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2017 REPORT OF WORK

Project 4280672

Dawson Road Lot Area

Douglas Parker (E34247)

November 10, 2017

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Summary

Project 4280672 consists of one unpatented claim (TB4280672) comprising 5 units approximately 80 ha in area located in the Dawson Road Lots Area.

The Shebandowan Greenstone Belt is a proven gold and massive sulphide producing belt with past producing mines and numerous gold and base metal occurrences.

Previous work in the area indicates a geological environment favourable to hosting gold deposits (Pistol Lake, Bandore Property, Moss Lake Property, Shabaqua area, Dawson Road Lots, Goldie Prospect, Gold Creek Area), the formation of volcanogenic massive sulphide deposits (Bylund, Finmark, Vanguard and Coldstream Properties) and the deposition of magmatic sulphide orebodies (Inco Shebandowan Mine).

The area has been featured by the Resident Geologist Thunder Bay South in Recommendations for Exploration 2016-2017 and Recommended #1 Gold Exploration Target MNM Regional Till Sampling 1999 (OFR5993).

The property is underexplored, with only a first pass for gold and VMS, yet a significant database exists which demonstrates favourable potential for hosting economic gold, nickel, copper, PGE and zinc deposits.

Excellent access and infrastructure are advantageous for economic and efficient exploration.

From May 6, 2017 to November 10, 2017 a program of field work, analytical work, analysis and report writing was undertaken on the property.

This preliminary exploration program consisted of reconnaissance, an orientation geochemical sampling survey and bedrock stripping and sampling. A very limited budget precluded more detailed work at this time.

Results of this exploration program indicate that gold mineralization is widespread in the project area and that good potential exists for significant base metal mineralization particularly associated with exhalative horizons and Cr-Ni bearing volcanics.

Humus and Alder Twig Geochemistry appear to effectively indicate gold, arsenic and zinc within bedrock sources

Altered volcanic, sedimentary and intrusive rocks with extensive alteration and mineralization (ankerite-silicification-sericite-fuchsite-sulphide) associated with gold and other metals were observed throughout the extent of the study area.

The report recommends geological mapping and sampling be undertaken. Additional areas should be prioritized for stripping. All stripped areas should be washed, mapped and sampled. Additional Humus and Alder sampling should be undertaken to cover the remainder of the property. Geophysics including Maxmin and IP would provide improved targeting for diamond drilling.

INTRODUCTION:

Project 4280672 consists of one unpatented claim (TB4280672) located in the Dawson Road Lots Area.

The area hosts numerous significant occurrences, deposits and past and present producers of gold and base metals.

The property is under-explored and has excellent potential for hosting economic gold, nickel, copper, PGE and zinc deposits.

From May 12, 2017 to November 10, 2017 a program of field work, analytical work, analysis and report writing was undertaken on the property. The claim holder supervised all aspects of the project and authored this report.

This preliminary exploration program consisted of reconnaissance, an orientation geochemical survey, including humus and alder twigs, and bedrock stripping and sampling. A very limited budget precluded more detailed work at this time.

LOCATION:

The project is located in the Dawson Road Lots Area, 40 km west of Thunder Bay, 2 km east of Shabaqua Corners in the Thunder Bay Mining Division. (See Location Map)

NTS: 52/A12 SW

UTM nad83: zone 16: 289000E, 5385000N

ACCESS:

Access is best achieved via Highway 11 which crosses the property and secondary forestry access roads.

PROPERTY:

The property consists of one unpatented mining claim (TB 4280672) comprising 5 units approximately 80 ha in area. (See Claim Map)

REGIONAL GEOLOGY:

The project area lies within the western extension of the Abitibi-Wawa-Shebandowan subprovince of the Superior structural province of the Canadian Shield. The volcanic-sedimentary units of this belt are bounded to the south by granitic terrain and to the north by the Quetico subprovince.

The volcanic-sedimentary stratigraphy can be subdivided into the Greenwater Assemblage of Keewatin-age (2710-2722 Ma), the Kashabowie Group (2695-2710 Ma) and the Shebandowan Assemblage of Timiskaming-age (2689-2696 Ma). The Greenwater assemblage is interpreted to have island arc and ocean crustal origins it is extensively homoclinal and youngs to the north.



Location Map

Notes:

Legend

Administration Boundaries

- Mining Divisions
- Resident Geologist District
- Townships and Areas
- UTM Grid
- Geographic Lot Fabric
- Other Federal Land

Mineral Tenure Grid

- DMTG Tenure Grid

Alienations

- Withdrawal
- Notice

Unpatented Claim

- Active
- Reconciled
- Pending

Disposition

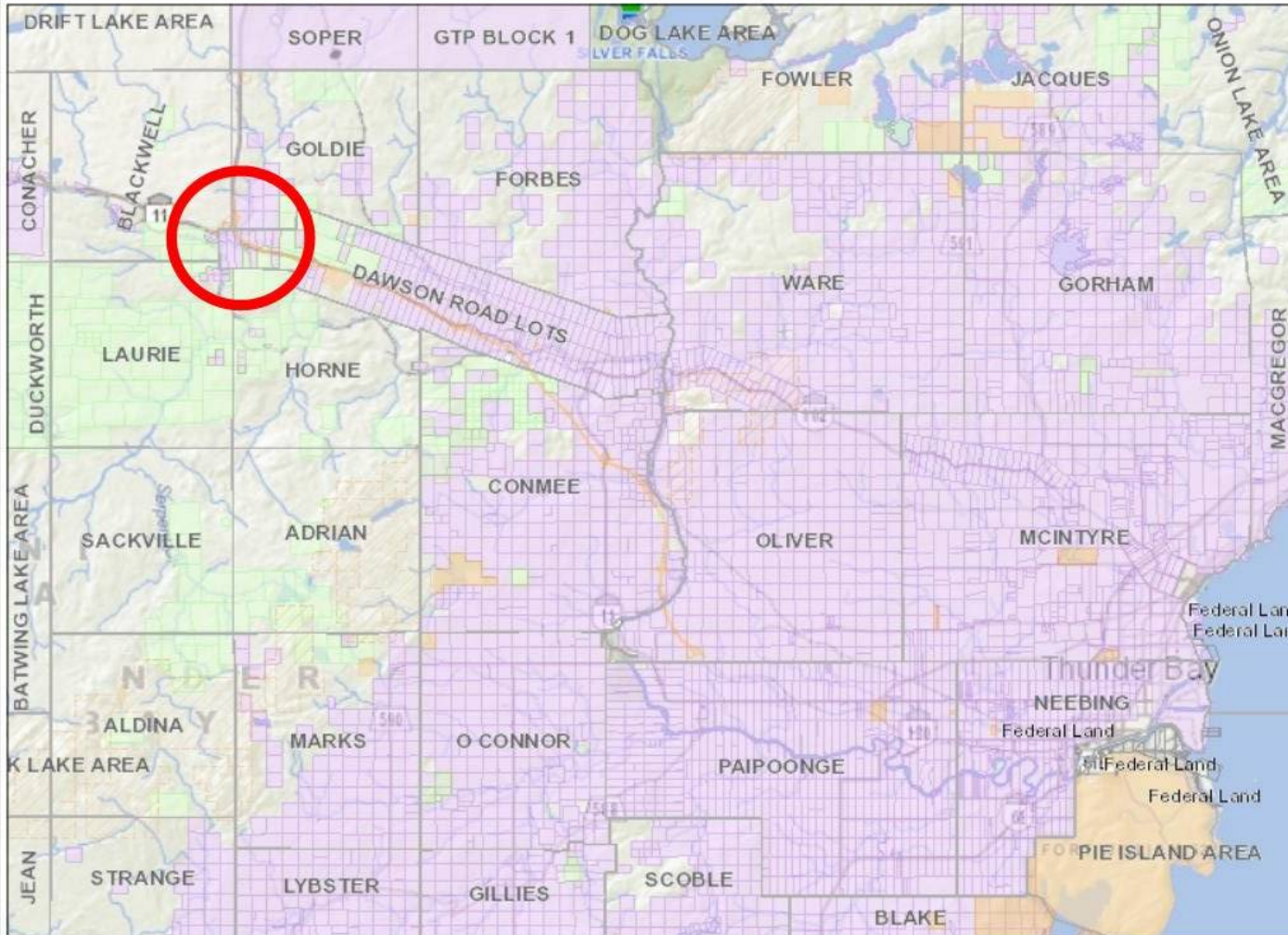
- Disposition

Disposition Symbols

- Camp
- Disposition Unknown/Pending
- Freehold Patent Mining Rights Only
- Freehold Patent Surface Rights Only
- Freehold Patent Surface and Mining Rights
- Land Use Permit
- Leasehold Patent Mining Rights Only
- Leasehold Patent Surface Rights Only
- Leasehold Patent Surface and Mining Rights
- License of Occupation Mining Use Only
- License of Occupation Surface Use Only
- License of Occupation Surface and Mining Rights
- License of Occupation Uses Not Specified
- Order in Council
- Tower
- WPLA

Geology Layers

- AMIS Sites
- AMIS Features
- DRI Holes
- Mineral Occurrences



Projection: Web Mercator



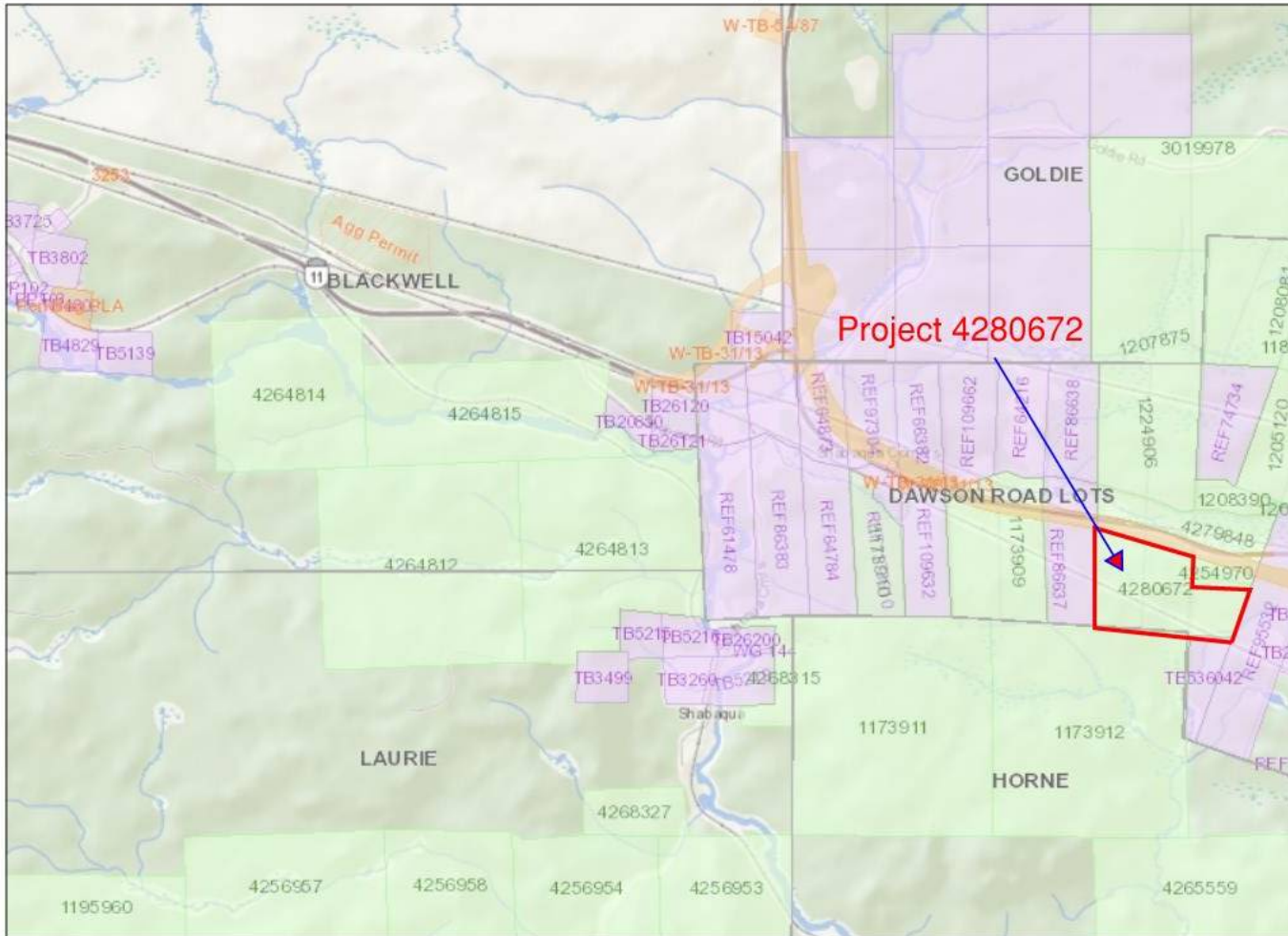
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Legend

- Administration Boundaries**
- Mining Divisions
 - Resident Geologist District
 - Townships and Areas
 - UTM Grid
 - Geographic Lot Fabric
 - Other Federal Land
- Mineral Tenure Grid**
- OMTG Tenure Grid
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- Withdrawal
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- Disposition**
- Disposition
- Disposition Symbols**
- ⊙ Camp
 - ⊙ Disposition Unknown/Pending
 - ⊙ Freehold Patent Mining Rights Only
 - ⊙ Freehold Patent Surface Rights Only
 - ⊙ Freehold Patent Surface and Mining Rights
 - ⊙ Land Use Permit
 - ⊙ Leasehold Patent Mining Rights Only
 - ⊙ Leasehold Patent Surface Rights Only
 - ⊙ Leasehold Patent Surface and Mining Rights
 - ⊙ License of Occupation Mining Use Only
 - ⊙ License of Occupation Surface Use Only
 - ⊙ License of Occupation Surface and Mining Rights
 - ⊙ License of Occupation Uses Not Specified
 - ⊙ Order in Council
 - ⊙ Tower
 - ⊙ WPLA
- Geology Layers**
- AMIS Sites
 - AMIS Features
 - Drill Holes
 - × Mineral Occurrences



Projection: Web Mercator



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The Shebandowan assemblage is composed of alluvial-fluviatile sediments, alkaline volcanics and associated alkaline intrusives.

The Timiskaming-like units occupy fault bounded basins within the Keewatin stratigraphy which are interpreted to have formed during regional transpressional deformation at 2700 Ma. Two major regional breaks, the Crayfish Creek and Postans Lake faults, extend in an east west direction across the belt, and define in part major unconformable contacts between Timiskaming and Keewatin assemblages. A third major regional break, the Tinto Lake Fault, extends in a northeast direction across the belt, and defines in part a major unconformable contacts between Timiskaming and Keewatin assemblages.

The Quetico subprovince occurs to the north and consists of a monotonous sequence of turbidites ranging from conglomerate to greynwacke to argillite.

Regional metamorphic grade is lower greenschist facies with higher grades up to lower amphibolite facies occurring proximal to intrusive contacts.

This portion of the belt exhibits strong similarities to the Val d'Or, Timmins and Kirkland Lake areas both in geological and tectonic evolution. Geological models based upon the gold deposits related to the Timiskaming environments of the Abitibi are being used as effective guides for exploration in the Shebandowan area. Since the mid 1980's, over 100 new gold occurrences have been discovered in the belt, mostly as a result of surface prospecting, which has brought to light the potential for additional gold discoveries and illustrates the relatively unexplored nature of the belt. The identification of this Timiskaming-type of geological setting and related gold mineralization has resulted in the area being re-named the Matawin Gold Belt by government geologists (Lavigne and Scott, 1994).

MODEL OF GOLD MINERALIZATION:

The Shebandowan area exhibits many of the important elements of a distinct class of gold deposits found within the Abitibi belt. The main characteristics of these gold deposits are their close spatial association with Timiskaming aged felsic to intermediate stocks and dykes, Timiskaming type fluvial-alluvial sedimentary and volcanic rocks, which have intruded 25 to 35 Ma older rocks in unconformable contact along major fault zones. Gold ore bodies occur within composite stocks or along their margins (Beattie, Young-Davidson), adjacent satellite dykes and sills (Ross, Douay No 531, Holt McDermott South zone), and along faults and lithological contacts away from the intrusions (Lightning zone, Douay No. 68) commonly with mafic to ultramafic volcanics and graphitic argillites. Orebodies in such positions are interpreted to represent proximal to distal components of large magmatic hydrothermal systems (Robert, 1997). Ore bodies consist of disseminated sulphides with variably developed stockworks of quartz-carbonate-albite +/- K-feldspar veinlets, within zones of carbonate, albite, sericite and locally K feldspar alteration.

Examples of gold deposits from the area that fit this model include the Pistol Lake Property located 27 km to the west of the project area, the Bandore property 23 km to the west, the Gold Creek Property 23 km to the south and the Tower Property 11 km to the east.

A well-defined model of Archean gold deposits has been developed that has application to this area and is described as follows in "Discover Prospecting an introductory prospecting manual" available from the Ontario Prospectors Association.

The statement “gold is where you find it”, has a significant amount of validity. Gold in Archean terrain can be found in virtually any rock type.

Gold is either “primary” that is part of the original rock or “secondary” that is that gold has been added or concentrated in a rock later. Often it is some combination of primary concentration and secondary enrichment that results in the development of significant gold mineralization.

The most favourable host rocks for gold mineralization occur within greenstone belts and include iron-rich rocks such as magnetite-rich iron deposits, gabbros and mafic volcanic rocks. The sulphur in the hydrothermal solutions reacts with the iron in the rocks to form iron sulphide minerals, such as pyrite. This process stimulates the precipitation of gold, which commonly coats or "plates" the pyrite crystals. Ultramafic, magnesium-rich rocks and carbon-rich, graphitic rocks are also good chemical traps for vein minerals such as gold-bearing veins. Other rock types, such as intermediate to felsic, igneous intrusive rocks, are also closely related to vein deposits. These intrusive rocks may have been sources for hydrothermal fluids that escaped from the intrusions as they cooled and transported minerals and elements into open fractures. This may explain why many vein deposits are spatially associated with intrusive igneous rocks. Many gold vein deposits, for example, occur at or near the margins of felsic intrusions and silver vein deposits are closely related to intrusions of diabase.

Secondary enrichment is almost always a major characteristic of economic Archean gold deposits. Three important factors are often present in secondary enrichment of gold: deformation of rocks (folding and fracturing); hydrothermal processes; and vein development.

The term "hydrothermal" means "hot water". Hydrothermal solutions originate from the dehydration of rocks during compaction and metamorphism; and from cooling, igneous intrusions. The water (seawater, groundwater, rainwater) may also originate on the Earth's surface but percolates downwards into the crust where it is heated and circulated. These fluids are highly mobile and chemically reactive, making them excellent solvents for metals and minerals. Open fractures and porous rocks allow the passage and circulation of these solutions. Vigorous chemical reactions occur between the fluids and minerals in rocks that are exposed along the walls of the fractures. These chemical reactions change the composition of the rocks and the fluids. When the composition of the hot solutions are changed their ability to transport dissolved elements quickly diminishes and metals and minerals are precipitated and deposited in the open fractures. Mineral fillings in open fractures or veins are typical hydrothermal mineral deposits. A typical vein is a mineral deposit which has filled an open fissure solidly from wall to wall. Veins usually have sharply defined boundaries but there may be a complete gradation from the vein into the surrounding wall rocks. The shape and physical character of a vein depends upon the type of fissure it has filled, such as an opening formed by structural deformation, or an original opening in the rock. Veins may be any size and form; they can be found in any rock type; and they may be composed of only one type of mineral or extensive assemblages of minerals. The majority of veins are dominantly composed of quartz and/or carbonate minerals with a wide variety of accessory minerals. Mineralization may be evenly distributed throughout the veins; concentrated along vein-wall rock contacts; or concentrated around rock fragments in the vein. Some mineralization may also extend outwards from the vein into the surrounding wall rocks. Replacement deposits are formed by the deposition of abundant vein minerals in the wall rocks without the formation of veins.

Veins represent mineral fillings of open spaces in rocks. Therefore, they are very closely associated with strongly deformed rocks. Most veins occur in very structurally complicated

deformation zones and tectonic breaks that provide an abundance of open spaces for vein development. Veins may be associated with small-scale faults, shear zones, folds structures and fracture systems or large deep-seated fracture and fault systems developed during regional earth movements.

The composition of rocks localize deformation zones and specific types of structures. Felsic rocks, iron formation and small igneous intrusions commonly host fracture systems and brecciated zones. Mafic and ultramafic rocks host shear and fracture zones. Rock contacts between different rock types are also the site of deformation due to the contrast in composition between the rocks.

Vein systems are usually tabular, sub-vertical, structures. The thickness of a vein system is commonly measured in metres and its strike and dip dimensions measured in tens or hundreds of metres. The economically valuable part of the vein may be considerably smaller than the vein itself because the majority of veins are not evenly mineralized. The vein system may also be part of a larger structure consisting of a system of separate shear zones each hosting their own vein systems.

Vigorous chemical reactions occur between hydrothermal fluids and wall rocks as the fluids circulate through open spaces. These chemical reactions promote the precipitation of minerals from the solutions and change the mineralogical and chemical composition of the wall rocks. The chemical reactions commonly remove and/or add elements to the rocks resulting in the destruction of pre-existing minerals and the formation of new minerals. This effect is called wall rock alteration, which accompanies all mineral deposits formed by hydrothermal fluids. Wall rock alteration is readily visible to the eye and commonly results in discolouration of the rocks and the growth of new minerals. It can also change the physical properties of rocks and make them harder or softer.

In a simple fissure vein the alteration extends parallel to the walls of the fissure and forms an alteration halo around the vein. The halo is relatively uniform in width but can vary according to the size of the vein, or the intensity/amount of fluid movement. If the veins are closely spaced, the alteration halo of one vein may merge with the halos of other veins. The alteration may also be very extensive and widespread affecting a large area of rocks. The type, extent and intensity of the alteration depends upon the chemical, composition of the wall rocks and solutions; temperature and pressure of the mineralizing solutions; the amount of solutions involved; and the size of the open spaces. Rocks that are easily altered, such as mafic and ultramafic rocks, will exhibit intense and extensive alteration. The reverse is true for less chemically reactive rocks, such as felsic, silica-rich rocks. Large structural systems that allowed the passage of enormous quantities of solutions will host extensive vein systems with widespread alteration.

Many vein systems are relatively small and difficult to locate, therefore, recognizing wall rock alteration is important. The alteration that surrounds a vein system may be much more extensive and widespread than the smaller vein system. Therefore, recognition of rock alteration may lead a prospector to the mineralized veins.

Wall rock alteration is not only associated with veins, but occurs with any mineral deposits formed by the circulation of hydrothermal fluids in rocks. Below are descriptions of the more common types of wall rock alteration.

Carbonatization: This involves the formation of carbonate minerals (calcite, ankerite, dolomite) in the wall rocks. This alteration "bleaches" or discolours the rock and gives it a distinctive

orange-brown appearance on weathered surfaces and a pale grey or buff colour on fresh surfaces. Small crystals or "rhombs" of carbonate can sometimes be seen in the rocks. Carbonatization is most well developed in intermediate to mafic and ultramafic rocks.

Chloritization: This is the formation of abundant dark green chlorite in wall rocks due to enrichments in magnesium (Mg). Chloritized rocks are soft dark green and schistose. Chloritization is associated with carbonatization and is usually well developed in mafic rocks. It can also occur in very felsic rocks such as rhyolite.

Albitization: This is the formation of albite feldspar in wall rocks due to enrichments in sodium (Na). Albitized rocks are mottled white to grey and may contain small laths of secondary feldspar.

Epidotization: This is caused by the pervasive enrichment of epidote in wall rocks. Epidotized rocks are pale apple green and can be extremely hard with conchoidal fractures. Epidotization is most prominently developed in intermediate to mafic rocks.

Potassic Alteration: This type of alteration is caused by the enrichment of potassium (K) in wall rocks. Minerals that contain high amounts of potassium such as biotite mica, sericite mica and potash feldspar are abundant in potassium-enriched rocks. Rocks containing abundant, fine-grained, biotite may be schistose with a shiny, purple-brown tinge on weathered surfaces. Sericite is very fine-grained, muscovite mica, which is very white and shiny giving the altered rock a platy, schistose texture. Rocks enriched in potash feldspar are commonly pink or pink-orange and may contain laths of feldspar.

Sericitization: As mentioned above, sericitization is a result of potassium enrichment forming sericite mica. Sericite is commonly accompanied by quartz and pyrite. If the sericite is enriched in chromium it becomes a bright emerald green and is known as fuchsite or mariposite. Sericitization commonly occurs in felsic and sedimentary rocks while green sericite forms in mafic, ultramafic and felsic rocks. Green sericite is commonly associated with carbonate.

Silicification: This alteration occurs when there is a major enrichment of silica (SiO_2) in the wall rocks. Silicified wall rocks are very quartz-rich; have a cherty, porcelain or dull lustre; and are very hard with a conchoidal fracture. Silicification can occur in any rock type.

Sulphidation: This alteration consists of the development of iron sulphides (pyrite, arsenopyrite) in wall rocks due to the addition of sulphur to the iron-rich rocks. The sulphur combines with iron released during the decomposition of iron-rich minerals and forms iron sulphides. Sulphidation commonly occurs in iron-rich, mafic rocks and iron formation.

Many other types of alteration can occur, such as tourmalinitization (development of tourmaline due to enrichments in boron); dolomitization (addition of magnesium to limestone forms dolomite); garnetization (abundant garnet developed in an altered rock). Enrichments of aluminum in rocks commonly form assemblages of aluminum silicate minerals, such as andalusite, sillimanite and kyanite. Other minerals such as biotite, cordierite, chloritoid staurolite and anthophyllite may be formed by the metamorphism of altered rocks with enrichments of aluminum iron and magnesium.

Gold has been mined in various locations across Ontario including Red Lake, Hemlo, Pickle Lake, Beardmore, Geraldton, Kirkland Lake and Timmins. The gold deposits at Timmins, Kirkland Lake, Hemlo and Red Lake are famous world class ore bodies that have produced gold

for many years. The Dome Mine in Timmins, for example, has produced gold for over 100 years..

REGIONAL VOLCANIC HOSTED BASE METAL DEPOSIT MODEL (modified from Discover Prospecting)

Mineral concentrations in volcanic rocks are formed by the discharge of hot, hydrothermal Solutions onto the seafloor. Metal-rich, sulphide minerals precipitate from the solutions and accumulate amongst volcanic and sedimentary rocks. These deposits form disseminated, semi-massive and massive, lens-shaped bodies of volcanogenic massive sulphides (VMS) which are a major source of copper, zinc, lead, silver, gold and minor amounts of tin, cadmium, antimony and bismuth. The typical economic deposit consists of several individual massive sulphide lenses that contain 1 to 10 million tonnes of ore grading 2% to 10% combined Cu, Zn and Pb. The largest deposits contain in excess of 100 million tonnes of ore. Deposits tend to occur in clusters and individual deposits occur within a single, specific sequence of rocks.

Massive sulphide deposits form in areas of underwater volcanic activity where seawater is drawn down through fractures in volcanic rocks and heated by cooling igneous intrusions beneath the seafloor. The heated seawater circulates through fractures and reacts with the rocks, leaching out metallic elements. Continued heating causes the solutions to circulate upwards along fractures. The solutions eventually pour out into the sea where metallic sulphide minerals precipitate from the solutions on or near the seafloor (Figure 2).

The form of the massive sulphide deposits range from steep-sided cones to flat, tabular, sheets that accumulate in deep water on the flanks of felsic, volcanoes or in topographic depressions (Figure 3). The most common metallic mineral in a massive sulphide lens is pyrite accompanied by pyrrhotite, chalcopyrite, sphalerite and galena. Chalcopyrite content decreases upward and outward from the base of the massive sulphide lens. A thinly bedded unit of iron-rich chert commonly overlies a sulphide deposit and may extend laterally away from the deposit. In some cases, the massive sulphides are spatially associated with magnetite-hematite and pyrite-pyrrhotite iron deposits (Figure 4).

Volcanogenic massive sulphides can be divided into two types: 1) a Zn-Pb-Cu type associated with intermediate to felsic volcanic flows, felsic quartz-and quartz-feldspar porphyries, felsic pyroclastic rocks and fine-grained sedimentary rocks; and 2) a Cu-Zn type associated with mafic, volcanic flows and fine-grained sedimentary rocks (Lydon 1984). Deposits of the Cu-Zn type occur where the rocks below the deposit consist of mafic volcanic rocks or their direct sedimentary derivatives, whereas deposits of the Zn-Pb-Cu type occur where the rocks below the deposit consist of felsic volcanic rocks or fine-grained, shaly sedimentary rocks.

Massive sulphide deposits are commonly underlain by a wide and extensive alteration zone (Figure 4) found in rocks that lie below the ore body (footwall rocks). Hot solutions that deposited the sulphides on the seafloor circulated through the rocks and chemically changed them by adding or removing elements during vigorous chemical reactions that occurred between the rocks and the solutions. Most footwall rocks beneath a massive sulphide lens are enriched in magnesium (Mg), iron (Fe), silicon (Si), potassium (K), copper (Cu) and zinc (Zn) and depleted in sodium (Na) and calcium (Ca). The altered rocks contain large amounts of minerals that would not normally occur in unaltered rocks, such as chlorite, sericite, biotite, talc, quartz, iron carbonate and disseminated sulphides. If the altered rocks are metamorphosed they may contain unusual concentrations and assemblages of very coarse-grained minerals, such as anthophyllite, kyanite, cordierite, sillimanite, staurolite, garnet, biotite and sericite. The

occurrence of such minerals serves as guides to exploration for volcanogenic massive sulphide deposits.

Volcanogenic massive sulphide deposits occur across Ontario and are mined at the Kidd Creek Mine at Timmins; the Winston Lake Mine near Schreiber; and the Geco Mine at Manitouwadge. Past producers are the South Bay Mine near Red Lake; the Matabi and Lyon Lake mines near Ignace; and the Temagami Mine at Temagami Lake.

Volcanogenic massive sulphide deposits are found at the Vanguard Property 43 km to the west and were mined at the Coldstream Mine 54 kilometres to the west. The Winston Lake Mine near Schreiber and the Geco Mine at Manitouwadge are both hosted in stratigraphy contemporaneous and comparable to the Burchell Assemblage crossing the Project Area.

REGIONAL MAFIC INTRUSION HOSTED BASE METAL DEPOSIT MODEL (modified from Discover Prospecting)

This Project hosts a geological environment that is similar to many Cu-Ni-PGE mining camps.

A well-defined model of magmatic sulphide deposits has been developed that has application to this area and is described as follows in “Discover Prospecting an introductory prospecting manual” available from the Ontario Prospectors Association.

Iron-nickel-copper sulphide deposits, platinum and chromium deposits are characteristically associated with mafic and ultramafic igneous rocks.

The iron-nickel-copper sulphide deposits consist of massive, semi massive and disseminated pyrrhotite, pentlandite (nickel sulphide) and chalcopyrite (copper sulphide); and contain variable amounts of cobalt, platinum group elements, gold and silver. The deposits generally occur at the base of irregular gabbro intrusions, but may be found in ultramafic intrusive lenses or extrusive flows. The sulphides may also be concentrated in shear zones, and faults within the intrusions or may occur as veins or lenses in country rocks adjacent to the intrusions. Examples of significant iron-nickel-copper sulphide deposits in Ontario are: the complex and enormous deposits at Sudbury; the Shebandowan and Great Lakes Nickel deposits near Thunder Bay; and the Gordon Lake Mine at Rex-Werner lakes north of Kenora.

Chromium and platinum deposits occur in **layered**, sill-like or funnel-shaped, mafic to ultramafic **intrusions**. The layering consists of different rock types formed when various minerals are concentrated and segregated into layers as the intrusion crystallizes. The intrusions consist of layers of ultramafic rocks at the base with more felsic, granitic layers at the top. Individual layers may be a few centimetres to hundreds of metres thick. The chromium and/or platinum mineralization is commonly concentrated in ultramafic, peridotite layers that are rich in olivine. The deposits form tabular, parallel layers with remarkable lateral continuity. Chromite forms semi massive or massive chromitite seams that contain no sulphide minerals. Platinum group elements are also associated with sulphide minerals (pyrrhotite, chalcopyrite, pentlandite) that comprise less than 5% of the rock. Chromium deposits may also occur as intensely deformed pods or lenses of mineralization in highly deformed and altered ultramafic rocks. The ultramafic rocks are commonly serpentinized sheared and faulted.

Chromium deposits are known to occur in intrusions at Puddy, Obonga and Shebandowan lakes and in the Crystal Lake Gabbro near Thunder Bay; in the Big Trout Lake layered intrusion north of Pickle Lake in Northwestern Ontario; and in the Rex-Werner lakes area north of Kenora.

Platinum is produced at Sudbury and occurs in the Lac Des Illes Intrusion north of Thunder Bay; in the Big Trout Lake Intrusion; and in the Rex-Werner lakes area. Platinum is found in very low or anomalous amounts in many ultramafic intrusions throughout Ontario.

Nickel, Copper, Au and PGE mineralization was mined at the Shebandowan Mine 29 km to the west. A significant Chromium resource was also outlined at the Shebandowan Mine.

PROPERTY GEOLOGY:

The project area is underlain by Archean supracrustal rocks of the Shebandowan greenstone belt.

The supracrustal rocks strike east-west with subvertical dips and form an apparent homoclinal sequence which youngs to the north.

A mixed stratigraphic sequence of Keewatin units (Kashabowie Group) composed of ultramafic to felsic volcanic and intrusive units with narrow chemical and clastic sedimentary units including graphitic argillites, iron formation, chert and sulphidic exhalites occurs in this area. Composite intrusive units intrude the supracrustals.

A pull-apart Timiskaming-like basin occurs to the north of the Keewatin stratigraphy and is composed of clastic sedimentary units (Shebandowan Assemblage).

East-west and northeast deformation zones cross the property.

All rock units have been subjected to regional progressive greenschist facies metamorphism.

PROPERTY MINERALIZATION:

1) Gold Mineralization:

Gold mineralization is associated with a series of east-west trending and north-east trending deformation zones and favourable host stratigraphy interpreted to cross the property.

The Dawson Road Lot Zone comprises the Bylund (4.56g/T Au over 12.0m), West (4.5g/T Au over 2.6m along 82.4m strike) and Goldcache (up to 42.8g/T Au) occurrences and crosses the property. The West Zone is exposed in a series of old trenches on the property. A 2g/T Au sample was also returned from the west boundary of the property on the power line.

Historic sampling on the property has been confined to the immediate area of the West Showing.

Sericite and ankerite altered volcanic rocks, graphitic argillites and a chert-sulphide breccia are exposed at the West Zone.

At least 2 parallel and similar stratigraphic units occur on the property, as outlined by geophysics and intersected by diamond drilling .

Many significant Gold Prospects are located proximal to the property: Goldie Prospect (Main and Shepherd Zones) located 1 km north, Pistol Lake Property located 27 km to the west of the project area, the Bandore Property 22 km to the west, the Gold Creek Property 13 km to the south and the Tower Property 11 km to the east.

The current program indicates that gold mineralization and associated alteration occurs extensively on the property. Gold displays a very strong relationship to arsenic, ankerite, fuchsite, silicification and pyrite. Humus and Alder twig sampling returned numerous gold in soil anomalies with corresponding pathfinder elements over areas of known mineralization as well as unexplained anomalies.

2) Base Metal Mineralization:

Felsic volcanic stratigraphy with sulphide bearing exhalite indicates high potential for VMS mineralization on the property.

Volcanogenic massive sulphide deposits are found at the Vanguard Property 43 km to the west and were mined at the Coldstream Mine 54 kilometres to the west both of which are interpreted to occur in the Kashabowie Group being the same stratigraphy as this property.

The current program identified a zinc in Alder Twigs anomaly coincidental with an electromagnetic anomaly immediately north of the West Showing.

3) Magmatic Ni-Cu-PGE

Ultramafic units interpreted as the strike extension of the Shebandowan Mine stratigraphy likely cross the property.

Nickel, Copper, Au and PGE mineralization was mined at the Shebandowan Mine 29 km to the west. A significant Chromium resource was also outlined at the Shebandowan Mine.

The current program identified local anomalous Ni and Cr associated with rocks interpreted as possible altered ultramafic volcanics.

PREVIOUS WORK:

1934, Birch Bay Gold Mines conducted surface trenching, sampling for gold only and possible diamond drilling (no logs).

1936, Freeport Exploration Company conducted possible diamond drilling (no logs) and trenching.

1947, Mattawin Gold Mines Limited conducted sampling of existing trenches for gold only.

1966, Cliffs of Canada conducts a self potential survey.

1970, Noranda Mines Limited carried out geological mapping and geophysical surveys.

1972, Getty Mines Limited conducted geological mapping, Very-Low-Frequency - Electromagnetic ground geophysics and one diamond drill hole totaling 151.6 metres (no assays).

1980, Lynx-Canada Explorations Limited completed 5 diamond drill holes totaling 346 metres.

1985, Jalna Resources conducted soil sampling and airborne geophysics.

RATIONALE

The Shebandowan Greenstone Belt is a proven gold and massive sulphide producing belt with past producing mines and numerous gold and base metal occurrences.

Previous work in the area indicates a geological environment favourable to hosting gold deposits (Pistol Lake, Bandore Property, Moss Lake Property, Shabaqua area, Dawson Road Lots, Goldie Prospect, Gold Creek Area), the formation of volcanogenic massive sulphide deposits (Bylund, Finmark, Vanguard and Coldstream Properties) and the deposition of magmatic sulphide orebodies (Inco Shebandowan Mine).

The area has been featured by the Resident Geologist Thunder Bay South in Recommendations for Exploration 2016-2017 and Recommended #1 Gold Exploration Target MNDM Regional Till Sampling 1999 (OFR5993).

The property is underexplored with only a first pass for gold and VMS yet previous work has provided a significant database to work from. Previous work indicates the presence of potentially ore grade gold mineralization present at the West Showing.

Excellent access and infrastructure are advantageous for economic and efficient exploration.

WORK PERFORMED

From May 6, 2017 to November 10, 2017 a program of field work, analytical work, analysis and report writing was undertaken on the property. Field work was conducted from May 12 to September 4, 2017. The claim holder supervised all aspects of the project and authored this report. 15 days of field work were completed.

This preliminary exploration program consisted of reconnaissance, an orientation geochemical sampling including humus and alder twigs and bedrock stripping and sampling. A very limited budget precluded more detailed work at this time.

A geochemical survey, comprised of 42 humus and 42 alder twig samples, tested the West Showing area as well as stratigraphic and geophysical targets. Samples were ashed and analysed by NAA for multi-elements by Actlabs of Thunder Bay. (See Appendix III and IV)

Bedrock stripping was performed in 4 areas including the West Showing as well as 3 additional areas selected for ease of equipment access and prospectivity, including reports of significant gold mineralization at the West Showing and visual identification of altered and mineralized float and bedrock. Stripped areas were cleaned, mapped and sampled in a cursory fashion. An

excavator (Cat 312 CL with modified dozer blade) was contracted from Belham Limited of Kaministiquia with Stephen Hamer as operator. (See invoice Appendix II 'East Property')

A total of 57 rock samples were analysed by AR-ICP analysis with FA-AA on high grade gold samples by Actlabs of Thunder Bay. (See Appendix III and IV)

RESULTS AND DISCUSSION

Reconnaissance

Access to the property includes highway 11/17 but parking is confined to the road shoulders and the old access trail from the highway to the West Showing is overgrown and difficult to follow. The property is best accessed from a forestry access road, located west of the property, which continues onto the property and is drivable by 2 wheel drive past the power line into the central part on the property. Here a maze of overgrown haulage trails provide foot and tracked vehicle access to most of the property. The West Showing area is best accessed from an ATV- service vehicle trail that follows the power line west from the access road, then turns north immediately south of the Showing.

Most of the property has been logged within the last 10 years with the exception of the immediate Showing area and the highway frontage. Thick secondary growth, predominantly hardwood, covers most of the cut areas. Mature mixed forest covers the remainder of the property.

Outcrop exposure is largely confined to two ridges that parallel the highway where overburden is relatively thin and comprised of sand, boulders and local thin clay horizons. Thicker till horizons covered in extensive clay occur between the ridges. Till is covered in a poorly developed soil profile of humus and locally B horizon.

Initial observations of the bedrock included extensive alteration and mineralization (ankerite-silicification-sericite-fuchsite-sulphide) throughout the extent of the study area.

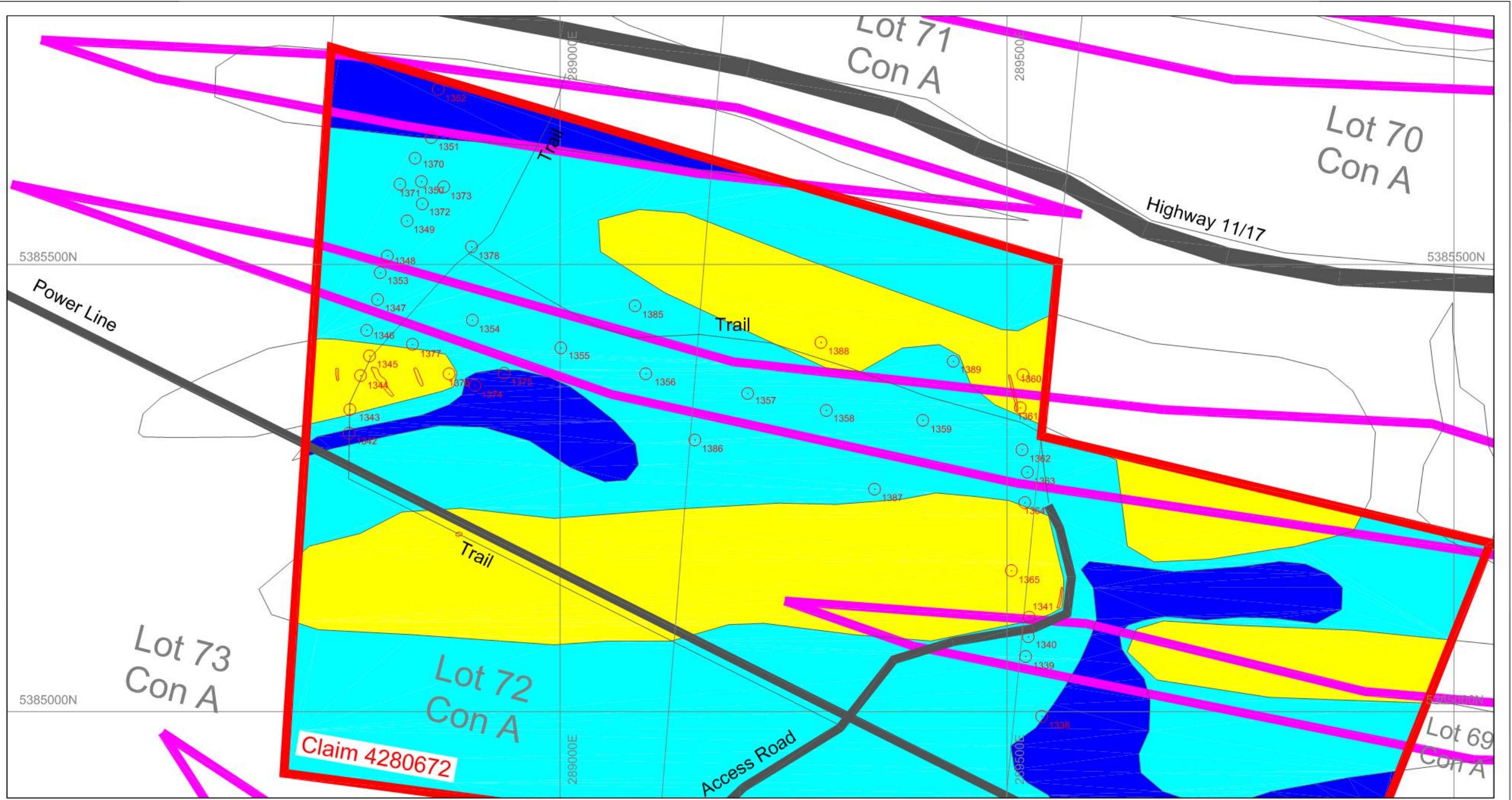
The old workings at the West Showing include numerous hand dug and locally blasted pits and trenches which, at the time of initial examination, were extensively covered in debris and soil and provided little exposure of the bedrock for observation.

Geochemical Sampling

Humus and Alder Twig sampling was undertaken over the West Showing and geophysical electromagnetic anomalies identified by Getty 1972 and others. (See Geochemical Survey Sample Location Map)

Humus was sampled from the top 10 cm of soil with care taken to avoid leaf litter, pebbles, sand, clay and roots. Humus was placed in a kraft sample bag and marked with a sample number (GPS Waypoint). Notes were taken describing the soil present at the site.

Alder Twigs (*Alnus rugosa*) were sampled in the vicinity of the humus sample and labeled with the same sample number as the humus but with an A suffix (i.e. 1376 and 1376A). Samples consisted of 10 to 15 pieces of 50 cm long alder twigs collected from multiple trees at each



- Low, Wet, Swampy, Clay cover common
- Thick Overburden, Clay cover common
- Thin Overburden, Outcrop common, Clay uncommon

- Humus and Alder Sample Location with Number
- Area of Overburden Stripping
- Electromagnetic Anomaly, Getty 1972

Project 4280672
 Geochemical Survey
 Sample Location Map



sample site. Care was taken to standardize circumference of alder twigs (0.5 - 1.0cm). Twigs were stripped of leaves at the site, cut into 3 to 4 cm lengths and placed in numbered kraft bags.

A total of 42 humus and 42 Alder Twig samples were collected at 42 sites located by GPS. After results were returned from the initial 28 sample sites, 14 additional sites were sampled to follow up on anomalous areas.

Because of the highly variable nature and thickness of the overburden as well as the limited number of samples available to interpret the data for determination of geochemical anomalies, a visual analysis of the data rather than mathematical statistical analysis was preferred. The contoured anomalies displayed on the anomaly maps are considered significantly enriched above background for the elements and medium analysed.

Both the Humus (up to 1820 ppb Au) and Alder Twig (up to 161 ppb Au) sampling were effective in areas of shallow overburden in identifying the known bedrock occurrences of gold mineralization while the humus also showed corresponding arsenic anomalies (up to 1850 ppm As). Alder Twig analysis also indicated gold anomalies in areas of thicker overburden and clay cover (up to 595 ppb Au) as well as significant zinc anomalies (up to 13000 ppm Zn) spatially associated with the main Showing area and a geophysical conductor located north of the West Showing. (See Gold in Humus, Arsenic in Humus, Gold in Alder, and Zinc in Alder Maps) Humus returned anomalous Cr and Ni over the West Showing area corroborating the chemistry of the underlying bedrock.

Mechanical Stripping and Rock Sampling

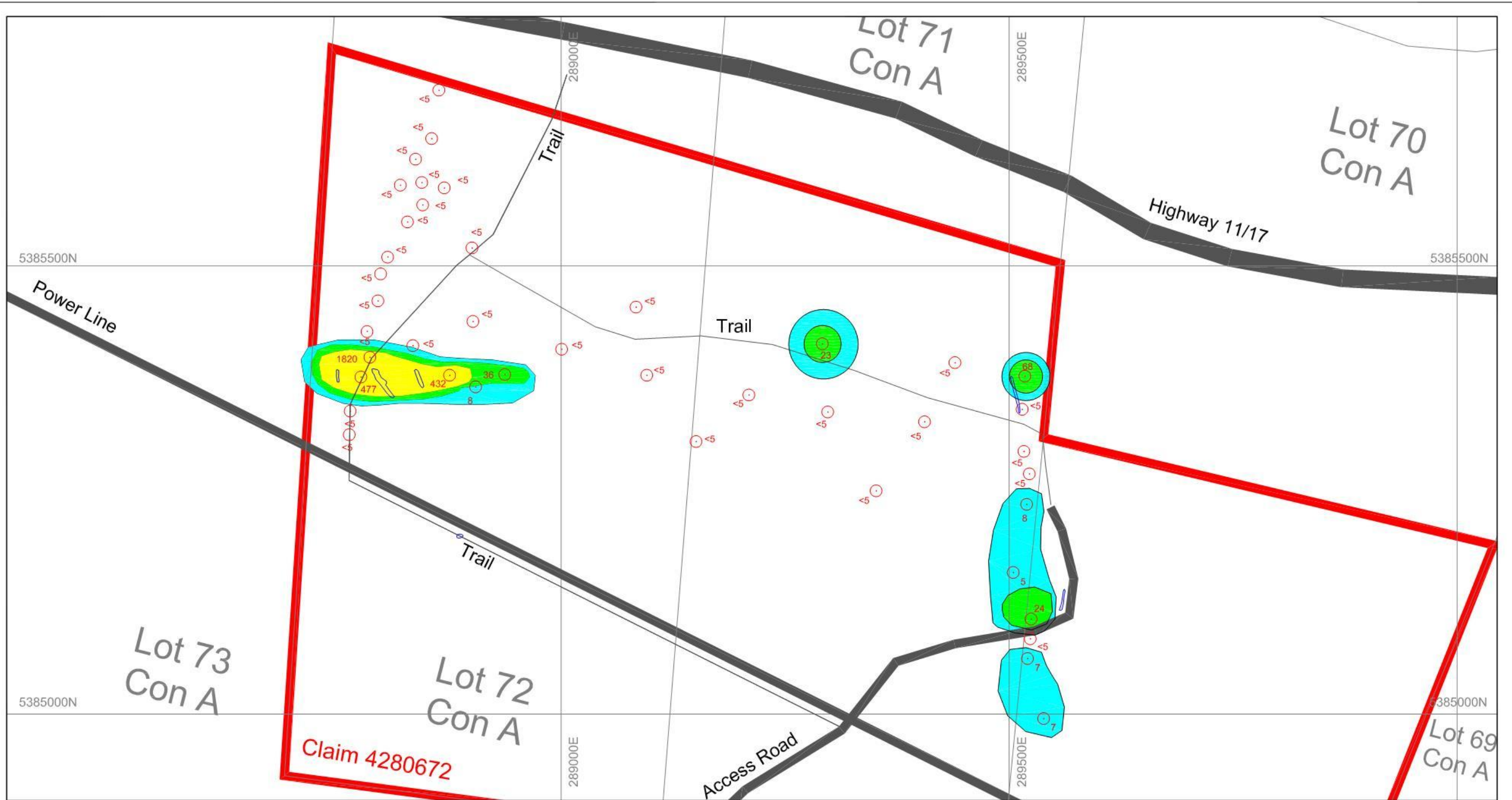
Altered volcanic, sedimentary and intrusive rocks with extensive alteration and mineralization (ankerite-silicification-sericite-fuchsite-sulphide) associated with gold and other metals were observed throughout the extent of the study area. (see Rock Sample Location Map)

57 samples of outcrop and float were collected from several areas throughout the property . Gold assays from samples returned up to 15.7 g/T Au with anomalous Arsenic >1% As in numerous samples. Almost all of the rock samples returned significant gold with the 57 samples averaging 1.031 g/T Au and only 4 samples returning less than 10 ppb Au.

Mechanical bedrock stripping was performed in 4 locations including the West Showing, a small strip on the power line and two areas adjacent to the access road in the eastern part of the project area. The stripped areas are numbered 17- 1 through 6 indicating the year and order of excavation. Overburden thickness was typically 0.5-2 metre in the stripped areas. (See West Showing Historic Workings Map)

The limited budget of the program did not permit systematic mapping or channel sampling of the exposed bedrock.

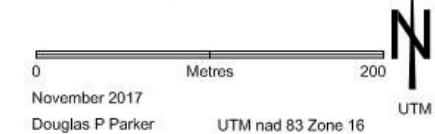
Sampling was intended to identify the distribution of gold and other metals within specific rock types and structures and associations with alteration and mineralization. As such, large composite samples, comprised of many small rock chips taken over a large area and representative of that area, were preferred. Such sampling is referred to as Representative Composite Grabs and are intended to represent a length of sample across strike over the exposed width of the bedrock (i.e. 3 metres across strike over the width of the stripped area).

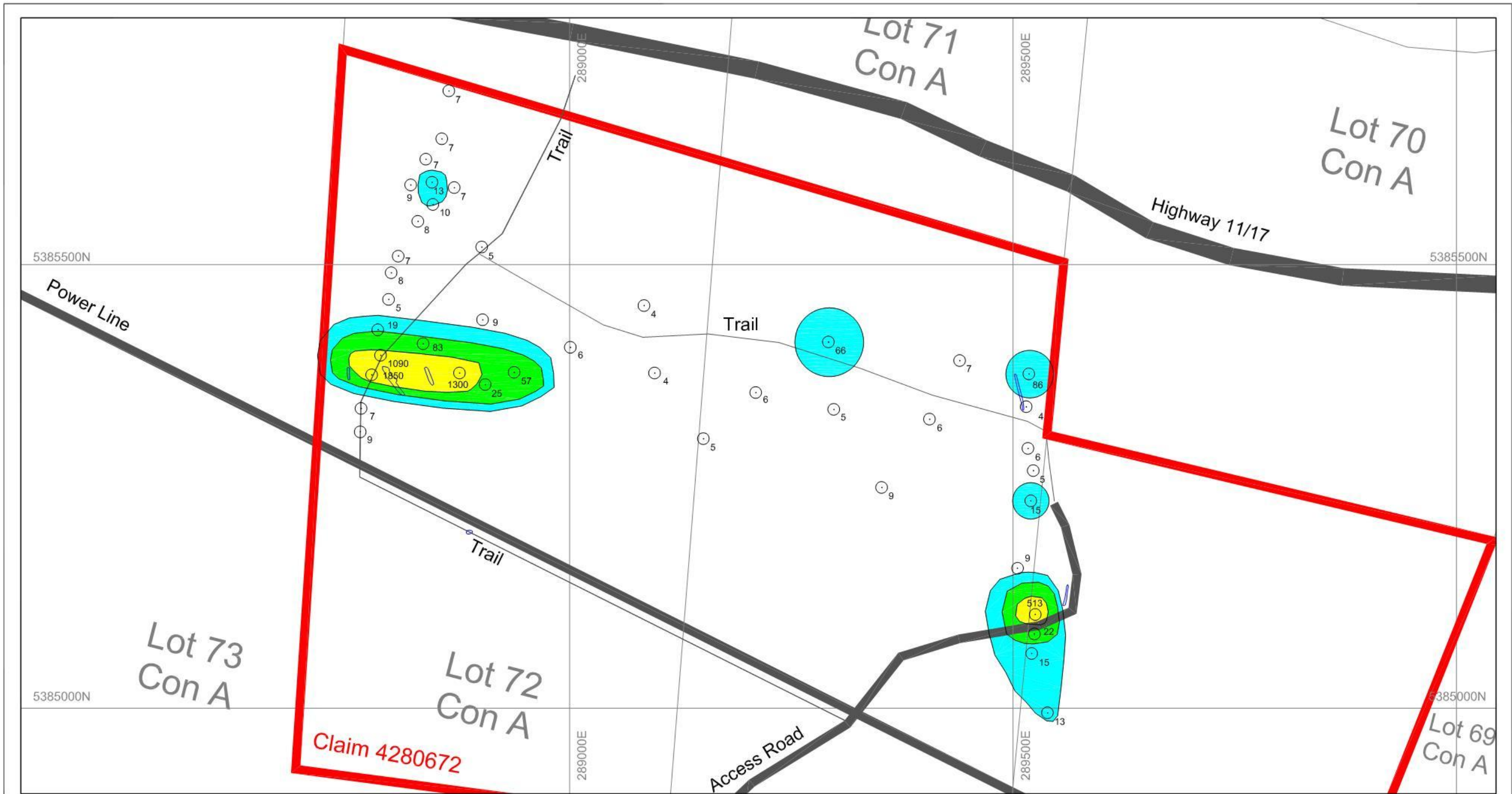


- Au in Humus >100 ppb
- Au in Humus 20-100 ppb
- Au in Humus 5-19 ppb

- 75 Humus Sample with Au ppb
- Area of Overburden Stripping
- Project/Claim Outline

Project 4280672
 Gold in Humus
 Anomaly Map





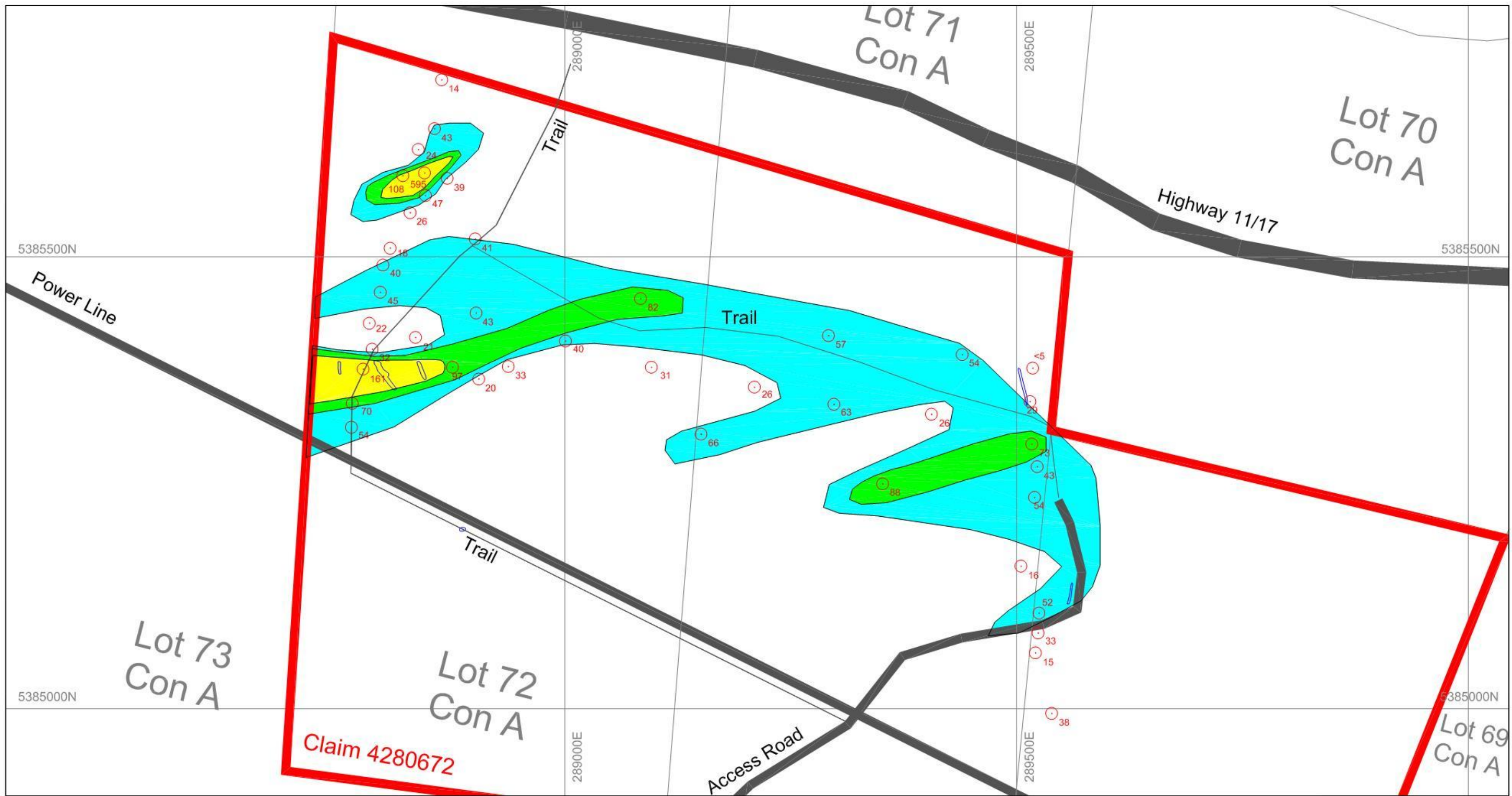
- As in Humus >500 ppm
- As in Humus 21-500 ppm
- As in Humus 10-20 ppm

- 75 Humus Sample with As ppm
- Area of Overburden Stripping
- Project/Claim Outline

**Project 4280672
Arsenic in Humus
Anomaly Map**

0 Metres 200
November 2017
Douglas P Parker UTM nad 83 Zone 16







- Au in Alder >100 ppb
- Au in Alder 71-100 ppb
- Au in Alder 40-70 ppb

- 75 Alder Sample with Au ppb
- Area of Overburden Stripping
- Project/Claim Outline

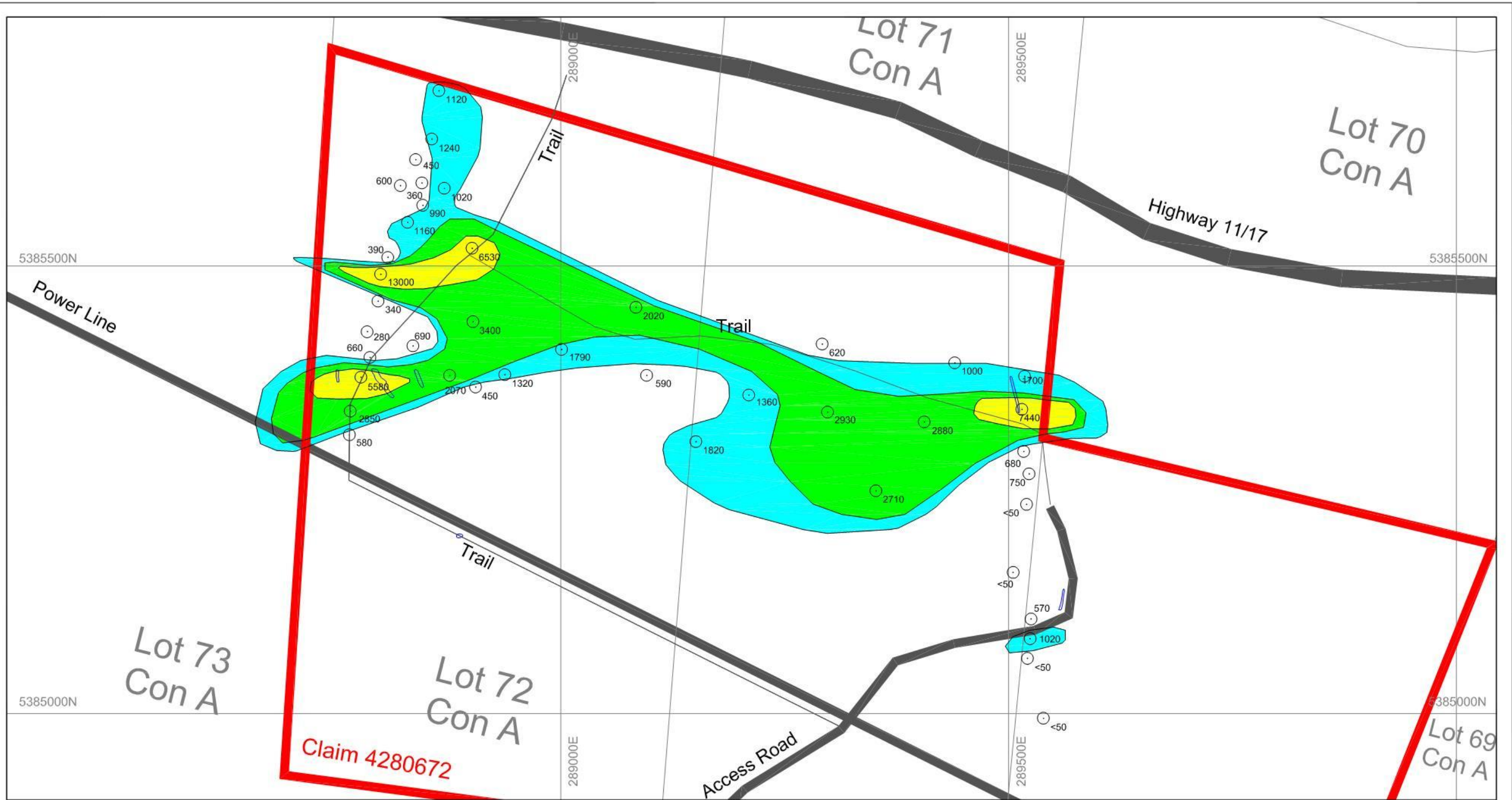
Project 4280672
Gold in Alder
Anomaly Map





0 100 200
Metres

November 2017
 Douglas P Parker UTM nad 83 Zone 16

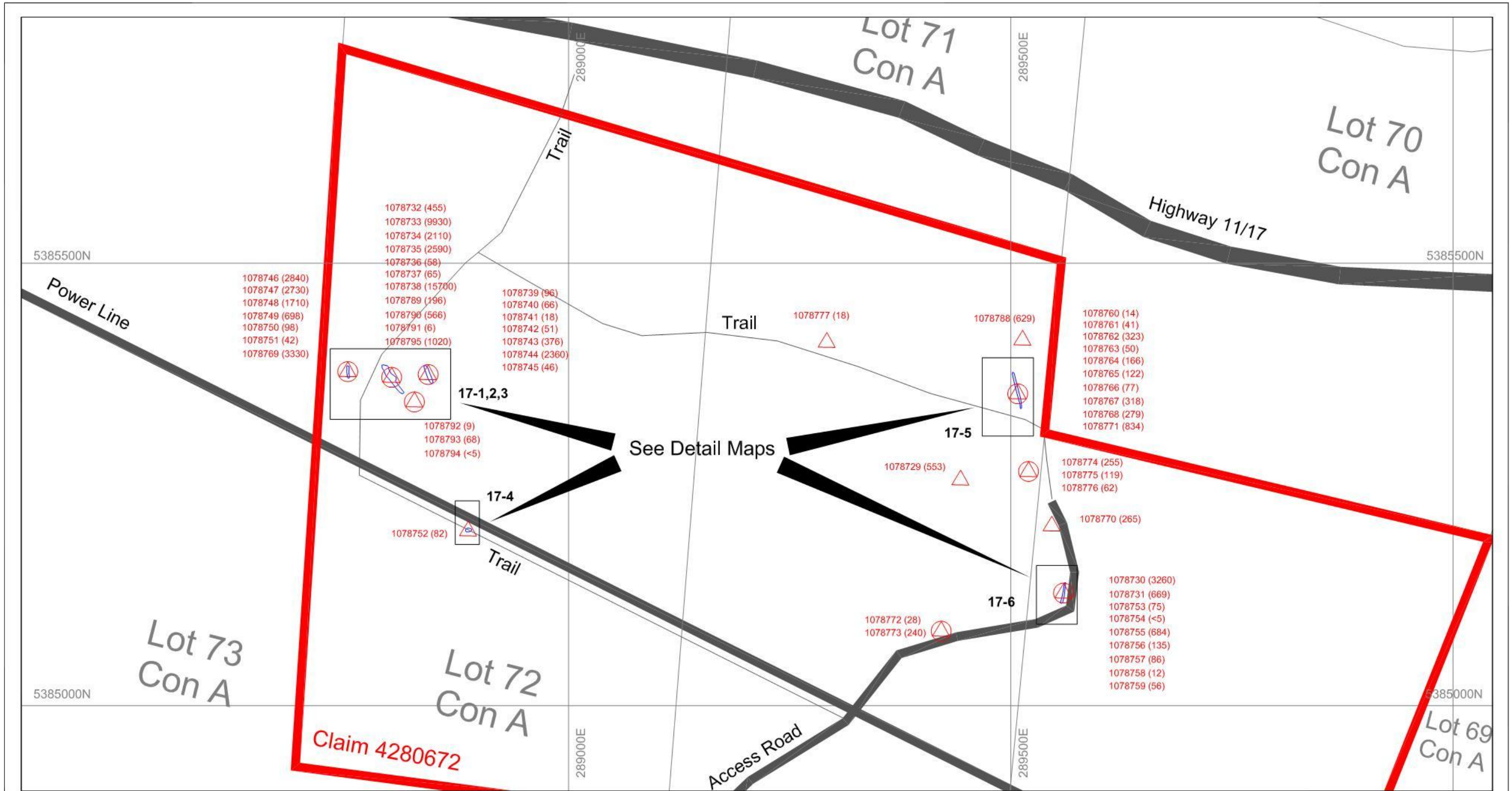





- Zn in Alder >5000 ppm
- Zn in Alder 2001-5000 ppm
- Zn in Alder 1000-2000 ppm




- 75 Alder Sample with Zn ppm
- Area of Overburden Stripping
- Project/Claim Outline

Project 4280672
Zinc in Alder
Anomaly Map

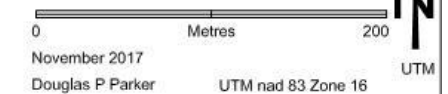
0 200 Metres
November 2017
Douglas P Parker UTM nad 83 Zone 16 UTM

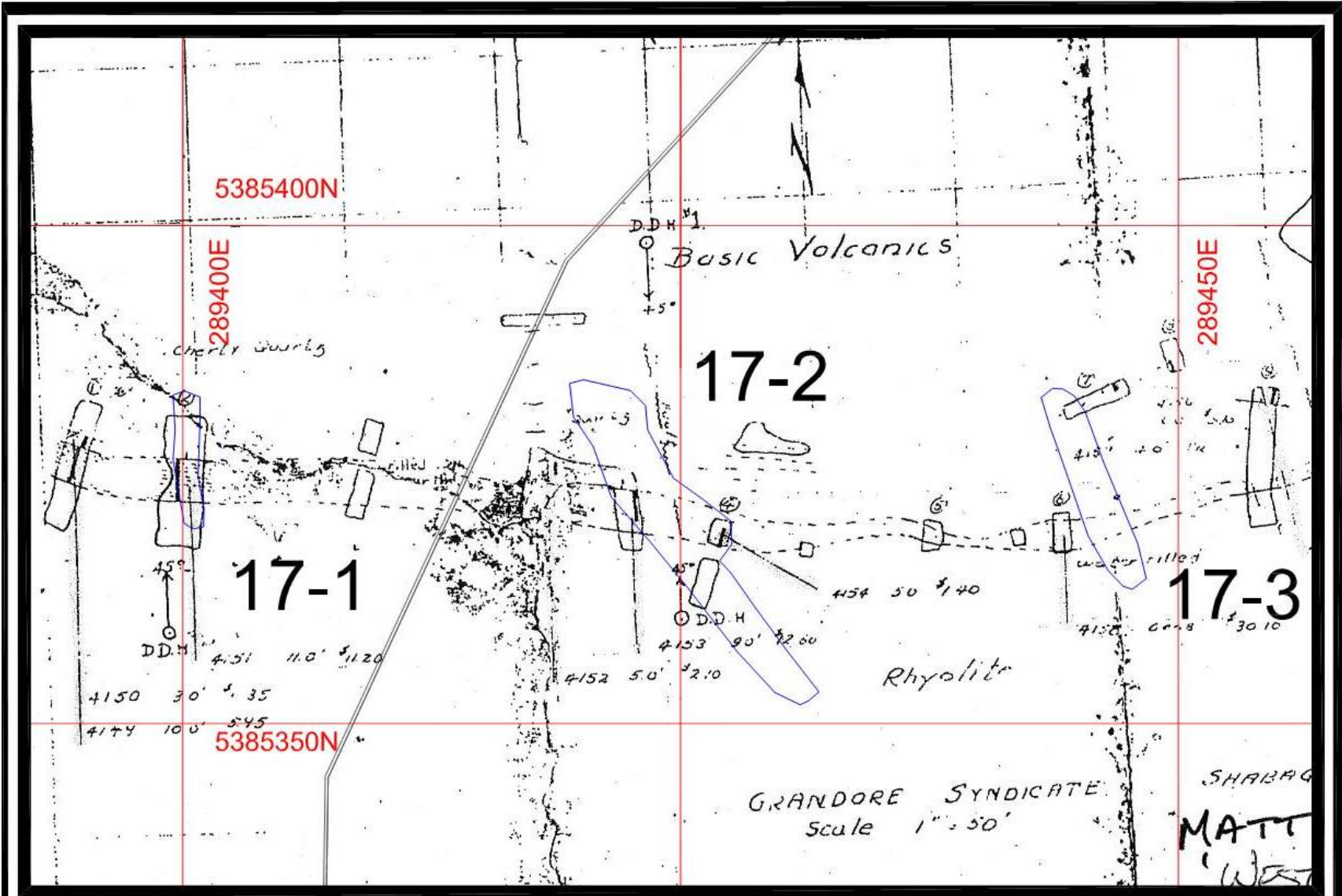


-  Rock Sample Location
-  Multiple Rock Samples from Location
-  Sample Number (Au ppb)


-  Detailed Area
-  Area of Overburden Stripping
-  Project/Claim Outline

Project 4280672
Rock Sample
Location Map





 Area of Historic Working (1947?)

 Area of Overburden Stripping 2017

Project 4280672
 West Showing
 Historic Workings

0 Metres 20 N
 November 2017 UTM
 Douglas P Parker UTM nad 83 Zone 16

SHABAG
 MATT
 West

Selective grabs were taken on occasion to test specific geological features such as quartz veins or sulphide concentration and are not considered to have a spatial representation.

West Showing (17-1, 2, 3)

Three areas were stripped over the West Showing over a strike length of about 100 metres. These included the 17-1 strip (15mx3m), the 17-2 strip (40mx5m) and the 17-3 strip (20mx3m). (See Detail Map 17-1,2,3)

Geology consists of east-west striking volcanic and sedimentary units dipping subvertically and crosscut by numerous shear zones and vein systems at various angles. Graphite, chert and sulphide horizons are common and often of limited extent. A chert-sulphide breccia strikes across the central area of all 3 exposures. Disseminated pyrite and arsenopyrite are common throughout the exposed extent. Ankerite and silicification strongly affect all rocks and sericite and fuchsite are commonly present. Quartz stringers and veins are common. Spinifex textures and anomalous Cr (up to 1380 ppm) and Ni (up to 936 ppm) indicate the protolith of the altered volcanics may in part be ultramafic.

25 samples were analyzed. Significant gold and arsenic assays were returned from all of the stripped areas including 2.8 g/T Au from the western strip (17-1), 15.7 g/T Au from the middle strip (17-2) and 2.4 g/T Au from the eastern strip (17-3).

Power Line Strip (17-4)

The 17-4 strip is approximately 6m x 3m.

Geology consists of medium grained intrusive rock (Gabbro-Diorite) crosscut by a northeast striking vertical shear-fracture zone. Weak to moderate ankerite alteration and quartz stringers are present. (See Detail Map 17-4)

1 sample was analyzed and returned 82 ppb Au.

Northeast Strip (17-5)

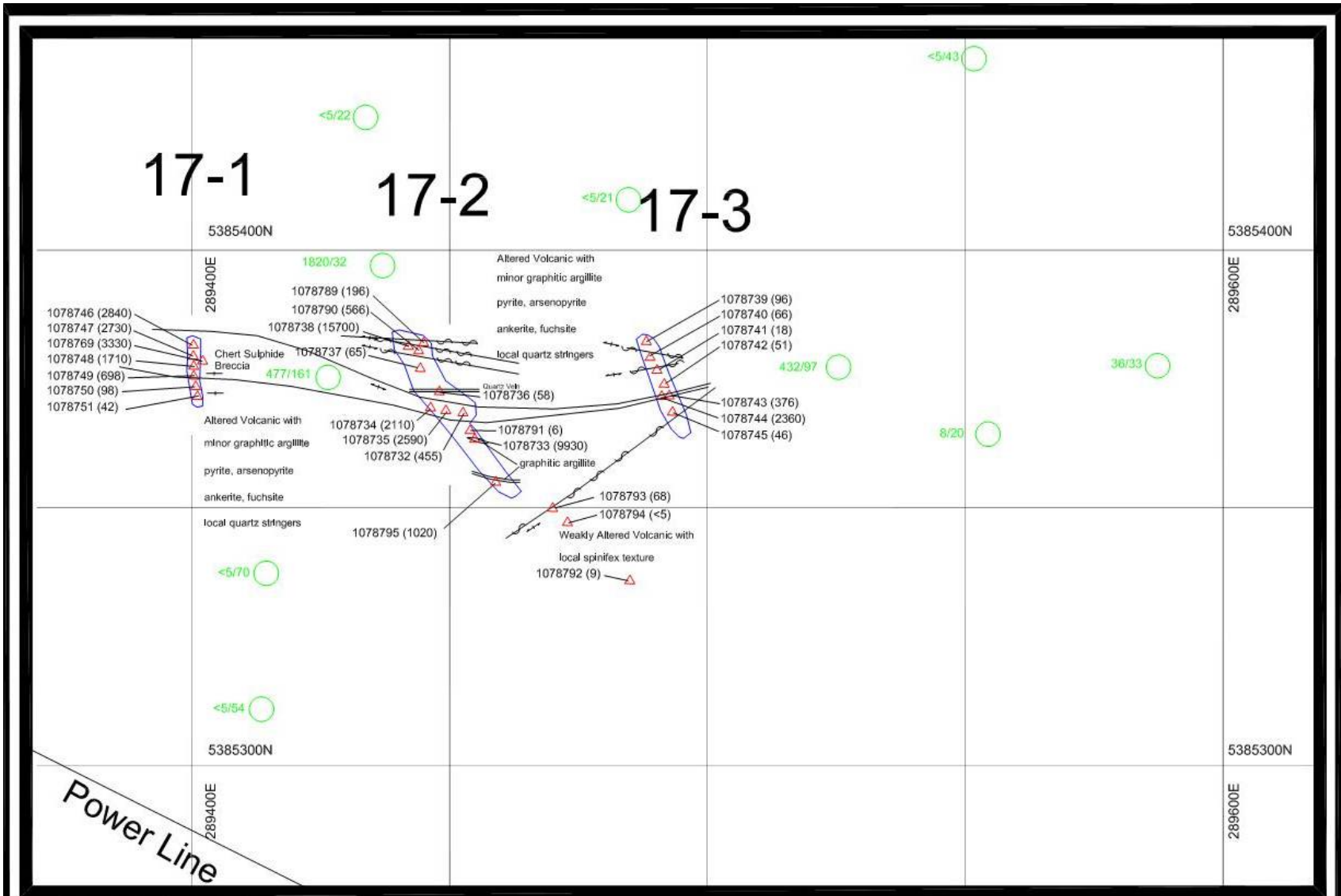
The 17-5 strip is approximately 45m x 3m.



Geology consists of highly altered volcanic and sedimentary units dipping subvertically and crosscut by numerous shear and fracture zones and vein systems predominantly northeast vertical. A rusty shear zone at the south end of the strip is possibly a deeply weathered sulphidic sedimentary horizon. Disseminated pyrite and arsenopyrite are common throughout the exposed extent. Ankerite and silicification strongly affect all rocks and sericite and fuchsite are commonly present. (See Detail Map 17-5)

10 samples were analyzed. Significant gold (up to 834 ppb Au) and arsenic assays (up to 4360ppm As) were returned.

Southeast Strip (17-6)

The 17-6 strip is approximately 20m x 3m.



-  Rock Sample Number (Au ppb)
-  Au in Humus ppb/ Au in Alder ppb

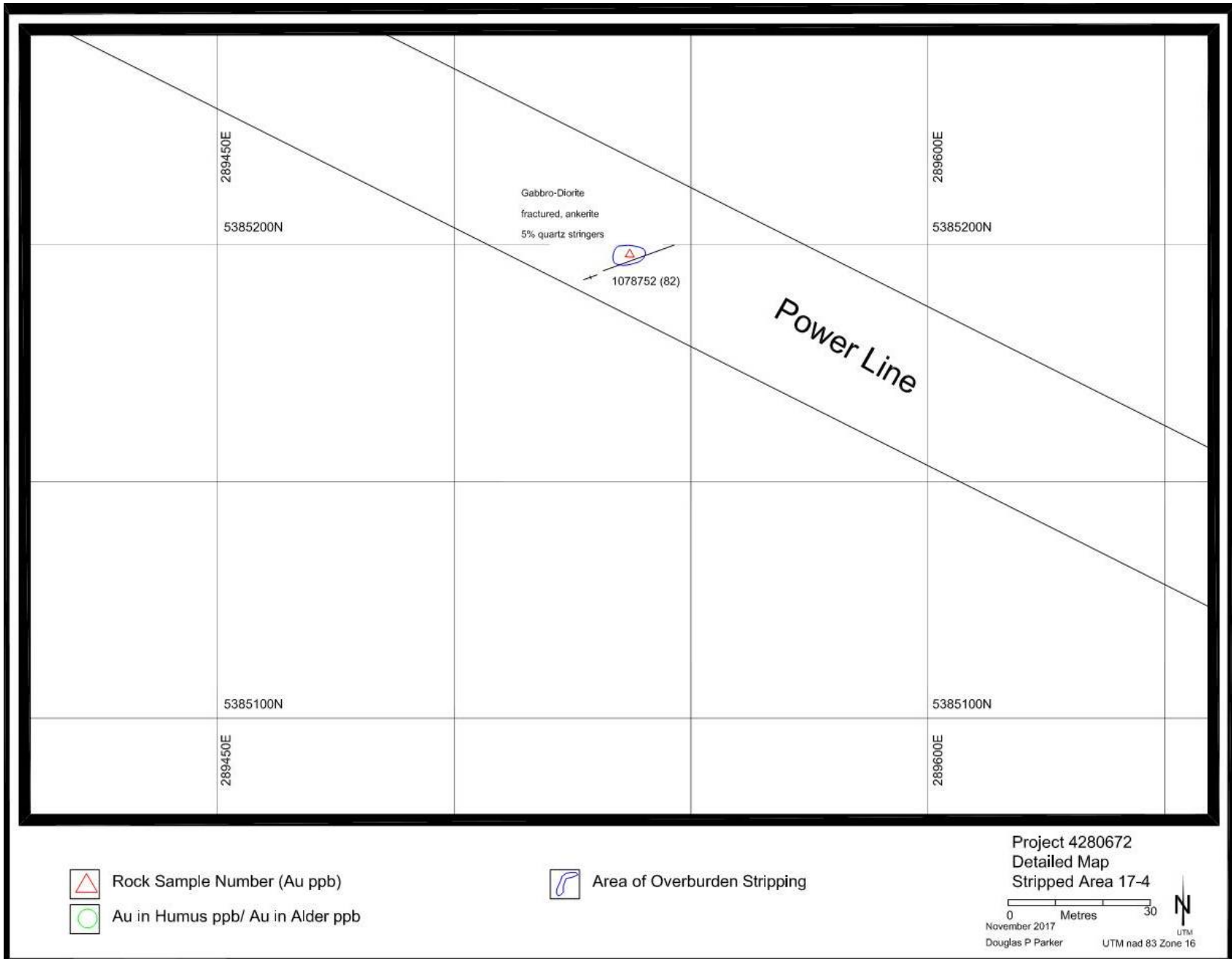
 Area of Overburden Stripping

Project 4280672
 Detailed Map
 Stripped Areas 17-1, 2, 3

0 30 Metres

November 2017
 Douglas P Parker

UTM
 UTM nad 83 Zone 16



Rock Sample Number (Au ppb)



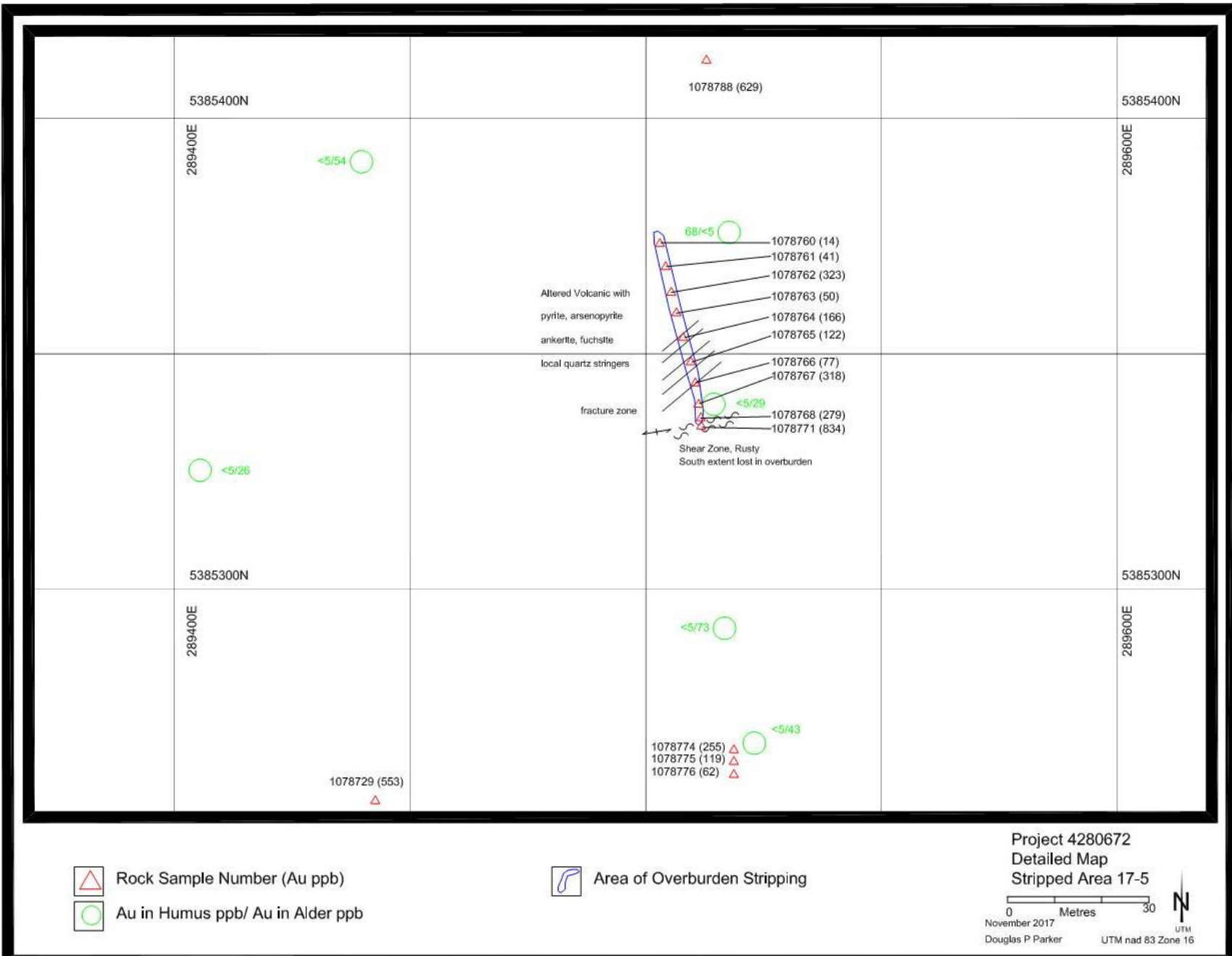
Au in Humus ppb/ Au in Alder ppb

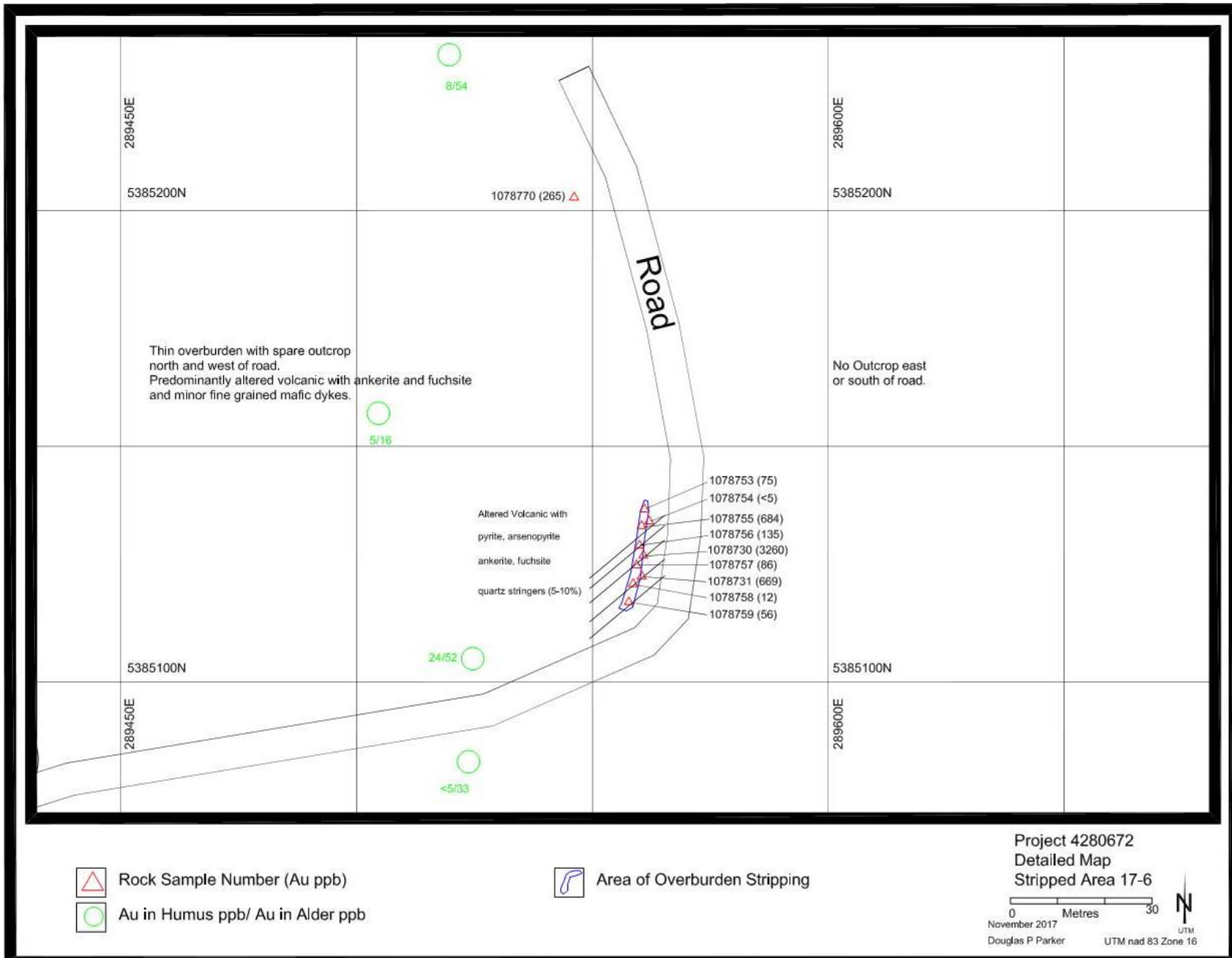


Area of Overburden Stripping

Project 4280672
Detailed Map
Stripped Area 17-4
0 30
Metres
November 2017
Douglas P Parker
UTM nad 83 Zone 16







Geology consists of highly altered northeast striking volcanic and sedimentary units dipping subvertically and crosscut by numerous quartz stringers also striking northeast and dipping at various angles. Disseminated pyrite and arsenopyrite are common throughout the exposed extent. Ankerite and silicification strongly affect all rocks and sericite and fuchsite are commonly present. (See Detail Map 17-6)

9 samples were analyzed. Significant gold (up to 3.3 g/T Au) and arsenic assays (up to 3000 ppm As) were returned with Chromium (up to 1880 ppm Cr) and Nickel (up to 1070 ppm Ni).

Conclusions and Recommendations

This very limited and preliminary exploration program indicates that gold mineralization is widespread in the project area and that good potential exists for significant base metal mineralization particularly associated with exhalative horizons and Cr-Ni bearing volcanics.

Humus appears to effectively indicate gold and arsenic bedrock sources and to a lesser extent chromium and nickel bedrock sources in areas of shallow overburden where clay horizons are not extensive.

Alder Twigs appear to effectively indicate gold bedrock sources in areas of shallow overburden. Anomalous concentrations of gold were also returned in areas of thicker overburden cover and also where clay was present. It is not known if these gold anomalies are indicative of bedrock sources. Zinc anomalies in Alder Twigs correspond well with the West Zone and the main geophysical target investigated. It is not known if these zinc anomalies are indicative of bedrock sources.

Altered volcanic, sedimentary and intrusive rocks with extensive alteration and mineralization (ankerite-silicification-sericite-fuchsite-sulphide) associated with significant gold and other metals were observed throughout the extent of the study area.

Geological mapping and sampling should be undertaken over the property. Additional areas should be prioritized for stripping. All stripped areas should be washed, mapped and sampled.

Additional Humus and Alder sampling should be undertaken to cover the remainder of the property.

Geophysics including Maxmin and IP would provide improved targeting for diamond drilling.

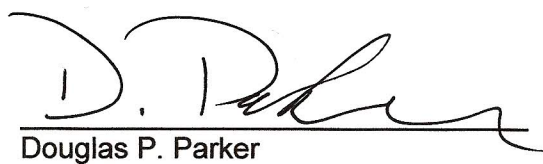
Statement of Qualifications

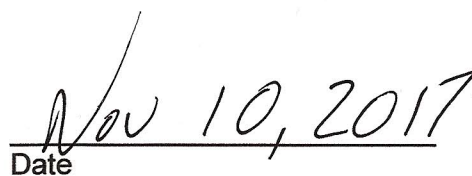
I, Douglas P. Parker do hereby certify:

I am a resident of 365 Lark Street, Thunder Bay, Ontario, P7B 1P4.

I am a graduate of Lakehead University, Thunder Bay, Ontario with an Honours B.Sc. Degree in Geology (1985) and a Certificate in Environmental Assessment (1995). I am a graduate of Confederation College with a Diploma in Environmental Engineering Technology (1995).

I have been an active prospector and employed as a geologist and technical advisor with government and industry since 1985.


Douglas P. Parker


Date

APPENDIX I

Selected References

Smyk et al. 2017, Recommendations for Exploration 2016–2017, Ontario Geological Survey, Resident Geologist Program. 84p.

Bajc, A.F. 1999. Results of regional humus and till sampling in the eastern part of the Shebandowan greenstone belt, northwestern Ontario; Ontario Geological Survey, Open File Report 5993, 85p.

Parker, J.R., DISCOVER PROSPECTING: AN INTRODUCTORY PROSPECTING MANUAL, Ontario Prospectors Association, Revised in 2004 by: D.P. Parker and B.V. D’Silva, 203p.

Lavigne, M.J. and Scott, J.F. 1994. Thunder Bay Resident Geologist’s District; *in* Report of Activities 1993, Resident Geologists, Ontario Geological Survey, Open File Report 5892, p.129-148.

Additional references to follow.

NTS	#	AFRI	Name (filed under)	Alternate Name	Property Name	NTS (alt)	Twp or Area	Done	WORK_1	WORK_2	WORK_3	WORK_4	WORK_5	WORK_6	WORK_7	Reference #	Work Rpt Number	Update	GeoOntario
52A12SE	016		Lun Echo Gold		Finmark Prop.	52A12SW*	Dawson Road Lots	56	GL	DD	ASD	GM						na	
52A12SE	028	52A12SE2004	Kukkee, K.				Dawson Road Lots	97	ASD	PRO						2.19140	W9940-00010		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SE2004
52A12SW	004	52A12SW0009	Bandolac Mining Company				Dawson Rd. Lots	80	GL	REP	LC					2.4098			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0009
52A12SW	007		Cliffs of Canada Ltd.				Dawson Road Lots	66	SP									na	
52A12SW	011	52A12SW0012	Getty Mines Ltd.		Dawson Rd. Lots Prop.		Dawson Rd. Lots	72	GL	DD	ASD					2.945		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0012
52A12SW	011	52A12SW0014	Getty Mines Ltd.		Dawson Rd. Lots Prop.		Dawson Rd. Lots	72	GEM							2.946		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0014
52A12SW	012a,b		Godzik, A.				Dawson Rd. Lots	84-9	ST									na	
52A12SW	016		Lun Echo Gold Mines Ltd		Finmark Property	52A12SE	Dawson Rd. Lots	56	DD	GM	REP							na	
52A12SW	017		Lynx-Canada Explorations Ltd.		Morehouse-Johnson			79 80	DD	ASD	PNC	REP							
52A12SW	018	52A12SW0011	Lynx-Canada Explorations Ltd.				Dawson Rd. Lots	79 81	REP	PNC	DD							im	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0011
52A12SW	019		Mattawin Gold Mines Ltd.				Dawson Rd. Lots/Horne Tp.	52	PNC	GL	REP	ASD						na	
52A12SW	037a-c	52A12SW0058	Jalna Resources Ltd.	Morehouse, W. D.	63.4517		Dawson Rd. Lots	85	AM	GM				RES		2.8265			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0058
52A12SW	050	42L12SW8020	Kukkee, E.	OP89-62			Dawson Rd. Lots	91	PRO	ASD						63.6210			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=42L12SW8020
52A12SW	055	52A12SW0019	Freewest Resources Canada Inc.	Bumbu, C./Petrunka, D.			Dawson Rd. Lots	96	GM							2.16704			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0019
52A12SW	061	52A12SW0041	Battle Mtn. Canada				Dawson & Goldie Tp.	95-6	GM	IP						2.17380	W9740-00187	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0041
52A12SW	062	52A12SW0042	Battle Mtn. Canada				Dawson & Goldie Tp.	95-7	ASD							2.17391	W9740-00193	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0042
52A12SW	063	52A12SE0005	Battle Mtn. Canada	Phantom Expl. Services		52A12SE	Conmee Tp./Horne Tp.	97	GEM	GM						2.17426	W9740-00166	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SE0005
52A12SW	080	52A12SW0015	Noranda Expl. Co. Ltd.	Morehouse, W.			Dawson Rd. Lots	70	GEM	GM	LC					2.321		VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0015
52A12SW	082	52A12SW0001	Jalna Resources Ltd.	MGS Capital			Dawson Rd. Lots	88	AEM	AM						2.11953			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0001
52A12SW	083	52A12SW0004	Jalna Resources Ltd.	GML Minerals Ltd.			Dawson Road Lots	87	GM	GEM	IP	RES				2.10474			http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW0004
52A12SW	091	52A12SW2007	Bumbu, C.		Bylund Property		Dawson Rd. Lots	98	GM	GEM						2.18457	W9840-00439		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2007

52A12SW	092	52A12SW2008	Battle Mtn. Canada Ltd.		Goldie & Shepherd Prop.	Dawson Rd. Lots	97	DD									2.18509	W9840-00430	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2008
52A12SW	093	52A12SW2005	Kukkee, T.			Dawson Rd. Lots/Horne Tp.	96-7	ASD									2.18467	W9840-00441	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2005
52A12SW	094	52A12SW2009	Kukkee, T.	Gold Cache Project	Shabaqua "Caldera" Prop.	Dawson Rd. Lots/Horne Tp.	96-7	PRO									2.18392	W9840-00397	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2009
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52A12SW	098	52A12SW2011	Kukkee, T.		Shabaqua "Caldera" Prop.	Dawson Rd. Lots/Horne Tp.	98	PRO									2.18624	W9840-00516	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2011
52A12SW	099	52A12SW2014	Kukkee, K.			Dawson Road Lots	97	ASD	PRO								2.19139	W9940-00008	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2014
52A12SW	100	52A12SW2016	Battle Mtn. Canada Ltd.		Goldie Property	Dawson Road Lots	97 98	ASD	GL	PRO	TR						2.19067	W9840-00666	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2016
52A12SW	102	52A12SW2017	Kukkee, K.			Dawson Road Lots	97	ASD									2.19137	W9940-00009	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2017
52A12SW	103	52A12SW2018	Martin, J.	OP98-133		Dawson Rd. Lots	98 99	ST	ASD	GL	PRO	TR					2.19287	W9940-00074		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2018
52A12SW	104	52A12SW2019	Kukkee, Thomas		Shabaqua "Caldera" Prop.	Dawson Rd. Lots/Horne Tp.	98 99	GM	GEM								2.19696	W9940-00245	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2019
52A12SW	106	Regional Office	Clark, Garry		Finmark Property	Dawson Road Lots	1998	GM	GEM	PRO	ASD						OP98-311		na	\\rcpthbafp00002\ndm_gis\MEI\DigitalAssessment\OP98-311
52A12SW	108		Stares, Steve		Goldie Property	Shabaqua	1999	DD	ASD								OP99-452		na	
52A12SW	109		Stares, Michael		Goldie Property	Shabaqua	1999	DD	ASD								OP99-451		na	
52A12SW	117	52A12SW2026	Kukkee, Patricia Eileen		Gold Cache Property	Dawson Road Lots	2002	ST	ASD								2.24452	W0240-01681	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2026
52A12SW	118	52A12SW2027	Kukkee, Patricia Eileen			Laurie Tp.	2002	ST	ASD								2.24560	W0240-01783	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2027
52A12SW	119	52A12SW2028	GLR Resources Inc.	RJK Expl. Ltd.; Stares, M.R.	Goldie Project	Goldie Township	2002	DD	ASD								2.25285	W0340-00511		http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2028
52A12SW	120	52A12SW2029	Kukkee, Patricia Eileen		Gold Cache Property	Dawson Road Lots	2003	ST	ASD								2.25643	W0340-00844	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2029
52A12SW	121	52A12SW2030	Kukkee, Patricia Eileen		Gold Cache Property	Dawson Road Lots	2003	ST	ASD								2.25913	W0340-01099	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2030
52A12SW	122	52A12SW2033	Kukkee, Patricia Eileen			Laurie Tp.	2003	ASD	ST								2.26711	W0340.01851	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2033
52A12SW	124	52A12SW2034	Kukkee, Patricia Eileen		Gold Cache Property	Dawson Road Lots	2004	ASD	ST								2.27687	W0440.00753	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2034
52A12SW	125	52A12SW2035	Kukkee, Patricia Eileen		Gold Cache Property	Horne Tp.	2004	ASD	ST	TR							2.28004	W0440.01041	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2035

52A12SW	126	52A12SW2036	Kukkee, Kenneth Robert		Dawson Road Property		Dawson Road Lots	2004	ASD	PRO	ST	REP			2.28622	W0440.01635/W0440.01633	VA	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=52A12SW2036
52A12SW	131	20000000520	Kukkee, Patricia E.		Gold Cache Property		Horne Tp.	2005	ASD	ST	REP				2.30197	W0540.01162	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000000520
52A12SW	132	20000000474	Kukkee, Patricia E.		Gold Cache Property		Dawson Road Lots	2005	ASD	ST	REP				2.29996	W0540.00967	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000000474
52A12SW	133	20000000458	Kukkee, Patricia E.		Gold Cache Property		Horne Tp.	2005	ASD	ST	REP				2.29882	W0540.00859	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000000458
52A12SW	135	20000001066	Kukkee, Patricia Eileen		Gold Cache Property		Dawson Road Lots Area	2006	ASD	ST					2.31542	W0640.00359	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000001066
52A12SW	136	20000001186	RJK Explorations Ltd. Hinterland Metals Inc.		Shabaqua Gold Project	52B09SE	Laurie Tp	2005	AEM	AM					2.31635	W0640.00445	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000001186
52A12SW	137	20000000123	Kukkee, Patricia Eileen		Gold Cache Property		Dawson Road Lots	2006	ASD	TR	ST	REP			2.32597	W0640.01284	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000000123
52A12SW	138	20000001557	Kukkee, Patricia Eileen		Gold Cache Property		Dawson Road Lots	2006	ASD	ST	TR				2.32900	W0640.01533	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000001557
52A12SW	144	20000002355	Kukkee, Patricia E.		Gold Cache Property		Dawson Road Lots Area	2007	ASD	ST					2.35777	W0740.01597	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000002355
52A12SW	147	20000002955	RJK Explorations Ltd. *CD*		Goldie Property		Dawson Road Lots Area	2007	ASD	DD					2.36550	W0740.02183	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000002955
52A12SW	148	Regional Office	Kukkee, Patricia E.		Gold Cache Property		Dawson Road Lots Area	2007	ASD	MM					2.37263	W0840.00397	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000002955 http://rcpthbafp00002\ndm_gis\MEI\DigitalAssessment\2_37263
52A12SW	160	20000004385	Kukkee, Kenneth R.		Dawson Road Property		Dawson Road Lots Area	2009	ASD	DD					2.42429	W0940.02076	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000004385
52A12SW	161	20000005876	Kukkee, Patricia E.		Gold Cache Property		Horne Twp.	2009	ASD	ST					2.44137	W1040.00445	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000005876
52A12SW	162	20000006258	Gold Cache Inc.		Gold Cache Property		Horne Twp.	2010	ASD	MM	ST				2.45394	W1040.01560	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000006258
52A12SW	173	20000006453	Gold Cache Inc.		Gold Cache Property		Horne Twp.	2011	ASD	Samp	ST				2.48486	W1140.01176	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000006453
52A12SW	174	20000006863	Denarii Resources Inc. *CD*		Bateman Lake Property	52A12SE	Horne Twp.	2011	ASD						2.49588	W1140.02132	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000006863
52A12SW	175	20000006634	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2011	ASD	ST					2.48891	W1140.01531	im	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000006634
52A12SW	176	20000007104	Gold Cache Inc. *CD*		Gold Cache Property		Dawson Road Lots	2011	ASD	ST					2.51022	W1240.00582	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000007104
52A12SW	178	20000007581	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2012	ASD	Samp					2.52307	W1240.01766	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000007581
52A12SW	180	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2012	ASD	Str					2.53646	W1340.00412	MB	http://www.geologyontario.mndm.gov.on.ca/mndmaccess/mndm_dir.asp?type=afri&id=20000007581 http://rcpthbafp00002\ndm_gis\MEI\DigitalAssessment\2_53646

52A12SW	182	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2014	ASD	Str						2.55228	W1440.01679	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_55228
52A12SW	183	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2014	ASD	Str						2.55338	W1440.01918	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_55338
52A12SW	184	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2014	ASD	Str						2.55339	W1440.01921	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_55339
52A12SW	185	Regional Office	Yahn, W.M. *CD*		Laurie Township Property		Laurie Twp.	2014	ASD	Samp						2.55536	W1440.02426	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_55536
52A12SW	186	Regional Office	Yahn, W.M. *CD*		Laurie Township Property		Laurie Twp.	2014	ASD	Samp	Pr					2.55614	W1540.00040	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_55614
52A12SW	187	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2014	ASD	Str						2.55894	W1540.00869	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_55894
52A12SW	189	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2015	ASD	Samp						2.56129	W1540.01545	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_56129
52A12SW	190	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2015	Tr	Str						2.56359	W1540.02110	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_56359
52A12SW	191	Regional Office	Yahn, W. *CD*		Laurie Township Property		Laurie Twp.	2015	Pr							2.56490	W1540.02489	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_56490
52A12SW	194	Regional Office	Gold Cache Inc. *CD*		Gold Cache Property		Horne Twp.	2015	ASD	GL	Tr					2.56845	W1640.00972	MB	\\Lrcpthbafp00002\ndm_gis\ME\DigitalAssessment\2_56845

APPENDIX II

Mechanical Stripping Invoice and Timesheet

APPENDIX III

Assay Certificates



Date Submitted: 29-May-17
Invoice No.: A17-05291
Invoice Date: 15-Jun-17
Your Reference:

Doug Parker
365 Lark St
Thunder Bay on
Canada

ATTN: Doug Parker

CERTIFICATE OF ANALYSIS

40 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A17-05291**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A17-05291

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1078729	553	< 0.2	< 0.5	69	1110	< 1	49	7	71	0.77	156	< 10	68	< 0.5	< 2	4.87	24	56	5.56	< 10	< 1	0.21	< 10
1078730	3260	0.6	< 0.5	28	799	1	21	4	15	0.26	3000	< 10	35	< 0.5	< 2	2.33	9	24	3.88	< 10	< 1	0.10	< 10
1078731	669	0.2	< 0.5	22	1060	< 1	16	< 2	10	0.23	1360	< 10	45	< 0.5	< 2	1.38	6	20	3.04	< 10	< 1	0.09	< 10
1078732	455	2.4	< 0.5	1	327	2	13	3580	4	0.05	72	< 10	< 10	< 0.5	3	1.16	1	29	1.09	< 10	< 1	< 0.01	< 10
1078733	> 5000	2.7	< 0.5	120	2670	< 1	80	9	97	0.05	4780	< 10	11	< 0.5	2	0.46	6	2	> 30.0	< 10	< 1	< 0.01	< 10
1078734	2110	0.6	< 0.5	77	2440	< 1	405	11	59	0.24	7600	< 10	16	< 0.5	< 2	1.16	82	54	17.6	< 10	< 1	0.06	< 10
1078735	2590	0.6	< 0.5	113	2310	1	378	8	114	0.26	5230	< 10	12	< 0.5	< 2	1.01	78	59	15.9	< 10	< 1	0.04	< 10
1078736	58	< 0.2	< 0.5	3	250	3	25	74	5	0.13	72	< 10	12	< 0.5	< 2	0.03	5	81	1.04	< 10	< 1	< 0.01	< 10
1078737	65	< 0.2	< 0.5	13	757	< 1	611	30	26	1.45	464	< 10	14	< 0.5	3	2.11	62	1070	6.26	< 10	1	< 0.01	< 10
1078738	> 5000	3.6	< 0.5	4	635	2	157	28	19	0.51	363	< 10	16	< 0.5	< 2	2.10	20	307	2.55	< 10	< 1	0.02	< 10
1078739	96	< 0.2	0.5	19	528	< 1	20	4	54	0.68	274	< 10	60	< 0.5	< 2	0.73	9	15	1.90	< 10	< 1	0.20	10
1078740	66	< 0.2	0.7	20	1130	< 1	575	< 2	26	1.26	738	< 10	21	< 0.5	< 2	1.55	58	914	5.98	< 10	2	0.02	< 10
1078741	18	< 0.2	< 0.5	19	1510	< 1	936	< 2	30	1.99	385	< 10	57	< 0.5	< 2	2.12	93	1310	10.3	< 10	< 1	< 0.01	< 10
1078742	51	< 0.2	< 0.5	35	1660	< 1	690	< 2	31	2.50	160	< 10	72	< 0.5	< 2	0.73	82	1380	10.5	< 10	2	< 0.01	< 10
1078743	376	0.2	< 0.5	36	1480	8	478	28	66	0.85	2830	< 10	18	< 0.5	< 2	0.79	40	283	10.5	< 10	< 1	0.03	< 10
1078744	2360	0.5	< 0.5	59	2000	7	675	13	56	0.10	> 10000	< 10	< 10	< 0.5	2	0.12	36	16	> 30.0	< 10	< 1	< 0.01	< 10
1078745	46	< 0.2	< 0.5	96	1490	< 1	134	< 2	60	1.99	347	< 10	52	< 0.5	< 2	3.07	46	156	6.65	< 10	< 1	0.28	< 10
1078746	2840	0.7	< 0.5	30	888	< 1	47	6	47	0.81	3210	< 10	60	< 0.5	< 2	0.72	8	21	8.30	< 10	< 1	0.29	< 10
1078747	2730	0.7	< 0.5	15	1130	< 1	75	15	71	0.06	> 10000	< 10	< 10	< 0.5	2	0.02	16	9	20.1	< 10	< 1	0.02	< 10
1078748	1710	0.3	< 0.5	9	608	2	43	13	32	0.06	> 10000	< 10	< 10	< 0.5	< 2	0.04	5	26	7.99	< 10	< 1	0.01	< 10
1078749	698	0.3	< 0.5	129	2620	< 1	795	17	97	1.35	8090	< 10	21	< 0.5	< 2	5.79	71	433	11.5	< 10	< 1	0.09	< 10
1078750	98	< 0.2	< 0.5	58	924	< 1	98	< 2	64	1.91	1090	< 10	78	< 0.5	< 2	1.58	24	101	4.42	< 10	2	0.31	< 10
1078751	42	0.2	0.7	78	536	< 1	60	8	123	2.15	409	< 10	90	< 0.5	< 2	0.56	27	102	5.00	< 10	< 1	0.41	15
1078752	82	< 0.2	< 0.5	27	824	< 1	50	< 2	42	1.52	79	< 10	84	< 0.5	< 2	3.12	21	142	4.18	< 10	< 1	0.23	< 10
1078753	75	< 0.2	0.5	67	1300	< 1	53	< 2	37	1.28	413	< 10	53	< 0.5	5	6.68	29	59	6.91	< 10	< 1	0.16	< 10
1078754	< 5	< 0.2	< 0.5	28	1870	< 1	1070	< 2	44	2.21	177	< 10	50	< 0.5	< 2	1.35	108	1880	12.0	< 10	4	0.01	< 10
1078755	684	< 0.2	< 0.5	24	3740	< 1	24	< 2	40	0.39	1470	< 10	63	< 0.5	< 2	0.97	9	22	8.84	< 10	2	0.12	< 10
1078756	135	< 0.2	< 0.5	39	778	< 1	40	2	20	0.71	2010	< 10	58	< 0.5	< 2	3.55	17	44	4.36	< 10	< 1	0.18	< 10
1078757	86	< 0.2	0.7	22	986	< 1	62	< 2	31	1.93	121	< 10	54	< 0.5	< 2	4.90	31	134	6.45	< 10	2	0.15	< 10
1078758	12	< 0.2	< 0.5	66	1350	< 1	77	< 2	46	2.36	195	< 10	63	< 0.5	< 2	3.27	37	169	7.59	< 10	2	0.16	< 10
1078759	56	< 0.2	< 0.5	14	1350	< 1	59	< 2	30	2.16	263	< 10	86	< 0.5	< 2	0.73	32	93	6.71	< 10	< 1	0.23	< 10
1078760	14	< 0.2	< 0.5	66	1200	< 1	72	11	88	3.20	95	< 10	103	0.6	< 2	0.99	34	228	7.27	< 10	2	0.21	13
1078761	41	< 0.2	0.9	59	1230	< 1	62	4	94	1.24	272	< 10	120	< 0.5	2	3.26	30	83	6.55	< 10	1	0.28	13
1078762	323	< 0.2	1.3	68	1210	< 1	61	4	91	1.63	885	< 10	113	< 0.5	< 2	1.72	31	101	6.35	< 10	2	0.31	14
1078763	50	< 0.2	< 0.5	106	1500	< 1	74	5	97	2.31	183	< 10	125	< 0.5	< 2	1.35	37	145	7.28	< 10	< 1	0.29	16
1078764	166	< 0.2	0.8	70	1260	< 1	55	3	84	1.45	473	< 10	98	< 0.5	< 2	1.89	29	80	6.24	< 10	2	0.26	13
1078765	122	< 0.2	< 0.5	76	1450	< 1	64	4	76	1.55	362	< 10	121	< 0.5	2	1.93	31	96	6.17	< 10	2	0.29	16
1078766	77	< 0.2	< 0.5	85	1260	< 1	82	< 2	93	2.31	386	< 10	97	< 0.5	< 2	1.77	29	156	6.91	< 10	2	0.18	15
1078767	318	0.2	< 0.5	75	1260	< 1	62	2	78	1.91	537	< 10	113	< 0.5	< 2	2.10	29	127	6.57	< 10	2	0.23	13
1078768	279	< 0.2	< 0.5	85	1220	< 1	69	4	87	1.97	1320	< 10	89	< 0.5	< 2	2.15	31	142	6.56	< 10	< 1	0.24	11

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA
1078729	2.65	0.136	0.112	0.29	< 2	17	157	< 0.01	< 20	< 1	< 2	< 10	37	< 10	10	2	
1078730	0.61	0.090	0.046	2.08	2	5	37	< 0.01	< 20	1	< 2	< 10	10	< 10	4	19	
1078731	0.43	0.077	0.024	1.22	< 2	4	22	< 0.01	< 20	< 1	< 2	< 10	8	< 10	4	16	
1078732	0.49	0.025	0.008	0.08	< 2	< 1	51	< 0.01	< 20	< 1	< 2	< 10	3	< 10	< 1	< 1	
1078733	0.40	0.017	0.026	2.48	12	< 1	5	< 0.01	< 20	< 1	< 2	< 10	7	< 10	8	12	9.93
1078734	0.71	0.031	0.008	6.70	15	3	21	< 0.01	< 20	< 1	< 2	< 10	12	< 10	4	9	
1078735	0.37	0.026	0.010	6.95	14	3	19	< 0.01	< 20	< 1	< 2	< 10	14	< 10	5	9	
1078736	0.14	0.020	0.001	0.02	< 2	< 1	3	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	< 1	
1078737	7.35	0.017	0.010	0.95	14	8	105	< 0.01	< 20	< 1	< 2	< 10	47	< 10	3	3	
1078738	2.02	0.023	0.003	0.07	4	3	146	< 0.01	< 20	3	3	< 10	18	< 10	2	1	15.7
1078739	0.35	0.105	0.056	0.21	< 2	3	31	< 0.01	< 20	< 1	< 2	< 10	9	< 10	3	6	
1078740	5.02	0.031	0.014	0.30	14	7	84	< 0.01	< 20	< 1	< 2	< 10	38	< 10	3	4	
1078741	11.0	0.020	0.076	0.07	12	12	79	< 0.01	< 20	< 1	< 2	< 10	62	< 10	6	4	
1078742	6.83	0.020	0.017	0.01	9	15	27	< 0.01	< 20	< 1	< 2	< 10	75	< 10	4	4	
1078743	1.17	0.023	0.014	0.58	14	6	18	< 0.01	< 20	< 1	< 2	< 10	27	< 10	4	5	
1078744	0.03	0.012	0.007	12.8	26	< 1	6	< 0.01	< 20	< 1	< 2	< 10	8	< 10	7	10	
1078745	1.70	0.085	0.044	0.61	3	26	29	< 0.01	< 20	< 1	< 2	< 10	97	< 10	7	3	
1078746	0.39	0.037	0.044	1.71	5	4	24	< 0.01	< 20	< 1	< 2	< 10	14	< 10	4	19	
1078747	0.04	0.015	0.003	8.59	15	< 1	7	< 0.01	< 20	< 1	< 2	< 10	6	< 10	3	8	
1078748	0.01	0.017	0.002	2.11	13	< 1	7	< 0.01	< 20	< 1	< 2	< 10	4	< 10	1	3	
1078749	1.99	0.025	0.034	1.12	22	13	58	< 0.01	< 20	< 1	< 2	< 10	70	< 10	6	7	
1078750	0.81	0.051	0.044	0.46	3	7	11	< 0.01	< 20	< 1	< 2	< 10	56	< 10	6	7	
1078751	0.83	0.070	0.032	0.25	4	8	7	< 0.01	< 20	< 1	< 2	< 10	70	< 10	6	9	
1078752	1.99	0.096	0.021	0.03	3	14	42	< 0.01	< 20	2	2	< 10	41	< 10	5	2	
1078753	1.88	0.142	0.038	0.26	3	24	57	< 0.01	< 20	< 1	< 2	< 10	57	< 10	10	5	
1078754	8.40	0.025	0.014	0.02	10	14	40	< 0.01	< 20	< 1	< 2	< 10	77	< 10	4	4	
1078755	0.35	0.062	0.029	0.96	4	5	21	< 0.01	< 20	< 1	< 2	< 10	11	< 10	7	18	
1078756	1.43	0.112	0.037	0.40	3	13	70	< 0.01	< 20	< 1	< 2	< 10	26	< 10	7	8	
1078757	2.87	0.133	0.022	0.12	3	23	58	< 0.01	< 20	< 1	< 2	< 10	69	< 10	8	5	
1078758	2.21	0.143	0.045	0.12	4	27	36	< 0.01	< 20	< 1	< 2	< 10	100	< 10	11	7	
1078759	1.01	0.107	0.041	0.01	4	26	10	< 0.01	< 20	< 1	< 2	< 10	92	< 10	9	7	
1078760	3.16	0.106	0.132	0.19	4	18	47	0.02	< 20	< 1	< 2	< 10	129	< 10	13	5	
1078761	2.18	0.106	0.125	0.09	3	18	140	< 0.01	< 20	< 1	< 2	< 10	50	< 10	9	2	
1078762	1.42	0.070	0.140	0.18	3	17	73	< 0.01	< 20	< 1	< 2	< 10	66	< 10	11	2	
1078763	1.89	0.084	0.149	0.11	3	21	59	< 0.01	< 20	< 1	< 2	< 10	97	< 10	13	3	
1078764	1.16	0.112	0.125	0.22	3	17	60	< 0.01	< 20	< 1	< 2	< 10	53	< 10	11	2	
1078765	1.04	0.118	0.128	0.19	3	19	48	< 0.01	< 20	< 1	< 2	< 10	61	< 10	12	2	
1078766	2.04	0.110	0.123	0.15	4	20	52	< 0.01	< 20	< 1	< 2	< 10	98	< 10	12	2	
1078767	1.75	0.102	0.122	0.29	2	18	66	< 0.01	< 20	< 1	< 2	< 10	85	< 10	12	2	
1078768	2.09	0.110	0.125	0.69	4	18	76	< 0.01	< 20	< 1	< 2	< 10	78	< 10	10	3	

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		31.4	2.7	1220	834	13	36	670	708	0.36	416	10	429	0.8	1510	0.82	6	6	23.1	< 10	3	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.8	< 0.5	6630	143	311	41	49	74	2.86	106	< 10	55	1.4	21	0.98	13	54	3.11	< 10	< 1	1.68	44
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.3	0.6	76	1090	1	27	103	125	7.55	236	< 10	929	0.9	< 2	0.14	12	81	6.14	20	4	1.22	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SE68 Meas	598																						
SE68 Cert	599																						
SE68 Meas	589																						
SE68 Cert	599																						
OxK110 Meas																							
OxK110 Cert																							
OxL118 Meas																							
OxL118 Cert																							
OREAS 254 Meas	2510																						
OREAS 254 Cert	2550																						
OREAS 254 Meas	2490																						
OREAS 254 Cert	2550																						
1078733 Orig																							
1078733 Dup																							
1078738 Orig	> 5000																						
1078738 Dup	> 5000																						
1078741 Orig		< 0.2	< 0.5	19	1500	< 1	928	< 2	30	1.97	384	< 10	57	< 0.5	< 2	2.11	92	1300	10.2	< 10	< 1	< 0.01	< 10
1078741 Dup		< 0.2	0.7	19	1510	< 1	943	< 2	30	2.00	385	< 10	57	< 0.5	2	2.13	93	1310	10.4	< 10	5	< 0.01	< 10
1078748 Orig	1710																						
1078748 Dup	1700																						
1078755 Orig		< 0.2	< 0.5	24	3750	< 1	24	< 2	39	0.39	1470	< 10	64	< 0.5	< 2	0.97	9	23	8.90	< 10	3	0.12	< 10
1078755 Dup		< 0.2	< 0.5	24	3740	< 1	25	4	40	0.39	1470	< 10	63	< 0.5	< 2	0.97	9	22	8.79	< 10	1	0.12	< 10
1078758 Orig	10																						
1078758 Dup	14																						
1078768 Orig	289	< 0.2	< 0.5	85	1220	< 1	69	5	88	1.97	1330	< 10	90	< 0.5	< 2	2.17	31	143	6.56	< 10	< 1	0.24	11
1078768 Dup	268	< 0.2	< 0.5	85	1210	< 1	69	4	85	1.96	1310	< 10	88	< 0.5	< 2	2.13	30	142	6.57	< 10	1	0.23	11
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		0.4	< 0.5	3	7	< 1	< 1	< 2	6	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	0.03
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA- GRA
GXR-1 Meas	0.14	0.058	0.045	0.21	88	1	197	< 0.01	< 20	7	< 2	30	73	172	25	13	
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0	
GXR-4 Meas	1.66	0.148	0.121	1.84	4	7	74	0.12	< 20	< 1	< 2	< 10	76	11	12	9	
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186	
GXR-6 Meas	0.44	0.091	0.033	0.01	4	18	30	< 20	< 1	< 2	< 10	164	< 10	5	7		
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0	5.30	0.0180	2.20	1.54	186	1.90	14.0	110		
SE68 Meas																	
SE68 Cert																	
SE68 Meas																	
SE68 Cert																	
OxK110 Meas																	3.54
OxK110 Cert																	3.602
OxL118 Meas																	5.79
OxL118 Cert																	5.828
OREAS 254 Meas																	
OREAS 254 Cert																	
OREAS 254 Meas																	
OREAS 254 Cert																	
1078733 Orig																	10.1
1078733 Dup																	9.70
1078738 Orig																	
1078738 Dup																	
1078741 Orig	11.0	0.020	0.076	0.07	14	12	78	< 0.01	< 20	< 1	< 2	< 10	62	< 10	6	4	
1078741 Dup	11.1	0.019	0.076	0.07	11	12	80	< 0.01	< 20	< 1	< 2	< 10	62	< 10	6	4	
1078748 Orig																	
1078748 Dup																	
1078755 Orig	0.35	0.062	0.030	0.97	3	5	21	< 0.01	< 20	3	< 2	< 10	11	< 10	7	18	
1078755 Dup	0.34	0.062	0.029	0.96	4	5	21	< 0.01	< 20	< 1	< 2	< 10	11	< 10	7	17	
1078758 Orig																	
1078758 Dup																	
1078768 Orig	2.10	0.112	0.125	0.69	4	18	76	< 0.01	< 20	< 1	< 2	< 10	79	< 10	10	3	
1078768 Dup	2.09	0.108	0.126	0.70	4	18	75	< 0.01	< 20	2	< 2	< 10	78	< 10	10	3	
Method Blank																	
Method Blank																	
Method Blank																	
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank																	< 0.03



Date Submitted: 12-Jun-17
Invoice No.: A17-05830
Invoice Date: 18-Jul-17
Your Reference:

Doug Parker
365 Lark St
Thunder Bay ON P7B1P4
Canada

ATTN: Doug Parker

CERTIFICATE OF ANALYSIS

56 Humus samples were submitted for analysis.

The following analytical package(s) were requested:

Code 2C Ash Vegetation INAA(INAAGEO)

Code B3-Ash Report Ash Report

REPORT **A17-05830**

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Notes:

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

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Results

Activation Laboratories Ltd.

Report: A17-05830

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	K	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	0.05	2	10	50	5	0.1	0.1	2	300	0.5
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1338	7	< 2	12.6	250	< 1	6.9	27	94	7.1	3.32	7.5	< 1	< 2	1.68	< 2	11500	< 50	132	2.1	10.0	< 2	500	< 0.5
1339	7	< 2	14.7	410	5	19.9	16	42	5.3	1.77	3.8	< 1	< 2	1.72	< 2	4960	< 50	140	2.6	4.9	< 2	600	< 0.5
1340	< 5	< 2	21.6	300	< 1	4.4	25	86	8.2	3.60	8.7	< 1	< 2	2.00	2	9520	< 50	199	1.6	9.3	< 2	< 300	0.6
1341	24	< 2	513	260	< 1	3.0	38	182	6.0	5.73	7.8	< 1	< 2	1.31	< 2	13800	< 50	146	2.3	18.9	< 2	400	< 0.5
1342	< 5	< 2	9.4	240	< 1	4.1	31	92	6.8	4.98	10.3	< 1	< 2	1.58	< 2	13900	< 50	126	1.3	14.3	< 2	< 300	0.8
1343	< 5	< 2	7.0	200	< 1	2.5	21	78	2.2	4.44	8.4	< 1	< 2	0.91	< 2	12500	< 50	98	0.5	11.9	2	< 300	0.6
1344	477	< 2	1850	180	< 1	3.1	44	169	3.2	7.00	6.1	< 1	< 2	0.71	< 2	12100	90	81	10.0	15.3	< 2	< 300	0.5
1345	1820	< 2	1090	200	< 1	1.8	33	233	6.3	6.38	9.2	< 1	< 2	1.28	< 2	13100	130	117	3.1	12.3	< 2	< 300	< 0.5
1346	< 5	< 2	18.7	260	< 1	3.3	28	101	7.8	5.51	10.3	< 1	< 2	< 0.05	< 2	16300	120	127	1.0	15.6	< 2	< 300	< 0.5
1347	< 5	< 2	5.1	230	< 1	2.2	23	67	5.3	4.14	11.6	< 1	< 2	1.06	2	11000	< 50	136	0.9	9.6	< 2	< 300	< 0.5
1348	< 5	< 2	6.6	140	< 1	4.0	41	441	4.1	5.60	7.1	< 1	< 2	1.06	< 2	11000	< 50	76	0.7	19.1	< 2	< 300	< 0.5
1349	< 5	< 2	8.1	80	< 1	1.6	13	37	2.0	1.70	2.8	< 1	< 2	< 0.05	< 2	13200	< 50	43	1.5	5.7	< 2	< 300	< 0.5
1350	< 5	< 2	13.1	90	< 1	1.8	13	38	3.0	1.66	2.5	< 1	< 2	2.44	< 2	15500	< 50	44	1.6	5.5	< 2	< 300	< 0.5
1351	< 5	< 2	6.8	140	< 1	< 0.2	8	21	2.0	1.38	1.4	< 1	< 2	3.93	< 2	12900	50	19	< 0.1	3.8	< 2	< 300	< 0.5
1352	< 5	< 2	6.7	70	< 1	< 0.2	12	26	2.3	1.73	1.8	< 1	< 2	3.00	< 2	12600	< 50	31	1.2	4.8	< 2	< 300	< 0.5
1353	< 5	< 2	8.2	120	< 1	2.3	18	37	2.2	1.83	3.5	< 1	< 2	3.78	< 2	17300	< 50	69	1.4	4.7	< 2	< 300	< 0.5
1354	< 5	< 2	9.3	70	< 1	1.4	12	33	1.4	1.78	2.3	< 1	< 2	2.42	< 2	8040	< 50	30	0.8	4.8	< 2	< 300	< 0.5
1355	< 5	< 2	6.1	90	< 1	2.4	14	40	1.4	1.97	2.6	< 1	< 2	2.26	< 2	690	< 50	35	1.1	6.4	< 2	< 300	< 0.5
1356	< 5	< 2	4.2	80	< 1	2.0	13	39	1.0	1.81	2.8	< 1	< 2	1.58	< 2	540	< 50	30	0.7	5.6	< 2	< 300	< 0.5
1357	< 5	< 2	6.2	130	< 1	1.6	16	38	2.0	1.73	3.4	< 1	< 2	3.20	2	390	< 50	53	1.7	5.5	< 2	< 300	< 0.5
1358	< 5	< 2	5.3	70	< 1	< 0.2	11	24	1.8	1.35	1.7	< 1	< 2	2.88	< 2	260	< 50	19	0.6	3.9	< 2	< 300	< 0.5
1359	< 5	< 2	5.9	60	< 1	< 0.2	3	5	1.3	1.53	2.0	< 1	< 2	3.29	< 2	310	< 50	21	1.2	4.9	< 2	< 300	< 0.5
1360	68	< 2	85.5	510	< 1	1.4	19	56	4.9	3.43	6.6	< 1	< 2	2.62	< 2	430	< 50	75	0.5	8.2	< 2	300	< 0.5
1361	< 5	< 2	3.8	460	< 1	0.4	10	26	0.9	1.72	1.6	< 1	< 2	1.93	< 2	580	< 50	18	0.3	4.8	< 2	< 300	< 0.5
1362	< 5	< 2	5.6	460	< 1	1.0	7	18	1.0	1.14	1.6	< 1	< 2	2.59	< 2	650	< 50	13	0.4	3.3	< 2	< 300	< 0.5
1363	< 5	< 2	4.9	400	< 1	< 0.2	9	19	2.1	1.18	1.8	< 1	< 2	2.60	< 2	520	< 50	92	0.5	3.2	< 2	< 300	< 0.5
1364	8	< 2	15.1	500	< 1	< 0.2	11	31	1.1	1.48	1.6	< 1	< 2	2.28	< 2	880	< 50	20	0.4	4.5	< 2	< 300	< 0.5
1365	5	< 2	8.8	540	< 1	4.5	15	24	2.4	1.16	1.2	< 1	< 2	2.54	< 2	240	< 50	59	< 0.1	3.8	< 2	< 300	< 0.5
1338A	36	< 2	5.6	530	< 1	22.2	5	9	< 0.5	0.14	< 0.5	< 1	< 2	9.85	7	640	< 50	110	0.5	0.2	< 2	1000	< 0.5
1339A	15	< 2	2.2	160	< 1	13.8	1	< 1	< 0.5	0.08	< 0.5	< 1	< 2	8.80	3	140	< 50	97	< 0.1	0.2	< 2	< 300	< 0.5
1340A	33	< 2	3.4	810	< 1	28.7	4	3	< 0.5	0.12	< 0.5	< 1	< 2	10.5	< 2	390	< 50	111	1.3	0.2	< 2	500	< 0.5
1341A	52	< 2	3.8	1410	1	32.4	5	7	< 0.5	0.10	< 0.5	< 1	< 2	12.5	< 2	530	< 50	54	2.8	0.3	< 2	600	< 0.5
1342A	54	< 2	5.6	560	1	25.7	12	9	< 0.5	0.15	< 0.5	< 1	< 2	13.7	4	590	< 50	270	1.0	0.2	< 2	1000	< 0.5
1343A	70	< 2	2.2	1900	1	26.9	5	< 1	< 0.5	0.10	< 0.5	< 1	< 2	11.0	< 2	470	< 50	98	0.5	0.2	< 2	1300	< 0.5
1344A	161	< 2	8.5	3410	2	29.3	22	2	< 0.5	0.23	< 0.5	< 1	< 2	12.4	< 2	800	< 50	103	1.1	0.4	< 2	< 300	< 0.5
1345A	32	< 2	3.0	280	< 1	25.6	7	< 1	< 0.5	0.14	< 0.5	< 1	< 2	12.1	3	220	< 50	156	< 0.1	0.2	< 2	300	< 0.5
1346A	22	< 2	3.0	390	< 1	28.5	7	< 1	2.3	0.10	< 0.5	< 1	< 2	8.90	< 2	220	< 50	264	0.2	0.2	< 2	< 300	< 0.5
1347A	45	< 2	2.0	1580	< 1	33.0	7	< 1	< 0.5	0.11	< 0.5	< 1	< 2	10.1	< 2	580	< 50	133	1.3	0.4	< 2	600	< 0.5
1348A	16	< 2	2.2	1350	< 1	36.5	2	2	< 0.5	< 0.05	< 0.5	< 1	< 2	7.59	< 2	320	< 50	46	0.3	0.2	< 2	1300	< 0.5
1349A	26	< 2	1.8	590	< 1	27.0	3	< 1	< 0.5	0.09	< 0.5	< 1	< 2	10.3	< 2	330	< 50	48	0.2	0.5	< 2	800	< 0.5
1350A	595	< 2	2.6	760	1	28.2	5	< 1	< 0.5	0.14	< 0.5	< 1	< 2	11.6	10	570	< 50	< 5	0.2	0.2	< 2	400	< 0.5

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	K	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	0.05	2	10	50	5	0.1	0.1	2	300	0.5
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1351A	43	< 2	2.6	170	1	6.3	3	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	13.1	< 2	< 10	< 50	14	1.5	0.3	< 2	< 300	< 0.5
1352A	14	< 2	3.4	150	1	8.3	6	6	< 0.5	0.09	< 0.5	< 1	< 2	11.1	< 2	< 10	< 50	< 5	1.5	0.4	< 2	< 300	< 0.5
1353A	40	< 2	22.9	930	2	3.4	10	6	< 0.5	< 0.05	< 0.5	< 1	< 2	13.8	< 2	< 10	< 50	14	< 0.1	0.4	< 2	< 300	< 0.5
1354A	43	< 2	6.0	240	< 1	6.4	12	7	< 0.5	< 0.05	< 0.5	< 1	< 2	11.0	3	< 10	< 50	30	1.5	0.3	< 2	500	< 0.5
1355A	49	3	4.6	60	3	6.4	7	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	13.3	< 2	< 10	< 50	48	1.5	1.1	< 2	< 300	< 0.5
1356A	31	< 2	6.0	190	1	5.8	3	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	10.9	< 2	< 10	< 50	29	< 0.1	0.3	< 2	400	< 0.5
1357A	26	< 2	5.2	240	2	5.3	8	< 1	< 0.5	0.07	< 0.5	< 1	< 2	11.0	< 2	< 10	< 50	39	3.0	0.3	< 2	< 300	< 0.5
1358A	63	< 2	3.7	210	1	6.6	10	< 1	< 0.5	0.11	< 0.5	< 1	< 2	12.7	< 2	< 10	< 50	40	< 0.1	0.3	< 2	< 300	< 0.5
1359A	26	< 2	3.2	160	2	6.2	4	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	9.38	< 2	< 10	< 50	17	1.5	0.3	< 2	500	< 0.5
1360A	< 5	< 2	4.0	500	1	4.8	2	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	10.7	< 2	< 10	< 50	37	< 0.1	0.3	< 2	600	< 0.5
1361A	29	< 2	6.9	380	2	4.2	9	< 1	< 0.5	0.12	< 0.5	< 1	< 2	15.0	< 2	< 10	< 50	23	< 0.1	0.4	4	500	< 0.5
1362A	73	< 2	6.4	160	2	17.2	9	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	9.49	< 2	< 10	< 50	12	< 0.1	4.7	3	< 300	< 0.5
1363A	43	< 2	6.4	120	2	16.0	8	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	9.19	< 2	< 10	< 50	41	< 0.1	5.1	< 2	< 300	< 0.5
1364A	54	< 2	2.6	890	< 1	15.4	3	< 1	< 0.5	0.11	< 0.5	< 1	< 2	10.3	< 2	360	< 50	77	0.9	0.2	< 2	700	< 0.5
1365A	16	< 2	2.7	1110	< 1	0.5	2	< 1	0.7	< 0.05	< 0.5	< 1	< 2	10.6	< 2	250	< 50	20	0.1	0.2	< 2	500	< 0.5

Analyte Symbol	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashed Weight	Ashed Weight	% Ash
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%
Lower Limit	0.1	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05				
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none
1338	0.7	2.5	< 1	240	14.7	14	48	1.9	0.56	< 0.5	0.79	0.06	0.915	72.6	19.8	27.3
1339	0.5	1.8	< 1	840	10.7	9	50	1.3	0.38	< 0.5	0.57	0.07	0.882	70.5	5.90	8.36
1340	0.9	2.1	< 1	150	18.9	17	67	2.1	0.61	1.4	0.90	0.13	0.892	76.1	30.3	39.8
1341	0.6	2.4	6	200	16.3	16	59	2.3	0.69	1.9	1.18	0.21	1.27	74.2	43.7	58.8
1342	0.8	3.6	< 1	100	18.0	17	65	2.4	0.71	1.5	1.17	0.17	1.14	71.4	34.9	48.8
1343	0.6	2.5	< 1	70	11.0	11	37	1.5	0.56	< 0.5	0.78	0.12	1.43	73.2	61.2	83.6
1344	0.5	2.5	< 1	110	11.7	12	40	1.8	0.56	< 0.5	0.86	0.13	1.59	72.8	58.3	80.2
1345	0.7	1.6	3	160	14.9	16	63	2.1	0.63	< 0.5	0.98	0.16	1.44	77.9	65.0	83.5
1346	0.8	3.1	< 1	70	17.3	17	54	2.4	0.69	1.8	1.23	0.15	1.42	78.7	61.2	77.8
1347	0.8	2.1	< 1	120	14.4	15	50	1.9	0.61	1.4	1.02	0.13	1.38	71.8	55.7	77.5
1348	0.4	2.0	< 1	90	8.7	10	35	1.5	0.52	1.2	0.95	0.13	1.66	73.7	64.0	86.9
1349	0.3	0.8	< 1	90	7.6	13	< 5	1.0	< 0.01	1.1	0.68	< 0.05	1.90	78.6	29.0	36.9
1350	0.4	1.6	< 1	90	8.5	11	< 5	0.9	< 0.01	1.2	0.75	< 0.05	2.26	75.2	54.0	71.8
1351	2.2	0.9	< 1	70	5.0	7	5	< 0.1	< 0.01	< 0.5	0.42	< 0.05	1.17	78.0	19.1	24.5
1352	3.5	0.9	< 1	< 50	7.2	8	6	< 0.1	< 0.01	< 0.5	0.51	< 0.05	1.58	70.1	45.5	64.9
1353	0.4	1.3	< 1	80	8.1	9	< 5	0.9	< 0.01	1.0	0.65	< 0.05	1.74	75.1	50.9	67.8
1354	0.2	0.6	< 1	50	4.6	6	< 5	0.7	< 0.01	0.9	0.42	< 0.05	1.79	79.5	47.3	59.4
1355	0.2	0.5	< 1	< 50	4.2	6	< 5	0.8	< 0.01	1.0	0.47	< 0.05	2.06	72.0	37.4	52.0
1356	0.2	0.8	< 1	< 50	4.3	4	< 5	0.7	< 0.01	0.9	0.56	0.06	2.78	70.9	57.8	81.5
1357	0.3	0.9	< 1	70	7.2	10	< 5	1.0	0.20	1.3	0.60	< 0.05	1.82	70.4	19.3	27.4
1358	1.8	0.8	< 1	60	5.6	8	7	< 0.1	< 0.01	< 0.5	0.36	< 0.05	1.43	77.0	35.3	45.8
1359	2.0	0.8	< 1	< 50	4.9	7	8	< 0.1	< 0.01	< 0.5	0.41	< 0.05	1.66	70.3	34.3	48.8
1360	0.8	1.6	< 1	< 50	21.1	9	< 5	0.4	< 0.01	1.8	0.07	0.66	2.60	75.5	58.0	76.8
1361	1.3	1.1	< 1	< 50	15.9	7	5	< 0.1	< 0.01	< 0.5	< 0.05	0.69	2.75	76.7	66.0	86.1
1362	1.3	1.2	< 1	< 50	14.5	7	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.54	1.76	70.9	48.8	68.8
1363	1.8	1.5	< 1	< 50	18.9	11	5	< 0.1	< 0.01	< 0.5	< 0.05	0.48	1.60	75.7	44.3	58.5
1364	1.9	1.4	< 1	< 50	18.9	12	5	< 0.1	< 0.01	< 0.5	< 0.05	0.65	2.67	74.3	56.8	76.4
1365	0.5	0.9	7	120	15.9	6	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.57	1.69	70.9	26.7	37.7
1338A	< 0.1	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.14	0.180	72.1	1.16	1.61
1339A	< 0.1	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.15	0.135	70.4	1.50	2.13
1340A	< 0.1	< 0.1	< 1	1020	1.3	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.204	70.2	1.13	1.61
1341A	< 0.1	< 0.1	< 1	570	1.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.210	71.5	1.67	2.34
1342A	< 0.1	< 0.1	< 1	560	2.3	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.190	70.5	0.830	1.18
1343A	< 0.1	< 0.1	< 1	2850	2.2	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.225	72.8	0.930	1.28
1344A	< 0.1	< 0.1	< 1	5580	1.9	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.186	72.5	0.610	0.841
1345A	< 0.1	< 0.1	< 1	660	4.0	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.223	71.2	1.05	1.48
1346A	< 0.1	< 0.1	< 1	280	1.1	< 3	20	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.300	71.2	0.970	1.36
1347A	< 0.1	< 0.1	< 1	340	1.1	4	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.234	70.0	1.67	2.39
1348A	< 0.1	< 0.1	< 1	390	0.5	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.313	70.4	2.08	2.95
1349A	< 0.1	< 0.1	< 1	1160	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.273	71.1	1.00	1.41

Analyte Symbol	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Unashed Weight	Ashed Weight	% Ash
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	g	g	%
Lower Limit	0.1	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05				
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	none	none	none
1350A	< 0.1	< 0.1	< 1	360	1.3	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.210	71.1	0.920	1.29
1351A	< 0.1	< 0.1	< 1	1240	3.3	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.205	71.6	0.920	1.28
1352A	< 0.1	< 0.1	< 1	1120	1.6	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.250	71.1	1.30	1.83
1353A	< 0.1	< 0.1	< 1	13000	1.2	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.188	73.5	0.610	0.830
1354A	< 0.1	< 0.1	< 1	3400	1.4	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.231	72.5	1.02	1.41
1355A	< 0.1	< 0.1	< 1	1790	1.2	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.216	70.5	0.870	1.23
1356A	< 0.1	0.3	< 1	590	0.5	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.263	70.5	1.58	2.24
1357A	< 0.1	< 0.1	< 1	1360	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.235	70.4	0.700	0.994
1358A	< 0.1	< 0.1	< 1	2930	0.9	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.215	73.2	0.810	1.11
1359A	< 0.1	< 0.1	< 1	2880	0.7	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.276	72.0	0.970	1.35
1360A	< 0.1	< 0.1	< 1	1700	0.7	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.243	73.8	1.43	1.94
1361A	< 0.1	< 0.1	< 1	7440	0.9	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.190	71.9	0.640	0.890
1362A	< 0.1	< 0.1	< 1	680	0.9	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.219	71.5	0.950	1.33
1363A	< 0.1	< 0.1	< 1	750	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.230	72.3	1.43	1.98
1364A	< 0.1	< 0.1	< 1	< 50	1.5	4	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.15	0.210	71.1	1.50	2.11
1365A	< 0.1	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.14	0.140	71.4	1.63	2.28

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	K	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	0.05	2	10	50	5	0.1	0.1	2	300	0.5
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
Ash AU Meas	57		235	< 50	< 1	0.7	7	16		0.72						670			1.5	1.8			
Ash AU Cert	54.0		224	30.0	0.200	0.700	7.00	15.0		0.760						700			1.60	1.90			
Ash AU Meas	57		234	< 50	< 1	0.7	7	16		0.80						730			1.5	2.0			
Ash AU Cert	54.0		224	30.0	0.200	0.700	7.00	15.0		0.760						700			1.60	1.90			
1339A Orig	12	< 2	2.3	190	< 1	12.8	2	< 1	< 0.5	0.08	< 0.5	< 1	< 2	8.69	2	130	< 50	93	< 0.1	0.2	< 2	400	< 0.5
1339A Dup	18	< 2	2.1	130	< 1	14.9	1	< 1	< 0.5	0.08	< 0.5	< 1	< 2	8.90	3	150	< 50	100	< 0.1	0.2	< 2	< 300	< 0.5
Method Blank	< 5	< 2	< 0.5	< 50	< 1	< 0.2	< 1	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	< 0.05	< 2	< 10	< 50	< 5	< 0.1	< 0.1	< 2	< 300	< 0.5

Analyte Symbol	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g
Lower Limit	0.1	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05	
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA
Ash AU Meas	0.1		1	< 50	2.3	< 3		0.4	0.10		0.31	0.05	
Ash AU Cert	0.100		1.00	22.0	2.20	2.00		0.400	0.100		0.300	0.0500	
Ash AU Meas	0.1		1	< 50	2.3	< 3		0.4	0.10		0.31	0.05	
Ash AU Cert	0.100		1.00	22.0	2.20	2.00		0.400	0.100		0.300	0.0500	
1339A Orig	< 0.1	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.15	0.130
1339A Dup	< 0.1	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	0.16	0.140
Method Blank	< 0.1	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	1.00



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Your Reference:

Doug Parker
365 Lark St
Thunder Bay ON P7B1P4
Canada

ATTN: Doug Parker

CERTIFICATE OF ANALYSIS

37 Humus samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2 Au - Fire Assay AA
Code 1E3 Aqua Regia ICP(AQUAGEO)
Code 2C Ash Vegetation INAA(INAAGEO)

REPORT **A17-08267**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	K	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	0.05	2	10	50	5	0.1	0.1	2	300	0.5
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
1370	< 5	< 2	6.5	570	7	< 0.2	25	75	5.4	4.50	4.9	< 1	< 2	0.67	< 2	9570	< 50	77	0.6	13.0	< 2	< 300	< 0.5
1371	< 5	< 2	8.5	580	7	< 0.2	36	75	6.8	4.90	5.2	< 1	< 2	0.59	< 2	8190	< 50	125	0.8	13.3	< 2	< 300	< 0.5
1372	< 5	< 2	9.7	510	17	4.3	28	69	5.8	4.20	5.0	< 1	< 2	0.98	2	8190	< 50	135	1.3	12.2	< 2	< 300	< 0.5
1373	< 5	< 2	7.3	650	5	< 0.2	28	80	5.9	4.35	4.5	< 1	< 2	0.51	5	9340	< 50	101	0.5	13.1	5	< 300	< 0.5
1374	8	< 2	25.0	390	4	3.3	30	95	1.3	5.61	3.9	< 1	< 2	0.24	< 2	14200	< 50	< 5	0.3	16.5	< 2	< 300	< 0.5
1375	36	< 2	56.8	430	2	< 0.2	30	92	1.8	6.14	4.8	< 1	< 2	0.63	< 2	14500	< 50	31	0.1	17.8	< 2	< 300	< 0.5
1376	432	< 2	1300	190	6	3.5	36	159	< 0.5	7.03	3.3	< 1	< 2	0.26	< 2	13600	< 50	< 5	3.9	17.5	< 2	< 300	< 0.5
1377	< 5	< 2	82.7	600	7	< 0.2	28	77	4.2	4.16	5.3	< 1	< 2	0.80	< 2	12800	< 50	91	0.6	12.4	< 2	< 300	< 0.5
1378	< 5	< 2	4.5	390	2	2.6	22	79	0.6	4.56	4.6	< 1	< 2	0.35	< 2	14700	< 50	30	0.4	13.4	< 2	< 300	< 0.5
1370A	24	< 2	6.3	320	10	28.3	3	2	< 0.5	0.13	< 0.5	< 1	< 2	0.79	5	530	< 50	63	0.3	0.3	< 2	800	< 0.5
1371A	108	< 2	5.2	740	35	20.8	6	< 1	< 0.5	0.16	< 0.5	< 1	< 2	2.02	15	710	< 50	114	0.2	0.4	< 2	700	< 0.5
1372A	47	< 2	5.8	410	21	32.0	3	2	< 0.5	0.11	< 0.5	< 1	< 2	1.43	19	490	< 50	73	0.3	0.3	< 2	800	< 0.5
1373A	39	< 2	10.1	950	17	30.8	9	< 1	< 0.5	0.18	< 0.5	< 1	< 2	2.13	< 2	800	< 50	118	0.4	0.5	< 2	1500	< 0.5
1374A	20	< 2	2.7	230	18	35.3	10	< 1	2.8	< 0.05	< 0.5	< 1	< 2	1.31	< 2	450	< 50	87	0.5	0.3	< 2	900	< 0.5
1375A	33	< 2	7.5	1000	14	30.5	9	< 1	< 0.5	0.23	< 0.5	< 1	< 2	1.77	< 2	590	< 50	193	0.5	0.4	< 2	1400	< 0.5
1376A	97	< 2	7.7	500	28	32.7	26	< 1	4.8	0.18	< 0.5	< 1	< 2	1.89	< 2	540	< 50	160	0.5	0.4	< 2	1800	< 0.5
1377A	21	< 2	4.5	320	23	35.4	< 1	3	< 0.5	0.20	< 0.5	< 1	< 2	2.10	< 2	690	< 50	104	0.4	0.4	< 2	2000	< 0.5
1378A	41	< 2	6.1	2020	28	21.1	11	< 1	< 0.5	0.23	< 0.5	< 1	< 2	1.77	< 2	890	< 50	255	0.5	0.4	< 2	1700	< 0.5
1385	< 5	< 2	4.2	410	2	4.1	31	85	1.6	6.28	6.0	< 1	< 2	0.34	< 2	15100	< 50	42	0.5	17.3	< 2	< 300	< 0.5
1386	< 5	< 2	4.9	700	5	3.1	30	86	5.1	5.62	6.0	< 1	< 2	0.52	< 2	12500	< 50	119	0.5	16.1	< 2	< 300	< 0.5
1387	< 5	< 2	8.9	440	1	2.1	26	80	1.3	4.77	5.5	< 1	< 2	0.47	5	15700	< 50	62	0.3	14.8	< 2	< 300	< 0.5
1388	23	< 2	66.3	580	2	2.2	25	85	3.7	4.26	7.2	< 1	< 2	0.32	< 2	14100	< 50	63	0.8	11.8	< 2	< 300	< 0.5
1389	< 5	< 2	6.7	560	< 1	< 0.2	36	72	4.9	4.34	7.1	< 1	< 2	< 0.05	< 2	12500	< 50	156	0.7	11.5	< 2	< 300	0.7
1385A	82	< 2	3.5	2680	11	30.5	4	< 1	< 0.5	0.16	< 0.5	< 1	< 2	0.90	< 2	560	< 50	131	0.2	0.3	< 2	1600	< 0.5
1386A	66	< 2	3.8	710	14	30.0	7	< 1	< 0.5	0.23	< 0.5	< 1	< 2	0.62	16	480	< 50	299	0.3	0.3	< 2	1200	< 0.5
1387A	86	< 2	4.5	1210	44	28.5	7	< 1	0.6	0.16	< 0.5	< 1	< 2	0.73	< 2	720	< 50	135	0.2	0.2	< 2	2000	< 0.5
1388A	57	< 2	2.7	640	17	30.8	3	< 1	< 0.5	0.12	< 0.5	< 1	< 2	0.49	< 2	570	< 50	78	0.3	0.2	< 2	1900	< 0.5
1389A	54	< 2	3.8	890	20	25.2	12	< 1	< 0.5	0.16	< 0.5	< 1	< 2	0.89	15	1270	< 50	466	0.4	4.1	< 2	1400	< 0.5
1078769																							
1078770																							
1078771																							
1078772																							
1078773																							
1078774																							
1078775																							
1078776																							
1078777																							

Analyte Symbol	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.1	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05		20	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1370	7.9	2.0	< 1	70	24.5	54	26	2.6	0.98	< 0.5	1.84	0.31	1.21										
1371	10.8	1.9	< 1	160	31.8	70	38	3.3	1.22	< 0.5	2.00	0.32	1.17										
1372	8.1	2.1	< 1	< 50	29.5	58	45	3.1	1.23	0.8	1.78	0.34	1.05										
1373	8.3	1.7	< 1	170	36.3	70	45	3.9	1.39	< 0.5	2.04	0.33	1.22										
1374	3.5	0.5	< 1	< 50	13.4	28	11	2.0	0.80	< 0.5	1.51	0.16	1.91										
1375	3.4	< 0.1	< 1	< 50	12.5	25	16	1.9	0.91	< 0.5	1.65	0.16	1.79										
1376	4.0	0.8	< 1	120	13.3	27	16	2.0	1.02	< 0.5	1.46	0.17	1.61										
1377	6.7	2.4	< 1	50	25.6	56	32	3.2	1.17	0.5	1.76	0.35	1.19										
1378	4.1	1.1	< 1	< 50	13.5	27	17	1.7	0.74	< 0.5	1.35	0.22	1.54										
1370A	0.3	< 0.1	< 1	450	1.0	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.908										
1371A	< 0.1	< 0.1	< 1	600	3.4	6	< 5	0.3	< 0.01	< 0.5	< 0.05	< 0.05	0.510										
1372A	< 0.1	< 0.1	< 1	990	0.7	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.698										
1373A	< 0.1	< 0.1	< 1	1020	2.6	9	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.518										
1374A	< 0.1	< 0.1	< 1	450	10.3	7	< 5	0.5	< 0.01	< 0.5	< 0.05	< 0.05	0.687										
1375A	0.3	0.9	< 1	1320	1.9	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.564										
1376A	0.3	< 0.1	< 1	2070	3.1	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.561										
1377A	< 0.1	< 0.1	< 1	690	1.7	4	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.539										
1378A	0.6	< 0.1	< 1	6530	0.9	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.530										
1385	4.8	1.5	< 1	130	11.8	28	16	2.0	1.09	< 0.5	1.88	0.18	1.66										
1386	7.3	2.0	< 1	< 50	19.4	45	21	2.6	1.25	1.0	2.11	0.36	1.33										
1387	4.7	1.4	< 1	80	14.1	38	21	2.3	1.06	< 0.5	1.56	0.32	1.77										
1388	6.6	2.1	< 1	200	17.1	43	27	2.5	1.15	< 0.5	1.74	0.33	1.32										
1389	7.6	2.7	< 1	60	20.5	46	36	2.3	0.98	< 0.5	1.64	0.30	1.40										
1385A	< 0.1	< 0.1	< 1	2020	1.5	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.524										
1386A	< 0.1	< 0.1	< 1	1820	1.0	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.649										
1387A	< 0.1	< 0.1	< 1	2710	0.9	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.547										
1388A	0.1	< 0.1	< 1	620	0.8	< 3	< 5	0.1	< 0.01	< 0.5	< 0.05	< 0.05	0.670										
1389A	0.3	< 0.1	< 1	1000	2.2	< 3	< 5	0.2	< 0.01	< 0.5	< 0.05	< 0.05	0.530										
1078769														< 20	0.5	< 0.5	33	3760	6	81	11	54	0.09
1078770														< 20	< 0.2	< 0.5	22	1330	< 1	482	< 2	17	1.34
1078771														< 20	0.3	< 0.5	25	894	< 1	47	6	52	1.53
1078772														< 20	< 0.2	< 0.5	26	1170	3	218	< 2	35	1.15
1078773														< 20	0.6	< 0.5	38	80	2	9	19	157	0.49
1078774														< 20	< 0.2	< 0.5	63	1280	< 1	52	< 2	54	1.33
1078775														< 20	< 0.2	< 0.5	7	266	8	11	< 2	8	0.11
1078776														< 20	< 0.2	< 0.5	58	1140	< 1	55	3	71	1.80
1078777														< 20	< 0.2	< 0.5	54	1010	< 1	43	< 2	47	2.31

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1370																							
1371																							
1372																							
1373																							
1374																							
1375																							
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1386A																							
1387A																							
1388A																							
1389A																							
1078769	> 10000	< 10	< 10	< 0.5	< 2	0.31	22	81	16.6	< 10	< 1	< 0.01	< 10	0.49	0.017	0.001	12.2	13	< 1	22	< 0.01	4	< 2
1078770	621	< 10	28	< 0.5	< 2	7.44	57	1090	6.27	< 10	< 1	< 0.01	< 10	5.55	0.024	0.017	0.43	6	8	258	< 0.01	< 1	< 2
1078771	4360	< 10	53	< 0.5	< 2	2.85	23	154	5.18	< 10	< 1	0.14	< 10	1.98	0.094	0.130	1.84	3	13	107	< 0.01	< 1	< 2
1078772	271	< 10	55	< 0.5	< 2	4.78	39	508	5.43	< 10	< 1	0.17	< 10	3.27	0.069	0.028	0.09	5	13	118	< 0.01	< 1	< 2
1078773	607	< 10	90	< 0.5	< 2	0.12	6	96	1.59	< 10	< 1	0.32	< 10	0.04	0.037	0.023	0.60	3	< 1	9	< 0.01	< 1	< 2
1078774	567	< 10	81	< 0.5	< 2	4.88	27	77	5.13	< 10	< 1	0.31	10	1.93	0.107	0.103	0.35	< 2	13	166	< 0.01	1	< 2
1078775	35	< 10	18	< 0.5	< 2	0.78	3	110	0.96	< 10	< 1	0.03	< 10	0.20	0.038	0.017	0.10	< 2	2	25	< 0.01	< 1	< 2
1078776	229	< 10	84	< 0.5	< 2	3.97	28	132	5.71	< 10	< 1	0.22	13	2.78	0.110	0.107	0.35	2	16	120	< 0.01	< 1	< 2
1078777	80	< 10	76	< 0.5	< 2	4.38	24	130	5.34	< 10	< 1	0.22	13	2.52	0.135	0.102	0.02	< 2	15	140	< 0.01	< 1	< 2

Analyte Symbol	U	V	W	Y	Zr	Au	Unashed Weight	Ashed Weight	% Ash
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb	g	g	%
Lower Limit	10	1	10	1	1	5			
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-AA	none	none	none
1370							75.5	41.9	55.4
1371							75.7	49.9	65.9
1372							71.3	23.4	32.8
1373							75.0	47.9	63.9
1374							74.7	53.1	71.0
1375							74.7	59.8	80.0
1376							74.1	46.6	62.9
1377							73.6	54.4	73.9
1378							71.5	49.7	69.5
1370A							70.8	1.73	2.44
1371A							70.3	0.800	1.14
1372A							71.3	1.29	1.81
1373A							70.4	0.900	1.28
1374A							71.8	1.62	2.26
1375A							71.9	1.01	1.41
1376A							70.9	1.20	1.69
1377A							70.4	1.35	1.92
1378A							70.1	0.770	1.10
1385							75.9	58.5	77.1
1386							71.1	56.7	79.8
1387							72.2	59.2	82.0
1388							71.9	49.4	68.7
1389							72.8	51.9	71.3
1385A							70.5	1.20	1.70
1386A							70.2	1.10	1.57
1387A							70.9	1.02	1.44
1388A							70.4	1.45	2.06
1389A							70.4	0.840	1.19
1078769	< 10	6	< 10	3	7	3330			
1078770	< 10	49	< 10	4	4	265			
1078771	< 10	75	< 10	7	5	834			
1078772	< 10	39	< 10	6	7	28			
1078773	< 10	7	< 10	1	12	240			
1078774	< 10	45	< 10	8	4	255			
1078775	< 10	6	< 10	1	3	119			
1078776	< 10	77	< 10	10	5	62			
1078777	< 10	64	< 10	9	5	18			

Analyte Symbol	Au	Ag	As	Ba	Br	Ca	Co	Cr	Cs	Fe	Hf	Hg	Ir	K	Mo	Na	Ni	Rb	Sb	Sc	Se	Sr	Ta
Unit Symbol	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	5	2	0.5	50	1	0.2	1	1	0.5	0.05	0.5	1	2	0.05	2	10	50	5	0.1	0.1	2	300	0.5
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A
GXR-1 Meas																							
GXR-1 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
GXR-6 Meas																							
GXR-6 Cert																							
Ash AU Meas	51		213	< 50	2	0.7	7	15		0.80						830			1.8	2.0			
Ash AU Cert	54.0		224	30.0	0.200	0.700	7.00	15.0		0.760						700			1.60	1.90			
Ash AU Meas	51		213	< 50	2	0.7	7	16		0.79						7560			1.8	7.6			
Ash AU Cert	54.0		224	30.0	0.200	0.700	7.00	15.0		0.760						700			1.60	1.90			
Ash AU Meas	51		213	< 50	2		7	15		0.76						830				2.0			
Ash AU Cert	54.0		224	30.0	0.200		7.00	15.0		0.760						700				1.90			
OREAS 223 (Fire Assay) Meas																							
OREAS 223 (Fire Assay) Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
1078770 Orig																							
1078770 Dup																							
Method Blank																							
Method Blank																							
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Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 5	< 2	< 0.5	< 50	< 1	< 0.2	< 1	< 1	< 0.5	< 0.05	< 0.5	< 1	< 2	< 0.05	< 2	< 10	< 50	< 5	< 0.1	< 0.1	< 2	< 300	< 0.5

Analyte Symbol	Th	U	W	Zn	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Mass	Th	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.1	0.1	1	50	0.1	3	5	0.1	0.01	0.5	0.05	0.05		20	0.2	0.5	1	5	1	1	2	2	0.01
Method Code	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	ASHIN A	INAA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas														< 20	27.5	2.3	1150	800	14	30	654	673	0.36
GXR-1 Cert														2.44	31.0	3.30	1110	852	18.0	41.0	730	760	3.52
GXR-4 Meas														< 20	3.2	< 0.5	6200	138	320	35	41	66	2.83
GXR-4 Cert														22.5	4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20
GXR-6 Meas														< 20	0.3	< 0.5	70	1100	1	21	103	125	7.54
GXR-6 Cert														5.30	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7
Ash AU Meas	0.1		< 1	< 50	2.3	< 3		0.4	0.10		0.31	0.05											
Ash AU Cert	0.100		1.00	22.0	2.20	2.00		0.400	0.100		0.300	0.0500											
Ash AU Meas	0.1		< 1	< 50	2.3	< 3		0.4	0.10		0.31	0.05											
Ash AU Cert	0.100		1.00	22.0	2.20	2.00		0.400	0.100		0.300	0.0500											
Ash AU Meas	0.1		< 1	< 50	2.3	< 3		0.4	0.10			0.05											
Ash AU Cert	0.100		1.00	22.0	2.20	2.00		0.400	0.100			0.0500											
OREAS 223 (Fire Assay) Meas																							
OREAS 223 (Fire Assay) Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
1078770 Orig														< 20	< 0.2	< 0.5	22	1320	< 1	474	< 2	17	1.32
1078770 Dup														< 20	< 0.2	< 0.5	22	1340	< 1	489	< 2	17	1.35
Method Blank														< 20	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.1	< 0.1	< 1	< 50	< 0.1	< 3	< 5	< 0.1	< 0.01	< 0.5	< 0.05	< 0.05	1.00										

Analyte Symbol	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	1	2
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	376	< 10	321	0.7	1370	0.74	6	6	22.8	< 10	2	0.03	< 10	0.12	0.049	0.039	0.20	75	1	163	< 0.01	15	< 2
GXR-1 Cert	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	13.0	0.390
GXR-4 Meas	97	< 10	61	1.3	14	0.85	14	55	2.94	10	< 1	1.68	49	1.43	0.129	0.114	1.74	3	6	66	0.12	< 1	< 2
GXR-4 Cert	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	0.970	3.20
GXR-6 Meas	262	< 10	893	0.9	< 2	0.14	14	85	5.57	20	< 1	1.19	11	0.37	0.073	0.033	0.02	3	23	28		< 1	< 2
GXR-6 Cert	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20
Ash AU Meas																							
Ash AU Cert																							
Ash AU Meas																							
Ash AU Cert																							
Ash AU Meas																							
Ash AU Cert																							
OREAS 223 (Fire Assay) Meas																							
OREAS 223 (Fire Assay) Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
OREAS 218 Meas																							
OREAS 218 Cert																							
1078770 Orig	616	< 10	27	< 0.5	< 2	7.41	55	1080	6.21	< 10	< 1	< 0.01	< 10	5.51	0.023	0.016	0.42	6	8	254	< 0.01	< 1	< 2
1078770 Dup	626	< 10	29	< 0.5	< 2	7.48	59	1100	6.33	< 10	< 1	< 0.01	< 10	5.60	0.025	0.017	0.43	6	9	262	< 0.01	< 1	< 2
Method Blank	< 2	< 10	10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	U	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppb
Lower Limit	10	1	10	1	1	5
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-AA
GXR-1 Meas	28	73	126	24	14	
GXR-1 Cert	34.9	80.0	164	32.0	38.0	
GXR-4 Meas	< 10	75	< 10	11	9	
GXR-4 Cert	6.20	87.0	30.8	14.0	186	
GXR-6 Meas	< 10	168	< 10	6	17	
GXR-6 Cert	1.54	186	1.90	14.0	110	
Ash AU Meas						
Ash AU Cert						
Ash AU Meas						
Ash AU Cert						
Ash AU Meas						
Ash AU Cert						
OREAS 223 (Fire Assay) Meas						1850
OREAS 223 (Fire Assay) Cert						1780
OREAS 218 Meas						565
OREAS 218 Cert						531
OREAS 218 Meas						562
OREAS 218 Cert						531
OREAS 218 Meas						543
OREAS 218 Cert						531
1078770 Orig	< 10	49	< 10	4	4	
1078770 Dup	< 10	50	< 10	4	4	
Method Blank	< 10	< 1	< 10	< 1	< 1	
Method Blank						< 5
Method Blank						< 5
Method Blank						< 5
Method Blank						< 5
Method Blank						< 5
Method Blank						



Date Submitted: 05-Sep-17
Invoice No.: A17-09578
Invoice Date: 25-Sep-17
Your Reference:

Doug Parker
365 Lark St
Thunder Bay ON P7B1P4
Canada

ATTN: Doug Parker

CERTIFICATE OF ANALYSIS

8 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-Tbay Au - Fire Assay AA (QOP Fire Assay Tbay)

Code 1E3-Tbay Aqua Regia ICP(AQUAGEO)

REPORT **A17-09578**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

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

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
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TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
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Results

Activation Laboratories Ltd.

Report: A17-09578

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1078788	629	0.4	< 0.5	20	1040	< 1	40	3	26	0.93	> 10000	< 10	120	< 0.5	< 2	4.94	20	48	5.34	< 10	< 1	0.43	< 10
1078789	196	< 0.2	< 0.5	12	1330	< 1	646	< 2	26	1.60	593	< 10	11	< 0.5	3	4.75	61	1210	6.99	< 10	< 1	< 0.01	< 10
1078790	566	< 0.2	< 0.5	5	380	3	32	29	5	0.10	156	< 10	11	< 0.5	< 2	0.04	5	68	1.83	< 10	< 1	0.01	< 10
1078791	6	< 0.2	< 0.5	68	526	< 1	142	< 2	79	4.58	14	< 10	20	< 0.5	< 2	0.02	36	598	12.2	10	< 1	0.01	< 10
1078792	9	< 0.2	< 0.5	106	876	< 1	90	< 2	59	2.46	3	< 10	18	< 0.5	< 2	2.03	38	214	5.64	10	< 1	0.01	< 10
1078793	68	< 0.2	< 0.5	49	1120	< 1	132	< 2	27	1.12	301	< 10	47	< 0.5	< 2	5.96	27	180	4.35	< 10	< 1	0.24	< 10
1078794	< 5	< 0.2	< 0.5	52	1440	< 1	386	< 2	58	4.63	20	< 10	< 10	< 0.5	< 2	4.61	46	776	8.31	10	4	< 0.01	< 10
1078795	1020	0.4	< 0.5	92	1060	< 1	399	123	78	1.16	2490	< 10	46	< 0.5	3	2.15	73	318	6.91	< 10	< 1	0.16	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
1078788	2.27	0.085	0.123	1.44	6	11	217	< 0.01	< 20	< 1	< 2	< 10	34	< 10	8	4
1078789	10.4	0.017	0.012	0.55	25	9	200	< 0.01	< 20	3	< 2	< 10	52	< 10	6	4
1078790	0.08	0.029	0.002	0.03	< 2	< 1	4	< 0.01	< 20	< 1	< 2	< 10	5	< 10	< 1	< 1
1078791	4.30	0.034	0.017	1.81	5	26	1	0.01	< 20	< 1	5	< 10	232	< 10	1	6
1078792	2.15	0.167	0.022	0.47	3	12	6	0.29	< 20	3	< 2	< 10	136	< 10	9	16
1078793	3.16	0.046	0.017	0.50	3	12	44	< 0.01	< 20	5	< 2	< 10	39	< 10	5	2
1078794	5.85	0.035	0.018	0.05	6	28	17	< 0.01	< 20	< 1	2	< 10	175	< 10	7	2
1078795	1.59	0.040	0.034	0.37	6	9	67	< 0.01	< 20	< 1	2	< 10	46	< 10	5	10

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		30.7	2.2	1170	775	13	29	598	691	0.35	397	< 10	469	0.8	1490	0.71	7	6	22.3	< 10	1	0.03	< 10
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50
GXR-4 Meas		3.9	< 0.5	6530	136	319	39	41	68	2.81	100	< 10	56	1.4	10	0.86	13	52	3.10	< 10	< 1	1.69	46
GXR-4 Cert		4.0	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5
GXR-6 Meas		0.4	< 0.5	75	1100	1	27	98	129	7.70	244	< 10	856	0.9	< 2	0.12	13	83	6.13	20	2	1.18	< 10
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9
SdAR-M2 (U.S.G.S.) Meas			5.3	251		14	46	847	860				140	5.4	< 2		13	9		< 10	2		44
SdAR-M2 (U.S.G.S.) Cert			5.1	236.00 00		13	49	808	760				990	6.6	1.05		12.4	49.6		17.6	1.44		46.6
OREAS 223 (Fire Assay) Meas	1740																						
OREAS 223 (Fire Assay) Cert	1780																						
OREAS 218 Meas	542																						
OREAS 218 Cert	531																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.13	0.053	0.043	0.21	85	< 1	170	< 0.01	< 20	11	< 2	29	73	144	25	13
GXR-1 Cert	0.217	0.0520	0.0650	0.257	122	1.58	275	0.036	2.44	13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	1.66	0.137	0.123	1.84	3	7	66	0.12	< 20	2	3	< 10	74	13	12	9
GXR-4 Cert	1.66	0.564	0.120	1.77	4.80	7.70	221	0.29	22.5	0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.44	0.085	0.034	0.01	4	19	26		< 20	< 1	7	< 10	172	< 10	5	8
GXR-6 Cert	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
SdAR-M2 (U.S.G.S.) Meas						2	22		< 20			< 10	18	< 10	20	7
SdAR-M2 (U.S.G.S.) Cert						4.1	144		14.2			2.53	25.2	2.8	32.7	259
OREAS 223 (Fire Assay) Meas																
OREAS 223 (Fire Assay) Cert																
OREAS 218 Meas																
OREAS 218 Cert																
Method Blank																
Method Blank																
Method Blank	< 0.01	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

APPENDIX IV

Sample Descriptions

NAD83						Humus						Alder					
Samp #	Waypoint	GPS Position	Altitude	Sample Type	Comments	Au ppb	As ppm	Cr ppm	Fe %	Ni ppm	Zn ppm	Au ppb	As ppm	Cr ppm	Fe %	Ni ppm	Zn ppm
						5	0.5	1	0.05	50	50	5	0.5	1	0.05	50	50
1338	1338	16 U 289539 5384994	431 m	Humus	Wet	7	12.6	94	3.32	< 50	240	36	5.6	9	0.14	< 50	< 50
1339	1339	16 U 289521 5385061	429 m	Humus	Wet	7	14.7	42	1.77	< 50	840	15	2.2	< 1	0.08	< 50	< 50
1340	1340	16 U 289524 5385083	434 m	Humus	Wet	< 5	21.6	86	3.6	< 50	150	33	3.4	3	0.12	< 50	1020
1341	1341	16 U 289525 5385105	437 m	Humus	Sand near o/c	24	513	182	5.73	< 50	200	52	3.8	7	0.1	< 50	570
1342	1342	16 U 288764 5385311	458 m	Humus	Wet	< 5	9.4	92	4.98	< 50	100	54	5.6	9	0.15	< 50	560
1343	1343	16 U 288765 5385337	461 m	Humus	Sandy	< 5	7	78	4.44	< 50	70	70	2.2	< 1	0.1	< 50	2850
1344	1344	16 U 288777 5385375	460 m	Humus	Sandy	477	1850	169	7	90	110	161	8.5	2	0.23	< 50	5580
1345	1345	16 U 288787 5385397	454 m	Humus	Sandy	1820	1090	233	6.38	130	160	32	3	< 1	0.14	< 50	660
1346	1346	16 U 288784 5385426	455 m	Humus	Sandy	< 5	18.7	101	5.51	120	70	22	3	< 1	0.1	< 50	280
1347	1347	16 U 288796 5385460	453 m	Humus	Sandy	< 5	5.1	67	4.14	< 50	120	45	2	< 1	0.11	< 50	340
1348	1348	16 U 288807 5385509	438 m	Humus	Clay?	< 5	6.6	441	5.6	< 50	90	16	2.2	2	< 0.05	< 50	390
1349	1349	16 U 288829 5385548	444 m	Humus	Wet	< 5	8.1	37	1.7	< 50	90	26	1.8	< 1	0.09	< 50	1160
1350	1350	16 U 288845 5385592	444 m	Humus	Clay?	< 5	13.1	38	1.66	< 50	90	595	2.6	< 1	0.14	< 50	360
1351	1351	16 U 288856 5385641	422 m	Humus	Clay?	< 5	6.8	21	1.38	50	70	43	2.6	< 1	< 0.05	< 50	1240
1352	1352	16 U 288864 5385695	420 m	Humus	Clay?	< 5	6.7	26	1.73	< 50	< 50	14	3.4	6	0.09	< 50	1120
1353	1353	16 U 288799 5385490	436 m	Humus	Clay?	< 5	8.2	37	1.83	< 50	80	40	22.9	6	< 0.05	< 50	13000
1354	1354	16 U 288902 5385437	434 m	Humus	Clay?	< 5	9.3	33	1.78	< 50	50	43	6	7	< 0.05	< 50	3400
1355	1355	16 U 289001 5385406	438 m	Humus	Clay?	< 5	6.1	40	1.97	< 50	< 50	49	4.6	< 1	< 0.05	< 50	1790
1356	1356	16 U 289096 5385377	443 m	Humus	Clay?	< 5	4.2	39	1.81	< 50	< 50	31	6	< 1	< 0.05	< 50	590
1357	1357	16 U 289210 5385355	451 m	Humus	Clay?	< 5	6.2	38	1.73	< 50	70	26	5.2	< 1	0.07	< 50	1360
1358	1358	16 U 289298 5385336	450 m	Humus	Clay?	< 5	5.3	24	1.35	< 50	60	63	3.7	< 1	0.11	< 50	2930
1359	1359	16 U 289406 5385325	446 m	Humus	Clay?	< 5	5.9	5	1.53	< 50	< 50	26	3.2	< 1	< 0.05	< 50	2880
1360	1360	16 U 289518 5385376	453 m	Humus	Sand with Clay	68	85.5	56	3.43	< 50	< 50	< 5	4	< 1	< 0.05	< 50	1700
1361	1361	16 U 289515 5385339	446 m	Humus	Sand with Clay	< 5	3.8	26	1.72	< 50	< 50	29	6.9	< 1	0.12	< 50	7440
1362	1362	16 U 289517 5385292	441 m	Humus	Clay	< 5	5.6	18	1.14	< 50	< 50	73	6.4	< 1	< 0.05	< 50	680
1363	1363	16 U 289523 5385267	440 m	Humus	Clay	< 5	4.9	19	1.18	< 50	< 50	43	6.4	< 1	< 0.05	< 50	750
1364	1364	16 U 289520 5385233	441 m	Humus	Sand near o/c	8	15.1	31	1.48	< 50	< 50	54	2.6	< 1	0.11	< 50	< 50
1365	1365	16 U 289505 5385157	449 m	Humus	Sand near o/c	5	8.8	24	1.16	< 50	120	16	2.7	< 1	< 0.05	< 50	< 50
1370	1370	16 U 288838 5385618	428 m	Humus	Clay	< 5	6.5	75	4.5	< 50	70	24	6.3	2	0.13	< 50	450
1371	1371	16 U 288821 5385589	427 m	Humus	Clay	< 5	8.5	75	4.9	< 50	160	108	5.2	< 1	0.16	< 50	600
1372	1372	16 U 288846 5385567	425 m	Humus	Clay	< 5	9.7	69	4.2	< 50	< 50	47	5.8	2	0.11	< 50	990
1373	1373	16 U 288870 5385586	424 m	Humus	Clay	< 5	7.3	80	4.35	< 50	170	39	10.1	< 1	0.18	< 50	1020
1374	1374	16 U 288905 5385364	457 m	Humus	Clay	8	25	95	5.61	< 50	< 50	20	2.7	< 1	< 0.05	< 50	450
1375	1375	16 U 288938 5385378	449 m	Humus	Clay	36	56.8	92	6.14	< 50	< 50	33	7.5	< 1	0.23	< 50	1320
1376	1376	16 U 288876 5385377	453 m	Humus	Clay?	432	1300	159	7.03	< 50	120	97	7.7	< 1	0.18	< 50	2070
1377	1377	16 U 288835 5385410	457 m	Humus	Clay?	< 5	82.7	77	4.16	< 50	50	21	4.5	3	0.2	< 50	690
1378	1378	16 U 288901 5385519	435 m	Humus	Clay	< 5	4.5	79	4.56	< 50	< 50	41	6.1	< 1	0.23	< 50	6530
1385	1385	16 U 289084 5385453	444 m	Humus	Clay	< 5	4.2	85	6.28	< 50	130	82	3.5	< 1	0.16	< 50	2020
1386	1386	16 U 289151 5385303	448 m	Humus	Clay	< 5	4.9	86	5.62	< 50	< 50	66	3.8	< 1	0.23	< 50	1820
1387	1387	16 U 289352 5385248	445 m	Humus	Clay	< 5	8.9	80	4.77	< 50	80	86	4.5	< 1	0.16	< 50	2710
1388	1388	16 U 289292 5385412	455 m	Humus	Sand near o/c	23	66.3	85	4.26	< 50	200	57	2.7	< 1	0.12	< 50	620
1389	1389	16 U 289440 5385391	457 m	Humus	Clay	< 5	6.7	72	4.34	< 50	60	54	3.8	< 1	0.16	< 50	1000

UTM								Analyte Sym	Au
NAD83								Unit Symbol	ppb
								Detection Li	5
Samp #	Waypoint	GPS Position	Improved Relative Position	Altitude	Sample Type	Sample Length	<i>Mono or multi-lithic, colour, grain size, primary mineralogy, textures, bedding, structure, magnetic Alteration, intensity, minerals (sericite (fu), silicic, biotite, chlorite, ankerite, calcite, etc.) str, vn, stwk, fract Mineralization, intensity, minerals (VG, py, asp, po, cp, gp, Fe-oxide etc.)</i>	Analysis Me	FA-AA
1078729	fu	16 U 289443 5385256		447 m	RG		Altered Volcanic, tr pyrite, ankerite+++, fuchsite+, 5% quartz stringers, fine grained black mineral on fractures, non-magnetic	1078729	553
1078730	Roadside Carb		289564 5385145	436 m	SG		Altered Volcanic, 3-5% pyrite+arsenopyrite, ankerite+++, fuchsite, 20% quartz stringers, fine grained black mineral on fractures, minor disseminated calcite, non-magnetic, local float	1078730	3260
1078731	Roadside Carb		289564 5385145	436 m	SG		Altered Volcanic, 3-5% pyrite+arsenopyrite, ankerite+++, fuchsite, 50% quartz stringers, fine grained black mineral on fractures, minor disseminated calcite, non-magnetic, local float	1078731	669
1078732	1251 16 U 288795 5385371			462 m	SG		quartz vein, 2-3% gray metallic mineral as subrounded blebs, local float at old pit	1078732	455
1078733	1277 16 U 288806 5385363			454 m	RCG	1m	Chert + Argillite + Volcanic Breccia, rusty, 25% pyrite as nodules up to 4cm, minor disseminated calcite, non-magnetic, 3m south of main sulphide zone	1078733	9930
1078734	1278 16 U 288798 5385368			454 m	RCG	3m	Chert + Argillite + Volcanic Breccia, rusty, 5% pyrite as nodules and disseminated, minor disseminated arsenopyrite, fuchsite, minor disseminated calcite, non-magnetic, Main Zone	1078734	2110
1078735	1279 16 U 288798 5385369			454 m	RC	3m	Chert + Argillite + Volcanic Breccia, rusty, 5% pyrite as nodules and disseminated, minor disseminated arsenopyrite, fuchsite, minor disseminated calcite, non-magnetic, chip at west side of trench Main Zone	1078735	2590
1078736	1280 16 U 288799 5385374		288798 5385372	453 m	RCG	0.5m	2.5m north of Main Zone, QV 0.5m 090-vert, rusty fractures	1078736	58
1078737	1281 16 U 288795 5385377			452 m	RCG	3m	Altered Volcanic, 2-3% pyrite+arsenopyrite, ankerite+++, fuchsite, 10% quartz stringers, non-magnetic, 5m north of 1280	1078737	65
1078738	1282 16 U 288795 5385382			452 m	RCG	1m	Shear Zone 0.5-1.5m, 110-90, south contact of 1281, Altered Volcanic, minor pyrite+arsenopyrite, ankerite+++, fuchsite, 10% quartz stringers, non-magnetic	1078738	15700
1078739	1308 16 U 288838 5385386			456 m	RCG	3m	Altered Volcanic, ankerite+ increasing to south, trace pyrite, non-magnetic, north end trench	1078739	96
1078740	1309 16 U 288837 5385381			452 m	RCG	3.5m	Altered Volcanic, ankerite+++, fuchsite+, 2% pyrite+arsenopyrite, 20% quartz stringers 090-90, non-magnetic	1078740	66
1078741	1310 16 U 288840 5385378			460 m	RCG	5m	Altered Volcanic, ankerite+++, fuchsite+, 2% pyrite+arsenopyrite, non-magnetic	1078741	18
1078742	1311 16 U 288841 5385374			456 m	RCG	4m	Altered Volcanic, ankerite++, fuchsite, trace pyrite local moderately magnetic	1078742	51
1078743	1312 16 U 288842 5385374			453 m	RCG	3m	Chert + Argillite + Volcanic Breccia, rusty, 10-15% pyrite+arsenopyrite, non-magnetic	1078743	376
1078744	1313 16 U 288842 5385372			454 m	SG		Semi-massive Sulphides, 0.5m wide, at 1312	1078744	2360
1078745	1314 16 U 288846 5385366			455 m	RCG	5m	Altered Volcanic, ankerite+, minor quartz stringers, minor shearing 090-90, non-magnetic, south end trench	1078745	46
1078746	1315 16 U 288751 5385382		288750 5385381	455 m	RCG	2m	Chert, rusty, 2-3% pyrite + arsenopyrite, 10% quartz stringers, non-magnetic, north end trench, sampling is continuous to 1320	1078746	2840
1078747	1316 16 U 288753 5385382		288750 5385379	455 m	RCG	2m	Chert + Altered Volcanic, sulphide zone, 5-7% pyrite+arsenopyrite, non-magnetic	1078747	2730
1078748	1317 16 U 288753 5385380		288750 5385377	457 m	RCG	2m	Chert + Altered Volcanic, sulphide zone, 5-7% pyrite+arsenopyrite, 5% quartz stringers, non-magnetic	1078748	1710
1078749	1318 16 U 288751 5385378		288750 5385375	458 m	RCG	2m	Altered Volcanic, ankerite++, sulphide zone, 3-5% pyrite+arsenopyrite, non-magnetic	1078749	698
1078750	1319 16 U 288751 5385376		288750 5385373	460 m	RCG	2m	Altered Volcanic, ankerite+, minor rusty shears 090-90, 2-3% pyrite+arsenopyrite, non-magnetic	1078750	98
1078751	1320 16 U 288753 5385373		288750 5385371	460 m	RCG	2m	Altered Volcanic, ankerite+, minor gp Argillite, rusty, fractured 1-2% pyrite+arsenopyrite, non-magnetic	1078751	42
1078752	1321 16 U 288889 5385197			468 m	RCG	2m	Gabbro?, ankerite+, 5% quartz stringers, fractured 070-90, non-magnetic 6x3 strip on powerline	1078752	82
1078753	1322 16 U 289558 5385136		289558 5385136	433 m	RCG	4m	Altered Volcanic, ankerite+++, 1-2% pyrite+arsenopyrite, minor quartz stringers, non-magnetic, north end trench, continuous sampling to 1328	1078753	75
1078754	1323 16 U 289555 5385130		289559 5385132	433 m	SG		Chert + Argillite, rusty fractures, minor disseminated calcite, non-magnetic in 1324	1078754	< 5
1078755	1324 16 U 289556 5385131		289559 5385132	434 m	RCG	4m	Chert + Argillite Breccia? In Altered Volcanic, ankerite+++, 5-7% pyrite+arsenopyrite, 10% quartz stringers, non-magnetic	1078755	684
1078756	1325 16 U 289557 5385127		289559 5385128	435 m	RCG	4m	Altered Volcanic, ankerite+++, fuchsite++, trace pyrite, 10% quartz stringers, non-magnetic	1078756	135
1078757	1326 16 U 289556 5385124		289558 5385124	434 m	RCG	4m	Altered Volcanic, ankerite++, fuchsite+, 2-3% pyrite+arsenopyrite, minor quartz stringers, non-magnetic	1078757	86
1078758	1327 16 U 289557 5385118		289558 5385120	434 m	RCG	4m	Altered Volcanic, ankerite++, trace pyrite, minor quartz stringers, minor disseminated calcite, non-magnetic	1078758	12
1078759	1328 16 U 289556 5385118		289557 5385116	435 m	RCG	4m	Altered Volcanic, ankerite+, trace py, 10% quartz stringers, non-magnetic	1078759	56
1078760	1329 16 U 289506 5385373			451 m	RCG	5m	Altered Volcanic, ankerite+ increasing to south, fuchsite, trace pyrite, non-magnetic, north end of trench, continuous sampling to 1337	1078760	14
1078761	1330 16 U 289507 5385371			453 m	RCG	5m	Altered Volcanic, ankerite++, trace pyrite, 10% quartz stringers, non-magnetic	1078761	41
1078762	1331 16 U 289507 5385365			449 m	RCG	5m	Altered Volcanic, ankerite++, fuchsite, 1-2% pyrite, 10% quartz stringers, minor disseminated calcite, non-magnetic	1078762	323

1078763	1332	16 U 289508 5385363	451 m	RCG	5m	Altered Volcanic, ankerite++, fuchsite, minor pyrite, 10% quartz stringers, minor disseminated calcite, non-magnetic	1078763	50
1078764	1333	16 U 289508 5385356	452 m	RCG	5m	Altered Volcanic, ankerite+++, fuchsite, minor pyrite, 10% quartz stringers, non-magnetic	1078764	166
1078765	1334	16 U 289507 5385353	447 m	RCG	5m	Altered Volcanic, ankerite++, fuchsite, minor py, 10% quartz stringers, minor disseminated calcite, non-magnetic	1078765	122
1078766	1335	16 U 289503 5385348	451 m	RCG	5m	Altered Volcanic, ankerite++, non-magnetic	1078766	77
1078767	1336	16 U 289508 5385340	449 m	RCG	5m	Altered Volcanic, ankerite+++, 15% quartz stringers, minor disseminated calcite, non-magnetic	1078767	318
1078768	1337	16 U 289508 5385339	446 m	RCG	1m	Altered Volcanic, ankerite+++, fuchsite, 2-3% pyrite+arsenopyrite, rusty, highly sheared and deeply weathered, non-magnetic, south end of trench	1078768	279
1078769	1315	16 U 288751 5385382	455 m	SG		Chert Sulphide Zone, 30% pyrite + arsenopyrite in cherty quartz matrix.	1078769	3330
1078770	1366	16 U 289546 5385204	441 m	RCG		Altered Volcanic, Ankerite++, minor fuchsite, trace pyrite, 10% quartz stringers. Rubble.	1078770	265
1078771	1367	16 U 289511 5385341	443 m	SG		Altered Volcanic, sheared, ankerite++, minor fuchsite, 5-7% pyrite and arsenopyrite. (shear at s-end of tr?)	1078771	834
1078772	1368	16 U 289421 5385085	433 m	RCG		Altered Volcanic, ankerite++, minor fuchsite, 1% pyrite and arsenopyrite, 10% quartz stringers. Rubble	1078772	28
1078773	1368	16 U 289421 5385085	433 m	RCG		Graphitic Chert Argillite, rusty, trace pyrite, minor quartz stringers. Rubble.	1078773	240
1078774		16 U 289520 5385264	435 m	SG		Altered Volcanic, ankerite++, minor fuchsite, 2-3% pyrite + arsenopyrite, minor quartz stringers. Rubble from south end dozer cut.	1078774	255
1078775		16 U 289520 5385264	435 m	SG		Quartz Vein, white, minor rust. Rubble from south end dozer cut.	1078775	119
1078776		16 U 289520 5385264	435 m	SG		Altered Volcanic, ankerite++, minor fuchsite. Rubble from south end dozer cut.	1078776	62
1078777		16 U 289292 5385412	455 m	RCG		Altered Volcanic, ankerite++, minor fuchsite, trace pyrite + arsenopyrite, minor quartz stringers.	1078777	18
1078788	1466	16 U 289513 5385414	450 m	RCG		Altered Volcanic, ankerite++, fuchsite, qs minor, 2-3% vfg pyrite + arsenopyrite, non-magnetic	1078788	629
1078789	1467	16 U 288792 5385380	288795 5385382	459 m	SG	At 1078738 Altered Volcanic, sheared, ankerite ++, silicified+, 3-5% pyrite + arsenopyrite (fg-cg), dense. Sample is typical of sheared volcanic in zone 0.5-1.5m wide	1078789	196
1078790	1467	16 U 288792 5385380	288795 5385382	459 m	SG	At 1078738 Quartz Stringers only from shear above. About 10% of shear, white, massive, trace sulphide, ankerite in wall rock.	1078790	566
1078791	1468	16 U 288807 5385356	288809 5385355	455 m	RCG	0.3m Graphitic Sulphidic Argillite, 7-10% pyrite disseminated and nodules, rusty. 135-90	1078791	6
1078792	1469	16 U 288835 5385336	458 m	RCG		Mafic Volcanic? Gray, fine grained, massive, 2-3% fg pyritedisseminated and on rusty fractures, weak to moderate calcite.	1078792	9
1078793	1470	16 U 288820 5385350	457 m	RCG	0.5-2.0m	Altered Volcanic, ankerite+, 1% pyrite and arsenopyrite, 10% quartz stringers, north side of shear 050-90	1078793	68
1078794	1471	16 U 288823 5385347	460 m	RCG		Mafic Volcanic? Gray, fine grained, massive, possible spinifex, weak to moderate calcite, north side of shear 050-90.	1078794	< 5
1078795	1472	16 U 288804 5385365	457 m	RCG	3m	Graphitic Sulphidic Argillite, 5-7% pyrite+arsenopyrite, 10% quartz stringers, rusty. 6m east of 1078735.	1078795	1020

RCG = Representative Composite Grab
RG = Representative Grab
SG = Selective Grab
RC = Representative Chip