036	0.047	0.353	28.1	0.147	2.05	16.2	2.79
208554		2.76	0.037	0.053	0.334	30.8	0.152	1.835	20.2	2.19
208555		2.72	0.035	0.045	0.318	23.4	0.105	2.24	14.6	1.72
208556		1.940	0.014	0.044	0.393	22.8	0.143	1.530	18.5	1.40
208557		2.41	0.036	0.040	0.309	22.1	0.131	1.525	16.5	1.90
208558		2.32	0.054	0.040	0.273	32.9	0.138	1.490	15.9	2.36
208559		1.890	0.015	0.088	0.267	33.9	0.103	1.150	27.6	1.27
208560		2.68	0.040	0.044	0.311	27.5	0.140	2.20	14.9	1.74
208561		2.11	0.041	0.032	0.225	26.9	0.107	1.490	16.1	1.92
208562		1.920	0.036	0.049	0.283	39.7	0.131	2.32	20.4	0.97
208563		2.39	0.035	0.047	0.253	32.7	0.140	1.780	15.7	3.54
208564		2.33	0.034	0.058	0.279	24.2	0.092	1.595	16.8	1.84
208565		1.935	0.043	0.031	0.272	20.4	0.106	2.10	6.8	0.73
208566		3.01	0.052	0.039	0.275	27.0	0.149	1.295	10.4	2.82
208567		3.21	0.035	0.026	0.279	16.2	0.154	4.57	7.8	1.44
208568		2.32	0.044	0.077	0.371	50.3	0.138	1.915	90.1	1.98
208569		2.77	0.033	0.092	0.501	30.4	0.104	5.74	870	1.51
208570		2.08	0.034	0.042	0.211	28.0	0.096	1.745	28.9	1.39
208571		1.840	0.057	0.021	0.273	22.1	0.089	2.78	11.7	0.74
208572		2.43	0.035	0.051	0.394	26.8	0.111	1.695	13.9	1.97
208573		2.31	0.070	0.038	0.278	41.0	0.205	1.570	17.4	3.23
208574		1.740	0.030	0.042	0.280	17.0	0.105	1.375	14.4	0.64



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CERTIFICATE OF ANALYSIS

TB16154429

Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
208575		0.67	0.0011	0.018	1.23	7.92	10	34.9	0.40	0.124	0.10	0.011	24.1	4.80	18.00	0.710
208576		0.56	0.0016	0.026	0.94	6.24	10	32.5	0.20	0.087	0.08	0.041	14.15	5.30	16.55	0.860
208577		0.42	0.0011	0.004	0.79	5.07	10	30.3	0.14	0.095	0.08	0.028	11.65	3.13	15.35	0.590
208578		0.62	0.0006	0.006	0.95	1.45	10	28.8	0.21	0.040	0.10	0.019	12.45	3.14	12.40	0.273
208579		0.65	0.0002	0.002	0.66	1.20	10	26.5	0.13	0.035	0.10	0.023	11.95	3.14	10.55	0.294
208580		0.42	0.0038	0.006	0.86	4.31	10	17.8	0.12	0.092	0.07	0.021	15.10	3.87	16.95	0.565
208581		0.55	0.0004	0.019	1.10	2.91	10	28.6	0.29	0.070	0.07	0.049	13.05	5.07	19.15	0.583
208582		0.49	0.0006	0.019	0.80	1.85	10	24.6	0.26	0.046	0.17	0.032	33.0	4.13	16.50	0.308
208583		0.64	0.0026	0.034	1.42	3.56	10	44.6	0.36	0.111	0.14	0.066	20.2	7.56	26.9	0.644
208584		0.75	0.0008	0.025	1.27	6.21	10	26.9	0.42	0.099	0.22	0.067	32.6	10.10	30.3	0.726
208585		0.52	0.0009	0.167	1.40	38.4	10	45.2	0.47	0.269	0.24	0.129	41.1	15.05	28.2	1.235
208586		0.64	0.0018	0.023	1.57	7.26	10	47.2	0.39	0.138	0.17	0.062	23.2	10.55	28.1	0.905
208587		0.70	0.0011	0.041	1.12	3.60	10	44.3	0.32	0.111	0.25	0.096	26.3	5.92	22.3	0.588
208588		0.67	0.0008	0.037	1.17	3.27	10	45.4	0.35	0.102	0.17	0.072	17.70	6.23	20.6	0.660
208589		0.49	0.0015	0.020	0.88	1.74	10	39.2	0.21	0.071	0.08	0.030	14.00	3.70	15.85	0.578
208590		0.49	0.0006	0.016	0.67	2.43	10	20.7	0.15	0.073	0.08	0.023	10.30	2.39	10.85	0.430
208591		0.32	0.0014	0.084	0.69	3.02	10	18.1	0.23	0.047	0.17	0.017	21.0	3.79	12.85	0.275
208592		0.32	0.0004	0.015	0.65	1.36	10	15.5	0.21	0.043	0.08	0.028	9.65	2.97	11.35	0.290
208593		0.36	0.0005	0.005	0.75	2.84	10	8.9	0.19	0.039	0.12	0.044	19.10	3.13	15.30	0.393
208594		0.30	0.0009	0.025	1.14	2.44	10	41.4	0.28	0.070	0.07	0.027	10.80	4.02	15.65	0.419
208595		0.33	0.0075	0.019	0.95	3.36	10	18.8	0.27	0.065	0.15	0.015	33.6	5.89	21.6	0.389
208596		0.28	0.0014	0.042	0.94	3.66	10	41.8	0.28	0.106	0.09	0.068	10.85	2.77	13.40	0.563
208597		0.26	0.0009	0.044	1.14	3.11	10	37.4	0.23	0.075	0.08	0.043	14.35	4.19	18.30	0.819
208598		0.32	0.0009	0.019	1.64	4.11	10	38.5	0.38	0.100	0.08	0.076	19.30	7.81	24.4	0.415
208599		0.33	0.0008	0.010	1.17	2.43	10	21.1	0.23	0.060	0.06	0.026	11.95	3.76	16.00	0.438
208600		0.50	0.0006	0.025	0.93	2.44	10	28.8	0.22	0.111	0.07	0.055	14.15	3.78	15.45	0.548
227151		0.33	0.0037	0.034	1.62	2.43	10	56.9	0.41	0.087	0.39	0.074	25.4	4.86	27.4	0.931
227152		0.28	0.0005	0.055	1.72	3.68	10	64.2	0.30	0.104	0.19	0.191	12.10	15.20	36.6	0.886
227153		0.30	0.0073	0.041	1.24	5.23	10	23.2	0.21	0.128	0.08	0.049	11.45	4.31	20.9	0.448
227154		0.38	0.0005	0.016	1.13	1.66	10	22.4	0.25	0.040	0.08	0.031	12.30	5.37	12.55	0.336
274801		0.49	0.0005	0.073	0.84	7.06	10	34.2	0.22	0.091	0.10	0.024	15.10	4.13	11.40	0.567
274802		0.71	0.0005	0.005	0.58	1.06	10	15.7	0.18	0.037	0.11	0.012	21.8	2.33	11.10	0.245
274803		0.53	0.0089	0.036	1.08	5.52	10	41.2	0.23	0.095	0.07	0.042	14.65	5.62	21.3	0.844
274804		0.45	0.0002	0.014	0.37	0.92	10	10.8	0.13	0.027	0.22	0.008	18.30	2.62	11.85	0.128
274805		0.48	0.0009	0.026	0.39	2.06	10	12.0	0.17	0.033	2.63	0.013	25.2	2.87	15.85	0.182
274806		0.33	0.0024	0.035	1.11	4.84	10	24.3	0.25	0.077	0.07	0.019	15.75	4.73	17.55	0.506
274807		0.46	0.0002	0.004	0.82	2.41	10	39.7	0.27	0.056	0.12	0.011	12.50	2.73	26.7	0.623
274808		0.61	0.0004	0.007	0.53	1.95	10	20.0	0.11	0.044	0.16	0.011	12.20	2.11	12.20	0.384
274809		0.63	0.0018	0.020	0.50	1.29	10	22.9	0.14	0.041	0.18	0.023	14.70	2.59	12.90	0.368
274810		0.32	0.0339	0.097	0.97	3.63	10	35.8	0.18	0.128	0.11	0.052	13.05	5.85	19.75	0.816



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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Project : Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
208575		13.55	1.220	3.60	0.037	0.066	0.014	0.014	0.02	10.90	9.7	0.18	52.1	0.61	0.006	0.752
208576		11.35	1.900	3.16	0.027	0.024	0.028	0.015	0.02	6.31	10.8	0.14	93.3	0.52	0.012	0.898
208577		9.37	1.810	3.63	0.028	0.039	0.013	0.011	0.01	5.56	8.6	0.14	41.7	0.69	0.013	1.285
208578		1.10	0.980	2.45	0.030	0.055	0.025	0.008	0.01	5.64	6.7	0.11	30.8	0.27	0.005	1.180
208579		1.97	0.750	2.06	0.032	0.037	0.012	0.006	0.01	5.43	6.9	0.13	35.9	0.12	0.004	0.915
208580		11.45	1.630	3.97	0.034	0.037	0.013	0.012	0.02	7.18	7.7	0.18	52.8	0.53	0.005	1.130
208581		3.90	1.540	4.34	0.034	0.056	0.025	0.013	0.02	6.12	19.6	0.20	60.1	0.35	0.005	1.570
208582		3.72	1.090	2.16	0.041	0.033	0.017	0.007	0.02	9.98	7.2	0.16	82.3	0.16	0.007	1.060
208583		7.89	2.27	4.50	0.039	0.065	0.035	0.017	0.04	9.17	16.0	0.24	112.5	0.42	0.030	1.955
208584		13.75	2.21	3.26	0.051	0.067	0.055	0.017	0.05	14.25	17.7	0.34	351	0.36	0.033	1.515
208585		40.4	2.37	4.02	0.050	0.032	0.031	0.024	0.03	16.75	17.5	0.37	539	0.91	0.028	0.636
208586		23.4	2.35	4.92	0.039	0.114	0.041	0.019	0.07	8.23	20.2	0.38	211	0.59	0.031	1.845
208587		11.05	1.960	4.28	0.040	0.018	0.035	0.011	0.03	11.70	11.8	0.23	178.5	0.45	0.033	1.270
208588		7.47	1.780	3.73	0.038	0.019	0.032	0.016	0.05	6.81	12.5	0.23	195.0	0.32	0.022	1.095
208589		2.91	1.300	2.92	0.031	0.021	0.017	0.009	0.02	6.12	8.4	0.15	68.0	0.24	0.005	0.999
208590		4.05	1.210	2.77	0.028	0.024	0.020	0.008	0.02	4.61	5.2	0.10	39.5	0.64	0.013	0.930
208591		9.60	0.970	1.835	0.040	0.017	0.022	0.006	0.01	7.92	5.8	0.14	65.2	0.26	0.006	0.754
208592		2.38	0.990	2.26	0.033	0.031	0.010	0.008	0.01	3.97	6.8	0.10	74.0	0.19	0.004	0.953
208593		6.68	1.150	1.670	0.037	0.047	0.027	0.007	0.01	6.10	5.5	0.12	48.5	0.25	0.009	1.085
208594		4.63	1.380	3.03	0.030	0.040	0.031	0.012	0.02	5.09	8.6	0.13	46.5	0.35	0.014	1.245
208595		9.86	1.570	2.37	0.045	0.065	0.014	0.010	0.02	7.67	8.7	0.19	74.0	0.27	0.005	1.065
208596		4.87	1.500	3.76	0.033	0.024	0.028	0.011	0.02	5.18	7.4	0.12	66.3	0.34	0.014	0.884
208597		13.50	1.520	3.33	0.034	0.052	0.027	0.014	0.02	6.10	8.2	0.17	54.8	1.09	0.023	1.320
208598		6.72	2.18	4.30	0.039	0.122	0.023	0.017	0.02	7.71	15.2	0.19	60.5	0.45	0.012	2.14
208599		6.45	1.470	2.68	0.035	0.074	0.024	0.014	0.01	5.52	8.6	0.11	32.6	0.58	0.011	1.340
208600		5.22	1.500	4.04	0.034	0.013	0.024	0.012	0.02	6.47	9.3	0.15	94.3	0.39	0.028	1.320
227151		37.3	1.670	3.58	0.051	0.024	0.044	0.031	0.02	11.20	12.9	0.21	371	0.27	0.060	0.981
227152		44.1	4.81	6.42	0.061	0.024	0.035	0.048	0.03	5.07	23.4	0.40	2110	0.56	0.086	0.746
227153		6.39	2.57	6.47	0.034	0.048	0.018	0.015	0.02	4.91	13.7	0.18	63.6	0.82	0.026	2.23
227154		17.40	1.360	2.68	0.038	0.059	0.019	0.014	0.01	5.57	7.8	0.13	37.0	0.27	0.012	1.125
274801		10.15	1.010	2.72	0.030	0.027	0.020	0.012	0.02	6.95	7.7	0.12	40.6	0.41	0.024	0.602
274802		2.51	0.790	1.905	0.042	0.014	0.012	0.005	0.01	9.28	4.8	0.11	43.6	0.12	0.005	0.753
274803		36.6	2.19	3.46	0.038	0.054	0.021	0.025	0.02	7.01	11.7	0.19	77.5	0.76	0.005	0.957
274804		2.45	0.740	1.125	0.056	0.016	0.008	<0.005	0.01	8.55	3.9	0.12	51.4	0.07	0.004	0.703
274805		9.67	0.840	1.460	0.068	0.029	0.017	0.005	0.02	13.05	4.8	1.56	154.0	0.14	0.008	0.578
274806		9.63	1.290	2.73	0.036	0.071	0.025	0.012	0.02	6.91	8.8	0.14	46.4	0.44	0.005	1.305
274807		4.27	0.790	3.38	0.036	0.035	0.009	0.009	0.01	5.88	7.8	0.13	38.0	0.37	0.004	1.445
274808		1.70	0.890	2.15	0.032	0.016	0.008	0.005	0.01	6.02	6.7	0.14	53.5	0.17	0.005	1.015
274809		3.04	0.870	1.810	0.039	0.023	0.006	0.007	0.02	7.04	6.3	0.14	82.9	0.11	0.004	0.873
274810		31.3	1.890	3.65	0.036	0.019	0.017	0.016	0.02	6.32	8.9	0.25	130.0	0.84	0.004	1.080



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To: GREENSTONE GOLD MINES
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CERTIFICATE OF ANALYSIS

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Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
208575		13.00	0.018	6.17	0.001	0.001	4.09	<0.001	0.01	0.207	1.645	0.2	0.42	5.60	<0.005	0.01
208576		13.60	0.024	3.62	0.001	<0.001	3.78	<0.001	0.01	0.241	1.585	0.1	0.34	4.54	<0.005	0.02
208577		8.51	0.010	4.17	0.001	<0.001	2.16	<0.001	0.01	0.162	1.075	0.1	0.38	3.70	<0.005	0.02
208578		6.18	0.014	3.26	0.001	<0.001	1.955	<0.001	0.01	0.036	1.215	0.1	0.28	3.23	<0.005	<0.01
208579		7.39	0.018	2.82	0.001	<0.001	2.56	<0.001	<0.01	0.024	0.915	0.1	0.24	3.79	<0.005	0.01
208580		10.40	0.012	3.87	0.001	<0.001	3.04	<0.001	<0.01	0.139	1.505	<0.1	0.44	4.19	<0.005	0.02
208581		11.10	0.021	5.23	0.001	<0.001	5.91	<0.001	0.01	0.076	1.525	0.2	0.41	3.97	<0.005	0.01
208582		8.93	0.035	3.51	0.001	<0.001	3.41	<0.001	<0.01	0.040	1.550	0.1	0.29	6.87	<0.005	0.01
208583		17.15	0.040	6.45	0.001	<0.001	5.90	<0.001	0.04	0.078	1.625	0.2	0.48	5.73	<0.005	0.03
208584		19.45	0.062	7.40	0.001	<0.001	7.18	<0.001	0.04	0.104	1.955	0.2	0.36	7.36	<0.005	0.03
208585		35.3	0.025	10.30	0.001	<0.001	5.67	<0.001	0.03	0.750	2.07	0.2	0.34	24.8	<0.005	0.04
208586		22.1	0.030	8.35	0.001	<0.001	11.20	<0.001	0.04	0.205	2.53	0.2	0.51	6.69	<0.005	0.03
208587		11.20	0.038	7.02	0.001	<0.001	6.63	<0.001	0.04	0.082	1.560	0.1	0.50	6.31	<0.005	0.03
208588		14.65	0.054	5.91	0.001	<0.001	9.65	<0.001	0.02	0.061	1.305	0.2	0.41	6.03	<0.005	0.02
208589		9.03	0.030	4.31	0.001	<0.001	4.29	<0.001	<0.01	0.042	1.045	0.1	0.34	3.80	<0.005	0.01
208590		5.05	0.010	3.65	0.001	<0.001	2.47	<0.001	0.01	0.102	0.823	0.2	0.32	3.29	<0.005	0.04
208591		12.10	0.022	3.13	0.002	<0.001	1.660	<0.001	0.01	0.113	1.240	0.2	0.21	13.70	<0.005	0.01
208592		6.31	0.027	3.29	0.001	<0.001	2.82	<0.001	<0.01	0.031	0.761	0.1	0.24	2.77	<0.005	0.01
208593		7.33	0.046	3.15	0.001	<0.001	1.925	<0.001	0.01	0.044	0.985	0.3	0.20	3.38	0.006	0.01
208594		9.81	0.023	4.37	0.001	<0.001	3.14	<0.001	0.02	0.067	0.977	0.2	0.34	3.38	<0.005	0.02
208595		13.35	0.047	4.48	0.001	<0.001	3.07	<0.001	<0.01	0.070	1.250	0.1	0.26	4.24	<0.005	0.01
208596		5.81	0.080	5.94	0.001	<0.001	3.43	<0.001	0.02	0.084	0.873	0.3	0.39	3.48	<0.005	0.02
208597		10.20	0.020	5.00	0.001	<0.001	2.48	<0.001	0.02	0.094	1.190	0.2	0.35	3.78	<0.005	0.02
208598		16.10	0.023	6.45	0.001	0.001	4.02	<0.001	0.01	0.070	1.665	0.2	0.47	5.92	<0.005	0.02
208599		8.88	0.018	4.76	<0.001	<0.001	1.680	<0.001	0.01	0.119	1.125	0.2	0.31	2.86	<0.005	0.02
208600		8.23	0.027	5.55	0.001	<0.001	4.91	<0.001	0.03	0.067	1.040	0.2	0.48	3.59	<0.005	0.02
227151		16.95	0.028	4.21	0.001	<0.001	3.06	<0.001	0.07	0.128	6.14	0.6	0.36	7.30	<0.005	0.02
22715 2		20.4	0.047	6.80	0.002	0.001	5.90	<0.001	0.09	0.323	7.76	0.6	0.42	6.75	<0.005	0.04
227153		9.69	0.017	7.10	0.001	<0.001	3.77	<0.001	0.03	0.146	1.135	0.1	0.61	5.14	<0.005	0.03
227154		8.96	0.010	2.96	0.001	<0.001	1.385	<0.001	0.02	0.050	1.560	0.2	0.26	3.17	<0.005	0.01
274801		12.75	0.016	4.28	0.001	0.001	3.83	<0.001	0.03	0.179	0.925	0.1	0.30	7.65	<0.005	0.02
274802		5.87	0.029	2.75	0.001	<0.001	2.42	<0.001	<0.01	0.036	1.280	0.1	0.23	3.70	<0.005	0.01
27480 3		16.30	0.019	3.56	0.002	0.001	4.29	<0.001	0.01	0.392	2.07	0.2	0.33	4.40	<0.005	0.02
274804		5.71	0.054	1.715	0.002	0.001	1.410	<0.001	<0.01	0.024	0.906	<0.1	0.15	8.56	<0.005	<0.01
274805		7.45	0.060	2.37	0.001	0.001	1.845	<0.001	<0.01	0.146	1.800	<0.1	0.19	16.90	<0.005	<0.01
274806		12.00	0.017	5.52	0.001	0.001	2.61	<0.001	0.01	0.279	1.185	0.2	0.33	4.33	<0.005	0.01
274807		10.60	0.009	3.72	0.001	0.001	2.07	<0.001	0.01	0.168	1.210	0.2	0.30	7.92	<0.005	0.01
274808		6.36	0.016	3.00	0.001	<0.001	2.55	<0.001	<0.01	0.030	0.922	<0.1	0.26	5.06	<0.005	<0.01
274809		6.29	0.011	2.87	0.001	0.001	2.65	<0.001	<0.01	0.056	1.115	<0.1	0.23	4.78	<0.005	<0.01
274810		13.25	0.015	4.54	0.001	0.001	3.94	<0.001	0.01	0.187	1.905	0.1	0.35	4.84	<0.005	0.05



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		Th	Ti	Tl	U	V	W	y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
208575		3.32	0.037	0.071	0.496	22.8	0.088	2.91	22.0	3.22
208576		2.06	0.018	0.042	0.248	25.6	0.103	1.215	16.8	1.10
208577		1.855	0.035	0.033	0.193	30.2	0.131	1.090	10.4	1.66
208578		1.970	0.042	0.026	0.209	20.6	0.079	1.890	6.2	2.14
208 579		1.770	0.038	0.023	0.192	16.3	0.076	1.785	7.0	1.57
208580		2.22	0.050	0.046	0.233	34.0	0.091	1.530	10.9	1.77
208581		2.31	0.065	0.039	0.262	31.1	0.141	1.780	14.2	2.40
208582		3.08	0.051	0.044	0.303	20.7	0.092	3.42	10.4	1.60
208583		3.37	0.069	0.062	0.347	39.2	0.191	2.25	29.7	2.64
208584		4.24	0.065	0.075	0.456	38.1	0.232	4.05	30.0	2.65
208585		2.49	0.016	0.080	0.963	21.0	0.059	4.37	40.3	1.35
208586		3.35	0.080	0.096	0.323	39.5	0.168	2.67	30.8	4.38
208587		2.73	0.053	0.071	0.324	38.0	0.196	2.87	35.0	0.83
208588		2.01	0.052	0.060	0.289	30.1	0.148	1.875	50.1	0.87
208589		1.995	0.041	0.043	0.240	21.0	0.101	1.580	15.8	1.04
208 59 0		1.595	0.036	0.027	0.166	25.8	0.138	0.908	7.5	1.06
208 59 1		1.670	0.030	0.042	0.372	16.6	0.096	3.76	8.1	0.74
208592		1.260	0.038	0.021	0.156	17.4	0.095	1.360	10.7	1.25
208593		1.965	0.038	0.022	0.265	19.5	0.118	2.28	8.1	1.90
208594		1.850	0.043	0.036	0.217	24.0	0.155	1.295	12.1	1.55
208595		3.64	0.046	0.029	0.301	27.2	0.236	2.78	11.9	2.86
208596		1.500	0.022	0.035	0.224	24.9	0.113	1.160	30.5	1.06
208597		2.26	0.047	0.039	0.237	28.3	0.142	1.455	14.7	2.19
208598		2.89	0.079	0.045	0.291	37.6	0.167	2.30	18.1	4.77
208599		2.01	0.044	0.032	0.247	24.2	0.109	1.760	7.2	2.86
208600		1.465	0.054	0.060	0.250	31.1	0.152	1.525	25.3	0.70
2271 51		1.775	0.029	0.051	0.491	28.5	0.091	6.85	21.7	0.95
227152		1.225	0.023	0.055	0.234	84.4	0.124	2.58	48.7	0.91
22 71 5 3		1.765	0.087	0.037	0.211	53.3	0.178	1.160	16.2	2.03
227 1 54		1.535	0.036	0.022	0.189	20.6	0.096	2.26	6.7	2.21
27480 1		1.775	0.013	0.043	0.257	15.8	0.072	1.455	12.4	1.19
274802		2.03	0.037	0.030	0.234	16.5	0.070	3.51	7.5	0.85
274803		2.46	0.020	0.042	0.274	29.4	0.097	1.595	23.8	2.20
274804		1.785	0.030	0.018	0.269	13.5	0.111	3.73	6.1	0.51
274805		2.51	0.036	0.026	0.323	17.8	0.102	6.31	7.9	1.46
274806		2.83	0.042	0.049	0.322	21.7	0.118	1.780	9.8	2.62
274807		1.840	0.051	0.034	0.219	26.4	0.134	1.705	7.8	1.29
274808		1.610	0.045	0.027	0.214	24.0	0.111	1.765	7.8	0.70
274809		2.04	0.041	0.024	0.258	16.0	0.089	2.17	8.2	1.06
2 748 1 0		1.680	0.030	0.036	0.225	33.5	0.112	1.485	18.8	0.89



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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Project: Greenstone Gold Mines Soil Sam

CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	WEI- 21	AuME-ST44	AuM E- ST44	AuME- ST44	AuM E- ST44	AuME- ST44	AuM E- ST44	Au ME- ST44	AuM E- ST44	AuME- ST44	AuM E- ST44	AuME- ST44	AuM E- ST44	AuME- ST44	AuM E- ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
274811		0.48	0.0037	0.038	1.09	13.35	10	48.2	0.22	0.123	0.11	0.049	15.55	7.05	37.8	0.880
274812		0.54	0.0036	0.060	1.39	8.57	10	37.7	0.31	0.090	0.06	0.028	17.35	6.80	33.6	0.825
274813		0.52	0.0056	0.015	1.05	1.54	10	25.1	0.22	0.059	0.10	0.027	16.00	3.38	16.50	0.583
274814		0.64	0.0005	0.012	0.58	1.54	10	15.0	0.14	0.048	0.11	0.012	19.30	3.54	15.90	0.362
274815		0.53	0.0010	0.115	0.86	2.39	10	19.5	0.15	0.078	0.08	0.020	12.40	3.16	14.50	0.363
274816		0.60	0.0003	0.026	0.77	1.57	10	16.5	0.21	0.044	0.14	0.017	29.3	3.89	16.45	0.292
274817		0.48	0.0088	0.030	0.86	4.88	10	25.3	0.15	0.115	0.06	0.045	11.90	4.02	16.55	0.742
274818		0.72	0.0005	0.008	0.83	1.56	10	17.3	0.23	0.045	0.21	0.016	18.75	3.89	15.40	0.265
274819		0.44	0.0003	0.008	0.97	2.19	10	20.3	0.23	0.055	0.10	0.028	15.25	3.31	17.65	0.405
274820		0.54	0.0003	0.020	0.71	1.82	10	16.3	0.21	0.040	0.14	0.013	22.1	4.19	16.60	0.351
274821		0.45	0.0012	0.084	1.05	2.51	10	29.9	0.24	0.058	0.12	0.013	16.00	4.69	20.7	0.394
274822		0.44	0.0004	0.049	0.95	1.33	10	18.8	0.21	0.051	0.07	0.021	13.95	2.40	15.85	0.368
274823		0.57	0.0014	0.029	0.48	1.25	10	19.1	0.14	0.035	0.19	0.017	15.20	2.39	12.85	0.227
274824		0.43	0.0008	0.015	0.77	2.63	10	23.8	0.17	0.066	0.11	0.015	14.65	3.85	15.25	0.383
274825		0.55	0.0005	0.014	0.55	1.40	10	16.7	0.12	0.051	0.08	0.011	9.88	2.20	11.60	0.276
274826		0.55	0.0005	0.020	0.73	2.49	10	17.0	0.23	0.047	0.15	0.042	22.7	5.25	18.25	0.279
274827		0.49	0.0009	0.139	0.64	6.09	10	20.5	0.19	0.065	0.25	0.354	12.15	3.35	14.70	0.559
274828		0.69	0.0003	0.005	0.57	0.98	10	19.1	0.14	0.046	0.08	0.011	13.80	2.22	10.40	0.250
274829		0.58	0.0012	0.043	1.23	4.70	10	21.4	0.25	0.063	0.13	0.030	22.0	8.01	24.8	0.448
274830		0.48	0.0005	0.003	0.74	1.50	10	9.9	0.17	0.038	0.07	0.019	11.80	3.15	13.45	0.160
274831		0.56	0.0013	0.026	0.71	1.64	10	13.1	0.11	0.043	0.07	0.023	10.90	2.61	14.65	0.329
177751		1.07	0.0011	0.031	1.37	2.90	10	37.6	0.32	0.067	0.17	0.029	23.9	6.07	28.0	0.642
177752		1.44	0.0010	0.016	0.99	0.98	10	64.7	0.28	0.049	0.25	0.020	28.4	5.16	17.30	0.537
209051		1.31	0.0011	0.136	1.32	5.45	10	27.1	0.25	0.074	0.28	0.041	20.3	10.00	25.5	0.598
209052		1.13	0.0080	0.009	0.84	5.01	10	22.8	0.20	0.064	0.15	0.016	20.5	3.55	20.2	0.854
209053		1.27	0.0021	0.034	1.18	8.09	10	29.5	0.31	0.114	0.11	0.034	32.9	7.75	27.0	0.725
209054		1.01	0.0086	0.061	1.22	5.55	10	33.7	0.32	0.063	0.24	0.100	28.8	7.62	22.2	0.946
209055		0.99	0.0024	0.029	0.91	4.58	10	29.8	0.21	0.062	0.15	0.034	25.1	5.76	23.3	0.543
209056		1.03	0.0013	0.015	0.78	3.95	10	17.9	0.25	0.057	0.15	0.017	35.3	5.99	19.35	0.441
209057		1.16	0.0028	0.038	1.94	13.90	10	20.0	0.27	0.175	0.08	0.035	21.8	7.03	23.2	0.830
209058		1.44	0.0270	0.061	1.09	9.06	10	24.2	0.36	0.110	0.33	0.038	32.0	12.35	33.5	0.528
209059		1.88	0.0012	0.007	1.38	5.36	10	31.9	0.25	0.063	0.12	0.010	17.70	9.32	25.8	0.422
209060		1.51	0.0049	0.015	1.19	8.89	10	33.9	0.30	0.112	0.17	0.012	26.7	6.60	20.9	0.549
209061		1.23	0.0008	0.015	1.16	1.95	10	52.8	0.26	0.054	0.12	0.033	17.00	5.93	19.20	0.522
209062		1.92	0.0028	0.018	1.08	3.98	10	22.2	0.36	0.093	0.28	0.033	36.3	8.91	29.3	0.517
209063		2.22	0.0080	0.027	2.05	8.41	10	58.6	0.69	0.144	0.28	0.092	78.6	16.90	44.8	1.410
209064		1.50	0.0062	0.040	1.00	4.33	10	55.9	0.26	0.121	0.35	0.098	19.30	5.16	20.4	0.524
209065		1.10	0.0031	0.018	0.89	4.54	10	18.9	0.29	0.064	0.21	0.018	40.9	6.58	26.8	0.430
209066		1.13	0.0029	0.008	0.79	6.44	10	29.6	0.31	0.113	0.10	0.009	32.8	7.44	20.8	0.401
209067		1.70	0.0016	0.049	1.26	5.40	10	33.8	0.41	0.118	5.45	0.100	51.6	11.60	35.2	1.040



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT 1 MO

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Project: Greenst one Gold Mines So il Sam

CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	AuME - ST44	AuME-ST44	Au ME- ST44	Au ME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	
		Cu ppm 0.01	Fe % 0.001	Ga ppm 0.004	Ge ppm 0.005	Hf ppm 0.002	Hg ppm 0.004	In ppm 0.005	K % 0.01	La ppm 0.002	Li ppm 0.1	Mg % 0.01	Mn ppm 0.1	Mo ppm 0.01	Na % 0.001	Nb ppm 0.002
274811		18.25	2.37	4.23	0.034	0.011	0.037	0.015	0.03	7.26	12.1	0.34	139.0	0.71	0.006	0.987
274812		22.9	1.890	3.44	0.038	0.068	0.040	0.016	0.02	7.66	9.9	0.29	74.4	0.41	0.005	1.230
274813		3.91	1.210	2.77	0.033	0.039	0.028	0.011	0.02	7.17	6.2	0.14	65.5	0.23	0.005	1.220
274814		2.51	1.180	2.18	0.042	0.027	0.010	0.008	0.02	7.17	4.8	0.12	137.5	0.22	0.004	1.225
274815		7.93	1.590	3.55	0.033	0.032	0.022	0.012	0.01	6.18	6.5	0.10	66.7	0.37	0.004	1.070
274816		2.72	1.160	1.880	0.046	0.041	0.016	0.007	0.02	7.10	5.9	0.14	109.5	0.16	0.004	1.000
274817		7.50	1.870	4.06	0.030	0.019	0.028	0.013	0.02	5.99	6.6	0.16	89.3	1.82	0.004	1.115
274818		2.76	1.050	2.21	0.044	0.033	0.013	0.009	0.02	7.87	6.1	0.14	67.4	0.15	0.005	1.155
274819		3.34	1.390	2.61	0.039	0.063	0.020	0.011	0.02	6.55	6.2	0.12	47.9	0.22	0.004	1.645
274820		3.38	1.170	1.785	0.043	0.040	0.019	0.008	0.01	6.21	5.8	0.15	170.5	0.25	0.005	1.245
274821		5.59	1.550	2.80	0.040	0.062	0.016	0.012	0.02	6.44	7.6	0.15	73.2	0.26	0.004	1.480
274822		2.47	1.000	2.54	0.034	0.047	0.031	0.009	0.02	7.16	6.2	0.12	46.9	0.14	0.004	1.200
274823		3.34	0.810	1.580	0.040	0.013	0.009	0.007	0.01	7.20	4.0	0.12	60.3	0.12	0.004	0.657
274824		10.05	0.990	2.64	0.034	0.025	0.021	0.011	0.01	7.11	5.8	0.14	75.8	0.25	0.010	0.851
274825		2.20	0.840	2.22	0.032	0.030	0.012	0.006	0.01	4.80	4.1	0.09	41.0	0.18	0.003	1.070
274826		6.38	1.170	1.565	0.051	0.082	0.018	0.008	0.02	8.40	8.2	0.17	274	0.15	0.004	0.922
274827		34.8	1.310	2.33	0.037	0.021	0.026	0.009	0.01	5.81	7.5	0.12	58.8	0.76	0.004	1.185
274828		4.77	0.730	2.17	0.033	0.013	0.007	0.005	0.01	6.71	3.7	0.09	30.1	0.31	0.004	0.881
274829		35.5	1.680	2.72	0.040	0.059	0.022	0.013	0.02	7.58	11.8	0.29	101.5	0.57	0.005	1.260
274830		2.92	0.970	1.790	0.037	0.072	0.013	0.006	0.01	5.48	5.2	0.12	41.7	0.14	0.003	0.897
274831		8.49	0.940	2.30	0.030	0.049	0.019	0.008	0.01	5.61	6.6	0.13	39.5	0.45	0.004	1.430
177751		28.4	2.17	3.93	0.047	0.044	0.027	0.025	0.04	9.70	11.3	0.27	412	0.30	0.015	1.110
177752		27.1	1.020	2.94	0.055	0.028	0.021	0.013	0.03	14.75	7.2	0.22	76.7	0.19	0.017	1.070
209051		24.6	2.10	3.73	0.045	0.030	0.027	0.012	0.04	11.35	15.4	0.30	183.5	0.43	0.011	0.934
209052		10.60	1.400	3.44	0.049	0.095	0.014	0.009	0.06	10.70	9.4	0.22	90.7	0.40	0.030	1.620
209053		32.8	1.710	2.96	0.048	0.109	0.042	0.012	0.04	11.25	8.3	0.26	100.0	0.41	0.013	1.085
209054		46.9	1.730	2.91	0.051	0.057	0.026	0.013	0.03	14.30	8.1	0.20	126.0	0.59	0.016	1.105
209055		16.60	1.600	2.58	0.051	0.099	0.014	0.025	0.03	9.39	7.6	0.26	128.0	0.43	0.016	1.090
209056		16.20	1.450	2.08	0.057	0.074	0.014	0.007	0.03	11.35	6.1	0.21	140.5	0.23	0.028	1.025
209057		62.0	1.970	3.55	0.043	0.167	0.042	0.018	0.03	10.30	11.7	0.32	93.7	1.88	0.024	1.705
209058		18.50	2.82	3.98	0.081	0.026	0.043	0.014	0.08	15.05	19.4	0.51	417	0.38	0.031	1.170
209059		26.3	1.660	2.90	0.044	0.115	0.017	0.011	0.04	8.86	11.8	0.41	119.5	0.32	0.027	0.946
209060		20.9	1.510	3.00	0.053	0.085	0.014	0.013	0.05	13.35	10.7	0.30	119.5	0.55	0.026	0.772
209061		3.97	1.310	3.17	0.043	0.087	0.016	0.011	0.03	8.05	16.1	0.23	77.2	0.20	0.024	1.330
209062		10.45	2.36	3.46	0.068	0.027	0.017	0.013	0.07	13.20	16.4	0.50	195.5	0.24	0.029	0.953
209063		46.6	3.16	5.55	0.079	0.204	0.032	0.023	0.14	36.6	27.6	0.77	534	0.50	0.027	1.750
209064		9.32	1.770	3.86	0.042	0.021	0.039	0.012	0.04	9.82	9.6	0.21	195.5	0.42	0.021	1.570
209065		14.60	1.970	2.69	0.067	0.088	0.013	0.010	0.05	13.90	9.5	0.26	178.0	0.31	0.027	1.310
209066		31.8	1.270	2.33	0.056	0.182	0.019	0.011	0.04	15.20	7.4	0.27	130.5	0.52	0.027	0.495
209067		34.0	2.45	5.09	0.102	0.057	0.034	0.011	0.12	35.3	20.6	2.09	470	0.39	0.032	1.175



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		Ni	P	Pb	Pd	Pt	Rb	Re	s	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
274811		23.7	0.043	5.57	0.001	<0.001	6.15	<0.001	0.01	0.578	1.755	0.2	0.39	5.85	<0.005	0.02
274812		23.2	0.025	4.99	0.001	0.001	5.18	<0.001	0.01	0.442	1.760	0.2	0.34	4.61	<0.005	0.01
274813		8.10	0.017	3.89	0.001	0.001	3.62	<0.001	<0.01	0.056	1.180	0.1	0.37	5.17	<0.005	0.01
274814		6.25	0.036	3.39	0.001	<0.001	2.65	<0.001	<0.01	0.051	0.919	0.1	0.27	4.23	<0.005	0.01
274815		7.12	0.012	4.02	0.001	<0.001	1.990	<0.001	<0.01	0.140	1.105	0.1	0.40	4.51	<0.005	0.02
274816		8.27	0.060	3.05	0.001	<0.001	3.04	<0.001	<0.01	0.052	1.050	<0.1	0.20	4.62	<0.005	<0.01
274817		8.81	0.021	4.98	0.001	<0.001	3.67	<0.001	0.01	0.284	1.430	0.2	0.40	3.73	<0.005	0.03
274818		8.58	0.027	3.16	<0.001	0.001	2.49	<0.001	<0.01	0.053	1.415	0.1	0.25	5.99	<0.005	0.01
274819		7.65	0.033	4.16	0.001	0.001	2.05	<0.001	0.01	0.063	1.105	0.2	0.29	3.66	<0.005	0.01
274820		7.53	0.041	2.81	0.001	0.001	2.15	<0.001	<0.01	0.047	1.110	0.2	0.21	4.36	<0.005	<0.01
274821		12.60	0.033	3.93	<0.001	<0.001	2.91	<0.001	<0.01	0.077	1.245	0.2	0.32	4.74	<0.005	0.01
274822		6.69	0.013	4.06	0.001	0.001	2.41	<0.001	0.01	0.044	1.255	0.2	0.31	3.55	<0.005	0.01
274823		6.02	0.018	2.36	0.001	<0.001	1.690	<0.001	0.01	0.043	1.010	0.1	0.21	4.63	<0.005	<0.01
274824		8.46	0.023	4.39	0.001	<0.001	1.650	<0.001	0.01	0.133	1.245	0.1	0.30	3.97	<0.005	0.01
274825		5.23	0.019	3.12	0.001	<0.001	2.18	<0.001	<0.01	0.039	0.704	0.1	0.25	3.50	<0.005	<0.01
274826		9.93	0.048	3.42	0.001	0.001	3.95	<0.001	<0.01	0.058	1.370	0.1	0.17	4.48	<0.005	0.01
274827		11.05	0.015	3.69	0.001	<0.001	2.22	0.001	0.01	0.244	1.105	0.3	0.24	4.27	<0.005	0.01
274828		5.17	0.006	3.19	0.001	0.001	1.695	<0.001	<0.01	0.058	0.866	0.1	0.26	5.99	<0.005	<0.01
274829		21.4	0.017	3.45	0.001	0.001	2.18	<0.001	0.01	0.352	1.970	0.2	0.24	10.05	<0.005	0.01
274830		6.79	0.014	2.70	0.001	0.001	1.710	<0.001	<0.01	0.045	0.975	0.1	0.19	2.89	<0.005	0.01
274831		7.73	0.007	3.07	0.001	<0.001	1.645	<0.001	0.01	0.104	0.990	0.1	0.25	3.44	<0.005	0.01
177751		15.45	0.022	3.64	0.001	0.001	4.10	<0.001	0.01	0.143	3.60	0.3	0.39	8.75	<0.005	0.02
177752		11.85	0.028	3.71	0.001	<0.001	3.15	<0.001	0.01	0.068	2.27	0.1	0.35	9.46	<0.005	<0.01
209051		24.1	0.022	4.62	0.001	0.001	4.62	<0.001	0.01	0.693	2.24	0.1	0.28	14.20	<0.005	0.01
209052		9.64	0.010	4.27	0.001	<0.001	3.47	<0.001	<0.01	0.110	1.710	0.2	0.39	8.91	<0.005	0.01
209053		18.40	0.043	4.90	0.001	0.001	4.36	<0.001	0.01	0.398	2.01	0.3	0.29	6.11	<0.005	0.02
209054		19.15	0.014	3.94	<0.001	<0.001	3.28	<0.001	0.01	0.328	3.17	0.3	0.31	7.61	<0.005	0.02
209055		14.40	0.028	3.32	0.002	0.001	3.51	<0.001	<0.01	0.202	2.84	0.2	0.29	7.52	<0.005	0.01
209056		11.75	0.031	3.35	<0.001	0.001	3.27	<0.001	0.01	0.197	2.03	0.1	0.26	6.67	<0.005	<0.01
209057		17.70	0.015	5.26	0.001	0.002	3.31	<0.001	0.03	0.372	2.73	0.4	0.34	5.80	<0.005	0.02
209058		19.25	0.069	6.50	<0.001	0.001	5.44	<0.001	0.02	0.507	2.48	0.1	0.37	13.75	<0.005	0.01
209059		25.7	0.011	3.08	<0.001	0.001	3.00	<0.001	0.02	0.334	2.32	0.2	0.23	7.65	<0.005	<0.01
209060		20.3	0.040	5.13	0.001	0.001	4.18	<0.001	0.02	0.374	1.960	0.2	0.31	9.73	<0.005	0.01
209061		13.40	0.019	4.19	<0.001	0.001	5.80	<0.001	0.01	0.053	1.670	0.1	0.37	6.50	<0.005	<0.01
209062		19.25	0.053	4.60	0.001	0.001	7.73	<0.001	0.01	0.181	2.97	<0.1	0.35	1300	<0.005	0.01
209063		33.8	0.070	10.35	<0.001	0.001	19.30	<0.001	0.02	0.196	5.19	0.3	0.52	10.80	<0.005	0.02
209064		10.95	0.029	8.04	<0.001	<0.001	5.88	<0.001	0.02	0.128	1.435	0.1	0.52	9.50	<0.005	0.01
209065		12.70	0.048	4.43	<0.001	0.001	4.42	<0.001	0.02	0.095	1.840	0.2	0.31	7.53	<0.005	0.01
209066		17.60	0.009	5.68	<0.001	0.001	2.92	<0.001	0.01	0.838	2.04	0.1	0.25	6.25	<0.005	0.01
209067		22.4	0.059	8.07	<0.001	0.001	12.70	<0.001	0.03	0.145	5.99	0.2	0.43	38.9	<0.005	0.02



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To: GREENSTONE GOLD MINES
 135 HARDROCK ROAD
 GERALDTON ON POT I MO

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CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	AuME- ST44	Au ME- ST44	AuME- ST44	
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	y ppm	Zn ppm	Zr ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
2748 1 1		1.135	0.029	0.047	0.243	35.5	0.133	1.515	23.2	0.48
2748 1 2		2.74	0.044	0.051	0.300	29.2	0.185	1.750	19.2	2.60
27 48 1 3		2.47	0.046	0.037	0.274	23.3	0.105	1.700	12.7	1.67
2748 1 4		2.41	0.050	0.026	0.248	24.0	0.134	2.26	7.1	1.34
27481 5		2.01	0.034	0.032	0.205	32.7	0.128	1.235	12.8	1.24
274816		2.55	0.040	0.027	0.272	21.4	0.111	2.65	8.6	1.34
27481 7		1.515	0.027	0.037	0.188	38.0	0.116	1.075	14.9	0.77
274818		2.38	0.044	0.029	0.266	19.8	0.102	3.25	7.7	1.25
274819		2.23	0.051	0.027	0.248	24.8	0.121	2.09	7.7	2.33
274820		2.07	0.043	0.028	0.255	19.0	0.088	2.70	8.0	1.76
27 48 21		2.58	0.057	0.028	0.257	28.4	0.139	2.18	9.7	2.40
274822		2.38	0.042	0.038	0.256	20.7	0.084	1.880	7.2	1.66
274823		1.325	0.028	0.024	0.271	15.5	0.094	2.52	6.5	0.37
274824		1.945	0.028	0.036	0.248	20.1	0.096	2.26	9.3	0.99
274825		1.635	0.034	0.026	0.169	19.2	0.099	1.250	5.9	1.04
274826		3.03	0.039	0.042	0.304	17.2	0.140	3.45	10.6	2.58
274827		1.710	0.041	0.028	0.224	20.7	0.107	2.48	84.6	0.87
274828		1.715	0.031	0.032	0.256	18.7	0.087	1.955	5.6	0.61
274829		2.57	0.050	0.042	0.338	24.4	0.149	2.48	17.0	2.33
274830		2.01	0.034	0.017	0.195	17.7	0.079	1.825	6.4	2.56
2748 31		2.02	0.047	0.028	0.220	20.5	0.097	1.300	6.6	1.62
17775 1		3.40	0.052	0.051	0.351	37.1	0.145	3.19	22.0	2.13
1 77752		2.71	0.051	0.049	0.324	20.7	0.110	5.78	13.4	1.18
2090 51		1.885	0.028	0.053	0.331	27.6	0.085	4.60	28.8	1.10
209052		3.53	0.079	0.044	0.364	31.2	0.159	2.72	11.6	3.71
209053		4.27	0.048	0.052	0.460	27.3	0.144	3.03	18.4	4.21
209054		3.98	0.047	0.043	0.499	26.0	0.204	6.35	16.6	2.51
209055		3.42	0.057	0.040	0.338	28.1	0.160	3.15	15.2	3.91
209056		3.83	0.054	0.041	0.432	24.7	0.123	4.28	11.8	3.45
209057		3.97	0.060	0.053	0.425	34.2	0.217	3.24	17.1	5.93
209058		5.01	0.087	0.048	0.678	43.9	0.233	5.98	42.1	1.53
209059		2.70	0.047	0.053	0.428	23.6	0.091	2.89	19.8	4.42
209060		3.88	0.039	0.074	0.512	19.9	0.096	3.88	19.6	3.82
209061		3.06	0.068	0.042	0.305	23.7	0.133	2.55	13.8	3.24
209062		4.40	0.074	0.046	0.524	32.8	0.157	6.28	33.6	1.44
209063		8.84	0.112	0.180	0.703	49.0	0.225	10.10	55.6	8.14
209064		2.28	0.051	0.064	0.306	35.7	0.196	2.56	29.3	0.98
209065		5.66	0.068	0.055	0.464	36.6	0.197	4.10	15.8	3.86
209066		4.40	0.045	0.063	0.640	17.5	0.081	4.31	17.0	7.36
209067		5.58	0.088	0.198	0.683	41.5	0.135	14.65	53.6	3.05

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Sample Description	Method Analyte Units LOR	WEI- 21	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
209068		1.30	0.0006	0.018	0.39	0.95	10	15.7	0.15	0.029	3.60	0.018	22.4	2.59	12.60	0.161
209069		1.54	0.0287	0.025	0.79	5.91	10	21.7	0.20	0.072	0.15	0.022	27.2	9.11	19.95	0.365
20 90 70		1.70	0.0013	0.023	0.42	3.41	10	14.0	0.15	0.056	0.39	0.026	23.5	4.34	13.55	0.201
20 90 71		1.52	0.0009	0.037	0.57	2.18	10	26.5	0.25	0.042	0.21	0.040	57.0	4.36	17.05	0.261
209072		2 03	0.0038	0.015	0.44	1.39	10	17.6	0.16	0.031	0.19	0.023	28.3	3.21	14.60	0.206



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CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST 44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST4 4	AuME- ST44	AuME- ST44	
		Cu ppm 0.01	Fe % 0.001	Ga ppm 0.004	Ge ppm 0.005	Hf ppm 0.002	Hg ppm 0.004	In ppm 0.005	K % 0.01	La ppm 0.002	Li ppm 0.1	Mg % 0.01	Mn ppm 0.1	Mo ppm 0.01	Na % 0.001	Nb ppm 0.002
209068		5.22	0.840	1.410	0.060	0.052	0.012	<0.005	0.03	11.30	4.8	1.28	110.0	0.10	0.033	0.695
209069		35.1	2.01	2.44	0.053	0.028	0.019	0.011	0.03	10.00	7.3	0.32	346	0.33	0.022	0.501
209070		9.03	1.090	1.410	0.057	0.027	0.008	0.005	0.03	10.75	4.5	0.26	203	0.16	0.020	0.593
209071		8.75	1.060	1.675	0.087	0.027	0.019	0.006	0.04	28.2	5.8	0.21	236	0.14	0.025	0.654
209072		6.58	1.010	1.570	0.064	0.047	0.009	0.006	0.03	11.85	4.7	0.18	145.5	0.10	0.027	0.699

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Project: Greenstone Gold Mines Soil Sam

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Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
209068		6.56	0.047	1.920	<0.001	0.001	2.26	<0.001	0.01	0.038	1.585	<0.1	0.19	24.4	<0.005	<0.01
209069		15.80	0.033	3.17	0.001	0.001	3.02	<0.001	0.01	0.437	3.44	0.1	0.18	6.14	<0.005	0.01
209070		8.28	0.035	2.65	<0.001	0.001	2.73	<0.001	0.01	0.180	1.985	<0.1	0.16	7.32	<0.005	0.01
2090 7 1		9.23	0.043	3.20	<0.001	0.001	4.46	<0.001	0.01	0.051	2.98	<0.1	0.18	6.91	<0.005	<0.01
2090 72		7.88	0.037	2.26	<0.001	0.001	2.23	<0.001	0.01	0.072	1.855	<0.1	0.18	10.55	<0.005	<0.01

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CERTIFICATE OF ANALYSIS TB16154429

Sample Description	Method Analyte Units LOR	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	AuME- ST44	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
209068		2.57	0.044	0.033	0.315	15.3	0.092	4.91	8.1	2.59
209069		2.75	0.042	0.036	0.310	28.8	0.139	4.19	18.9	1.58
209070		2.68	0.039	0.039	0.283	17.5	0.125	4.66	10.8	1.37
209071		3.57	0.037	0.065	0.412	16.4	0.119	11.05	12.0	1.27
209072		3.40	0.044	0.040	0.320	18.3	0.103	4.46	9.8	2.39

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