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PROSPECTING REPORT
ON THE
WHIRLWIND JACK PROPERTY

Dedee, Faulkenham Lake,
Medicine Stone, & Rainfall Lakes Areas
NTS 52K13E,F, & 52L16A,B,G,H
439800E 5639000N
Approx.. 50^0 53’ 58” N 93^0 51’ 22” W
UTM NAD 83 Zone 15N
Red Lake District
North-west Ontario

-Prepared for-

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18.02.20

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SUMMARY

From the 23rd September to the 3rd October, 2019. T. Hughes and M. Long, geologists, prospected Red Lake Gold Inc.'s Whirlwind Jack property. Located approximately 11 km south south-west of Red Lake, Ontario, it comprises 1042 single cell mining claims, in the Dedee Lake, Rainbow Lake, Medicine Stone Lake and Faulkenham Lake Administrative areas, north-western Ontario. Access off Highway 105 is afforded by a trail leading West and south-west from a vehicle park at Highway 105 and Bug Lake creek, and ultimately to the North tip of a lake in the north-east of the claim block. Unmaintained old logging roads off the Dixie Lake haul road, located just South of Highway 105 and Stone Lake, provide access to south-eastern areas. Central and western areas of the property can be reached by float plane onto a number of lakes. A cabin, owned by Medicine Stone Lodge situated at the East end of Bug Lake, provided lodging and boats for access in the area, including onto Alcock, Lower Bug, Clear, and Insect lakes.

Far western areas may also be accessed by float plane, flying into Rainfall, Longlegged and Dedee lakes.

Prospecting work covered an assessment of lithology, stratigraphy, terrain and cover to determine the viability of a more extensive and comprehensive mapping and geochemical sampling programme. Traverses used handheld GPS for navigation. A total of 28 samples were taken, with all analysed for Au and a multi-element (ICP) package. The majority of samples returned less than 5 ppb Au, with one returning 24 ppb Au. All samples were representative grabs of the local lithology, taken with rock hammers. The UTM system used for location recording was NAD 83, Zone 15N.

The report provides traverse routes in tabulated and digital/visual format, with pertinent notes on lithology, terrain, and natural vegetation.

A programme of geochemical soil sampling and airborne magnetic surveying is recommended, with budget included. Follow-up ground work should be completed, prior to diamond drilling. Recommended is cross-property prospecting, detailed mapping and lithological sampling over areas defined by a broader soil geochemical programme. In areas with a suitable geophysical signature and significant cover, IP surveys should be considered.

1.0 INTRODUCTION

The Whirlwind Jack property is located 10 km South of Red Lake, Thunder Bay Mining Division, north-west Ontario. The property, with property epicentre at UTM Zone 15N NAD83, co-ordinates 439800E 5639000N, comprises a contiguous claim block of 1042 single cell mining claims.

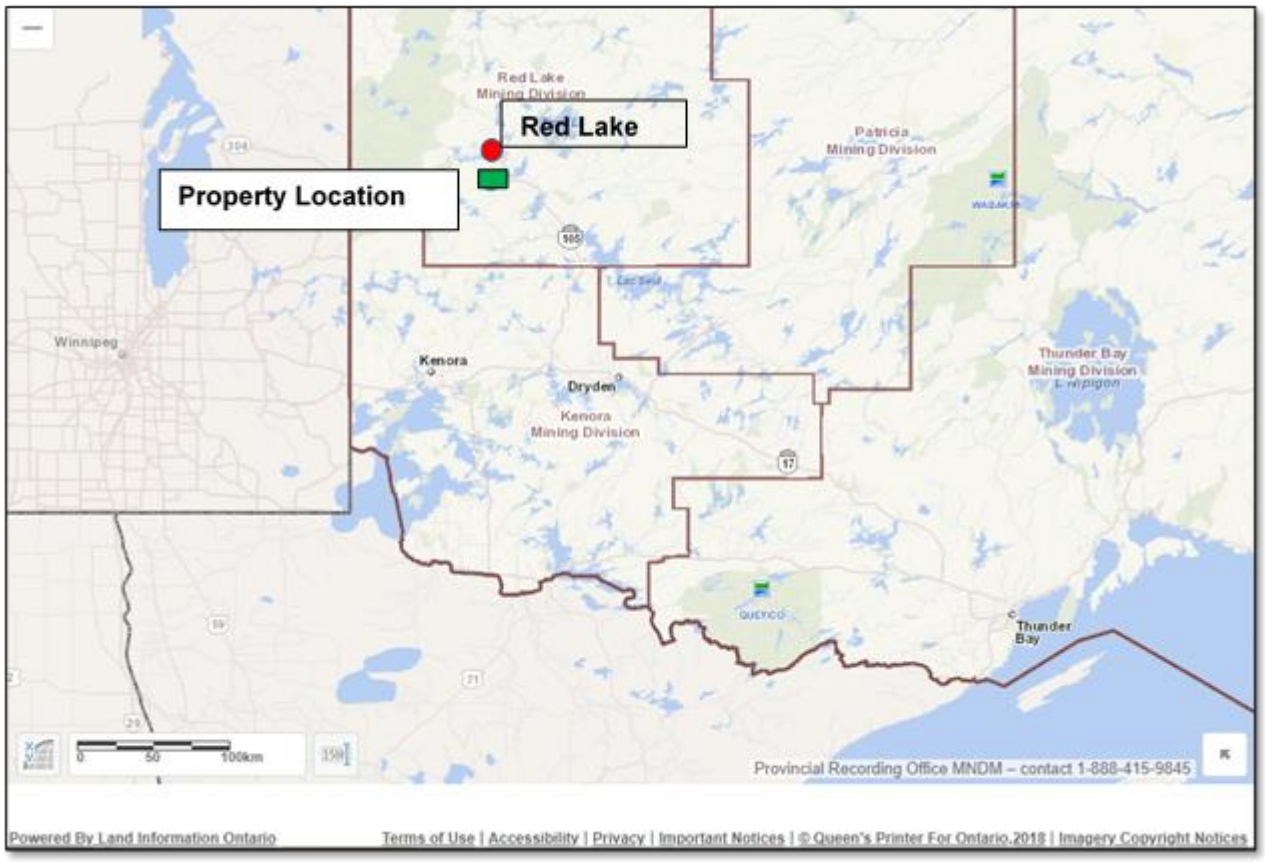
From 23rd September to 3rd October, a programme of prospecting and sampling was completed on the Whirlwind Jack property. This programme forms the basis of this report.

2.0 PROPERTY DETAILS

2.1 Location & Access

The claims are located 10 km. South of the Town of Red Lake, within the Red Lake Mining Division, (Fig. 1), property epicentre at UTM Zone 15N NAD83 co-ordinates 15439800E 5639000N, NTS map sheet 52K/13.

Figure 1 Property Location



Access is afforded by float-plane to several lakes on the property, with ground access by trails or cross-country to northern and eastern portions of the block, and vehicle access to the south-east portion of the block using the Dixie Lake road, off Highway 105.

The majority of the property can be accessed by boat with several portages providing access between several of the larger bodies of water. Creeks are generally shallow, providing limited navigation. The author did note several skidoo trails in the area under investigation, but their overall suitability is unknown.

Red Lake provides a small range of services, skilled labour, supplies and accommodations, with the regional centres of Thunder Bay and Winnipeg providing more comprehensive technical and logistical support and sources of equipment and labour.

2.2 Topography & Vegetation

The terrain is fairly typical for the Pre-Cambrian of north-west Ontario, with low rolling hills and swamp/marsh. Property elevation ranges from 388 to 435 metres above sea level ('asl'). Natural vegetation has been dramatically modified by logging, dating back nearly 100 years, periodic fires (notably the Red Lake fire of 1980), several infestations resulting in near complete loss of mature balsam, and more recently jackpine budworm. Storms and associated microbursts have caused local, significant blow down. Hill tops are generally clearer, with relict jackpine predominant; otherwise, the area now supports a mixed bush of spruce, poplar, pine, birch and alders with almost no old growth remaining.

The climate is classified as boreal, (Dfc under the Koppen classification system). Red Lake climate data (eldoradoweather.com), indicates minimum and maximum daily average temperatures of, respectively, -19.6^{o} C. and 18.1^{o} C, maximum average snow depths of 33.4 cm (January) and maximum rainfall of 87.3 mm (June).

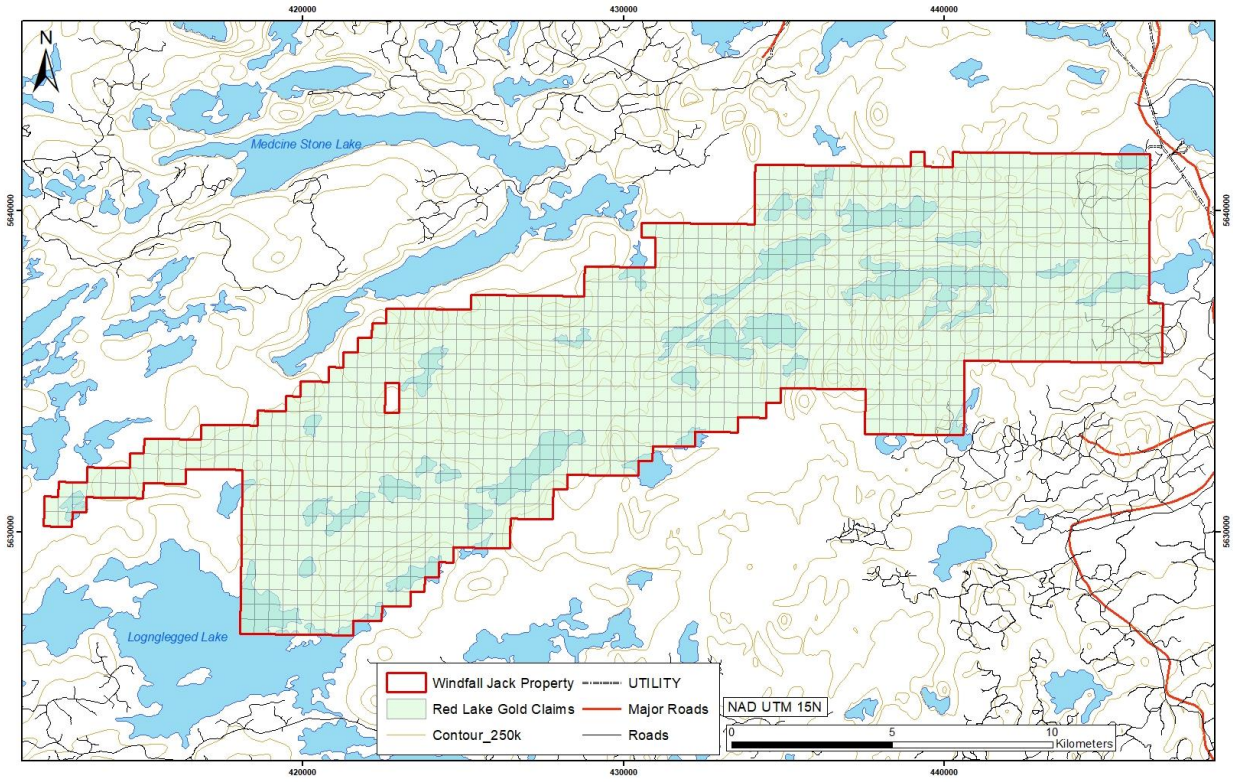
2.3 Claim Status

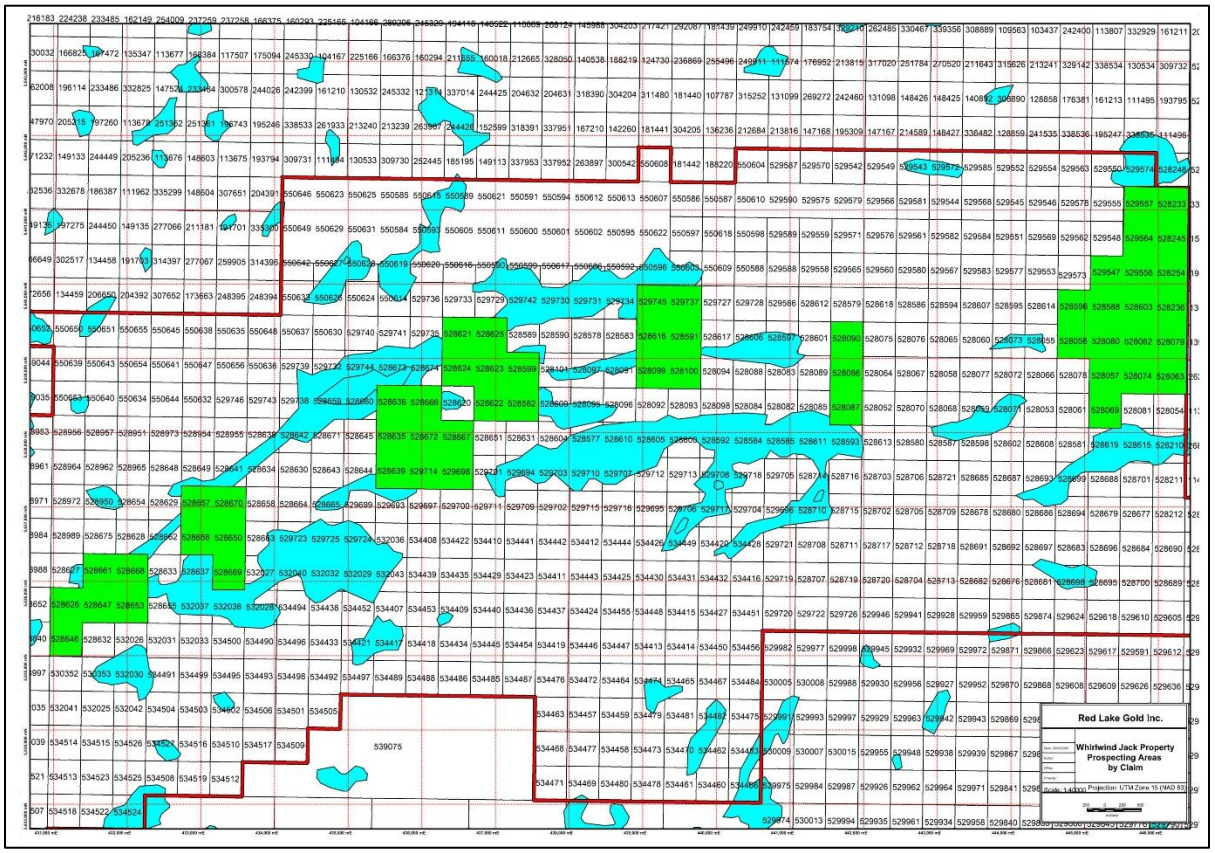
The property comprises a total of 1042 active Single Cell Mining claims, with Red Lake Gold Inc. the registered holder (100%).

The claims are located in the Dedee Lake, Rainbow Lake, Medicine Stone Lake and Faulkenham Lake Administrative areas, of North-west Ontario. See overleaf, fig. 2

Due to the large number of claims, additional claim information is provided as a separate (excel) file, 'RGLD Claim List'.

Figures 2a,b Whirlwind Jack property with prospected/traversed claims





3.0 HISTORY

1973 Selco Mining Division in partnership with Cochenour Willans Gold Mines and Coin Lake Gold Mines, carried out reconnaissance and grid mapping in the Longlegged-Rainfall lakes area in the south-west of the Whirlwind Jack claims, this as part of several programmes executed in their *Sydney Lake Project*. A number of sequences of open to tight folded ortho-, paragneiss, iron formation, amphibolite and pyroxenite, granite gneiss, granite, diorite and migmatite were mapped. Minor, poorly documented pyrite, pyrrhotite, magnetite and molybdenite mineralisation was noted. A single, ?-X-ray drill hole, L73-7-1, was shown on Claim Group 7, East of Rainfall Creek, between the two major expanses of Longlegged Lake, (and West of Dedee Lake), but the report provides no other information. The drill hole appears to have targeted pyrite-pyrrhotite mineralised amphibolite (gneiss).

1973 Selco Mining Division (Cochenour – Coin – Selco) drilled six holes for a total of 923 feet, as follows:

Group 3	LL-73-3-1	122 feet
Group 3	LL-3-73-2	172 feet
Group 5	LL-5-73-1	174 feet
Group 7	LL7-73-1	174 feet
Group 10	LL-10-73-1	175 feet
Group 11	LL-11-73-1	106 feet

Varying amounts of weak, trace to stringer pyrrhotite-pyrite were intersected, usually within amphibolite gneiss. Very minor sampling was reported, but no assays.

1974 Selco Mining Division (Cochenour – Coin – Selco) drilled two holes, numbers LL -2 -74 -1 and -2, on Longlegged Lake Group 2, claim KRL 357253. Hole 1 was drilled to a depth of 347 feet, hole 2, 209 feet. Pyrite, pyrrhotite, trace chalcopyrite and magnetite mineralisation were intersected in amphibolite (orthogneiss). No assays were reported. Another hole was drilled LL-4-74-1 on Group 4 claim, (KRL 357057), this to a depth of 279 feet. Disseminated and 'blebby' pyrrhotite and trace pyrite in paragneiss was intersected but no assays reported.

A single hole, LL-9-74-1 on Group 9 was drilled to a depth of 353 feet. Apparently, it tested a conductor, described as 30-40% mainly pyrrhotite, minor pyrite and occasional chalcopyrite over 0.7 feet. Sampled, no assays were reported from the hole which intersected paragneiss throughout.

A single hole, 128-foot hole, LL-17-74-1, was drilled on their Group 17 Block. Amphibolite gneiss, pegmatite, mylonite and feldspar-biotite gneiss were intersected. Results were not reported. The location was reported as Insect Lake, but no map was provided in the file. The Google Earth MNDM drill hole database has no location nearby, and the claim block is shown 1.2 km to the South. It appears the hole targeted a MaxMin EM anomaly.

1976 Selco conducted geophysical surveying on their Block 150 – 6, Dixie Lake area, located in the south-west quadrant of claim sheet M-2146, Faulkenham Lake. The Block covers ground immediately South of Bug Lake, extending East to the East end of Lower Bug Lake, and as far

South as the North shore of Clear Lake. A Geonics E.M. 17 horizontal loop unit with 400 ft coil separation using a frequency of 1600 cps (cycles per second), and a McPhar M-700 magnetometer were used. Several conductive zones were noted, with one considered to be caused by a bedrock conductor, and recommended for drilling. This conductor, trending around 080°, appears to be partially co-incident with anomalous MMI results and siliceous pyritic float later recorded by Precambrian Ventures (see below).

Similar geophysical surveying was completed on their 150 – 5 claim block, located in the south-east quadrant of the same map sheet. One strong in-phase anomaly with a very high direct magnetic correlation was noted on lines 1200W and 1600W, at approximately 300 ft. North. It was suggested it represents a (magnetic) iron formation, and a recommendation was made to drill this feature. Some ground investigations indicate the conductor may lie near a dacite-mafic volcanic contact. The grid is located immediately South of an elongate East-West wider portion the Bug Lake river, with access by a cut trail from Stone Lake, approximately 1 km to the south-east. Other grids were cut, 150 – 10, 150-11 with similar surveying thereon. Block 150 – 11 is located less than 400 metres South of an irregular isosceles triangular shaped (North-South) lake, a little over 1.2 km North of the West end of Stone Lake, and over 400 metres East of Block 150 – 5. An East-West trending conductive response was recorded, but a bedrock source could not be determined. Access was afforded by a cut trail North of Stone Lake, and a series of old logging roads leading West off Highway 105 at Stone Lake.

Block 150 – 10 is located just North of the Whirlwind Jack property.

1985 Aerodat Limited, on behalf of **Golden Terrace Resources,** flew a combined helicopter-borne magnetic and VLF-EM survey in the Dixie Lake Area. The survey covered an area from Bug Lake in the West, eastwards across Clear and Stone Lakes, North of Genessee Lake and over to Tote Road Lake, north-west of Pakwash Lake, West of Highway 105.

A series of 'lenticular' magnetic high features were outlined, and 13, possibly 14 conductors identified. These magnetic trends run along the 'long axes' of the west and centre blocks, with smaller and broader features considered to be late-stage intrusions.

1990 Noranda Exploration Co. Ltd. Staked 28 claims to cover a weak airborne EM-magnetic feature and carried out a geological survey. The area is located between Genessee and Pakwash lakes on what is currently the easternmost portion of the Whirlwind Jack property, extending eastwards.

The company mapped an east-west striking sequence of mafic and felsic volcanic rocks flanked to the North and South by felsic plutons. Massive and pillowed flows were mapped, plus flow-banded rhyolite and tuff. Metamorphic grade is amphibolite, with moderately well-defined gneissic texture developed. Several felsic dykes of granite, aplite and feldspar porphyry were reported to cut this sequence, and 'weak shearing' noted at several locales. The EM conductor was concluded to be co-incident with the felsic-mafic volcanic contact and a soil geochemical survey was recommended. No lithological sampling was reported.

1995 Inco Exploration and Technical Services Inc. conducted a multi-disciplinary exploration programme on their Loydex Resources Inc. option, aka Bug River property. The property was located immediately North of what is now the far north-east corner of the Whirlwind Jack claims, with a small overlap to the South.

The property covered a "newly discovered intense hydrothermal alteration zone within quartz phyric felsic volcanics. The alteration is spatially associated with a zone of massive pyrrhotite-pyrite." (From the Inco report). Gridding, geological mapping, geophysical surveys (magnetometer and EM-57), and diamond drilling were carried out, but results were negative, with the sulphide zone hosting no (appreciable) copper and zinc. The option was dropped, however, there is no mention of the gold potential. The single drill hole, number 79841 was drilled less than 250 metres from Bug River, West of the Highway and the exit of the river into Gullrock Lake. The log reports no massive sulphides, only minor pyrite in felsic volcanic rocks, ICP analyses but no gold assays. The report also shows two Noramco diamond drill holes numbers NB-88-09 and -10 located respectively, approximately 250 and 725 metres North and north-west, of Bug River. Inco analyses included re-sampling of some of the Noramco core. All reported drilling was North of the Whirlwind Jack property.

1998 Noranda Exploration Co. Ltd. Continued work on their Bug River Project, with geological mapping, diamond drilling and borehole TEM ('Transient electromagnetic) Surveying. The property essentially covered the Loydex option, though extending farther South onto what is now the north-eastern corner of the Whirlwind Jack property. The first phase focussed on sulphide mineralisation associated with iron formation, culminating with the drilling of two holes, BR98-1, and 98-2, the former intersecting said mineralisation, this on the Bug Lake West Grid, North of Bug River. The company considered the property to cover the western strike extension of the Dixie area felsic volcanic sequence, Dixie 17,18 and 19 and Joy Copper-Zinc occurrences in the Birch-Uchi greenstone belt.

The Phase II drilling comprised the completion of eight holes, BR98-2 to 98-10, for a total of 2,330 metres, intersecting a volcanic sequence of massive to pillowed mafic flows and massive to porphyritic intermediate to felsic volcanic, mainly pyroclastic rocks. Mineralised, often stringer pyrrhotite-pyrite quartz-sericite schist, magnetic mafic intrusion, and minor narrow massive to semi-massive sulphides were intersected in several holes. Five holes, numbers 1,2,3,4 and 7 were surveyed with a borehole Pulse TEM system. The poor base metal and precious metal (gold and silver results), and weak EM responses prompted the company to drop the option.

2004 Grandcru Resources Corporation performed magnetic surveying and 32.7 line km of Horizontal Loop E.M. ('HLEM') surveys on their Clear Lake property, Faulkenham Lake area. The magnetic survey defined a "group of more or less linear, discontinuous anomalies that co-incide, on a gross scale with the conductive trend that crosses the grid. The strongest of these anomalies has a peak amplitude of 2500 nT. This trend, shown on figure 11, lies close to the volcanic-sedimentary contact as mapped by Thurston & Paktunc (1985). To the South of this trend/contact, within the volcanic terrain, the magnetic pattern is quite flat, with a few isolated magnetic highs with amplitudes up to 1000 nT.

“In the area underlain by metasediments north of the conductive/magnetic trend, the magnetic pattern is much more active. There are numerous erratically distributed magnetic highs, a few of that are linear and are presumed to be caused by formational units. The number and intensity of these anomalies increase progressively from east to west.

“In the northwest comer of the grid, presumed to be underlain by granodiorite, the magnetic pattern is again quite flat.

“The horizontal loop survey shows four separate conductors, which line up to form a more or less continuous trend along the volcanic-sedimentary contact. There is a possible structural disruption in the vicinity of line 700W, where the magnetic-conductive trend may be offset by 100 to 150 metres.

“Conductor A is 950 metres long, and is mostly narrow, with a section up to 60 metres wide between lines 1200W and 1500W. Apparent conductance is between 2 and 27 siemens. There is an irregular magnetic response, with alternating highs and lows, suggestive of concentrations of pyrrhotite.

“Conductor B is 200 metres long and up to 25 metres wide, with apparent conductance of up to 23 siemens. The magnetic response again features highs and lows.

“Conductor Cis 150 metres long and is up to 15 metres wide, with much lower conductance, up to6 siemens. It has no magnetic association.

“Conductor D has been traced for 1400 metres, and extends beyond the east end of the grid. It is very weak, and conductance calculations derived from in-phase/quadrature ratios would suggest a moderately good conductor at considerable depth, which would probably be misleading.

“It is probably narrow, but the amplitudes are so low that widths cannot be reliable measured. It loosely follows a number of magnetic anomalies, but it tends to flank them.” (From Grandcru report).

Grandcru concluded most if not all the conductors followed the trend of a mafic volcanic-clastic sediment contact trending east north-east, and recommended grid mapping, re-locating mineralised (pyritic) boulders described by Thomson (1946) and a single drill hole reported by Thurston and Paktunc (1985).

2009 Precambrian Ventures Ltd. On behalf of Precambrian, Mount Morgan Resources Ltd carried out a Mobile Metal Ions (MMI) geochemical survey over a portion of their Alcock property, (re-naming the property previously held by Grandcru), located just South of the eastern portion of Bug Lake. A total of 368 inorganic and organic samples were collected with a view to delineating precious and base metal anomalies. A number of ‘high-contrast base and metals anomalies were identified, though the majority were “areally restricted, single and multi-sample responses that are often restricted to one sampling transect.” One high contrast gold anomaly was identified as spatially related to pyritic, siliceous boulders, and the HLEM conductor (see above), apparently has no significant MMI response.

2010 Precambrian Ventures continued exploration with a programme of prospecting, rock sampling and a follow-up MMI survey. Focus was on prospecting on and around siliceous boulders just West of Alcock Lake. Sampling of these and more float closer to the shoreline, returned no significant precious metal values. The report recommended prospecting a cluster of airborne EM anomalies in the western part of the property, where metasedimentary and iron formation rocks are apparently exposed. Additional work was recommended to the north-west along a high strain zone identified by past government work, Muir, 1994), located just South of Bug Lake.

The report mentioned anomalous base metal values in soils should be targeted for follow-up, but evidential material is lacking.

4.0 REGIONAL GEOLOGY

The property lies within the Uchi Subprovince, comprising several regional greenstone belts and intervening granitoid batholiths, see Fig. 3, below, (from Sanborn-Barrie et al., 2001 after Stott & Corfu, 1991.

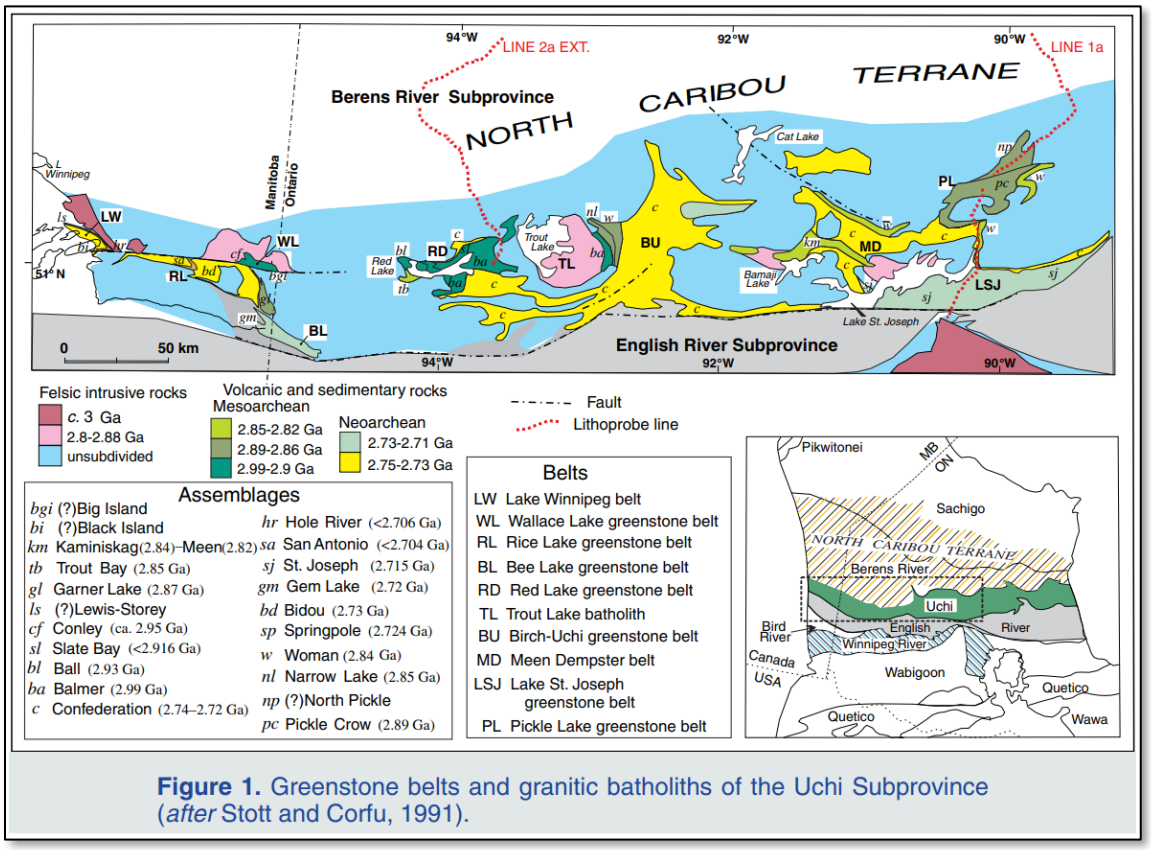


Figure 1. Greenstone belts and granitic batholiths of the Uchi Subprovince (*after* Stott and Corfu, 1991).

Figure 3 Regional Geology

The property area is located in the western portion of the Subprovince, a region comprising two major greenstone belts, Red Lake and Birch-Uchi. See overleaf, Fig. 4, from Sanborn-Barrie et al., 2004. The red star is the epicentre of Whirlwind Jack property.

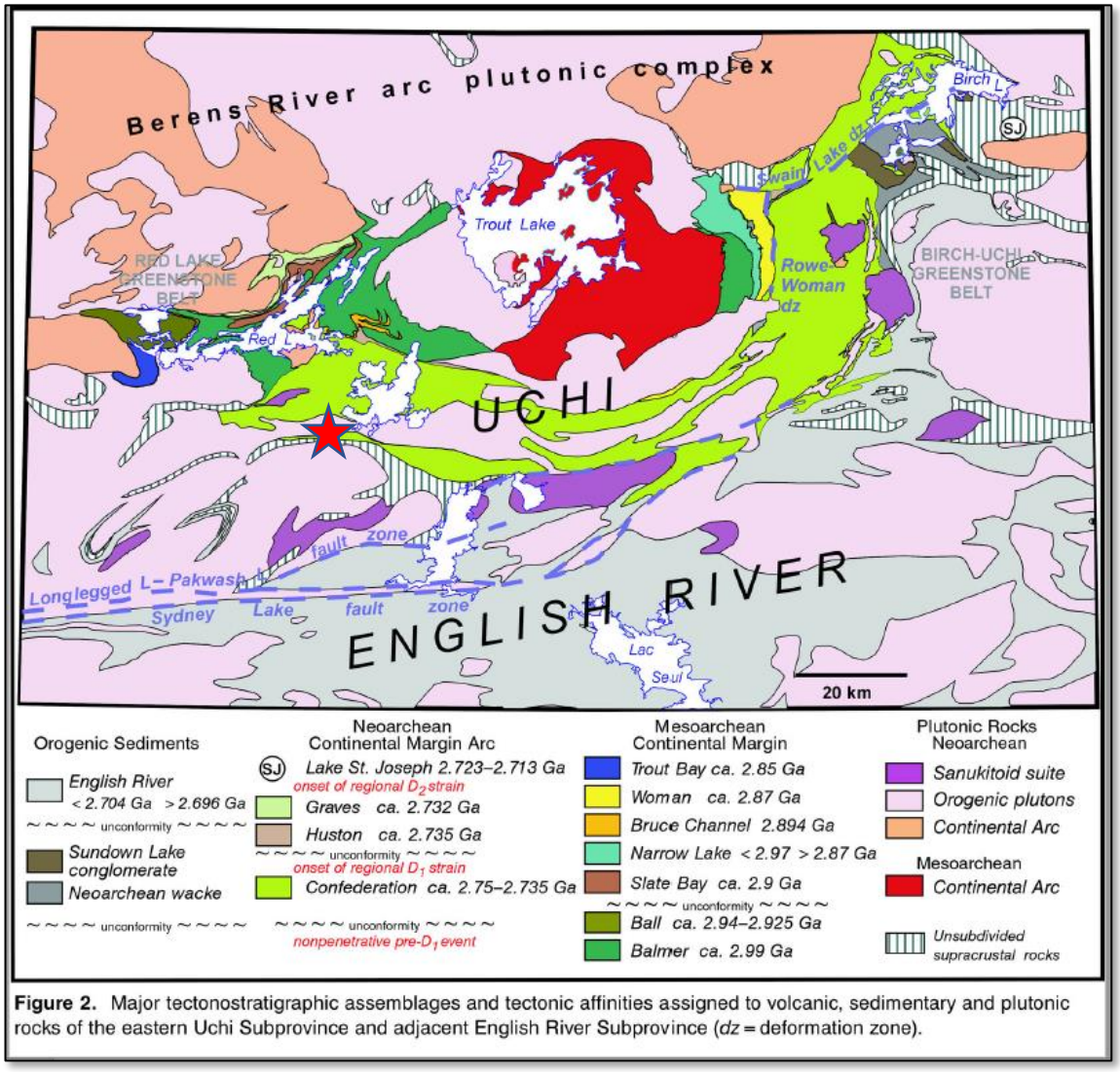


Figure 2. Major tectonostratigraphic assemblages and tectonic affinities assigned to volcanic, sedimentary and plutonic rocks of the eastern Uchi Subprovince and adjacent English River Subprovince (*dz* = deformation zone).

Figure 4 Uchi Subprovince

Red Lake Greenstone Belt ('RLGB')

The Belt comprises a series of ca. 2.99–2.70 Ga supracrustal rocks and three main granitoid batholiths. A brief description of the major units follows, this taken from Dubé et al, 2004. The prefix, 'meta' (metamorphosed') is excluded. Ga = 'billion years'.

"The Red Lake greenstone belt is located in the Uchi subprovince of the Superior province. The greenstone belt is dominated by Mesoarchean… (marine-deposited, tholeiitic basalt to komatiitic) …volcanic rocks of the Balmer assemblage (2.99–2.96 Ga), ….(with intercalated felsic and ultramafic intrusive and extrusive rocks and turbidites, volcaniclastic rocks and iron formations)…

"…intermediate to felsic calc-alkaline flows and pyroclastic rocks of the Ball assemblage (2.94–2.92 Ga), and intermediate calc-alkaline pyroclastic rocks (are) overlain by clastic sedimentary

rocks and banded iron-formation of the Bruce Channel assemblage (2.894 Ga; first volcanic cycle; Pirie, 1981; Andrews et al., 1986; Wallace et al., 1986; Corfu and Andrews, 1987; Parker 2000; Sanborn-Barrie et al., 2000, 2001, 2002, and references therein)."

The Slate Bay Assemblage lies disconformably on Balmer and Ball assemblage volcanic rocks, and comprises clastic rocks of three main lithological facies, conglomerates, quartz-rich arenites, wackes, and mudstones. The material is mostly derived from Ball Assemblage rocks with minor input from Balmer Assemblage rocks. Based on the youngest zircon ages, the maximum age of deposition for the Slate Bay Assemblage is ca. 2.916 Ga with the overlying ca. 2.85 Ga volcanic rocks of the Trout Bay Assemblage providing a minimum age for deposition (Corfu et al., 1998 and Sanborn-Barrie et al., 2004).

From Dubé et al., 2004, "The Bruce Channel assemblage appears to disconformably overlie the Balmer assemblage (Sanborn-Barrie et al., 2001). The Mesoarchean rocks were tilted by a pre-D1 episode of deformation and a regional angular unconformity separates the Mesoarchean rocks from the Neoarchean (i.e., 2.8–2.5 Ga) volcanic rocks (Sanborn-Barrie et al., 2000, 2001)." A thin, less than 500-metre-thick sequence of rhyodacitic pyroclastic rocks, clastic sedimentary rocks and banded iron formation, it has been dated at ca. 2.89 Ga.

"The unconformity is locally draped by polymictic conglomerate that gives way to a Neoarchean volcanic succession, including calc-alkaline and tholeiitic volcanic rocks of the ca. 2.75 to 2.73 Ga Confederation assemblage (McNeely and Heyson sequences, respectively) and calc-alkaline rocks of the ca. 2.732 Ga Graves assemblage. Polymictic conglomerate and finer clastic sedimentary rocks of the Huston assemblage separate the Confederation and Graves assemblages on the North shore of Red Lake. In the vicinity of the Red Lake mine, the conglomerate of the Huston assemblage rests unconformably on a substrate of supracrustal rocks of the Balmer and Bruce Channel assemblages (Sanborn-Barrie et al., 2001, 2002)." Geochemical data suggests the McNeely age rocks were formed in a shallow marine to sub-aerial arc-like setting on the continental margin, with later intra-arc extension and eruption forming the Heyson sequence.

Post- Confederation Assemblage formation, the Huston Assemblage (dated around 2.742 and 2.733 Ga), records a period of clastic sedimentary deposition characterised by immature conglomerates to wackes.

The ca. 2.73 Ga Graves Assemblage comprises andesitic to dacitic pyroclastic tuff on the north shore of Red Lake, and is interpreted to represent volcanic deposits in a shallow water to subaerial arc complex setting. It overlies and is locally transitional with the Huston Assemblage.

The Trout Bay Assemblage, located in the north-west of the RLGB, was previously correlated with Balmer rocks but is now considered to represent a distinct sequence. It comprises tholeiitic basalt, clastic rocks and iron formation, gabbros and ultramafic rocks. An interbedded, intermediate tuff returned a ca. 2.85 Ga age for this assemblage (Dubé et al., 2004, Sanborn-Barrie, 2004).

Four stages of post-volcanic plutonism, at ca 2.74, 2.73, 2.72 to 2.71, and 2.7 to 2.698 Ga, are recorded in the belt, (Dubé et al, 2004). Granitoid intrusions include the McKenzie Island Stock,

Dome Stock and the Abino granodiorite (2.72 and 2.718 Ga). Arguably, the last major magmatic event in the RLGB is the post-tectonic Killala-Baird batholith, dated at around 2.7 Ga.

"Two main episodes of deformation (D1, D2) took place after ca. 2742 Ma volcanism (Sanborn-Barrie et al., 2001). The main stages of penetrative deformation produced two sets of folds (F1 and F2). A locally recognized northerly trending S1 foliation is axial planar to north-northeast–trending F1 folds. According to Sanborn-Barrie et al. (2001, 2002), D1 coincided with the deposition of the polymictic conglomerate of the Huston assemblage and preceded the eruption of the Graves assemblages at ca. 2733 Ma (Sanborn-Barrie et al., 2001). D1 deformation probably occurred between 2742 and 2733 Ma in response to east-directed shortening. A weakly to moderately developed S2-L2 fabric and associated southeast-trending F2 folds are widespread in the eastern Red Lake area where the deposit is located. The main cleavage-forming stage of D2 deformation and associated metamorphism predated 2718 Ma (i.e., the age of the Dome stock), but foliation coplanar with S2 and amphibolite facies metamorphism outlasted emplacement of the Dome stock, indicating that D2 shortening continued beyond its emplacement (Sanborn-Barrie et al., 2002, 2004). Sanborn-Barrie et al. (2004) suggest that D2 strain across the Red Lake greenstone belt occurred between ca. 2720 to 2715 Ma and recorded the collisional stage of the Uchian phase of the Kenoran orogeny (cf. Stott et al., 1989; Stott and Corfu, 1991). Across the Red Lake belt, and elsewhere throughout the Uchi subprovince, the Uchian phase of the Kenoran orogeny was related to collision between the ca. 3.0 Ga North Caribou terrane to the north of the Red Lake greenstone belt and the ca. 3.4 Ga Winnipeg River terrane to the south (Fig. 1). Post-collisional D3 strain is locally recorded in the Red Lake belt after 2700 ± 6 Ma, the maximum age of a deformed and metamorphosed conglomerate near the Madsen mine area that displays a penetrative foliation coplanar with D2 fabrics (Sanborn-Barrie et al., 2004)." (Dubé et al., 2004)

5.0 PROPERTY GEOLOGY

There are no records of systematic geological work on the property and published maps are the product of regional mapping by various government workers.

The property geology is shown below, fig., 5, from Sanborn-Barrie et al., 2004. Their map is derived from a number of OGS maps and reports. For the Whirlwind Jack property, information was taken mainly from Breaks et al., 1975a,b.

Southern and western portions of the property are underlain by an extensive sequence of unsubdivided Archæan, medium, locally coarse-grained tonalite and granodiorite, variably foliated to banded, locally migmatitic, plagioclase-hornblende-biotite-quartz gneiss hosting relatively thin, (often less than 100 metre wide) mafic volcanic rocks, amphibolite, other ultramafic rocks, and minor wackes, iron formations and siltstones; all of which are considered to be Archæan age (4.00 to 2.80 Ga).

Much of the North of the property is underlain by Neoarchæan (2.80-2.50 Ga) quartz monzonite to granodiorite, with local phases of plagiogranite, granite, potassic rich pegmatite and plagioclase-quartz pegmatite. They may appear as relatively homogeneous, massive to lineated to banded, fine to coarse grained, with negligible to considerable amounts of partially to near completely altered to assimilated supracrustal material.

Separating these two major lithological ‘domains’ is a sequence of generally less altered and deformed, generally East-West trending supracrustal rocks characterised by massive to pillow lavas, related mafic volcaniclastic rocks, (dark green in figure below), intermediate to felsic flows and related pyroclastic and volcaniclcastic units, (lime green in the figure below), wackes and iron formations (grey). This sequence extends from the eastern boundary of the property, North of Stone Lake, westwards through the Bug Lake-Clear Lake area, and south-westwards, generally following the trend of the centre-west portions of Bug Lake. The intermediate-felsic sequence is assigned by e.g. Sanborn-Barrie et al., 2004 to the Confederation assemblage, ca. 2,745-2,735 million years old (Ma), with the sequence extending south-eastwards towards Pakwash Lake, then ‘turning’ Nast, North of the Bruce Lake Pluton and the old Griffith Iron Ore Mine near Ear Falls, forming an integral portion of the Birch-Uchi greenstone belt. The U-Pb dated 2,742-2,735 Ma Earngey Sequence characterised by andesitic to dacitic tuffs, pyroclastic breccia, lapilli tuffs and crystal tuffs.

Regional mapping by Thurston & Paktunc, 1985 resulted in the publication of the Madsen map sheet, wherein is shown the major units described, in particular, the East-West to south-west trending sequence of Archean supracrustal rocks

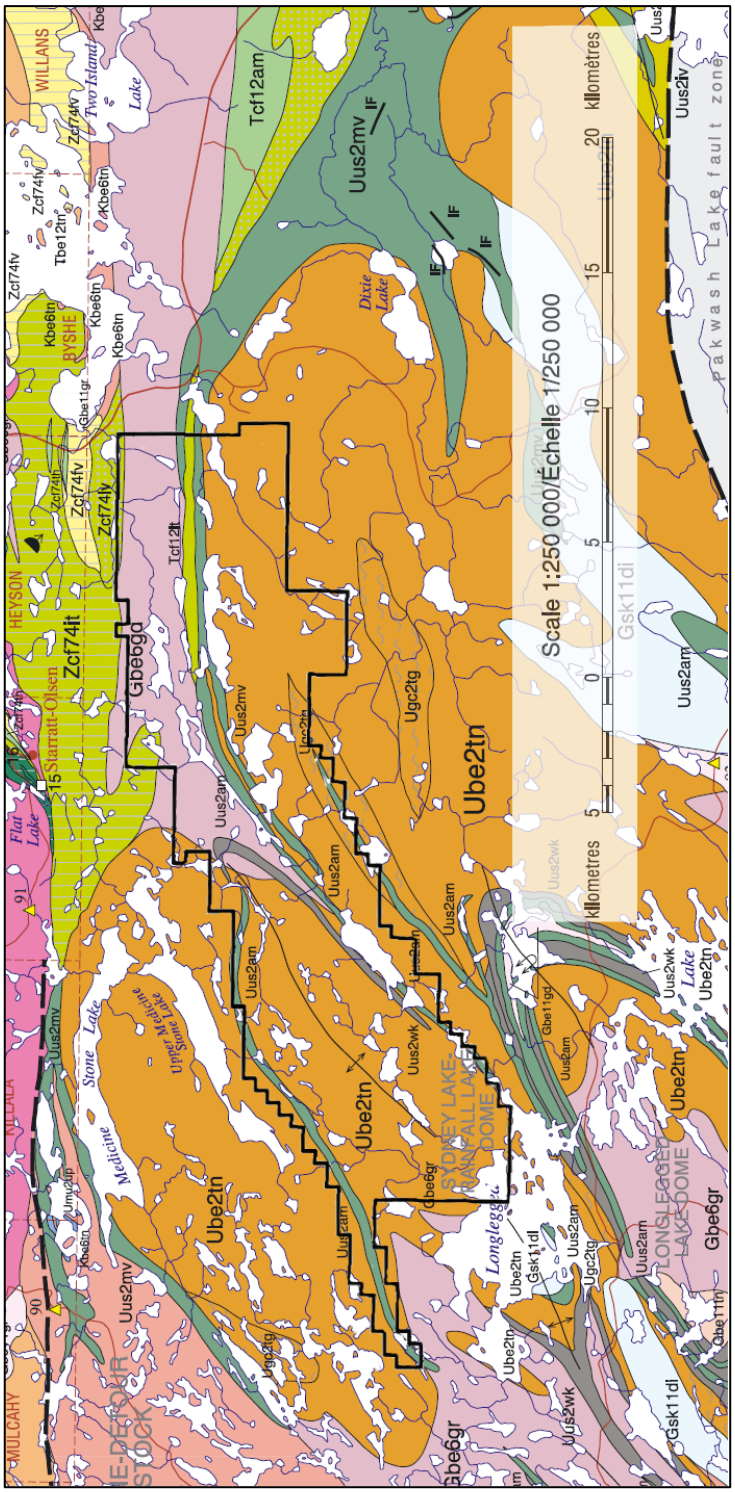


Figure 5 Property Geology

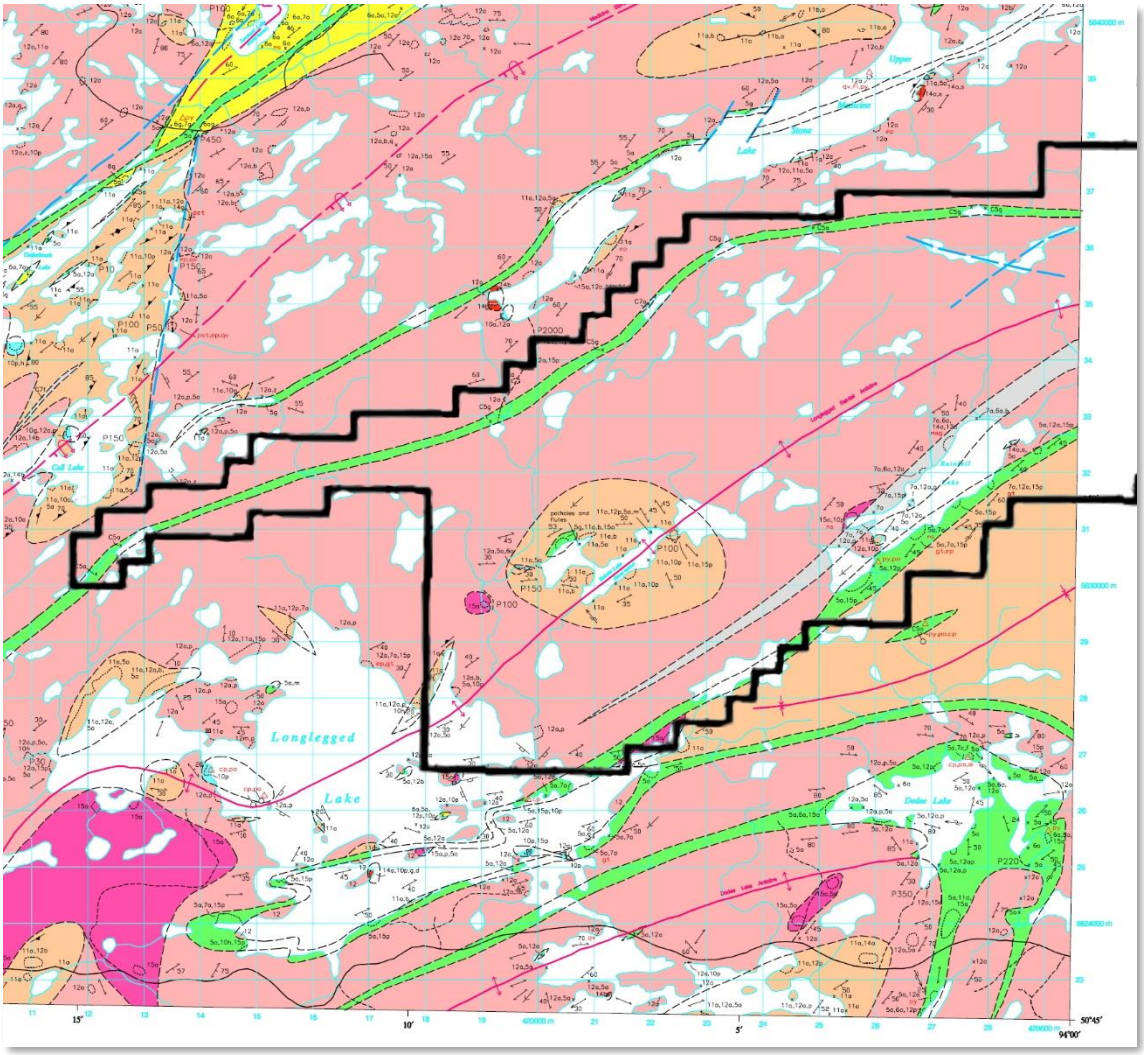
Overleaf, Lithology legend for the Region.


EXPLANATION OF LEGEND CODE
This map uses codes that are to be read from right to left. An example is given below. Format of legend code from the RIGHT:
Xbm59fv
① The lithology code (fv) identifies the dominant rock type in map units. See lithology list to right. More detail on lithologic constituents is contained in the unit descriptors in the Legend.
② The age code (59) indicates the age of the unit, inferred from U-Pb zircon dates of individual samples. In areas with abundant geochronology, a unit can be assigned an age within a 5 million year interval (code numbers 63–76), whereas other units of less certain age may be constrained only to within 10 m.y. (26–62), 100 m.y. (10–15) or larger (1–7) age intervals. See age list (right) and corresponding range in Figure 4: Lithology-age chart.
③ The tectonostratigraphic assemblage name (bm) for supracrustal units or suite name for plutonic rocks identifies packages of stratigraphically or magmatically related lithologic units of similar age. See list of assemblages and suite names to right.
④ The tectonic affinity (X) describes the environment of deposition or crystallization of a map unit based on all available lithologic and geochemical information. See tectonic affinity list to right.
LEGEND
ARCHEAN (4000–2500 Ma) (Unsubdivided)
Ube2tn Tonalite to granodiorite: medium-grained, variably foliated biotite-, hornblende-biotite tonalite, and associated rocks; cataclastic adjacent to Longlegged Lake–Pakwash Lake fault zone.
Uhn2tn Tonalite to granodiorite: medium-grained, variably foliated hornblende- and biotite-hornblende tonalite, and associated rocks.
Umu2gb Gabbroic intrusive rocks (various ages) includes gabbro and gabbroic anorthosite exposed in western (Trout Bay) and eastern (Hoyles Bay, Balmer Lake) Red Lake.
Umu2up Ultramafic intrusive rocks of unknown age and affinity.
Ugc2tg Tonalite gneiss of unknown age and affinity.
Supracrustal rocks of unknown affinity
Uus2co Conglomerate: polymictic pebble and cobble conglomerate consisting of well-rounded volcanic and sedimentary clasts (80%) and gantoid and/or intrusive clasts (20%); local graded bedding, load casts and flame structures; interbedded wacke.
Uus2md Fine siliciclastic rocks≥chert, i.e., overlying Trout Bay and Ball assemblages in western Red Lake.
Uus2wk Wacke: wacke, feldspathic wacke; near northwestern Shabu Lake occurs with lesser quartzite and quartzose wacke, locally cut by gabbro; quartzose wacke may be interbedded with conglomerate, marble, calc-silicate rocks and chert-magnetite iron-formation; occurs as narrow screens with migmatitic texture locally, in structural domes at Longlegged and Sydney lakes.
Uus2ft Felsic volcanic rocks: dacite to rhyolite, predominantly tuff and lapilli tuff.
Uus2sv Epiclastic rocks: wacke, volcaniclastic conglomerate, east of Papaonga Lake pluton and central Birch Lake.
Uus2lt Intermediate volcanic rocks: andesitie to dacite, predominantly tuff and lapilli tuff (i.e., Slate Lake area) with lesser flows (i.e., Pakwash Lake).
Uus2mv Mafic volcanic rocks: foliated, massive to pillowed basalt, amphibolite, and associated gabbroic rocks, locally plagioclase-phyric near Springpole and Pakwash lakes; lesser associated intermediate to felsic flows, tuff and wacke near Dixie Lake.
Uus2am Amphibolite.
Uus2km Ultramafic rocks of uncertain origin and unknown age, west of Red Lake.
NEOARCHEAN (2800–2500 Ma) Unsubdivided
Gak6sy Springpole Lake Alkalic Volcanic Complex: carbonatite breccia dyke consisting of trachyte porphyry and trachyte breccia, syenite, minor fluorite-bearing carbonatite, and associated minette dykes.
Ghn6gd Quartz monzonite to granodiorite: variably foliated hornblende-bearing quartz monzonite, granodiorite, granite, locally leucocratic and quartz and/or K-feldspar porphyritic.
Gbe6gr Granite, granodiorite: massive to weakly foliated, lineated, fine- to coarse-grained monzogranite≥quartz monzodiorite≥tonalite and associated pegmatitic rocks, locally K-feldspar porphyritic.
Gbe6gd Quartz monzonite to granodiorite: variably foliated biotite quartz monzonite, granodiorite and granite; locally leucocratic and quartz and/or K-feldspar porphyritic; xenolithic south of Gullrock Lake.
Kbe6tn Tonalite to granodiorite: variably foliated biotite-tonalite to quartz diorite≥granodiorite; coarse-grained, granular, white to grey with 10–30% biotite≥hornblende.
Khn6tn Tonalite to granodiorite: variably foliated hornblende-tonalite to quartz diorite≥granodiorite; coarse-grained, granular, white to gray with 10–30% hornblende≥biotite.
Neoarchean supracrustal rocks of unknown affinity
Uus6wk Wacke: wacke, feldspathic wacke with lesser associated argillite, siltstone and minor conglomerate; possibly unconformable on mafic volcanic rocks southeast of Birch Lake.
Uus12ft Intermediate pyroclastic rocks; dacitic tuff horizons in central Springpole Lake.
NEOARCHEAN (2800–2600 Ma)
Gsk11di Diorite, quartz diorite: hornblende and biotite-hornblende diorite, syenodiorite≥quartz diorite with inclusions of English River metasedimentary rocks locally (i.e. Pakwash pluton) and mafic volcanic rocks (i.e. eastern Bruce Lake pluton).
Ghn11sy Syenite: amphibole syenite, south of Slate Lake, possibly part of the intermediate to mafic sanukitoid suite that has intruded the Uchi-English River interface.
Gmu6gb Gabbroic rocks: generally undated gabbroic rocks intrusive into Confederation assemblage, including fine-grained tholeiitic dykes and sills intrusive into the Sundown Lake metasedimentary assemblage and coarse-grained, magnetite-bearing gabbro dated at ca. 2699 Ma at locality #57; includes Leg Lake mafic complex.
Gbe11gr Granite, granodiorite: massive to variably foliated biotite granite to granodiorite and associated pegmatitic rocks, known to be post-volcanic and syn- to post-orogenic.
Gbe11gd Granodiorite, quartz monzonite: massive to variably foliated biotite granodiorite to quartz monzonite and associated pegmatitic rocks, known to be post-volcanic and syn- to postorogenic.
Gbe11tn Tonalite, granodiorite: massive to variably foliated biotite≥hornblende tonalite to granodiorite, commonly xenolithic or containing biotite schlieren; locally leucocratic (trondhjemitic (Ci<5); intrusive into English River metasedimentary assemblage (i.e. < 2.7 Ga); with associated diorite and quartz diorite phases (Bluffy Lake batholith); cataclastic within the Sydney Lake fault zone.
Gsk66di Diorite: diorite-quartz diorite-trondhjemite and associated pegmatite with elevated Mg and Cr consistent with sanukitoid affinity; mafic satellite phase of the 2698 Ma Bluffy Lake batholith (U-Pb #51).
Gsk12gd Monzodiorite-quartz monzonite-granodiorite of sanukitoid affinity whereby monzodiorite (minor) is hornblende- and biotite- phyric with high Mg#, Ni, K,O, Ba, and Sr, and is enriched in LREE; granodiorite is moderately foliated and locally charged with felsic xenoliths. Includes monzodiorite and granodiorite of the Faulkenham Lake stock, near Madsen and the Perrigo Lake pluton.
Tbe12gr Granite, granodiorite: variably foliated biotite granite to granodiorite≥quartz monzonite and associated pegmatitic rocks, known to be post-volcanic and syn- to post-orogenic.
Thn12gd Granodiorite: variably foliated hornblende-bearing granodiorite-tonalite of the Berens River arc plutonic complex.
Tbe12tn Tonalite: massive to weakly foliated biotite-tonalite to trondhjemite≥diorite typically associated with, or intrusive into, <2.745 Ga Confederation assemblage.
Migmatite ca. 2690 Ma
Gms65gr Peraluminous granite to granodiorite: homogeneous dalexite with ≥ 95% medium-grained to pegmatitic granitoid mobilizate, typically garnet and muscovite bearing; locally apatite and tourmaline bearing (i.e. southeast of Jubilee Lake); commonly contains inclusions and rafts of inhomogeneous dalexite; cataclastic within the Sydney Lake fault zone.
Gms65gg Inhomogeneous dalexite with 70–95% medium-grained to pegmatitic granitoid mobilizate, typically garnet and muscovite bearing, commonly contains inclusions and rafts of metatexite; cataclastic within the Sydney Lake fault zone.
English River assemblage >2696 Ma <2704 Ma
Feg6sm Metasedimentary migmatite: garnet+biotite-feldspar-quartz gneiss, generally metatexite with 10–70% interbanded granitoid mobilizate.
Feg6if Chert-magnetite ironstone: banded, thinly bedded to thickly laminated chert-magnetite ironstone, Bruce Lake where refolded chert-magnetite ironstone has been tectonically thickened, resulting in mineable reserves (past-producing Griffith Mine).
Feg6wk Fine-grained clastic rocks and siliciastics: biotite-quartz-plagioclase wacke (<10% granitic mobilizate) and associated chert-magnetite ironstone.
Feg6co Conglomerate: polymictic pebble conglomerate e.g., near Madsen (Red Lake) where fragmental rocks historically considered correlative with the Au-bearing Austin tuff contain detritus dated at 2.99 Ga, 2.92 Ga, 2.85 Ga, 2.45 Ga, 2.72 Ga with youngest detrital zircons at 2700 ± 6 Ma indicating late-orogenic (molassic) deposition.
Inferred unconformity
Post-volcanic plutonic rocks
Gbe66gd Granodiorite≥monzogranite: massive to weakly foliated, relatively unaltered and unrecrystallized biotite granodiorite≥monzogranite≥quartz monzonite, commonly with megacrysts of K-feldspar and cut by pink granite pegmatite dykes; includes the main phase of the ca. 2697 Ma Cat Island pluton (U-Pb #48) at Ranger Lake.
Ghn66gd Granodiorite≥monzogranite-diorite: massive to weakly foliated, relatively unaltered and unrecrystallized hornblende≥biotite granodiorite≥quartz monzonite, commonly with megacrysts of K-feldspar and commonly cut by pink granite pegmatite dykes; includes a 2699 ± 1 Ma marginal phase of the Cat Lake pluton (U-Pb #47) at Walsh Lake.
Gsk67mz Quartz monzonite-granodiorite: massive to weakly foliated amphibole-bearing quartz monzonite-granodiorite≥quartz diorite≥diorite, locally biotite porphyritic with elevated Mg#, Ni and enriched LREE reflecting sanukitoid affinity; includes main ca. 2700 Ma phase of the Okanse Lake stock (U-Pb 970) see also unit Gsk13gd.
Gbe67gr Granite-granodiorite-monzogranite-diorite: massive to weakly foliated, relatively unaltered and unrecrystallized biotite granite to granodiorite≥monzogranite≥quartz monzonite, commonly with megacrysts of K-feldspar and cut by pink granite pegmatite dykes. Includes main phase of the 2704 Ma Killala-Baird Batholith (U-Pb #11) and 2703 ± 2 Ma granite at Job Lake 15 km west of map sheet.
Gbe69gd Granodiorite-quartz monzonite: weakly foliated, equigranular to porphyritic biotite granodiorite-quartz monzonite, intrusive into deformed and locally mineralized strata; includes the ca. 2712 Ma Little Bear Lake granodiorite (U-Pb #62) and Shabumeni Lake stock (U-Pb #73) in the Birch-Uchi belt 2711 ± 4 Ma quartz-feldspar porphyry (U-Pb #44) that cuts gold mineralization at the Red Lake (formerly A.W. White) mine.
St. Joseph plutonic suite: synchronous with regional-scale D_2 strain
Ghn70tn Tonalite-granodiorite: variably foliated and recrystallized hornblende and biotite- hornblende tonalite≥granodiorite, commonly with megacrysts of K-feldspar and cut by pink granite pegmatite dykes; may include the main phase of the Hammell Lake pluton (U-Pb #13).
Gbe70gd Granodiorite: variably foliated and recrystallized biotite granodiorite≥monzogranite≥quartz monzonite, commonly with megacrysts of K-feldspar; cut by pink granite pegmatite dykes and locally by NW-trending metadiabasic dykes (not shown); includes the central 2718.2 ± 1.1 Ma phase of the Dome stock (U-Pb #33), and may include an intrusion in Slate Bay (Red Lake).
Khn71gr Granodiorite: variably foliated and recrystallized biotite granodiorite≥monzogranite≥quartz monzonite with more dioritic marginal phases, including the 2720 +3/-2 Ma McKenzie Island stock (U-Pb #29) and 2720 +7/-5 Ma Albino granodiorite (U-Pb #36); locally with microcline megacrysts (e.g. near Olive Lake; U-Pb #1).
Khn12di Diorite: variably foliated and recrystallized diorite, includes locally augite- and hornblende-bearing mafic border phases to the ca. 2.72 Ga Dome and McKenzie Island stocks.
Khn71gd Granodiorite: foliated, medium- to coarse-grained biotite-hornblende granodiorite and biotite-hornblende quartz monzonite of the 2724.3 +1.8/-1.5 Ma Mainprize Lake batholith (U-Pb #72); commonly microcline megacrystic; local inclusions of amphibolite.
Kbe72tn Tonalite: fine- to medium-grained, equigranular, variably foliated, altered, and Au-mineralized tonalite of the 2725 ± 2.5 Ma Horseshoe Island stock (U-Pb #77).
St. Joseph Assemblage (Springpole Lake) ca. 2723 Ma
Ks[71ft Porphyritic tuff: porphyritic lapilli tuff (U-Pb #78).
Sundown Lake assemblage
Ssf12co Conglomerate: massive to poorly-bedded polymictic conglomerate containing pebble- to boulder-size clasts of volcanic and chemical sedimentary rocks, porphyries and vein quartz; associated with thickly bedded arenites; lenses of wacke-siltstone.
Ssf12wk Wacke: thickly laminated to medium-bedded, medium sand size lithic wacke with scours, graded bedding, and ripple crosslaminations; minor conglomeratic beds; deposited at <2732 Ma (U-Pb #65); cut by fine-grained basaltic dykes.
Inferred unconformity
Graves plutonic suite (Red Lake)
Kmu72di Diorite to quartz diorite: diorite≥quartz diorite, gabbro, syenodiorite, commonly plagioclase porphyritic; includes the 2729 ± 1.5 Ma Red Crest stock (U-Pb #12) and marginal phases to the Douglas Lake pluton.
Kbe73gr Granite-granodiorite: variably foliated, equigranular medium-grained to K-feldspar megacrystic biotite- and less commonly hornblende-bearing granite and granodiorite≥quartz monzonite, including the 2731 +3/-2 Ma Little Vermillion Lake batholith (U-Pb #27); calc-alkaline affinity.
Kbe73tn Tonalite: foliated to gneissic biotite-bearing tonalite≥trondhjemite, including the 2734 ± 2 Ma Douglas Lake pluton (U-Pb #2); calc-alkaline affinity.
Graves assemblage (Red Lake) ca. 2733 Ma
Kgr73ft Intermediate pyroclastic rocks: intermediate to felsic calc-alkaline pyroclastic rocks including, buff to grey weathering, 2732.8 +1.4/-1.2 Ma tuff (U-Pb #26), and biotite- and plagioclase-phyric lapilli tuff.
Huston assemblage > ca. 2733 Ma–< ca. 2743 Ma
Fhu34wk Wacke, siltstone, argillite: well-bedded, graded turbiditic wacke, siltstone≥argillite, with marble≥chert≥sulphides and associated skarn, e.g. adjacent to plutons.
Fhu34co Conglomerate: polymictic conglomerate (U-Pb #17, #38); with immature to well-rounded volcanic, plutonic and sedimentary clasts that locally show evidence of intense hydrothermal alteration, likely prior to reconsolidation and metamorphism; possibly synorogenic with respect to D_2 in the Red Lake belt at ca. 2740–2735 Ma.
Unconformity
Confederation plutonic suite
Tcf12pr Porphyritic rocks: light-weathering, feldspar- and quartz- (±blue quartz) porphyritic, intrusive/hypabyssal rocks with 20–30% phenocrysts, interpreted to be subvolcanic to the Confederation assemblage.
Ycf75pr Porphyritic rocks: light-weathering, feldspar- and quartz- (±blue quartz) porphyritic, intrusive/hypabyssal rocks with 20–30% phenocrysts; includes the 2742 +3/-2 Ma Brewis (Balmer Lake) porphyry (U-Pb #45).
Zhn12di Diorite-quartz diorite stocks: with Fill-type REE profiles (high and flat) such as the Swain Lake stock, likely subvolcanic to the Fill-type Agnew sequence in the Birch-Uchi belt, and the tholeiitic Howey diorite, likely subvolcanic to the ca. 2.74 Ga Heyson sequence, Red Lake belt.
Zbe75gd Granodioritic porphyry: granophyric granodiorite to quartz-feldspar porphyry intrusions associated with basaltic to rhyolitic flows and pyroclastic rocks of the Confederation assemblage (Agnew Fill-type sequence); includes the 2741 +3/-2 Ma Found Lake stock (U-Pb #69) and the South Bay porphyry intrusion with associated Cu-Zn-Ag mineralization.
Ycf36fp Felsic dyke at Rahill Beach, Red Lake, interpreted age of 2757+9/-4 Ma (U-Pb #32).
Tmu12gb Gabbroic rocks: gabbro≥gabbroic anorthosite rocks intrusive into, and possibly related to, the Confederation assemblage.
Confederation assemblage ca. 2745–2735 Ma
Tcf12md Siliciclastic sedimentary rocks: interbedded fine sand size feldspathic wacke, lithic wacke, and chert with lesser argillite and siltstone.
Tcf12sv Epiclastic rocks: epiclastic rocks of intermediate composition associated with the Confederation volcanic assemblage.
Tcf12lt Intermediate volcanic rocks: predominantly intermediate pyroclastic rocks considered to be part of the Confederation assemblage.
Tcf12mv Mafic volcanic rocks: basaltic rocks considered part of the Confederation assemblage formed at a transitional continental margin setting.
Tcf12am Amphibolite: amphibolite-facies mafic volcanic rocks, locally pillowed east of Dixie Lake, considered part of the Confederation assemblage.
Earngey sequence (Birch-Uchi belt) ca. 2742–2735 Ma
Ycf34mv Mafic volcanic rocks: pillow basalt±fragmental rocks of the Wabamook and Neepawa Bay suites with minor interbedded intermediate volcanic rocks (e.g. 2741.7 +3.3/-2.9 Ma (Fox Bay andesite; U-Pb #75)).
Ycf74lt Intermediate to felsic volcanic rocks: andesitic to dacite tuff dated at 2735 +4/-3 Ma (Wabunk suite) (U-Pb #71); 2738.5 ± 2 Ma; rhyodacite pyroclastic breccia and lapilli tuff (U-Pb #68); dacite tuff and feldspar crystal tuff including 2739.1 ± 1.6 Ma, Shabumeni Lake formation (U-Pb #76) and associated quartz feldspar porphyry dykes (Jackson-Manion) dated at ca. 2739 Ma (U-Pb #63).
Agnew sequence (Birch-Uchi belt) ca. 2744 Ma
Zcf36lv Intermediate to felsic volcanic rocks: dacite flows with minor tuff, locally perlitic texture; tholeiitic (type FIII) affinity.
Zcf75fl Felsic volcanic rocks: rhyolitic flows (Keewatin Bay suite) and associated quartz feldspar porphyritic rocks dated at ca. 2744 Ma (U-Pb #66); tholeiitic (type FIII) affinity.
Zcf36th Mafic volcanic rocks: pillowed basalt and pillow breccia of dominantly tholeiitic affinity.
Ycf35ca Mafic volcanic rocks: calc-alkaline pillowed basalt flows, pillow breccia, and tuff of dominantly calc-alkaline affinity.
Knott sequence (Birch-Uchi belt) ca. 2745–2742 Ma
Ycf75fv Felsic volcanic rocks: including ignimbritic rhyolite flows dated at ca. 2742 Ma (U-Pb #60).
Ycf35lv Intermediate volcanic rocks of andesitic composition.
Ycf35mv Mafic volcanic rocks: massive to pillowed calc-alkaline.
Ycf35th Mafic volcanic rocks: lower massive to pillowed tholeiitic basalt; locally variolitic.
Heyson sequence (Red Lake) ca. 2739 Ma
Ycf74lv Intermediate volcanic rocks: andesitic to dacitic calc-alkaline flows, commonly plagioclase-phyric, possibly correlative with the Earngey sequence of the Birch-Uchi belt.
Zcf74th Mafic volcanic rocks: massive to pillowed tholeiitic basalt, locally plagioclase phyric.
Zcf74fv Felsic volcanic rocks: rhyolitic rocks of tholeiitic (type FIII) affinity (flat to LREE-enriched); consisting of rhyolitic flows that may be quartz-phyric and locally exhibit primary lobate structure; lesser crystal tuff (U-Pb #37); associated gabbro sills.
Zcf74lt Intermediate volcanic rocks: massive and pyroclastic rocks of tholeiitic affinity, generally dacitic to andesitic flows, tuff, lapilli tuff and pyroclastic tuff; flows may be pillowed and plagioclase-phyric; commonly cut by quartz porphyry near Madsen.
McNeely sequence (Red Lake) ca. 2748–2742 Ma.
Ycf35ca Mafic volcanic rocks: plagioclase-phyric, massive to pillowed, calc-alkaline basalt≥andesite; locally amygdaloidal.
Ycf75lt Intermediate to felsic volcanic rocks: dacitic to rhyodacitic pyroclastic rocks and associated epiclastic rocks (U-Pb #10, #14, #16, #23, #28, #39), locally overlying basal conglomerate (unit Tus2co).
Tus2co Oligomictic conglomerate: unbedded, poorly sorted oligomictic conglomerate derived mainly from underlying Balmer assemblage rocks and variably dominated by chemical sedimentary clasts (Wolf Bay, Red Lake) or basaltic clasts (north central shore, Red Lake); minor lithic wacke and/or argillaceous beds; interpreted to mark an angular unconformity between Red Lake's Mesoarchean strata and the ca. 2745 Ma Confederation assemblage.
Unconformity
Trout Lake plutonic suite ca. 2860–2806 Ma
Zmu44gb Gabbro: medium-grained gabbro dykes cutting the Balmer assemblage in the Birch-Uchi belt, dated at ca. 2832 Ma on Spot Lake (U-Pb #59).
Ybe13tn Tonalite-granodiorite: variably foliated tonalite to granodiorite≥quartz diorite of the Trout Lake batholith (U-Pb #48, 52, 53, 55); local inclusions of amphibolite; possibly correlative with quartz gabbro dated at 2870 ± 10 Ma from the Red Lake belt (Red Lake Mine; U-Pb #43).
Ygc13tg Tonalite gneiss: heterogeneous, variably foliated, layered and commonly folded gneiss of tonalitic, granodioritic, and quartz dioritic composition, occurring as enclaves within the central and southeastern Trout Lake batholith (U-Pb #50); variably cut by concordant to discordant, dykes of tonalite≥granodiorite.
MESOARCHEAN (3100–2800 Ma)
Trout Bay assemblage (Red Lake) ca. 2855–2848 Ma
Nbb13gb Gabbroic rocks: locally plagioclase megacrystic gabbro and leucogabbro intrusive into lower tholeiitic basalt of the Trout Bay assemblage and characterized by depleted REE profiles similar to upper Trout Bay tholeiitic basalt sequence.
Nbb13th Mafic volcanic rocks: upper sequence of northeast-facing pillowed tholeiitic basalt flows.
Ylb46lt Intermediate volcanic rocks: dacitic tuff (U-Pb #24, #33) and tuff breccia with associated epiclastic rocks and oxide facies ironstone within central Red Lake.
Ylb46sv Clastic and epiclastic rocks (U-Pb #3) with minor interbedded intermediate tuff dated at ca. 2854 Ma (U-Pb #5), overlain by a fragmental tuff unit containing intermediate to mafic volcanic and banded iron-formation clasts; minor siltstone, and pelite; and intruded by Trout Bay gabbro.
Tbh7th Mafic volcanic rocks: lower sequence of northeast-facing pillowed tholeiitic basalt flows, possibly correlative with unit ZnE7h.
Medicine Rock assemblage (Birch-Uchi belt) < ca. 2870 Ma
Yus13wk Wacke: interbedded hematitic iron-formation and grey brown siltstone exposed at interface between the Narrow Lake and ca. 2870 Ma Woman assemblages and containing detrital zircon of Balmer (ca. 2.99 Ga.) and Woman (2.87–2.88 Ga) age (U-Pb #61).
Inferred unconformity
Woman assemblage (Birch-Uchi belt) ca. 2870 Ma
Ywo48fv Felsic to intermediate volcanics: ignimbritic to tuffaceous rhyolitic and dacitic flows dated at ca. 2870 Ma (U-Pb #64); capped locally by 4 m thick stromatolitic marble.
Ywo48mv Mafic volcanic rocks: massive to pillowed tholeiitic and calc-alkaline basaltic flows, capped locally by 3 m thick marble.
Bruce Channel assemblage (Red Lake) ca. 2894 Ma
Ybc50wk Feldspathic wacke, siltstone, chert: wacke may be finely crosslaminated and capped by chert-magnetite ironstone; includes biotite schist and paragneiss occurring within the contact thermal aureole of the Cat Island pluton.
Ybc50ft Felsic to intermediate pyroclastic rocks: felsic to intermediate tuff and lapilli tuff (U-Pb #30, #46).
Narrow Lake assemblage (Birch-Uchi belt) < ca. 2975 Ma >2870 Ma
Zmt7th Basalt: tholeiitic, massive to pillowed basalt and associated medium-grained equigranular gabbro exposed east of Trout Lake batholith.
Slate Bay assemblage (Red Lake) <2903 Ma
Ysl50md Siltstone: mudstone-dominated facies at the entrance to Slate Bay; commonly andalusite-porphyroblastic.
Ysl50qz Quartz-rich clastic rocks: quartzose wacke, quartz arenite, quartz-rich grit to pebble conglomerate with dominant felsic volcanic clasts; commonly fuchsite-bearing (U-Pb #8, #26, #34).
Unconformity
Ball plutonic suite
Xbl62up Ultramafic intrusive rocks: serpentinite, serpentinized peridotite, and rare pyroxenite, variably carbonatized, intrusive into the Ball assemblage; trace element data indicate affinity with Ball komatiite and komatiitic basalt.
Ball assemblage (Red Lake) <2925 Ma >2940 Ma
Xbl62km Upper ultramafic flows: massive to pillowed komatiite and basaltic komatiite flows.
Ybl53fv Upper felsic to intermediate volcanic rocks: felsic flows (type FI) intercalated with dacitic flows dated at 2925.4 +3.4/-3.9 Ma (U-Pb #7); white weathering, typically 3–15% quartz phenocrysts, locally spherulitic texture, locally plagioclase microphyric.
Ybl54cb Chert-marble: locally stromatolitic; generally transitional with, and/or capped by, chert-magnetite≥sulphides; includes coarse-grained wollastonite- and/or diopside-bearing metamorphosed equivalents on northern Pipestone Bay.
Ybl55ft Middle felsic to intermediate volcanic rocks: rhyodacitic and rhyolitic flows and tuff with lesser dacitic to andesitic pyroclastic tuff and lapilli tuff; minor spherulitic dacite≥siltstone; calc-alkaline affinity (type FI); includes 2940.1 +2.4/-1.7 Ma massive rhyolite flows (U-Pb #6).
Xbl55mv Middle mafic to ultramafic volcanic rocks: massive basalt and komatiitic basalt with minor associated spinifex-textured komatiite; includes some serpentinite and gabbro.
Ybl14lt Intermediate calc-alkaline volcanic rocks: dacitic to lesser andesitic rocks dominated by pyroclastic tuff and lapilli tuff, with minor spherulitic dacite and chert-magnetite ironstone≥siltstone; minor interlayered basalt flows.
Ybl14ca Lower basalt: massive to locally pillowed, calc-alkaline basalt.
Balmer Plutonic Suite
Xbm59gb Gabbro≥diorite≥leucogabbro: intrusive into Balmer assemblage, locally plagioclase phyric (i.e., south shore of central Red Lake).
Xbm59up Serpentinite, serpentinized peridotite: pyroxenite, typically actinolite-bearing, locally tremolite and talc schist; variably carbonatized; intrusive into, and geochemically related to, the ca. 2.99 Ga Balmer assemblage, possibly equivalent to the middle komatiite sequence.
Balmer assemblage (Red Lake and Birch-Uchi belts) ca. 2992–2964 Ma
Tbm57fv Rhyolite: upper rhyolite dated at 2964 +5/-1 (U-Pb #40) near Balmertown and possible tuff (felsite) east of Trout Lake batholith dated at ca. 2958.6 ± 1.7 Ma (U-Pb #56).
Ybm59fv Felsic volcanic rocks: thinly bedded to massive quartz and feldspar phyric tuff (ca. 2989 Ma) (Skinner porphyry; U-Pb #54) and associated volcaniclastic-epiclastic deposits.
Ybm59mv Intermediate to mafic volcanic rocks: massive basaltic andesite to andesite (Tims Creek) flows with minor dacite dated at ca. 2975 Ma at Spot Lake (U-Pb #58), underlain by minor pillowed tholeiitic basalt.
Tbm7wk Sedimentary rocks: thinly bedded lithic wacke and siltstone locally cut by gabbro dykes.
Xbm59fv Felsic to intermediate volcanic rocks: rhyolitic to dacitic flows, pyroclastic rocks, and associated epiclastic rocks dated at 2989±3 Ma (Campbell Gold Mine; U-Pb #41), ca. 2988 Ma (Coin Lake; U-Pb #21).
Xbm58lt Dacitic volcanic rocks: generally pyroclastic including tuff, 2992 +20/-9 Ma lapilli tuff (U-Pb #36) and tuff breccia with clasts more felsic than matrix, locally garnet-bearing.
Xbm58kb Ultramafic volcanic rocks: komatiite≥komatiitic basalt, locally with preserved spinifex texture, forming lower (Flat Lake, Russet Lake, Nungessor Road) and middle sequences (Post Narrows, Middle Narrows, Golden Arm).
Xbm59mv Mafic volcanic rocks: tholeiitic basalt, commonly variolitic and pillowed; typically aphyric, sparsely vesicular; consisting of a lower sequence with TiO_2 >1.5% and flat to enriched LREE profiles, and middle and upper sequences with TiO_2 <1.5% and flat to depleted LREE profiles.

The mid-90's saw new regional mapping of the Red Lake region, resulting in the publication of OGS Map P.3397, Medicine Stone Lake. Baird and Killala townships were (re-)mapped, and additional information was incorporated from work on Red Lake gold and related mineralisation. There was no new mapping to the South, and Map P.3397 used the geological information from Thurston and Paktunc's 1985 publication, and data from assessment work files.

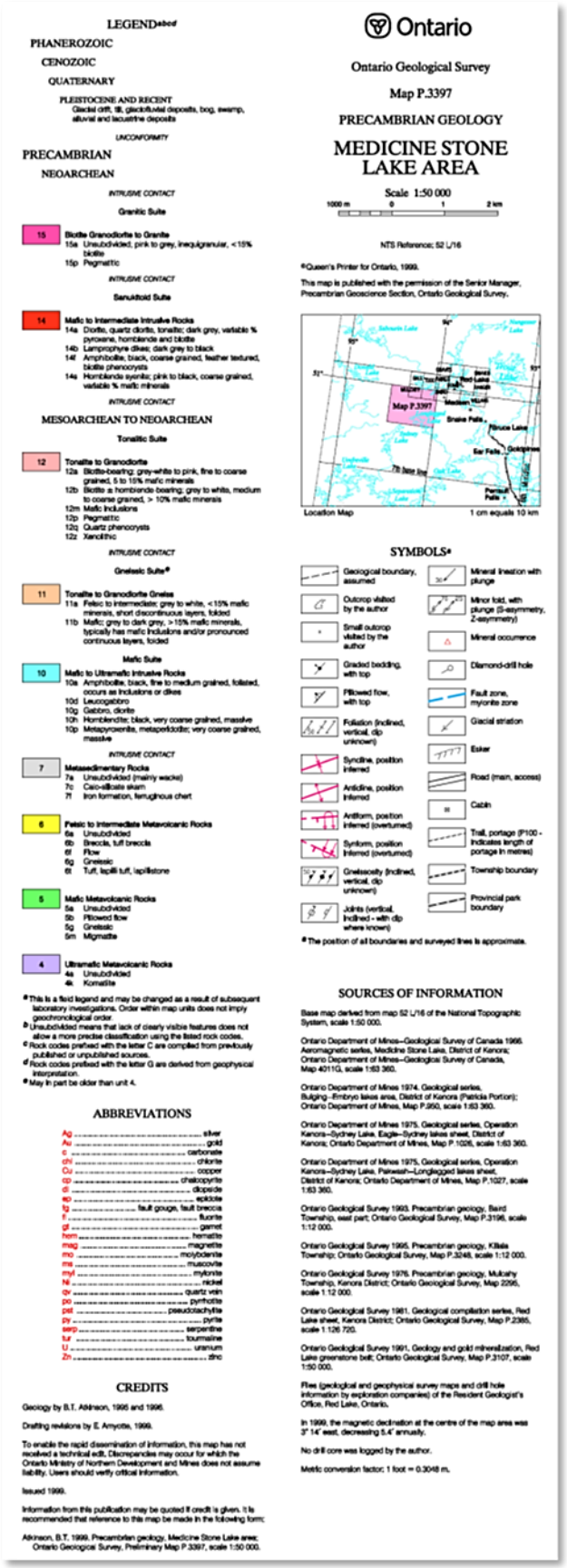
Figure 6 Property Geology, western area

From OGS P.3397 with western property boundary. One grid square = 1 km^2



Legend is overleaf.

Central and eastern portions of the property and adjacent areas were partially mapped by Thurston and Paktunc (1985). See Fig. 7 ff. The region was re-mapped in part with results presented in OGS P.3300, Dixie Lake Area (Central), P. 3301, Dixie Lake Area (East), and P. 3299, Dixie Lake Area (West). The sheets were not updated to accurately UTM registered colour maps. A compilation map covering the Whirlwind Jack property is shown following. Due to the regional and preliminary nature of the publications, the image is not UTM registered.



LEGEND[a,b,c,d]

PHANEROZOIC

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT
Glacial drift, till, glaciofluvial deposits, bog, swamp, alluvial and lacustrine deposits

UNCONFORMITY

PRECAMBRIAN

NEOARCHEAN

INTRUSIVE CONTACT

Granitic Suite

15 Biotite Granodiorite to Granite
15a Unsubdivided, pink to grey, inequigranular, <15% biotite
15p Pegmatitic

INTRUSIVE CONTACT

Serrultoid Suite

14 Mafic to Intermediate Intrusive Rocks
14a Diorite, quartz diorite, tonalite; dark grey, variable % pyroxene, hornblende and biotite
14b Lamprophyre dikes; dark grey to black
14f Amphibolite, black, coarse grained, feather textured, biotite phenocrysts
14s Hornblende syenite; pink to black, coarse grained, variable % mafic minerals

INTRUSIVE CONTACT

MESOARCHEAN TO NEOARCHEAN

Tonalitic Suite

12 Tonalite to Granodiorite
12a Biotite-bearing; grey-white to pink, fine to coarse grained, 5 to 15% mafic minerals
12b Biotite ± hornblende bearing; grey to white, medium to coarse grained, > 10% mafic minerals
12m Mafic Inclusions
12p Pegmatitic
12q Quartz phenocrysts
12z Xenolithic

INTRUSIVE CONTACT

Gneissic Suite[d]

11 Tonalite to Granodiorite Gneiss
11a Felsic to intermediate; grey to white, <15% mafic minerals, short discontinuous layers, folded
11b Mafic; grey to dark grey, >15% mafic minerals, typically has mafic inclusions and/or pronounced continuous layers, folded

Mafic Suite

10 Mafic to Ultramafic Intrusive Rocks
10a Amphibolite, black, fine to medium grained, foliated, occurs as inclusions or dikes
10d Leucogabbro
10g Gabbro, diorite
10h Hornblendite; black, very coarse grained, massive
10p Metapyroxenite, metaperidotite; very coarse grained, massive

INTRUSIVE CONTACT

7 Metasedimentary Rocks
7a Unsubdivided (mainly wacke)
7c Calc-silicate skarn
7f Iron formation, ferruginous chert

6 Felsic to Intermediate Metavolcanic Rocks
6a Unsubdivided
6b Breccia, tuff breccia
6f Flow
6g Gneissic
6t Tuff, lapilli tuff, lapillistone

5 Mafic Metavolcanic Rocks
5a Unsubdivided
5b Pillowed flow
5g Gneissic
5m Migmatite

4 Ultramafic Metavolcanic Rocks
4a Unsubdivided
4k Komatiite

[a] This is a field legend and may be changed as a result of subsequent laboratory investigations. Order within map units does not imply geochronological order.
[b] Unsubdivided means that lack of clearly visible features does not allow a more precise classification using the listed rock codes.
[c] Rock codes prefixed with the letter C are compiled from previously published or unpublished sources.
[d] Rock codes prefixed with the letter G are derived from geophysical interpretation.
[e] May in part be older than unit 4.

ABBREVIATIONS

Ag ..... silver
Au ..... gold
c ..... carbonate
chl ..... chlorite
Cu ..... copper
cp ..... chalcopyrite
di ..... diopside
ep ..... epidote
fg ..... fault gouge, fault breccia
f ..... fluorite
gt ..... garnet
hem ..... hematite
mag ..... magnetite
mo ..... molybdenite
ms ..... muscovite
myl ..... mylonite
Ni ..... nickel
qv ..... quartz vein
po ..... pyrrhotite
pst ..... pseudotachylite
py ..... pyrite
serp ..... serpentine
tur ..... tourmaline
U ..... uranium
Zn ..... zinc

CREDITS

Geology by B.T. Atkinson, 1995 and 1996.

Drafting revisions by E. Amyotte, 1999.

To enable the rapid dissemination of information, this map has not received a technical edit. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Users should verify critical information.

Issued 1999.

Information from this publication may be quoted if credit is given. It is recommended that reference to this map be made in the following form:

Atkinson, B.T. 1999. Precambrian geology, Medicine Stone Lake area; Ontario Geological Survey, Preliminary Map P.3397, scale 1:50 000.

Ontario

Ontario Geological Survey

Map P.3397

PRECAMBRIAN GEOLOGY

MEDICINE STONE LAKE AREA

Scale 1:50 000

1000 m 0 1 2 km

NTS Reference: 52 L/16

[a] Queen's Printer for Ontario, 1999.

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SYMBOLS[a]

- Geological boundary, assumed
- Outcrop visited by the author
- Small outcrop visited by the author
- Graded bedding, with top
- Pillowed flow, with top
- Foliation (inclined, vertical, dip unknown)
- Syncline, position inferred
- Anticline, position inferred
- Antiform, position inferred (overturned)
- Synform, position inferred (overturned)
- Gneissosity (inclined, vertical, dip unknown)
- Joints (vertical, inclined - with dip where known)
- Mineral lineation with plunge
- Minor fold, with plunge (S-asymmetry, Z-asymmetry)
- Mineral occurrence
- Diamond-drill hole
- Fault zone, myonite zone
- Glacial striation
- Esker
- Road (main, access)
- Cabin
- Trail, portage (P100 - indicates length of portage in metres)
- Township boundary
- Provincial park boundary

[a] The position of all boundaries and surveyed lines is approximate.

SOURCES OF INFORMATION

Base map derived from map 52 L/16 of the National Topographic System, scale 1:50 000.

Ontario Department of Mines–Geological Survey of Canada 1966. Aeromagnetic series, Medicine Stone Lake, District of Kenora; Ontario Department of Mines–Geological Survey of Canada, Map 4011G, scale 1:63 360.

Ontario Department of Mines 1974. Geological series, Bulging–Embryo lakes area, District of Kenora (Patricia Portion); Ontario Department of Mines, Map P.950, scale 1:63 360.

Ontario Department of Mines 1975. Geological series, Operation Kenora–Sydney Lake, Eagle–Sydney lakes sheet, District of Kenora; Ontario Department of Mines, Map P.1026, scale 1:63 360.

Ontario Department of Mines 1975. Geological series, Operation Kenora–Sydney Lake, Pakwash–Longlegged lakes sheet, District of Kenora; Ontario Department of Mines, Map P.1027, scale 1:63 360.

Ontario Geological Survey 1993. Precambrian geology, Baird Township, east part; Ontario Geological Survey, Map P.3196, scale 1:12 000.

Ontario Geological Survey 1995. Precambrian geology, Kibble Township; Ontario Geological Survey, Map P.3248, scale 1:12 000.

Ontario Geological Survey 1976. Precambrian geology, Mulcahy Township, Kenora District; Ontario Geological Survey, Map 2295, scale 1:12 000.

Ontario Geological Survey 1981. Geological compilation series, Red Lake sheet, Kenora District; Ontario Geological Survey, Map P.2385, scale 1:126 720.

Ontario Geological Survey 1991. Geology and gold mineralization, Red Lake greenstone belt; Ontario Geological Survey, Map P.3107, scale 1:50 000.

Files (geological and geophysical survey maps and drill hole information by exploration companies) of the Resident Geologist's Office, Red Lake, Ontario.

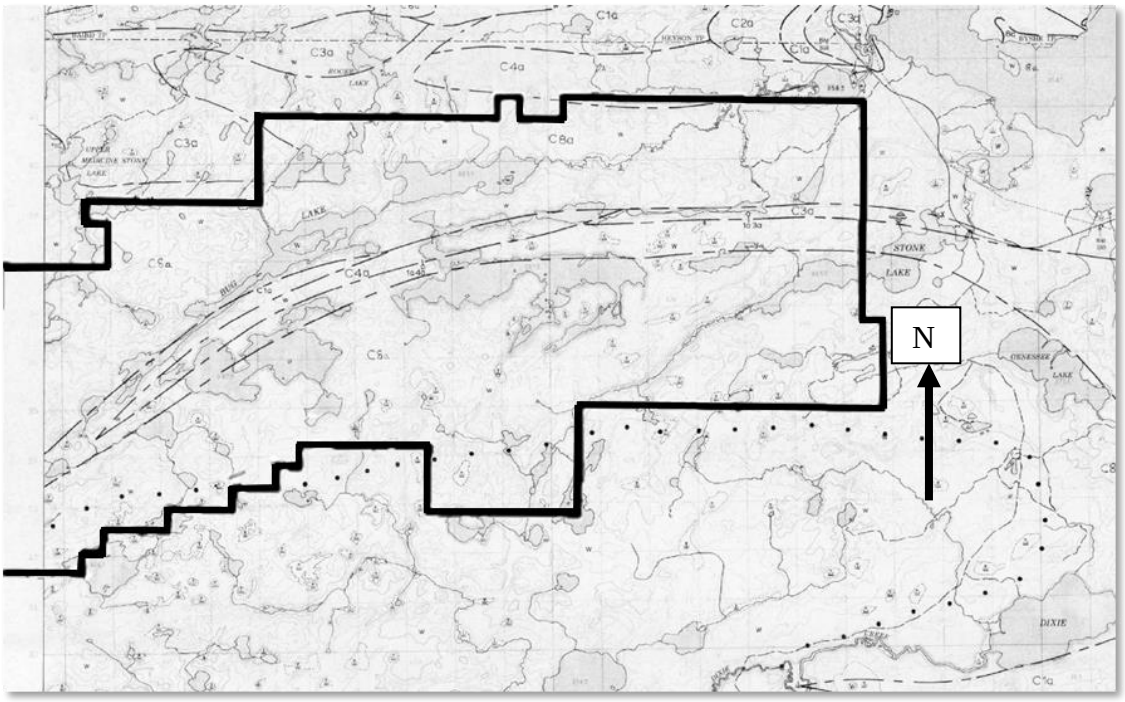
In 1999, the magnetic declination at the centre of the map area was 3° 14' east, decreasing 5.4' annually.

No drill core was logged by the author.

Metric conversion factor: 1 foot = 0.3048 m.

Figure 7 Property Geology, centre-east.

From OGS P.2857, Madsen Sheet (Thurston & Paktunc, 1985)



LEGEND

PHANEROZOIC
CENOZOIC
QUATERNARY
PLEISTOCENE AND RECENT
Till, sand, and gravel

UNCONFORMITY

PRECAMBRIAN
EARLY PRECAMBRIAN (ARCHEAN)
FELSIC INTRUSIVE ROCKS

10 — 10a Unsubdivided

MAFIC INTRUSIVE ROCKS

9 — 9a Unsubdivided Amphibolite (gabbro)

METAMORPHOSED INTRUSIVE ROCKS

8 — 8a Quartz-monzo-granodiorite; 8b Trondhjemite

INTERMEDIATE TO FELSIC INTRUSIVE ROCKS

7 — 7a Unsubdivided

METAMORPHOSED MAFIC INTRUSIVE ROCKS

6 — 6a Gabbro-diorite; 6b Diorite; 6c Quartzdiorite-gabbro; 6d Pyroxenite, peridotite

METAVOLCANICS AND METASEDIMENTS[b]
METASEDIMENTS
Chemical Metasediments

5 — 5a Unsubdivided; 5b Chert

Clastic Metasediments

4 — 4a Unsubdivided; 4b Conglomerate; 4c Orthoconglomerate; 4d Argillaceous Matrix; 4e Wacke 5% matrix; 4f Slate-argillite

METAVOLCANICS
Felsic Metavolcanics

3 — 3a Unsubdivided; 3b Flow; 3c Tuff; 3d Lapilli tuff; 3e Tuff breccia; 3f Autoclastic breccia; 3g Porphyritic felsic rocks; 3h Chlorite, sericite, biotite schist

Intermediate Metavolcanics

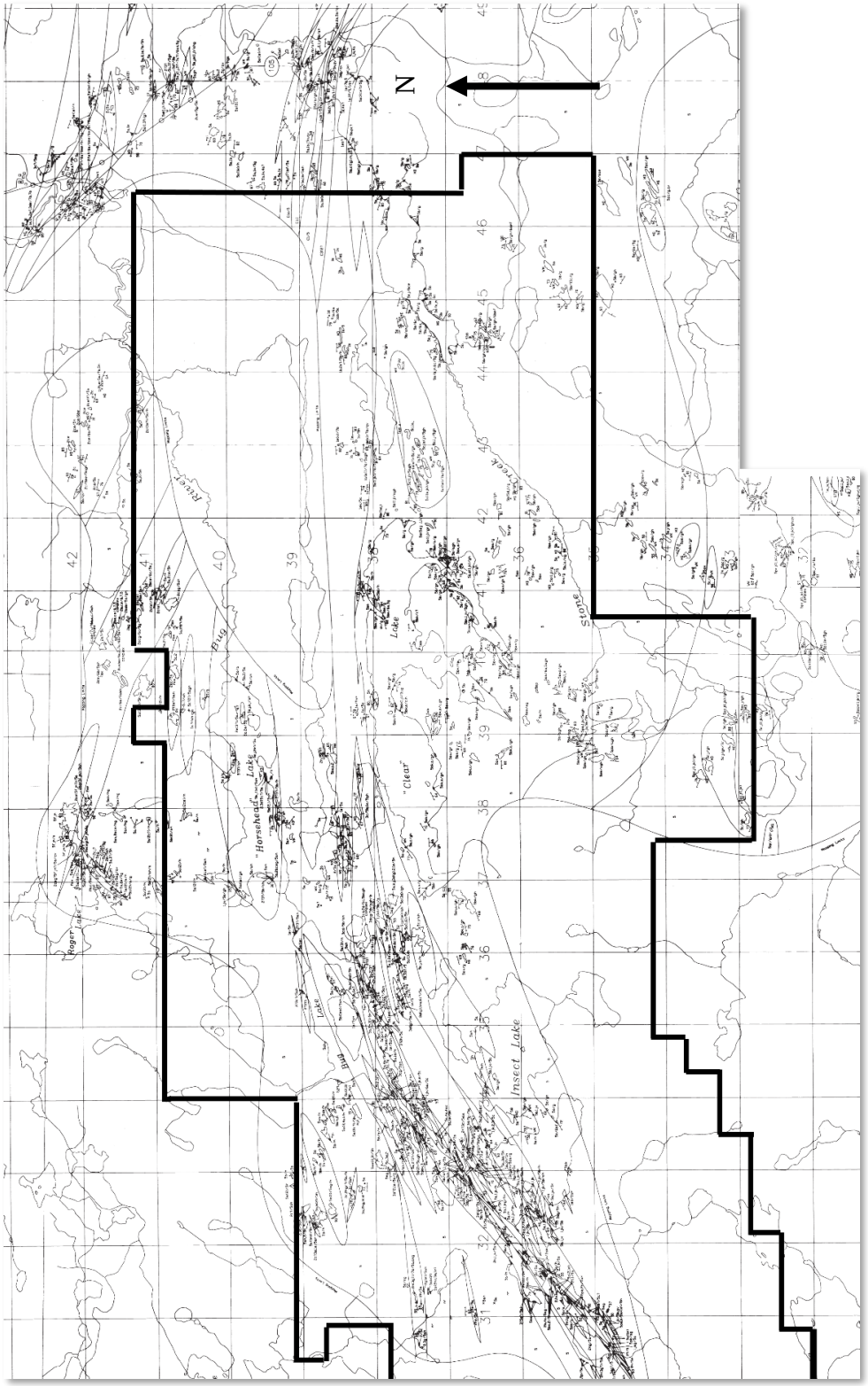
2 — 2a Unsubdivided; 2b Flow; 2c Tuff; 2d Lapillistone; 2e Lapilli tuff; 2f Tuff breccia; 2g Spherulitic and variolitic rocks

Mafic Metavolcanics

1 — 1a Unsubdivided; 1b Flow; 1c Tuff; 1d Lapillistone; 1e Tuff breccia; 1f Autoclastic breccia; 1g Pillowed flows; 1h Porphyritic rocks; 1i Pillow breccia; 1j Amphibole

NOTES
a) This is a field legend and may be modified by subsequent laboratory investigation. Outcrops with simple number codes (for example not alphanumeric codes) are interpreted from airphotos and were not examined in the field.
b) Subdivision of major rock units does not indicate age relationships.
c) The letter c preceding a rock unit number indicates information compiled from published maps.

Figure 8 Compilation geology map for centre-east of property



From Preliminary Maps. P.3299, P.3300, Muir, 1994.

LEGEND[ab]

PHANEROZOIC

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

Sand, gravel, till, clay

PRECAMBRIAN

ARCHEAN

7 **Metamorphosed Intermediate To Felsic Dikes[c]**
- 7a Quartz porphyritic dike
- 7b Feldspar porphyritic dike
- 7c Massive dike

6 **Metamorphosed Mafic Dikes[c]**
- 6a Variably foliated, medium- to fine-grained gabbro/diorite
- 6b Variably foliated, fine- to medium-grained lamprophyre
- 6c Variably foliated, vari-textured, net-veined lamprophyre dikes with exotic inclusions
- 6d Plagioclase phenocrysts
- 6e Amphibole phenocrysts
- 6f Biotite phenocrysts

5 **Metamorphosed Felsic to Intermediate Plutonic Rocks[c]**
- 5a Variably foliated, medium- to fine-grained biotite granite and quartz monzonite
- 5b Variably foliated, medium-grained biotite- and biotite-hornblende granodiorite
- 5c Variably foliated, medium-grained biotite-hornblende and hornblende-biotite tonalite
- 5d Variably foliated, medium-grained hornblende quartz diorite, hornblende quartz gabbro
- 5e Variably foliated, fine- to medium-grained hornblende quartz monzodiorite, quartz monzogabbro
- 5f Weakly foliated, fine-grained diorite with various inclusions
- 5g Aplite
- 5h Pegmatite
- 5j Plagioclase phenocrysts
- 5k Potassic feldspar megacrysts
- 5m Hornblende phenocrysts
- 5n Quartz megacrysts
- 5p Gneissic
- 5q Migmatitic
- ( ) Lists types of inclusions present

INTRUSIVE CONTACT

4 **Metamorphosed Mafic to Ultramafic Rocks[c]**
- 4a Gabbro
- 4b Pyroxenite/Hornblendite
- 4c Plagioclase phenocrysts

Metasedimentary Rocks

3 **Clastic And Chemical Metasedimentary Rocks[c]**
- 3a Feldspathic siltstone
- 3b Medium to dark gray siltstone
- 3c Lithic arkose, arkose
- 3d Lithic arkosic wacke, arkosic wacke
- 3e Pebble to cobble conglomerate
- 3f Magnetite iron formation±chert
- 3g Gneissic (undifferentiated sandstones unless followed by qualifier)

Metavolcanic Rocks[c]

2 **Felsic To Intermediate Metavolcanic Rocks[c]**
- 2a Massive felsic rocks
- 2b Felsic tuff, lapilli-tuff
- 2c Intermediate tuff, lapilli-tuff
- 2d Intermediate pyroclastic breccia
- 2e Plagioclase phenocrysts
- 2f Quartz phenocrysts
- 2g Amphibole phenocrysts
- 2h Gneissic (undifferentiated unless followed by qualifier)

1 **Mafic Metavolcanic Rocks[c]**
- 1a Massive flows
- 1b Pillowed and locally amygdaloidal flows
- 1c Variolitic flows
- 1d Medium- to coarse-grained flows or gabbro intrusions
- 1e Amphibolite
- 1f Coarse-grained plagioclase phenocrysts
- 1g Medium- to fine-grained plagioclase phenocrysts
- 1h Amphibole phenocrysts/porphyroblasts
- 1j Gneissic (undifferentiated unless followed by qualifier)
- 1k Epidote layers and lenses

SYMBOLS


Foliation, 1st generation: inclined, vertical


Foliation, 2nd generation: inclined


Foliation, 3rd generation: inclined


Foliation, unknown generation A: inclined


Foliation, unknown generation B: inclined


Shear foliation, 1st generation: inclined


Shear foliation, 2nd generation: inclined, vertical


Shear foliation, 3rd generation: inclined


Cleavage, 1st generation: inclined


Cleavage, 2nd generation: inclined, vertical


Cleavage, 3rd generation: inclined


Crenulation cleavage, Z asymmetry: inclined


Crenulation cleavage, Z asymmetry, 3rd generation: inclined


Fracture: inclined, vertica


Gneissosity: inclined


Axial plane: inclined


S-Fold axial plane: inclined


Z-Fold axial plane: inclined


Shear, left lateral: inclined


Shear, right lateral: inclined


Vein: inclined, vertical


Crenulation lineation, 3rd generation: plunging


Elongation lineation: plunging


Mineral lineation: plunging


Intersection lineation: plunging


Slickenside lineation: plunging


U-Fold axis: plunging


Glacial striae

ABBREVIATIONS

MINERALS

cb ..... carbonate	mt ..... magnetite
gh ..... graphite	po ..... pyrrhotite
gt ..... garnet	py ..... pyrite
mo ..... molybdenite	tm ..... tourmaline

STRAIN INTENSITY

WK ..... weak	MS ..... moderate to strong
WM ..... weak to moderate	ST ..... strong
MD ..... moderate	IN ..... intense

MISCELLANEOUS

/ ..... intruded by	pst ..... pseudotachylite
qv ..... quartz vein	alt ..... alteration (bleaching; silicification?)
myl ..... mylonite	nr ..... no outcrop (field confirmed)
fbx ..... fault breccia	
cat ..... cataclasite	

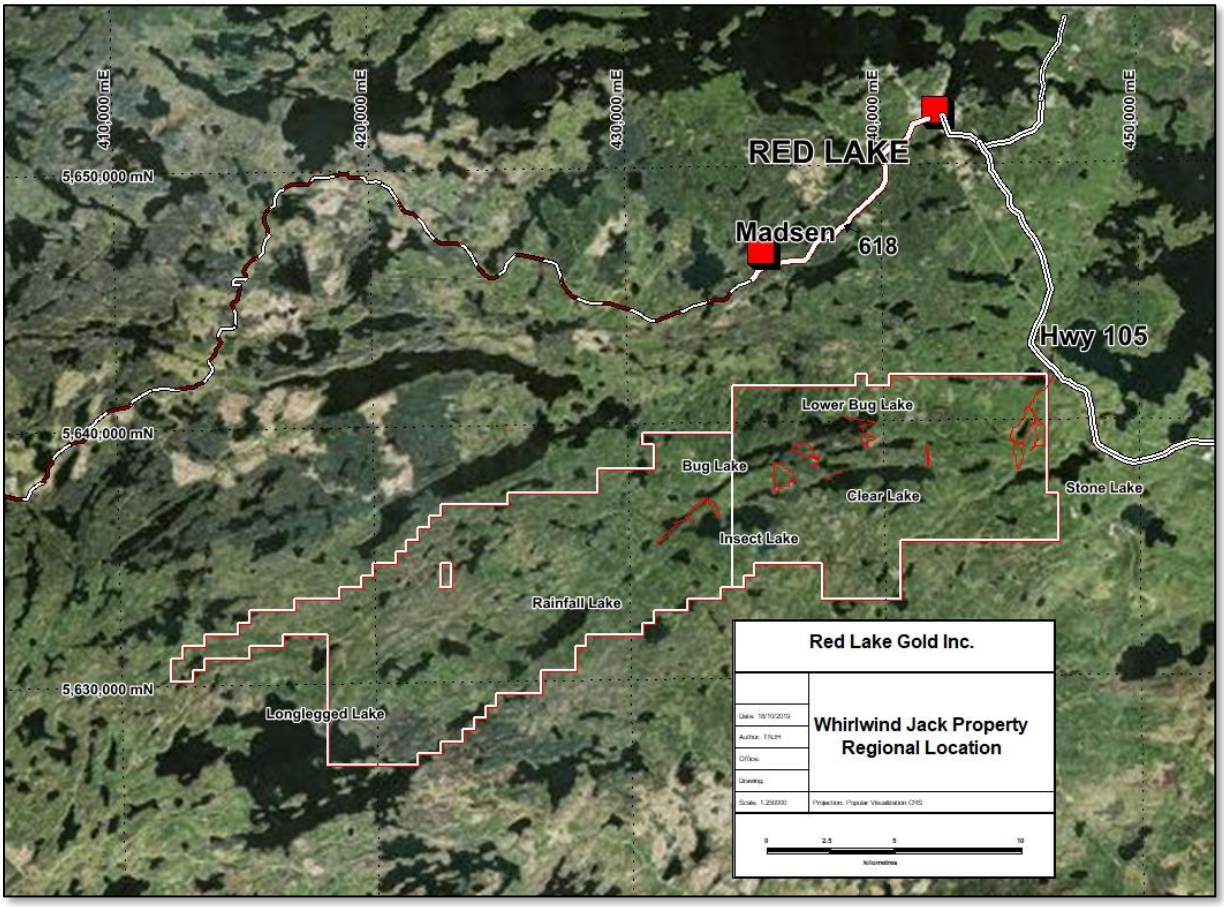
6.0 2019 PROSPECTING

Following a review of historical property work, related semi-regional geology and exploration, and analysis of regional, airborne geophysical surveying, several areas were chosen for ground truthing and prospecting.

Preliminary field investigations focussed on characterisation of the volcano-sedimentary sequence, loosely defining the extent and location of the mainly north-bounding granitoid and the South-bounding tonalite intrusive suites, and assessing the overall geology and terrain in order to develop a comprehensive ground exploration programme. All samples were reasonably representative grabs taken with a geological hammer, with locations recorded using a handheld GPS.

Between the 23rd September and 3rd October, four areas were prospected, these being the West end of Bug Lake; central Bug Lake, South to Alcock Lake, and East Lower Bug Lake; North of Clear Lake, and an area between Stone Lake and Bug Creek in the north-east of the property.

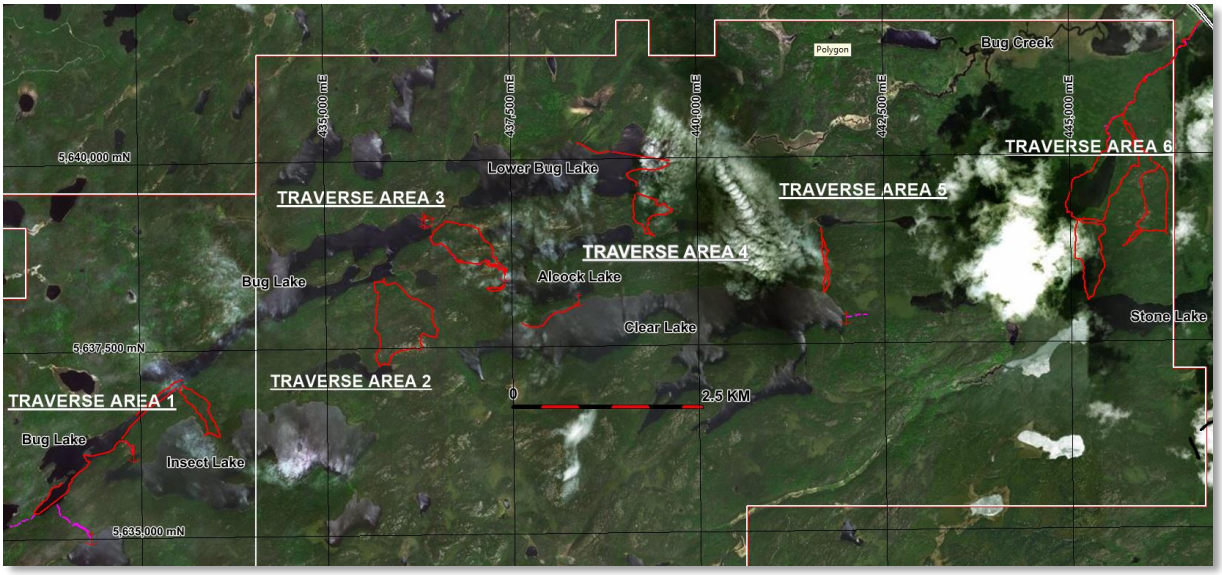
Figure 9 Regional Location



Far eastern and north-eastern areas were accessed by road, boat and foot, with reasonably good access to the property. All other areas were accessed by float plane, using a cabin at the East end

of Bug Lake as a base for traverses to the East and West. The areas of investigation are shown below, figure 10, with traces of the traverses displayed as red lines. Detailed information follows. Datum is NAD 83 Zone 15. Navigation used a Garmin GPSmap 62S.

Figure 10 Traverse areas



Dates of examination of the areas are as follows:

Traverse Area 1: 29th September
Traverse Area 2: 27th September
Traverse Area 3: 26th, 27th and 30th September
Traverse Area 4: 28th September
Traverse Area 5: 29th September
Traverse Area 6: Northern, western and eastern portions on 23rd and 24th September; Southern and south-eastern portions on the 3rd October.

6.1 SUMMARY OF FINDINGS

Area 1

This included shoreline examination of the North and South shores of the West end of Bug Lake. The effects of the granitoid intrusion are widespread and pervasive. Granodiorite, monzodiorite, plagiogranite, minor granite, s.s., granite gneiss and more potassic, alkalic, often coarser igneous phases have intruded a suite of interbanded, often layered, gneissic supracrustal rocks. Compositions of the supracrustal sequence are relatively homogeneous due to the modifying effects of the intrusion(s), regional metamorphism and related deformation. Mineralogies are combinations of feldspar (plagioclase)-biotite-amphibole-quartz, with significant to negligible potassic overprint. Crystal habit and size variation provide some clues as to the origin of some of the lithologies, with sedimentary units classified on the basis of more variable crystal size, more distinct and prevalent layering, and obviously, quartz content with weak to negligible amphibole.

Distinct sedimentary textures are rare. A mixture of quartz-rich and feldspar-amphibole rich layers suggests intercalated flows and sediments, or volcaniclastic rocks. Several exposures of quite silicic, usually much finer grained, quite homogeneous rocks were considered to represent felsic-intermediate volcanic lithologies.

Granite intrusion and modification can be widespread, and manifest as a gradational transition via feldspathization of the country rock, or often sharp, discordant or layer parallel intrusion with negligible contact metamorphism or mineral diffusion. Supracrustal rocks may appear granitised or simply veined by granitoid material. Pure quartz veining was rarely noted.

Structural fabrics are principally an S_2 lineation defining the main mineral fabric. Where gneissic banded fabrics are prevalent, S_2 is parallel. Small scale, tight to isoclinal and rarely, intrafolial folding is poorly preserved. There are reasonably well-preserved examples of steeply East plunging L1/L2 lineations. Such sub-metre-scale phenomena have been largely destroyed by lateral and sub-vertical D_2 thrusting and subsequent regional scale strike-slip faulting. This is evidenced by shoreline exposures of shallow, typically South-dipping supracrustals overlain and in some locales, underlain by concordant granite, with sharp, planar contacts and sub-metre-wide protomylonitic fabric development (seen coarsely as finer gneissic layering).

Despite the generally poor exposure of the supracrustal sequence, there is sufficient bedding-cleavage and simple S_2 and bedding changes to indicate the presence of significant upright to steeply dipping, locally overturned supracrustals subsequently infolded and injected by granitoids. The middle of the south-west portion of Bug lake clearly defines a broad moderately dipping relatively upright antiform.

Distinctly magnetic units, be they amphibolite or iron formation were not discovered, and overall, magnetism is weak and typically negligible in all units.

No sulphides were noted during field investigations.

Area 2

Located on the South shore of the central portion of Bug Lake with basically the same lithological, structural intrusive characteristics as Area 1, though shallow-dipping sequences are poorly preserved. Shoreline exposures of steeply to sub-vertically dipping granitoid indicate the entire sequence is also steeply dipping, with extensive exposures of same to the South. Therein are exposed a multitude of sub-metre-wide, strongly altered, often highly flattened, dislocated, pinched, and probably boudinaged supracrustal layers with erratic, often short strike extent. Some stacking arising from dislocated mesoscopic isoclinal folding is likely within both mafic-intermediate volcanic and sedimentary sequences. Several felsic-intermediate exposures were also noted. Dislocation (fault) distances are unknown.

Within this area and continuing East are large well exposed ridges of pale pink monzodiorite that are clearly visible on satellite imagery. (These are widespread across the property and to the South and West.)

Distinctly magnetic units, be they amphibolite or iron formation were not discovered, and overall, magnetism is weak and typically negligible in all units. Several airborne geophysical magnetic highs appear co-incident with large expanses of granitoid, exposures reveal very weak to negligible magnetic material, suggesting they are related to buried more strongly magnetic material within the granitoid sequence.

No sulphides were noted during field investigations.

Area 3

Traverse area 3 is the locale for the most significant work on the property, notably by Teck, Selco, Precambrian Ventures and Grandcru (see 'History').

Teck's direct involvement is poorly documented, though it's likely they carried out some geophysical work in the area, and certainly farther East, where there is assessment work documentation (see Area 6). Selco carried out airborne geophysics then MaxMin EM and ground magnetometer surveys, defining several probably stratigraphic conductors, with several shown below, figs., 11 and 12.

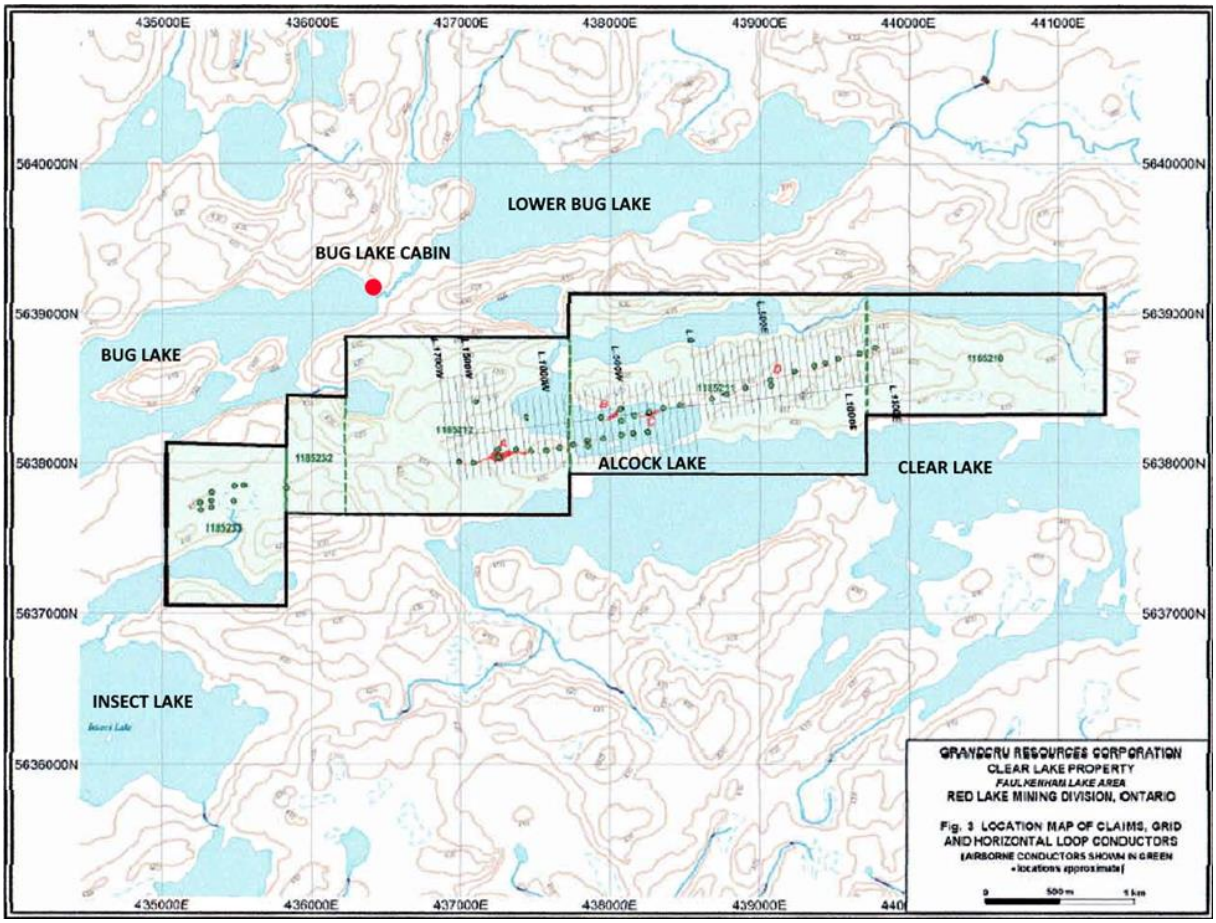
Assessment reports note they may have drilled a hole to test one conductor, though the location could not be found by Grandcru and its' contractors, and the drill core was understood to have been lost.

In the past, geological information on the area was gathered from reconnaissance and grid mapping, (the latter by Precambrian Ventures and Grandcru), though save for the location of two small lengths of cut line and a grid just west of the West shore of Alcock Lake, any other grid has been lost through fire, storms and related windfall. A broad east north-east band of (meta)sedimentary rocks is flanked by mafic volcanic rocks, with conductors located within both sequences. Investigations by the author suggest this is an oversimplification, with significant, albeit often very thin interlayered granitoid-supracrustals or merely relict lensoid to streaky gneissic to, in extreme instances, xenocrystic supracrustal material within largely poorly altered but moderately deformed potassic granitoid, a feature very prevalent to the West.

Across the property, the larger exposures of granitoid display quite complex relationships with the supracrustal sequence and on slopes and flat areas, with expansive forest cover, there's likely a similar relationship though with one suspects, better preserved volcano-sedimentary units. Cross-property, overburden thickness could be considerable based on extensive boulder terrain covered with thick moss or third generation mixed bush. Ridge slopes clearly show the size and extent of the boulder terrain, which drapes the topography and infills lower topography.

Personal field observations indicate the same lithological, structural and mineralogical relationships to those in areas one and two. As part of the investigations, a check was made on the mineralised occurrences 'A' and 'B' described in Grandcru's reports accompanying their soil and MMI geochemical work. (see 'History'). The two locales are the sites of mineralised and barren float, with no known provenance. Locations are shown in fig. 11.

Figure 11 EM conductor trends, Grandcru, 2004



Note: Original assessment report imagery is poor – enhancements were made where possible

Sampling of a central portion of this area was carried out, with what was considered to be volcanic and sedimentary lithologies. Results were inconclusive.

Area 4

A similar sequence was noted during a traverse southwards, from the south-(east) shore of Lower Bug Lake. Extensive, largely unaltered granitoid flanks narrow, often less than 10-metre-wide east-north east trending, steeply dipping sediments, mafic-intermediate volcanic rocks, all with varying degrees of felsic alteration from negligible to near-complete assimilation. (Fig. 11, overleaf). Earlier published work in assessment files (Grandcru) indicates only granitoid in the area. This sequence would be sub-parallel to that in the Alcock Lake area (fig. 10), separated by granite, or represent a dislocated extension trending across the property to the East.

No sulphides were located in this area.

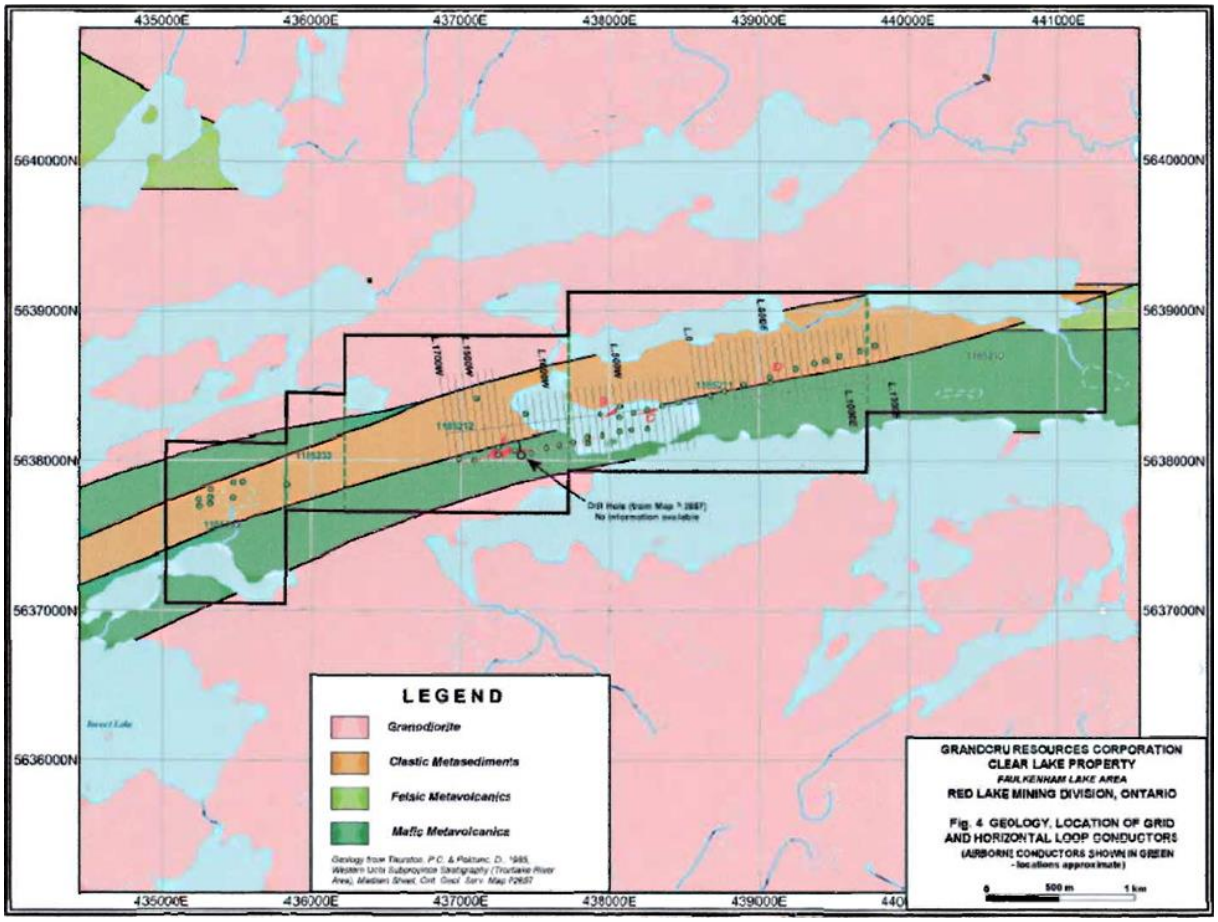


Figure 12 Generalised Geology, with EM Conductor, Grandcru, 2004

Note: Original assessment report imagery is poor – enhancements were made where possible

It is quite apparent that the mafic volcanic-sediment-mafic volcanic sequence shown above is grossly simplified. It can appear interlayered with, intruded, injected or veined by, granitoid, with minor to considerable granitisation and gneissic development. Several fairly well-preserved, i.e. unaltered supracrustal zones were noted, they ranging in width from a few metres to ten of metres in width. This can be seen in the larger granite exposures and thicknesses are probably greater in low-lying, heavily forested areas.

Area 5

The traverse was designed to avoid the large granitoid exposures and locate supracrustal sequences. Much of the area is underlain by relatively flat-lying, forest, or centrally, muskeg. There are likely expansive exposures of granitoid to the East (based on satellite interpretation and regional magnetic data). Only very small, discontinuous and narrow outcrops of supracrustals were located, with these recorded as mainly homogeneous, mafic-intermediate volcanic rocks.

No sulphides were located in this area. If large wide granitoid ridges represent the majority of the underlying geology, then the area is more representative of hosting more significant sequences of

supracrustal rocks. Compared to western exposures, there is a slight decrease in granitoid alteration, and better preservation of albeit very minor sedimentary textures, this due in no small part to a lower strain regime.

No sulphides were located in this area.

Area 6

This covers the easternmost areas traversed. Expansive granitoid was noted North of scattered but relatively broad and better preserved supracrustal rocks, characterised by low strain deformed mafic-intermediate flows, pillow lavas with interflow sediments, medium to fine grained intermediate-mafic volcanic derived sediments and felsic volcanic rocks, the latter defined by fine blastic felsic mineralogies, coarser, elongate lapilli pyroclastic or banded rocks. Northern contacts between intrusion and supracrustal are defined by a broad, up to 100-metre-wide alteration zone where the latter may appear banded, lensoid, streaky to xenoblastic, variably to negligibly feldspathised, a phenomenon also noted in Areas 1 through 4. Most supracrustal exposures show only weak to no feldspathization/'granitisation'. The southern contact with the basement granitoid and granite gneiss was not seen in Area 6, though it may be fault related. Clear evidence is lacking. Basement gneiss exposures are seen on the North and South shores of Stone Lake.

In general, cross-property, a transitional northern contact possesses these same characteristics, whilst a southern one is hidden, displaying similar, but much more poorly exposed trends.

The relationship between these two main sequences and the tonalitic basement exposed at shoreline along Clear Lake is unknown due to cover.

Several magnetic high trends were crossed, but there is no apparent lithological signature.

No sulphides were noted on these traverses, except very fine pyrite and perhaps trace chalcopyrite in sample 5562267 and elsewhere in the immediate area, wherein crops out significant exposures of volcanic rock.

In accordance with MNDM regulations on technical and assessment report writing, below, Table 1 provides information on terrain, vegetation, drainage and outcrops. Waypoint locations are provided for all observation stations. Table 2, following, is a summary of samples taken with related waypoint and GPS locations.

Table 2 Waypoint Locations, terrain and outcrop descriptions

Waypt No.	Date	Easting	Northing	Elevation	Comments	Sample Number
2	23.9.19	446510	5641490	412	At trail to property	
3	23.9.19	445600	5640020	412	Mixed bush, mainly poplar and spruce	
4	23.9.19	445010	5639190	413	Mixed bush, mainly poplar and spruce	
5	23.9.19	445470	5638930	412	Mixed bush, mainly poplar and spruce	
6	23.9.19	445490	5639200	413	Mixed bush, mainly poplar and spruce	
7	23.9.19	445910	5639820	412	Mixed bush, mainly poplar and spruce	
8	23.9.19	445730	5639700	413	Mixed bush, mainly poplar and spruce	
9	23.9.19	445940	5640230	413	Mixed bush, mainly poplar and spruce	
11	23.9.19	446597	5641817	365	Car Park, trail	
12	23.9.19	446578	5641439	366	Mixed bush, mainly poplar and spruce	
13	23.9.19	446478	5641415	367	Mixed bush, mainly poplar and spruce	
14	23.9.19	446447	5641345	368	Mixed bush, mainly poplar and spruce	
15	23.9.19	446409	5641280	370	Mixed bush, mainly poplar and spruce	
16	23.9.19	446378	5641212	376	Mixed bush, mainly poplar and spruce	
17	23.9.19	446322	5641165	376	Mixed bush, mainly poplar and spruce	
18	23.9.19	446277	5641137	376	Mixed bush, mainly poplar and spruce	
19	23.9.19	446181	5641093	374	Mixed bush, mainly poplar and spruce	
20	23.9.19	446108	5641046	372	Mixed bush, mainly poplar and spruce	
21	23.9.19	446060	5641034	372	Mixed bush, mainly poplar and spruce	
22	23.9.19	446029	5641003	372	Mixed bush, mainly poplar and spruce	
23	23.9.19	446005	5640975	374	Small trail heading SE to S to an old camp site	
24	23.9.19	446017	5640945	377	Old campsite	

25	23.9.19	445923	5640869	381	Mixed Bush	
26	23.9.19	445892	5640807	386	Mixed Bush	
27	23.9.19	445884	5640718	392	Mixed Bush	
28	23.9.19	445851	5640677	396	Mixed Bush	
29	23.9.19	445781	5640637	401	"Ridge" top, relatively flat	
30	23.9.19	445716	5640526	405	Mixed Bush	
31	23.9.19	445681	5640503	406	Mixed Bush	
32	23.9.19	445665	5640498	407	Fairly flat, mainly birch	
33	23.9.19	445622	5640490	408	Mixed Bush	
34	23.9.19	445567	5640453	410	Mixed Bush	
35	23.9.19	445511	5640366	412	Y junction of trails	
36	23.9.19	445511	5640367	411	Mixed Bush	
37	23.9.19	445511	5640367	412	Mixed Bush	
38	23.9.19	445512	5640350	412	Mixed Bush	
39	23.9.19	445499	5640303	412	Mixed Bush	
40	23.9.19	445492	5640274	415	Mixed Bush	
41	23.9.19	445530	5640262	414	Mixed Bush	
42	23.9.19	445549	5640228	412	Mixed Bush	
43	23.9.19	445528	5640195	411	Mixed Bush	
44	23.9.19	445498	5640156	413	Mixed Bush	
45	23.9.19	445494	5640130	410	Trail turns South	
46	23.9.19	445505	5640094	411	Mixed Bush, increasing spruce and wet	
47	23.9.19	445544	5640032	409	N. end of the lake, with old boat	
48	23.9.19	445489	5640038	410	Flat, shoreline heading SW	
49	23.9.19	445456	5640022	411	Slight rise into mixed bush, mainly poplar, minor spruce, birch	
50	23.9.19	445378	5639930	417		
51	23.9.19	445353	5639896	420		
52	23.9.19	445303	5639800	428	Massive to homogeneous pink to reddish grey granitoid with several cm wide, slightly rusty amphibole rich mafic volcanic gneiss bands	
53	23.9.19	445303	5639802	429	Same outcrop as previous	
54	23.9.19	445289	5639781	428	Heading SSW, same outcrop essentially	
55	23.9.19	445280	5639766	429	Same outcrop going down to the E.	
56	23.9.19	445251	5639754	429	Small outcrop. Qz-feldspar-biotite granitoid, weakly alkalic	
57	23.9.19	445220	5639742	430	Subcrop & outcrop of quite silicic granitoid, with patchy overprinting alkalic granite (potassic feldspar)	
58	23.9.19	445204	5639732	429		

59	23.9.19	445190	5639720	430	Grey med. grained poorly lineated granitoid/plagiogranite.	
60	23.9.19	445160	5639713	430	Pale pink-gey, med grained granitoid, quartz-feldspar-biotite with weak alkalic content (and variable). Quite homogeneous	
61	23.9.19	445127	5639700	430	As preceding. Topography is down to the S and SE	
62	23.9.19	445102	5639683	429	Outcrop + float. Shows relict mafic volcanic material in potassic feldspar rich felsic volcanic	
63	23.9.19	445086	5639677	429	Outcrop of mafic volcanic as lenses or bands in felsic igneous rock (quartz-biotite-potassic feldspar-plagioclase)	
64	23.9.19	445066	5639681	431	Outcrop of 90% + plagiogranite to potassic granite/monzodiorite	
65	23.9.19	445053	5639677	430	Outcrop appears previously bashed. ML images	
66	23.9.19	445022	5639526	414		
67	23.9.19	444959	5639386	409		
68	23.9.19	444955	5639380	408	Flat, relatively wet, mainly deciduous bush	
69	23.9.19	444955	5639380	410	Flat, relatively wet, mainly deciduous bush	
70	23.9.19	444942	5639316	410	Flat, relatively wet, mainly deciduous bush	
71	23.9.19	444952	5639277	410	Mixed Bush, drier	
72	23.9.19	444955	5639240	413	Mixed Bush, drier	
73	23.9.19	444955	5639225	414	Mixed Bush, drier	
74	23.9.19	444960	5639214	414	E-W knoll 60 m long and 20 m N-S. Possible sub/crop. Target area is in lowland birch, with no outcrop	
75	23.9.19	444991	5639224	414	Heading to 445470/ 5638930, the mag high is South of the target area, parallel to a creek.	
76	23.9.19	445034	5639213	415		
77	23.9.19	445097	5639125	421	Outcrop approx. 60 m E-W and 30 N-S, with more expansive subcrop only (moss). Banded intermediate volcanic rock, well finely banded, pale grey, mainly quartz-(plagioclase) biotitic with weak amphibole. Contains fabric parallel quartz-	

					plagiogranite veins and bands. Trends 090, dips steeply North	
78	23.9.19	445156	5639125	420		
79	23.9.19	445190	5639128	421		
80	23.9.19	445263	5639120	423	Subcrop	
81	23.9.19	445265	5639120	424	Subcrop	
82	23.9.19	445298	5639120	426		
83	23.9.19	445323	5639125	427		
84	23.9.19	445351	5639111	428		
85	23.9.19	445367	5639108	429	Epicentre of large E-W granite outcrop, trending E for 150 m. Intermediate gneiss? With considerable if not predominantly felsic intrusive material. Dips are E-W sub-vertical to North steep. Plagioclase rich volcanic bands. Lineated to gneissic texture, fine to medium grained supracrustal material.	
86	23.9.19	445373	5639105	427		
87	23.9.19	445451	5639028	419		
88	23.9.19	445466	5638985	418	Edge of bog	
89	23.9.19	445467	5638985	418	Edge of bog	
90	23.9.19	445464	5638951	418		
91	23.9.19	445455	5638939	418		
92	23.9.19	445455	5638937	417	Middle of bog. Labrador Tea, tamarack, small pine. 60 m South heading into poplar/mixed bush again	
93	23.9.19	445467	5639003	417		
94	23.9.19	445461	5639141	416		
95	23.9.19	445479	5639163	416		
96	23.9.19	445468	5639181	414		
97	23.9.19	445471	5639210	413	20 m ESE to target. Low, flat, and 1-2 degrees up to the North. Dense alders, wet. No outcrop	
98	23.9.19	445522	5639358	414		

99	23.9.19	445527	5639410	412	NE trending pink weathered granitoid. Lineated, med grained, non-magnetic, grey, non-magnetic. In an exposed outcrop showing considerable granitoid intrusive material and modification.	
100	23.9.19	445588	5639458	416	N. end of same outcrop	
101	23.9.19	445609	5639482	418		
102	23.9.19	445631	5639522	421		
103	23.9.19	445650	5639554	424		
104	23.9.19	445660	5639569	424		
105	23.9.19	445678	5639604	427	N-S trending outcrop, exhibiting low strain. Quite homogeneous, weakly potassic plagiogranite to slightly monzodioritic	
106	23.9.19	445687	5639633	428	As preceding, with low to negligible strain.	
107	23.9.19	445687	5639633	428		
108	23.9.19	445687	5639633	427		
109	23.9.19	445697	5639652	428	Homogeneous plagiogranite to monzodioritic. Pink quite massive, med grained, weathering to dirty pale pink to pale reddish brown. Plagioclase-rich host.	
110	23.9.19	445723	5639669	428		
111	23.9.19	445738	5639693	429	New outcrop with float and boulders. Trends North for 30 m and E-W 30 m Subcrop for 35 metres. Less than 5% potassic/sodic feldspar. Biotitic in both felsic volcanic rocks	
112	23.9.19	445795	5639763	426		
113	23.9.19	445829	5639811	428		
114	23.9.19	445846	5639845	428		
115	23.9.19	445886	5639818	430	Possible outcrop of previous lithology	
116	23.9.19	445876	5639819	428		
117	23.9.19	445877	5639838	428	Small outcrop monzodiorite to weakly potassic quartz diorite to granodiorite	

118	23.9.19	445911	5639958	427	SW corner of large outcrop, trending 50 m N-S and 35 E. As preceding lithology	
119	23.9.19	445884	5640030	426	Open area with old jackpine - old campsite for logging. No outcrop.	
120	23.9.19	445874	5640036	427	Low lying, cleared bush with immature mainly deciduous and sparse conifer trees	
121	23.9.19	445844	5640126	421	Low lying, cleared bush with immature mainly deciduous and sparse conifer trees	
122	23.9.19	445820	5640334	410	Low lying, cleared bush with immature mainly deciduous and sparse conifer trees	
123	23.9.19	445807	5640385	407	Low lying, cleared bush with immature mainly deciduous and sparse conifer trees	
124	23.9.19	445761	5640401	407	Low lying, cleared bush with immature mainly deciduous and sparse conifer trees	
125	23.9.19	445737	5640417	405	Creek to the North.	
126	23.9.19	445735	5640450	403	In creek, at beaver dam	
127	23.9.19	445707	5640519	403	Exit point on trail to car park. Flagged	
130	24.9.19	445994	5639178	404		
131	24.9.19	445881	5638955	403		
132	24.9.19	445744	5638793	401		
133	24.9.19	446266	5638957	403		
134	24.9.19	446297	5639287	403		
135	24.9.19	445870	5639850	403	Pink granodiorite. Homogeneous	
136	24.9.19	445953	5640121	435	As preceding outcrop	
137	24.9.19	446019	5640046	433	Small outcrop 5b	
138	24.9.19	446049	5640004	433	NE end of outcrop monzodiorite to plagiogranite. outcrop extends W for 20 m and SW for 50 m.	
139	24.9.19	446075	5639929	431		
140	24.9.19	446104	5639893	430	Small outcrop 5b, with larger outcrop to the West.	
141	24.9.19	446177	5639846	429	Walking over expansive granodiorite exposures	
142	24.9.19	446194	5639834	429	Same outcrop, extending S for 40 m, W for 45 m and SE for 60 m, and E for 40 m. Massive, homogeneous, with rare pegmatitic	

					alkalic material. NVS NM, NS	
143	24.9.19	446176	5639809	428	Outcrop same lithology as preceding	
144	24.9.19	446163	5639787	428	Outcrop new	
145	24.9.19	446150	5639770	430	Outcrop	
146	24.9.19	446135	5639763	430	Same outcrop as preceding. Felsic intrusion, plagiogranite to monzodioritic with alkalic bands and veining	
147	24.9.19	446090	5639758	433	Quite alkalic felsic intrusion.	
148	24.9.19	446058	5639747	434	Edge of previous outcrop	
149	24.9.19	446034	5639743	433	Edge of another felsic outcrop, with similar lithologies	
150	24.9.19	446016	5639746	435	Epicentre of previous outcrop. Target area is outcrop of same lithology. Cannot discern any significant magnetic component. Minor probably amphibole rich bands but quite rare, and dm scale, maximum. More outcrop to the North, 80 m away.	
151	24.9.19	445968	5639700	434	Heading to next target area. Edge of large outcrop and walking along it. Lithology as preceding	
152	24.9.19	445956	5639682	434	Same outcrop as preceding. Felsic intrusion, plagiogranite to monzodioritic with alkalic bands and veining	
153	24.9.19	445962	5639648	431	Heading downslope, with a series of parallel felsic outcrops.	
154	24.9.19	445953	5639628	429	As preceding	
155	24.9.19	445969	5639609	424	Outcrop massive relatively homogeneous felsic intrusion. 5a. 5c (govt) type. outcrop extends SW for 70 m and 50 m W. Target '3' is 35 m SE in same lithology. (small outcrop, so magnetic high could be unexposed)	

156	24.9.19	445969	5639572	424	Heading to next target area, SSW onto a long ridge with bands of sub-metre wide mafic gneiss. Grey, with sub-parallel and oblique cutting (steep) alkalic granite to pegmatite. Some relatively unaltered mafic volcanic material preserved but still essentially gneissic to massive finer grained, greenish grey. Typically, however, banded to streaky, with pronounced assimilation by 'granite'. outcrop extends W for 40 m, and to the S. Overall, the felsic host is quite massive, with weak to only localised strain (fabric developed).	
157	24.9.19	445971	5639432	414	Into muskeg	
158	24.9.19	446011	5639375	414	Heading into mixed bush (MB), relatively flat	
159	24.9.19	446008	5639363	414		
160	24.9.19	446011	5639338	415		
161	24.9.19	446011	5639309	421	Up onto low small outcrop of 5b/1a (govt) type, essentially gneissic mafic-intermediate gneiss	
162	24.9.19	446009	5639289	426	Undulose slow weak rise up onto large outcrop. Essentially granitoid, with very rare relict ?mafic-intermediate volcanic material Slight development of strain within the intrusion, which host weak, sub-planar to slightly wavy (boudinage type) supracrustal material Host is weakly alkalic. Fabric is weak, irregular. Supracrustal was deformed, flattened, intruded by granitoid then intruded by more pegmatitic alkalic material	
163	24.9.19	446012	5639255	429		

164	24.9.19	446018	5639236	431	Onto another large outcrop extending S for 80 + m, and W for 70 m. Highest point in area with view of distant Hwy. Locally banded streaky to flattened pseudo fragmental mafic material trending 140. Trace magnetite noted. Looks like very elongate parallel lithophysae in a plagioclase-quartz rich host	
165	24.9.19	446042	5639187	428	Heading South with outcrop all around. Very open park like outcrop continues E and S. 90% + pale pink weathering plagiogranite to monzodiorite	
166	24.9.19	445984	5639144	433	Same outcrop	
167	24.9.19	445956	5639114	427	Same outcrop	
168	24.9.19	445901	5639050	425	Same outcrop. In part lineated to gneissic 272, North 80, with 5% reddish vein type alkalic granite. Relict mafics are grey, finely banded quartzose, and possibly intermediate to volcaniclastic. Evidence of past work in area, with chain sawn trees. Possible trail but to where?	
169	24.9.19	445900	5639011	426	Possible evidence of past geology work (bashing). 1a-2a type. Fine-med grained, locally almost aphanitic, and considered to be an intermediate volcanic rock. Boudinage supracrustal material also present. NS, NVS, NM	5562274
170	24.9.19	445870	5638953	422		
171	24.9.19	445883	5638950	420	Onto an outcrop of relatively homogeneous 2a/2g (govt) type	
172	24.9.19	445884	5638893	414	Heading to ML 24 waypoint 26. Down to a small outcrop of mafic-intermediate volcanic exhibiting high strain	
173	24.9.19	445865	5638878	413	Heading down but along strike with same lithologies seen. Minimum width of unit is 20 m.	

174	24.9.19	445866	5638861	408	Poplar and birch bush with an exposure of weakly alkalic pinkish plagiogranite. Crossing a major E-W fault then down and flat terrain. Essentially heading along strike to the target area	
175	24.9.19	445820	5638838	411	Small exposure of 1-2a/gneiss	
176	24.9.19	445742	5638786	406	Open bush	
177	24.9.19	445742	5638786	406	Ditto with old jackpine	
178	24.9.19	445700	5638757	403	Blobby outcrop possibly only subcrop of 1-2A? Quite homogeneous, with apparent low strain, and relatively little differentiation appearing like a fine-med grained feldspar-quartz-biotite-amphibole lithotype. Steep S dips	
179	24.9.19	445806	5638878	416	Up as outcrop steps Northwards onto more 1a/2A	
180	24.9.19	445813	5638898	421	Med grained, intermediate to sediment gneiss. Paler, transitioning to ?- N dips, with negligible igneous material	
181	24.9.19	445829	5638917	423	As preceding	
182	24.9.19	445932	5638972	421	Small outcrop of 1-2a type.	
183	24.9.19	445945	5638997	425	Grey, felsic plagiogranite + assimilated volcanic plus alkalic coarser grained vein material	
184	24.9.19	445975	5638979	415	Same outcrop as preceding, on ENE face of the exposure. Heading down eastwards	
185	24.9.19	446054	5638963	403		
186	24.9.19	446116	5638961	405		
187	24.9.19	446189	5638959	408		
188	24.9.19	446264	5638950	405	Open area heading S and slightly to the East. Very open but no exposures though float common.	
189	24.9.19	446296	5638921	403	Heading S across an old haul road? To a long 30 plus metre int to felsic outcrop some 20 m E-W and 3-4 m N-S Gneiss, homogeneous	
190	24.9.19	446283	5638983	409	Heading back North and up into pine and mixed bush. 2a type, E-W strike	

191	24.9.19	446292	5639078	408	Float of same	
192	24.9.19	446288	5639155	415	Sub-planar grey-green 2A 20 x 20 m outcrop extending NW for 20 m. Separate outcrop to the NW (30 m), 60 m away. Partly felsic intrusive material.	
193	24.9.19	446291	5639200	418	Relatively flat, long E-W outcrop of grey granitoid (plagiogranite) 45 m W and 70 m E and 25-20 m N-S. Rock is very similar to the outcrop at the highest topography pt.	
194	24.9.19	446283	5639282	419	Flat, MB, no outcrop	
195	24.9.19	446283	5639381	413	Gulley, no outcrop	
196	24.9.19	446299	5639443	410		
197	24.9.19	446296	5639485	411		
198	24.9.19	446314	5639554	414	Going uphill	
199	24.9.19	446312	5639598	417	Going uphill	
200	24.9.19	446308	5639631	418		
201	24.9.19	446278	5639739	422		
202	24.9.19	446273	5639770	421		
203	24.9.19	446241	5639799	425		
204	24.9.19	446216	5639807	426	Monzogranodiorite. Large, extending 25 m West and North for >50 m. Back onto morning traverse route	
205	24.9.19	446094	5639942	433		
206	24.9.19	445997	5640010	433		
207	24.9.19	445971	5640031	433	Outcrop extending 55 m WNW , 5-8 m wide, lithology largely as preceding.	
208	24.9.19	445955	5640064	432		
209	24.9.19	445954	5640117	433	Relatively flat, with small outcrop of preceding.	
210	24.9.19	445935	5640160	435	Float of same, proceeding downhill.	
211	24.9.19	445899	5640194	428		
212	24.9.19	445866	5640208	424		
213	24.9.19	445839	5640233	416		
214	24.9.19	445802	5640277	411		
215	24.9.19	445769	5640326	409		
216	24.9.19	445772	5640400	409		
217	26.9.19	436360	5639197	423	Dock at cabin on Bug Lake	

218	26.9.19	436420	5638988	392	N. end of portage	
219	26.9.19	436431	5638920	400	Walking along portage to Alcock lake	
220	26.9.19	436493	5638881	410	W. end of med grained monzo- to plagiogranite with small float of gneissic mafic volcanic in vicinity reddish weathering, with med-coarse grained alkalic potassic veining	
221	26.9.19	436513	5638882	411	Same outcrop	
222	26.9.19	436575	5638878	410	Same outcrop is 15 m East	
223	26.9.19	436582	5638874	410	On trail mainly spruce and pine	
224	26.9.19	436695	5638756	411		
225	26.9.19	436720	5638731	413		
226	26.9.19	436743	5638704	413		
227	26.9.19	436763	5638660	413		
228	26.9.19	436789	5638660	417	Off trail on s/c or fluivioglacial deposit trending E-W. No definite outcrop seen	
229	26.9.19	436849	5638647	413	On trail/portage again	
230	26.9.19	436933	5638631	413		
231	26.9.19	436987	5638622	411		
232	26.9.19	437027	5638616	412		
233	26.9.19	437065	5638612	414	Ca. 25 m low outcrop, quite long, moss covered with limited exposure, on W. side of trail. Pinkish weathered monzogranodiorite to diorite, quite homogeneous, with low to no strain. Plagioclase rich	
234	26.9.19	437096	5638625	411	Same outcrop as preceding waypoint. Grey-green mafic volcanic, with increasing granitisation including by veining. Some contacts are sharp, with no thermal event or diffusion. Typically, the volcanic is feldspathised, with blastisation and weak alkalic overprint	
235	26.9.19	437125	5638650	413	Same outcrop is 15 m W. Heading up to large outcrop	
236	26.9.19	437165	5638668	418	Intermediate feldspar-quartz-biotite-amphibole gneiss. Note pattern of the mafic-intermediate	

					volcanic. Overall strike 240.	
237	26.9.19	437167	5638667	420	Same outcrop as at preceding waypoint. Large and extending SW. Predominantly granitoid with minor bands to streaks of patches of volcanic material	
238	26.9.19	437190	5638657	422	Large outcrop of predominantly granitoid, relatively massive with relict volcanic material as gneissic sub-metre wide bands	
239	26.9.19	437203	5638627	432	Uphill, slippery, wet, same outcrop as preceding waypoint. Contains <2% banded intermediate gneiss. Otherwise, medium grained homogeneous pale dirty pink grey monzodiorite to granodiorite	
240	26.9.19	437292	5638604	427	Downhill, and increasing strain noted in the host rock. Paler, med grained, gneissic perhaps volcaniclastic to 'sediment', with pale grey homogeneous med grained blast size. Strike 246 and >75 dips S.	
241	26.9.19	437293	5638693	425	Increasingly granitoid to the South.	
242	26.9.19	437326	5638582	419	End of outcrop, dioritic, moderate strain with >>> streaky sub-metre wide gneiss	
243	26.9.19	437356	5638555	417	Outcrop extending to the West. Dioritic with gneissic sediments (quartz-plagioclase-biotite). Locally plagiogranitic	
244	26.9.19	437378	5638539	415	outcrop edge, pale grey-pink monzodiorite intruding gneissic sediment. Dips are <65 South.	
245	26.9.19	437406	5638542	411		
246	26.9.19	437414	5638527	411	Small outcrop of metasediment, gneissic, with vein-type reddish monzogranodiorite to monzodiorite	
247	26.9.19	437428	5638521	408	Pale pink grey diorite with relict gneissic plagioclase-biotite-quartz-amphibole and chlorite	

248	26.9.19	437420	5638521	408	Same outcrop as preceding waypoint.	
249	26.9.19	437383	5638329	398	About 20 m to shoreline, a cut-line heading SSW. Boat motor malfunctioning, obviously not serviced. Return towards camp.	
250	26.9.19	437434	5638519	405	Same outcrop as at waypoints 248/247	
251	26.9.19	437433	5638551	411		
252	26.9.19	437402	5638507	409	Pale pink monzodiorite with streaky relict volcanic rock (elongate streaky to blastophyric), wispy, lenticular as mm-cm bands in the dioritic intrusive	
253	26.9.19	437371	5638597	413		
254	26.9.19	437351	5638596	415	Heading up WNW to W onto a large outcrop of pinkish grey mainly feldspathic host with minor streaks of relict volcanic rock	
255	26.9.19	437350	5638595	414	Same outcrop as preceding waypoint.	
256	26.9.19	437329	5638623	417	Around 80% felsic intrusive material with rare int-mafic xenolithic rock	
257	26.9.19	437308	5638634	419	E edge of large pale pink monzodioritic to dioritic intrusive. On a cut line with azimuth 250, but bush too disturbed to follow	
258	26.9.19	437295	5638670	410		
259	26.9.19	437256	5638702	408		
260	26.9.19	437247	5638706	409		
261	26.9.19	437250	5638729	411	Up onto another large outcrop of felsic intrusion. Contains minor streaky relict haematitic metasediments, with weak silicic fracture surfaces (rare)	
262	26.9.19	437249	5638755	419		
263	26.9.19	437249	5638755	418		
264	26.9.19	437249	5638775	424	Up to top of outcrop. Mainly reddish intrusion with banded to streaky gneiss within pink plagiogranite. Locally brick red to dirty reddish grey, med grained, non-magnetic. Heading North, still on same	

					outcrop. Significant exposure of the intrusions with considerable boulders	
265	26.9.19	437242	5638807	426		
266	26.9.19	437228	5638859	431	Downhill, mossy	
267	26.9.19	437178	5638904	416		
268	26.9.19	437141	5638931	413		
269	26.9.19	437105	5638983	402	Flat, wet, with small lake 50-60 m to the East. Rough bush	
270	26.9.19	437082	5639022	404	Up onto a large outcrop 60 m North	
271	26.9.19	437071	5639057	417	Med grained, homogeneous pale reddish grey brown plagiogranite. Minor gneissic amphibole-bearing volcanic rocks and rare epidote (wispy). Matrix is homogeneous and with generally fine but well developed fabric	5562277
272	26.9.19	437064	5639084	425	Continuing up on same outcrop	
273	26.9.19	437044	5639094	433	Top of outcrop and continuing to the North, W and E, large	
274	26.9.19	437029	5639101	435	Heading West on ridge top	
275	26.9.19	436001	5639108	435		
276	26.9.19	436972	5639129	433	Down. Lake is around 250 m away Poor bush. Heading West down in boulders and moss	
277	26.9.19	436906	5639139	431		
278	26.9.19	436817	5639145	407		
279	26.9.19	436767	5639161	395	Flat	
280	26.9.19	436623	5639188	391		
281	27.9.19	435781	5638481	393		
282	27.9.19	435785	5638435	413		
283	27.9.19	435785	5638431	418	Outcrop that extends ENE to the shoreline. Med- to coarse grained, homogeneous, low strain, pale pink to pale grey. Weak fabric developed. Non-magnetic	
284	27.9.19	435786	5638429	422	Top of outcrop, relatively coarse grained	
285	27.9.19	435802	5638367	417		

286	27.9.19	435843	5638345	414	On S. side of the ridge, a small outcrop of granitoid. (Brick red late alkalic overprinting pale pink grey granitoid) Birch	
287	27.9.19	435860	5638356	416	Small outcrop as preceding lithology	
288	27.9.19	435884	5638357	417	On ridge, same outcrop as preceding waypoint.	
289	27.9.19	435943	5638374	420		
290	27.9.19	435964	5638354	419	Into Mixed bush	
291	27.9.19	436012	5638305	422	Mixed bush with slight uphill incline	
292	27.9.19	436040	5638265	425		
293	27.9.19	436072	5638238	427	Boulders and slightly downhill southwards. Old pine and birch. A 110 trending low outcrop of granitoid, some 60 m long. Essentially a second ridge/knoll.	
294	27.9.19	436076	5638208	423		
295	27.9.19	436117	5638192	425		
296	27.9.19	436145	5638185	426		
297	27.9.19	436162	5638173	427		
298	27.9.19	436165	5638164	426		
299	27.9.19	436167	5638157	427		
300	27.9.19	436180	5638147	427	Top of the same large plagiogranite to monzodioritic exposure/outcrop	
301	27.9.19	436212	5638154	426	Down to the ESE, 140 azimuth	
302	27.9.19	436270	5638129	420	Small flat outcrop appears pale, finer than preceding, but quite homogeneous, granitoid but likely a strongly replaced supracrustal.	
303	27.9.19	436286	5638116	420	15 x 15 m flattish outcrop, coarser than preceding outcrop in some locations. Possible intermediate volcanic rock	
304	27.9.19	436322	5638091	417	Very small outcrop of pale pink grey plagiogranite/monzodiorite. Flat, mixed bush	

305	27.9.19	436370	5638071	417	Outcrop of ?intermediate volcanic gneiss but weakly biotitic, as bands or xenoliths in pale grey-pink medium to coarse grained granitoid. Strike is 250 +/- Minor weak Qz-plagioclase veining noted	
306	27.9.19	436423	5638013	410	Sub-metre wide mafic-intermediate volcanic gneiss in pale pink granitoid. Overall strike is E-W with 70+ South dips. Locale has been previously examined by ?govt. Non-magnetic, plagioclase-quartz-biotitic, with S edge likely metasedimentary, and with coarser crystal size.	5562283
307	27.9.19	436427	5637963	495	Heading downslope	
308	27.9.19	436439	5637859	402	Flat, muskeg	
309	27.9.19	436508	5637738	400	Wet, muskeg, heading into birch and spruce	
310	27.9.19	436486	5637727	400	Up onto subcrop with old jackpine. Heading West	
311	27.9.19	436475	5637646	404		
312	27.9.19	436439	5637652	408		
313	27.9.19	436348	5637680	419	Heading upslope with boulders	
314	27.9.19	436316	5637694	425	Onto medium to coarse, locally pegmatitic alkalic granitoid intruding the monzodiorite/plagiogranite. Pegmatite has minor chlorite. Very weak Qz veining noted.	
315	27.9.19	436296	5637687	431	Same outcrop mossy and minor incline upslope	
316	27.9.19	436291	5637698	430	Claim post No. 3 of 1185212 with outcrop of banded gneissic int volcanic rock in medium grained plagiogranite. Supracrustal is quartz-plagioclase-amphibole mineralised. <0.2% Qz veining parallel to S2	
317	27.9.19	436282	5637683	434		

318	27.9.19	436277	5637640	434	N. edge of a very long and wide outcrop. East edge is granitoid, with planar to wavy gneissic fabric for 1 metre, then homogeneous, pale pink. Gneiss is quartz-plagioclase-biotitic, so considered a metasediment	5562268
319	27.9.19	436255	5637636	435	Following the knife edge contact with possible closure of a tight near isoclinal drag fold 5 m West.	
320	27.9.19	436247	5637643	435	Separate 'parallel' outcrop of pink weathered granitoid	
321	27.9.19	436270	5637568	434	Continuation of very large relatively homogeneous felsic granitoid with very weak, scattered sub-metre gneiss. At the 'leg' of the outcrop and heading West, following the ridge top	
322	27.9.19	436288	5637513	432		
323	27.9.19	436030	5637481	434		
324	27.9.19	435963	5637460	431	Pale pink-grey plagiogranite with weak minor alkalic overprint. En route, one may observe <0.1% xenolithic supracrustal material with rare barren quartz veining. Possibly mafic volcanic material.	
325	27.9.19	435903	5637415	421	Boulders and heading downslope. No outcrop Can see the lake from this location.	
326	27.9.19	435871	5637376	412		
327	27.9.19	435861	5637338	402	Flat, muskeg	
328	27.9.19	435844	5637289	399	Boulders	
329	27.9.19	435840	5637277	398	Lake	
330	27.9.19	435724	5637254	398	Small outcrop, pale cream grey medium grained, quite homogeneous, with minor reddish pegmatite alkalic granite which may appear pegmatitic. Probably still in the northern granitoid not the tonalite	

331	27.9.19	435670	5637421	424	Heading back up slope to a small outcrop of ?int. volcanic, trending E-W, with 70 S dips and SE plunge at ca. 72 50 m West is the west end of the granitoid outcrop with minor coarser near pegmatitic alkalic phases outcrop continues E for over 100 m and is 35-50 m wide	
332	27.9.19	435683	5637443	428	As preceding lithology	
333	27.9.19	435718	5637477	427	Off outcrop, into moss, mixed bush and boulders. Relatively flat	
334	27.9.19	435733	5637576	422	Down, onto an outcrop of < 1 dm wide, intermediate or volcanosedimentary gneiss in plagiogranite	
335	27.9.19	435724	5637667	408	Flat, muskeg	
336	27.9.19	435660	5637760	409	Wet, dense, then into dry jackpine	
337	27.9.19	435660	5637775	410	Small outcrop of pale pink grey monzodiorite	
338	27.9.19	435677	5637885	410		
339	27.9.19	435675	5637918	412	Boulder strewn ridge with E-W strike. Relatively low, then down into mixed bush	
340	27.9.19	435678	5638021	405	Plagiogranite outcrop trending SW for 40 m and is <5 m wide. Metasediment bands or streaks. Mixed bush, mainly spruce	
341	27.9.19	435703	5638244	404	Subcrop	
342	27.9.19	435675	5638262	409	Subcrop?	
343	27.9.19	435665	5638391	410	Plagiogranite outcrop	
344	27.9.19	437405	5638544	412	Qz-biotite gneiss, fine-medium grained, lineated	5562286
345	27.9.19	437405	5638544	412	Same location as previous waypoint	
346	27.9.19	437366	5638556	417	Qz-biotite gneiss, fine-medium grained, lineated	5562263
347	27.9.19	437320	5638586	421	Qz-biotite gneiss, fine-medium grained, lineated	5562288
348	27.9.19	437286	5638613	427	Granitoid, with K-epidote alteration. +metasediment	5562262
349	27.9.19	437253	5638612	430	Metasediment. Weathers paler, with slightly more SiO2 than preceding	5562278

350	27.9.19	437206	5638628	433		
351	27.9.19	437204	5638630	430	Mafic-intermediate gneiss and granitoid	5562261
352	27.9.19	437206	5638637	425	Same location as previous waypoint. Int-mafic gneiss with epidote and granitoid	5562281
353	27.9.19	437172	5638664	417	Streaky to elongate lenticular fabric parallel <1 cm wide supracrustal in granitoid	5562279
354	28.9.19	439202	5639544	386	Boat Location	
355	28.9.19	439314	5639495	401	090 trending pink plagiogranite/monzodiorite. 20 m long	
356	28.9.19	439390	5639465	414	Same outcrop as preceding waypoint.	
357	28.9.19	439418	5639450	418	Same outcrop as preceding waypoint.	
358	28.9.19	439435	5639444	421	Same outcrop as preceding waypoint.	
359	28.9.19	439459	5639422	427	Gneissic granitoid with varying degrees of supracrustal assimilation 210 Az, metasediment	
360	28.9.19	439455	5639410	429	Pale pink granitoid, gneissic. >60 m length. Contains xenolithic to sub-m wide int-mafic gneiss or as streaky, relict elongate blast defining gneissic fabric	
361	28.9.19	439446	5639387	431	As preceding waypoint	
362	28.9.19	439444	5639393	431	SW end of outcrop and heading downslope. <1 m wide /volcaniclastic gneissic band	5562284
363	28.9.19	439468	5639382	432	Az 210, 4 m wide, 40 m long metasediment/volcaniclastic rock	
364	28.9.19	439499	5639382	430	Intermediate rock with considerable alteration by granitoid	
365	28.9.19	439512	5639382	430	Onto multiple exposure of pale pink weathered intrusion, extending ESE, WSW, W, with the No edge distinctly metasedimentary. The vast majority is intrusion	
366	28.9.19	439526	5639385	430	Mafic-intermediate gneissic volcanic rock with plagiogranite. Previously examined by unknown workers	

367	28.9.19	439555	5639401	430	Heading up onto 080 trending ridge. At E end of outcrop. Predominantly plagiogranite, with remnant <0.2 m wide gneissic bands of mafic-intermediate volcanic rock	
368	28.9.19	439567	5639379	431	Up onto pink-orange weathered granitoid with minor fabric developed. Considered to be at the S edge of the contact zone between felsic intrusion, s.s. and supracrustal sequence outcrop trend is 060. S. edge of outcrop has blastophyric chlorite after amphibole, thus appearing elongate/spotty, lineated with weak epidote-haematite	
369	28.9.19	439568	5639367	429	Banded mafic gneiss, trace magnetite, with incipient brecciation by felsic fluids. 1 m wide max.	5562270
370	28.9.19	439582	5639363	430	Onto a large outcrop of pink-pale grey monzodiorite. Oriented E-W. Still heading upslope.	
371	28.9.19	439611	5639343	433	Same outcrop as preceding waypoint.	
372	28.9.19	439617	5639332	434	Same outcrop as preceding waypoint.	
373	28.9.19	439644	5639318	434	Same outcrop as preceding waypoint. Top	
374	28.9.19	439659	5639311	433	Int-mafic volcanic gneiss? 25 m wide	
375	28.9.19	439659	5639311	435	Granitoid/supracrustals showing clear sharp angular contacts. Supracrustals are intermediate, with plagioclase-quartz-biotite and altered amphibole, and may be a lens parallel to gneissosity/main fabric	5562287
376	28.9.19	439649	5639292	429	Granitoid. Contact is 15 m North	
377	28.9.19	439583	5639267	430		
378	28.9.19	439560	5639257	426	Down off the outcrop	
379	28.9.19	439541	5639242	426	Small lozenge of mafic gneiss in granitoid. Mafic appears like a lens, with an abrupt steep planar contact (faulted) with the granitoid	

380	28.9.19	439514	5639248	426	New outcrop 50:50 granitoid and intermediate. Volcanic or sedimentary gneiss	
381	28.9.19	439507	5639249	427	Heading West, onto mafic gneiss. Relatively homogeneous, plagioclase-amphibole-quartz-biotite with 5% plagioclase veinlets. 5 m wide. Northwards, more intermediate in composition, with granitoid, then pinching out to pure granitoid (monzodiorite). Most of the outcrop to the W is granitoid	
382	28.9.19	439466	5639251	429	Contact which appears fault-related	
383	28.9.19	439460	5639236	428	70:30 mafic gneiss and granitoid. 'Wet', folded, with late, more alkalic veins overprinting. E-W and NNW-SSE contacts. Overall, steep S. dips	
384	28.9.19	439426	5639237	430	Heading West. 75% granitoid with podiform or lensoid ?mafic gneissic supracrustal material, with thin interbanded intermediate lithotypes and finally, purely granitoid. On a large scale, one sees sub-m wide pods (very elongate) of parallel supracrustal material within the intrusive material. Thus, several bands exposed, all m wide, parallel	
385	28.9.19	439398	5639226	429	Granitoid only - one outcrop of monzodiorite	
386	28.9.19	439386	5639233	428	Downslope into dense spruce bush. A dogs breakfast. Isoclinal folding at contact, then pic looking S of the mix of volcanic and granitoid	
387	28.9.19	439327	5639165	428	E. end of outcrop and heading West, streaky grey gneiss, possibly a volcanic. 60 m long, extending N for 25 m and S for over 80, but only 3-4 m wide	
388	28.9.19	439328	5639153	429	Pink weathered monzodiorite	

389	28.9.19	439342	5639123	432	Ridge top. Pale pink to pale dirty pink-brown weathered plagiogranite	
390	28.9.19	439330	5639119	431	Heading W then SW, with a thin sub-m wide band of mafic gneiss in granitoid	
391	28.9.19	439319	5639098	421	Boulders, open with deadfall	
392	28.9.19	439329	5639063	409	Flat, open birch and pine	
393	28.9.19	439365	5639011	402		
394	28.9.19	439407	5638974	392	Creek is 50 m N, minor float, no outcrop. but some subcrop of felsic igneous rock	
395	28.9.19	439349	5638994	405		
396	28.9.19	439314	5639005	408		
397	28.9.19	439288	5639080	419	Up, no outcrop but float. Heading E, 20 m to W end of mainly monzodiorite or plagiogranite. Upslope is E.	
398	28.9.19	439260	5639119	412		
399	28.9.19	439219	5639129	407		
400	28.9.19	439156	5639173	407	Claim post. 4 of 1185211 1200-M-E	
401	28.9.19	439154	5639177	409	Well exposed medium grained, pale grey to pale pinkish grey plagiogranite with very weak chloritisation and very weak, blebby relict mafic gneiss	
402	28.9.19	439150	5639208	418	Mafic gneiss and alkalic vein type granite	5562269
403	28.9.19	439153	5639269	424	Plagiogranite to monzodiorite, medium to locally, coarse grained with rare stringers or 'smears' of supracrustal material	
404	28.9.19	439153	5639270	422	Sedimentary gneiss. Relatively silicic, small outcrop trending WSW-ESE. Outcrop is predominantly monzodioritic to plagiogranite	
405	28.9.19	439137	5639283	425		
406	28.9.19	439147	5639342	423	W end of low outcrop 35-45 m long minimum. Possibly sediment or intermediate volcanic striking 050. Qz-plagioclase biotitic in composition	
407	28.9.19	439173	5639522	389		

408	28.9.19	439579	5639896	388	Shoreline with ellipse/lens of gneissic banded ?intermediate volcanic under plagiogranite Relatively flat-lying.	
409	28.9.19	439622	5639921	388	Shoreline with ellipse/lens of gneissic banded ?intermediate volcanic under plagiogranite Relatively flat-lying.	
410	28.9.19	439641	5639943	388	Shoreline monzodiorite to plagiogranite, dipping south at 35-45	
411	28.9.19	438650	5640056	390	99% granitoid. Shoreline	
412	28.9.19	438488	5640152	390	Shoreline, pale, mainly granitoid	
413	28.9.19	438424	5640189	390	99% granitoid with rare gneissic banding and relatively flat dips	
415	28.9.19	431086	5635391	385	NW shore, with several images of the intrusions and gneiss and gneissic granite. <30 North dips	
416	28.9.19	431116	5635424	386	Similar to preceding outcrop. Banded to elongate flattened supracrustals mafic gneiss and granitoid. Dips appear sub-vertical and strike is sub-parallel to shoreline	5562280
417	28.9.19	431203	5635511	385	As preceding waypoint, with steep NW dips to the banded sequence	
418	28.9.19	431215	5635523	385		
419	28.9.19	431250	5635558	387	NE striking 40 N dipping sequence with streaky gneiss and vein-type monzodiorite	
420	28.9.19	431493	5635662	385	Over to SE shoreline. Banded mafic gneiss NE strike, 25 SE dips	
421	28.9.19	431530	5635734	384	As preceding waypoint. Small exposure at water level	
422	28.9.19	431546	5635768	385	Drag folded mafic gneiss. Reclined folding with 28-32 dips + 2% 1-5 cm vitreous quartz veining Outcrop is 30 m long at water level	
423	28.9.19	431583	5635826	386	mafic-intermediate gneiss. Banded tight to isoclinal folded, 38-40 N dips	
424	28.9.19	431644	5635884	387	8 m E, a 50 m long int. gneiss or gneissic sediment striking NE with 15-20 SE dips	
425	28.9.19	431709	5635930	386	Banded mafic-int gneiss	5562265

426	28.9.19	431806	5636108	386	Island Gneissic to blotchy gneiss in gneissic granitoid. Dips steeply SE at 55 and contains ribbon plagioclase-quartz veining	
427	28.9.19	432135	5636221	386	SE shore, 35-38 dips SE. Int. gneiss	
428	28.9.19	432226	5636316	386	Creek exit	
429	28.9.19	432298	5636308	394	On portage	
430	28.9.19	432306	5636288	396	On portage	
431	28.9.19	432325	5636262	397	On portage	
432	28.9.19	432404	5636237	398	On portage	
433	28.9.19	432403	5636202	396	On portage	
434	28.9.19	432391	5636183	395	On portage	
435	28.9.19	432396	5636120	395	Insect lake at boat (with motor and paddles) Qz-biotite gneiss, with NE S2, and L2/L3 plunging 60 NE	
436	28.9.19	432388	5636239	398	Large outcrop of mafic gneiss. Coarse plagiogranite also noted	
437	28.9.19	432492	5636611	384	Water level mafic gneiss overlain by m + wide granite and granite gneiss	
438	28.9.19	432761	5636843	385	Shallow SE dipping mafic gneiss. Shore is 25 m East.	
439	28.9.19	432838	5636891	385	Shoreline is 20 m East. Mafic gneiss	
440	28.9.19	432982	5637007	385	Steepening granite exposures	
441	28.9.19	433991	5637818	385	40 m to shore. Granitoid exposures, relatively flat then steepening with SW plunge? (opposing...)	
442	29.9.19	441693	5638194	399	At Boat dock	
443	29.9.19	441688	5638329	412	East edge of a gneissic sediment - qtz biotite with minor to moderate, cm-dm wide plagiogranite and alkalic granite veins sub-parallel to gneissosity. outcrop extends W for 40 m, is ca. 14 m wide. S2 is around 080. Sub-vertical dips. No plunge determined	
444	29.9.19	441712	5638410	413		

445	29.9.19	441711	5638427	417	Small outcrop of felsic volcanic rock, pale grey, relatively aphanitic, with some streaky int. mafic volcanic bands? Under fallen tree. Appears silicic-feldspathic with negligible mafics	
446	29.9.19	441717	5638473	414	Down into bog/muskeg	
447	29.9.19	441713	5638486	411		
448	29.9.19	441697	5638577	410		
449	29.9.19	441694	5638630	410	Into mixed bush and on bear trail.	
450	29.9.19	441675	5638711	415	West end of outcrop, extending east for ca. 30 m. E-W trend. Qz-biotitic for the most part and deemed a sediment (gneiss), but with amphibole, so possible volcaniclastic. NS	
451	29.9.19	441668	5638743	417		
452	29.9.19	441668	5638784	413	Muskeg, E-W with rare tamarack	
453	29.9.19	441683	5638853	413	Into jackpine	
454	29.9.19	441666	5638915	410	Slight North slope down to Lake, in birch, pine and spruce.	
455	29.9.19	441666	5638952	404		
456	29.9.19	441660	5639004	400		
457	29.9.19	441661	5639007	400		
458	29.9.19	441657	5639057	394		
459	29.9.19	441657	5639057	393	Edge of bush then 40 m to the lake shore (too wet to traverse). North shore has no outcrop	
460	29.9.19	441712	5638775	414	Edge of muskeg, small 20 x 20 muskeg quartz-plagioclase-amphibole-rich. Gneissic with plagiogranite veins	5562271
461	29.9.19	441728	5638722	414		
462	29.9.19	441718	5638656	414	Small outcrop of gneissic mafic volcanic and granite	
463	29.9.19	441740	5638547	408		
464	29.9.19	441754	5638743	408		
465	29.9.19	441765	5638445	412		
466	29.9.19	441755	5638410	414	Small outcrop of gneissic magic volcanic and granite	
467	29.9.19	441738	5638364	410	Outcrop, as preceding	
468	29.9.19	441750	5638330	411		
469	29.9.19	441756	5638305	410		
470	29.9.19	441736	5638265	406		

471	29.9.19	441692	5638195	399		
472	29.9.19	441961	5637833	399	Boats and trail 20 m East. Well cut, probably a skidoo trail	
473	30.9.19	433069	5637045	390	Boat dock	
474	30.9.19	433095	5637017	396	Corner of elongate 60 m + outcrop of banded 5g. Dips 35-45 South, with sub-metre wide amphibole-rich bands. MB	
475	30.9.19	433144	5636806	405	MB	
476	30.9.19	433158	5636795	404	MB	
477	30.9.19	433213	5636757	403	MB	
478	30.9.19	433224	5636719	403	Muskeg area	
479	30.9.19	433243	5636707	404	15 x 10 m outcrop of 3g. Off muskeg area, with low rise upslope	5562285
480	30.9.19	433311	5636638	399		
481	30.9.19	433313	5636623	400	Low long outcrop < 1m high of relatively coarse grained sediment Az. 230. Contains <2% cm scale plagiogranite. 72 south dips	
482	30.9.19	433350	5636603	405	50:50 5g and 3 g. First pic of the day. MB	
483	30.9.19	433358	5636595	404	small outcrop of pale grey well lineated gneiss ?-sediment. MB	
484	30.9.19	433393	5636460	399	As preceding. Qz-plagioclase biotite gneiss. MB	5562282
485	30.9.19	433412	5636413	405	West end of a long granitoid outcrop, almost extending to Insect Lake Relatively homogenous, pale pink plagiogranite to monzodiorite, with a 1-2 m wide consistently trending quartz-plagioclase-biotite-?hornblende band within. Well lineated, medium grained, locally with streaky banding from flattening and lesser stretching. 65 South dips. Sharp contacts between supracrustal and granitoid showing minimal shearing/strain. MB	
486	30.9.19	433409	5636409	405		
487	30.9.19	433445	5636387	403		
488	30.9.19	433462	5636379	403		
489	30.9.19	433529	5636364	402		
490	30.9.19	433551	5636352	403		

491	30.9.19	433555	5636349	402	Flat, minor float, spruce and down into MB	
492	30.9.19	433540	5636381	403		
493	30.9.19	433511	5636472	403		
494	30.9.19	433495	5636491	404		
495	30.9.19	433498	5636521	404	Small outcrop of gneissic sediment type, trending 040-050, and 70 S dips Possible SE plunge. Muskeg	
496	30.9.19	433466	5636570	409	Long <10 m wide, 90 m long + outcrop of predominantly granitoid with likely several metre to sub-m wide 1a gneiss Outcrop continues West for 70 m and E for ca 45 m. Strike is 060. <muskeg heading into MB	
497	30.9.19	433455	5636578	410	<10 m wide, 90 m long + outcrop of predominantly granitoid with likely several metre to sub-m wide 1gneiss Outcrop continues West for 70 m and E for ca 45 m. Strike is ca. 060	
498	30.9.19	433400	5636709	408		
499	30.9.19	433414	5636750	408		
500	30.9.19	433423	5636764	408		
501	30.9.19	433414	5636800	410		
502	30.9.19	433403	5636836	413		
503	30.9.19	433365	5636868	414		
504	30.9.19	433309	5636892	421	30 m long, 1.5 m high outcrop of 50:50 quartz-biotite-plagioclase-amphibole gneiss and parallel trending plagiogranite	
505	30.9.19	433216	5636944	419		
506	30.9.19	433149	5637003	414	1a/2a outcrop with 5c-g type. Strike is 060 shallow dipping with isoclinal folding within	
507	30.9.19	433125	5637020	410	Long outcrop of 5 type, 6 m high and 060 strike/trend	
508	30.9.19	433125	5637020	410		
509	30.9.19	437391	5638309	399	Boat	
510	30.9.19	437294	5638184	397	B location. Alcock property. Old flag reading 92.?5 8*2. 1 m banded and c-grained massive quartz boulder	5562272

					Also images of local bush - DSCN8009, DCN8010	
511	30.9.19	437298	5638255	402	Cut line-BL location	
512	30.9.19	437298	5638255	402	Cut line-BL location	
513	30.9.19	437340	5638264	403	12+50W line	
514	30.9.19	437340	5638264	403		
515	30.9.19	437369	5638300	406	A location, Alcock property. Felsic-int. volcanic float	5562273
516	30.9.19	436480	5638878	409	On portage, outcrop of 5, 15 m east and continues south for 40 m	
517	3.10.19	446100	5637917	348	Good clear MB	
518	3.10.19	445562	5637992	364	Good clear MB	
519	3.10.19	445505	5638001	364	Good clear MB	
520	3.10.19	445241	5638045	366	Boat station, North shore, heading North upslope. Clear, MB	
521	3.10.19	445238	5638045	365	Good clear MB	
522	3.10.19	445195	5639150	384	Good clear MB	
523	3.10.19	445190	5638223	387	Good clear MB	
524	3.10.19	445190	5638257	385		
525	3.10.19	445188	5638301	380	Just beside old beaver dam, with drainage to SW and widening swamp to ENE. Flat	
526	3.10.19	445168	5638329	380	Cross small creek. MB relatively open	
527	3.10.19	445163	5638400	391		
528	3.10.19	445169	5638439	392		
529	3.10.19	445157	5638526	397	Small E-W outcrop trending 080 of medium grained subidiomorphic tonalite + minor alkalic monzodiorite as irregular veins blebs and patches D2 location of ML is 40 m W, with at azimuth 260 large outcrop	
530	3.10.19	445157	5638543	396		
531	3.10.19	445127	5638595	402		
532	3.10.19	445068	5638598	407	Pillowed int.-mafic flows. Small, sub-metre, with little strain, around 3:1 + sub-metre wide interflow sediments Minor, 5-25% granitoid blocks, veins outcrop continues W for 40m, N for 20+ and E for ca. 35 m.	5562275

					Heading N and NE after this waypoint	
533	3.10.19	445063	5638720	407	Small E-W outcrop trending 080 of tonalite + minor alkalic monzodiorite as irregular veins blebs and patches D2 location of ML is 40 m W, with at azimuth 260 large outcrop Most of the outcrop is relatively homogeneous, with 080 strike, steep, sub-vertical plunge and 75-80 dips	
534	3.10.19	445068	5638796	420	Same outcrop or s/c	
535	3.10.19	445063	5638814	423	Same outcrop or s/c	
536	3.10.19	445073	5638833	424	Heading to N/NE corner of the large outcrop which extends NE for another 30 m outcrop is like a flattened bent T with long axis to the W and WNW	5562267
537	3.10.19	445069	5638925	417		
538	3.10.19	445075	5639005	412		
539	3.10.19	445084	5639047	412		
540	3.10.19	445094	5639091	414		
541	3.10.19	445093	5639119	416	Crossing a small bog, onto the SW /W edge of an outcrop that extends E for 35-40 m and is <15 m wide. Mafic volcanic rocks in large part	
542	3.10.19	445096	5639127	414	N side of a volcaniclastic unit, trending azimuth 100 and steep N. dips. Overall, likely interflow sediments with fragmented flows including rare pillows, the latter appearing more flattened than those noted earlier.	5562264
543	3.10.19	445098	5639127	415	Same location as preceding waypoint.	
544	3.10.19	445106	5639123	417		
545	3.10.19	445216	5639073	420	S/c of 1A and pillow lavas or pillow breccias/ Non-magnetic	
546	3.10.19	445233	5639069	420		

547	3.10.19	445264	5639074	421	E continuation of outcrop at waypoint 545. Fractured and slightly brecciated volcanic rocks and volcaniclastic rocks with intrusion by granitoid. (10%) The sample appears in part clastic	5562276
548	3.10.19	445279	5639072	421	Same outcrop as preceding waypoint.	
549	3.10.19	445313	5639064	417	Off outcrop but it extends E for over 60 m and is 25-35 m wide. Heading at 135 Az slightly downslope	
550	3.10.19	445396	5638896	409	Heading more S. to avoid Day 1 traverse, so heading to ML's E5, around 43 m away	
551	3.10.19	445402	5638888	409		
552	3.10.19	445419	5638715	422	080 trending outcrop. Pillows, with interflow sediments. Steep South dips, non-magnetic. outcrop extends E for 50 m and W for 35-40 m	
553	3.10.19	445418	5638631	422		
554	3.10.19	445423	5638623	421		
555	3.10.19	445418	5638623	422	Slight S slope down then on edge of outcrop and probably an E-W fault Homogeneous, massive int-mafic lavas. Higher strain noted here, and trace mt. 070 strike, >80 S dips. Outcrop extends W for 65+ m and E for ca 55 m	5562266
556	3.10.19	445430	5638601	419	Heading down via a series of small step outcrop's and float into mainly deciduous open bush Minor tonalite seen but relatively uncommon. Flattened pillows.	
557	3.10.19	445439	5638579	410	Heading to ML D5. At a large outcrop with good S facing exposure due to fault 1a and flattened pillows, with fault/step exposures then large float and downslope	
558	3.10.19	445439	5638579	411	Mixed bush, poplar, birch and spruce with rare jackpine	
559	3.10.19	445454	5638506	387	Heading back to boat	

560	3.10.19	445418	5638425	386	Downhill, mixed bush with sparse conifer in poplar-birch	
561	3.10.19	445392	5638367	388		
562	3.10.19	445384	5638310	394		
563	3.10.19	445330	5638202	396		

Traverse areas

The following are graphic representations of the traverses made during these autumnal investigations. All images use Bing Aerial for background, NAD 83 Zone 15, and are depicted at a scale of 1:5000 or less, as per regulations. Traverse Area numbers and related claim numbers are shown below.

Figures 13-27

Fig. 13 Traverse Area 1, West Half, far end of Bug Lake
Fig. 14 Traverse Area 1, centre, western Bug Lake
Fig. 15 Traverse Area 1, East half, west-centre, Bug Lake – Insect Lake
Fig. 16 Traverse Area 2 North, central Bug Lake
Fig. 17 Traverse Area 2 South, central Bug Lake
Fig. 18 Traverse Area 3 North, eastern Bug Lake
Fig. 19 Traverse Area 3 South, eastern Bug Lake and Alcock Lake
Fig. 20 Traverse Area 4, Lower Bug Lake
Fig. 21 Traverse Area 5, North of Clear Lake
Fig. 22 Traverse Area 6, North end
Fig. 23 Traverse Area 6, centre-North
Fig. 24 Traverse Area 6, centre-west
Fig. 25 Traverse Area 6, centre-east
Fig. 26 Traverse Area 6, south-east
Fig. 27 Traverse Area 6, South

Traverse Area	Claim Number									
1	528626	528647	528646	528661	528668	528657	528670	528656	528650	528669
2	528636	528635	528672	528666	528667	528639	529714	529698		
3	528621	528625	528624	528623	528599	528622	528582			
4	529745	528616	528591	528099	528100					
5	528090	528086	528087							
6	528233	528069	529557	529564	529547	529556	528254			
6	529547	528596	528588	528603	528056	528080	528062			
6	528236	528079	528057	528074	528063	528078	528061			

Legend for Figs. 13 to 27

Waypoint and number

Sample Location (using waypoint designation)

Sulphide Boulder

Cabin (Bug Lake)

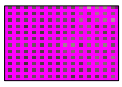
Boat Location

*White dashed lines represent traverse lines

Cut trail/portage

Creek


Swamp, muskeg or marsh


Granitoid (granite, granodiorite, monzodiorite, quartz diorite)

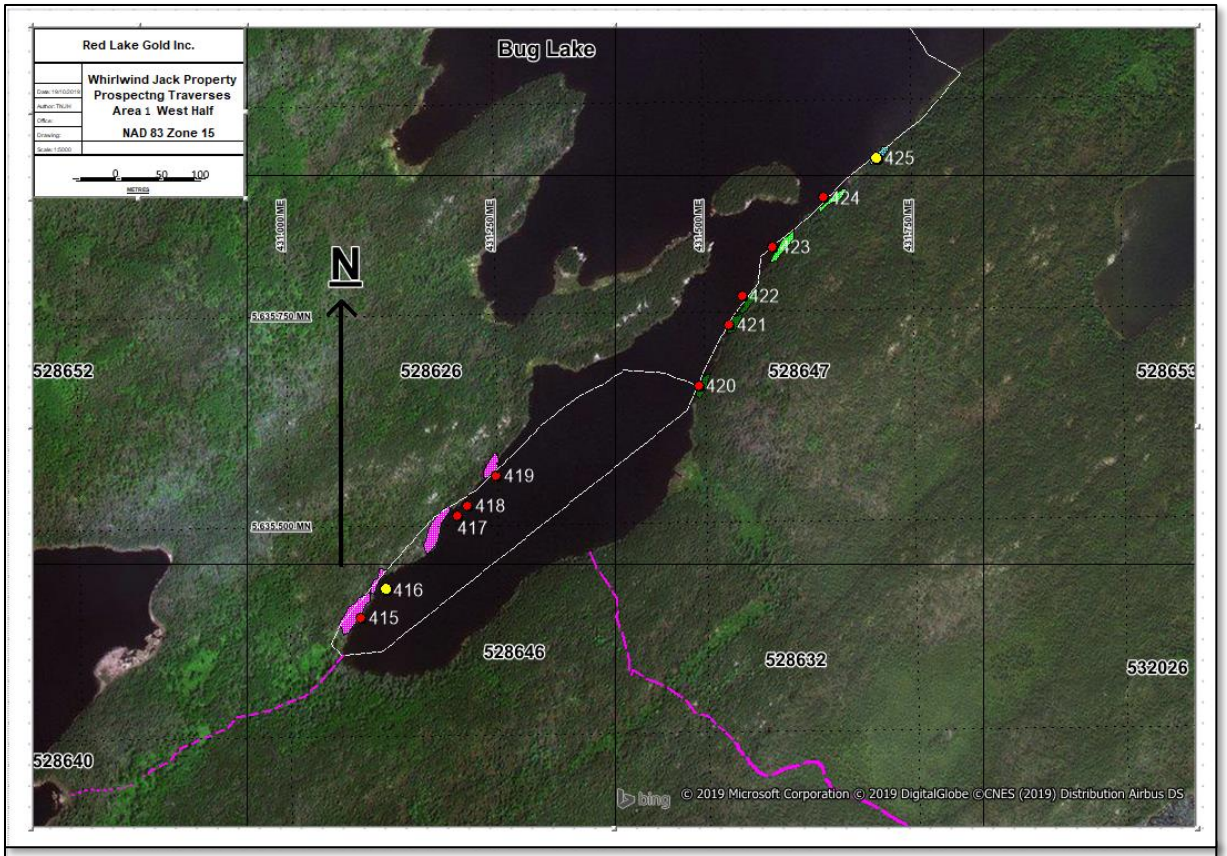

Sedimentary to volcanosedimentary rock


Interlayered volcanic and sedimentary rock +/- granitoid


Intermediate to felsic volcanic rock


Intermediate to mafic volcanic or volcaniclastic rock


Mafic volcanic rock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Prospectng Traverses
Area 1 West Half
NAD 83 Zone 15
Bug Lake
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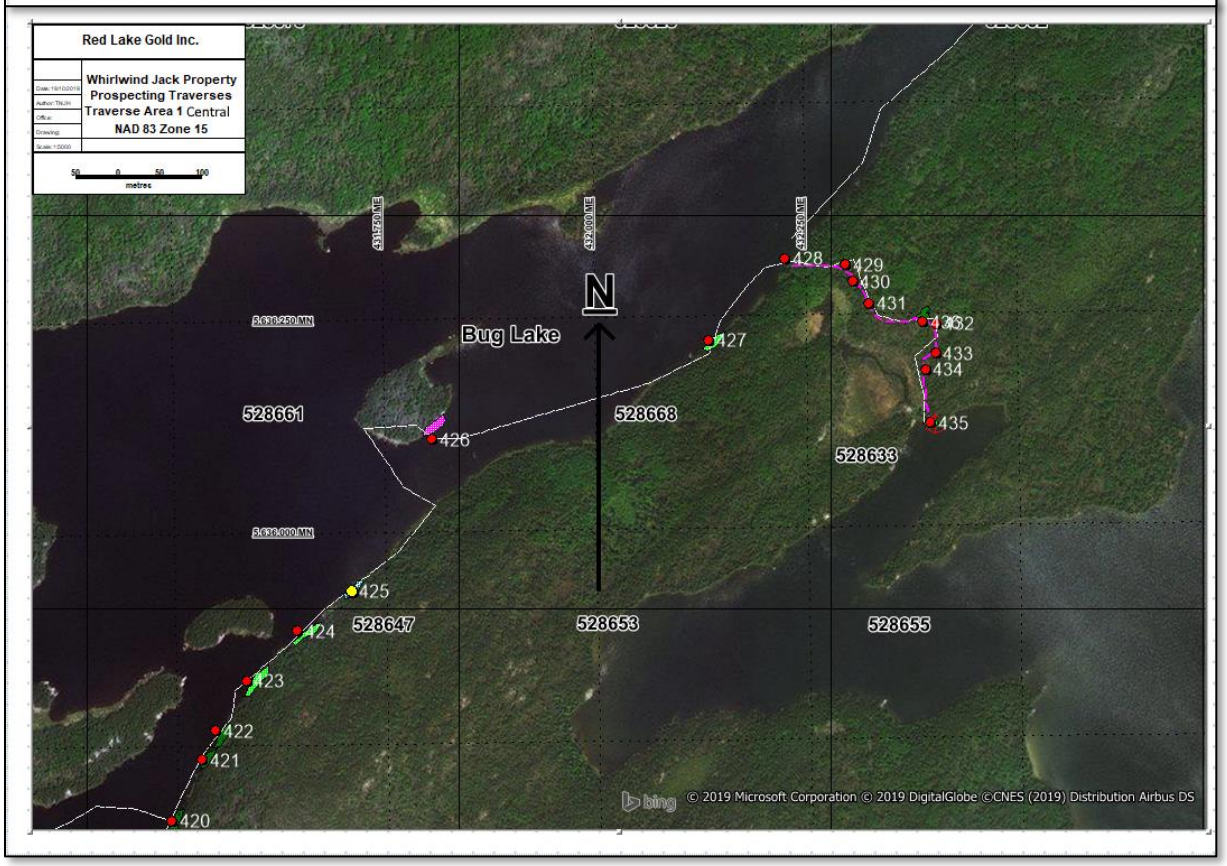
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Whirlwind Jack Property
Prospecting Traverses
Traverse Area 1 Central
NAD 83 Zone 15
Bug Lake
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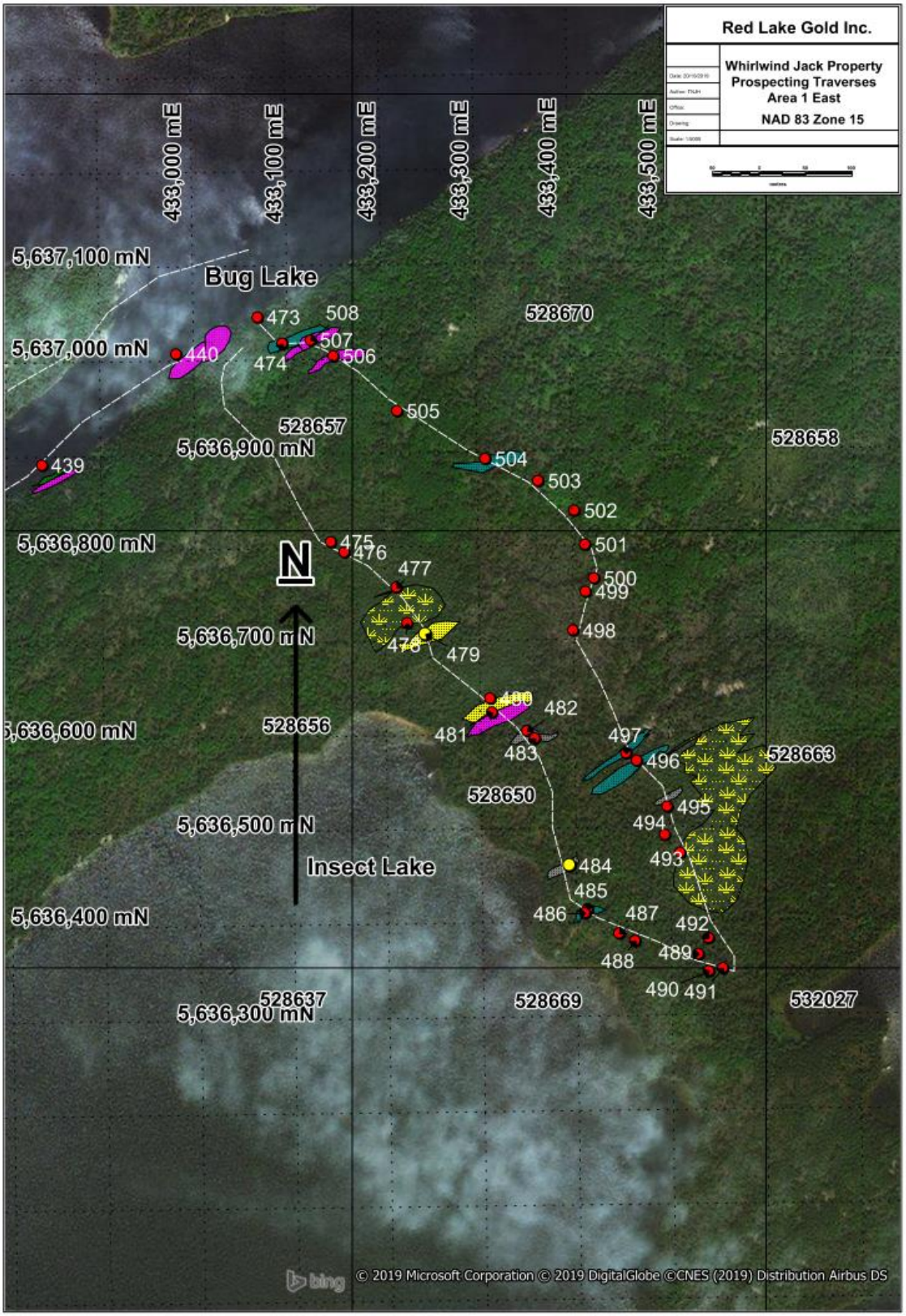
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Whirlwind Jack Property
Prospecting Traverses
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NAD 83 Zone 15
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Bug Lake
Insect Lake
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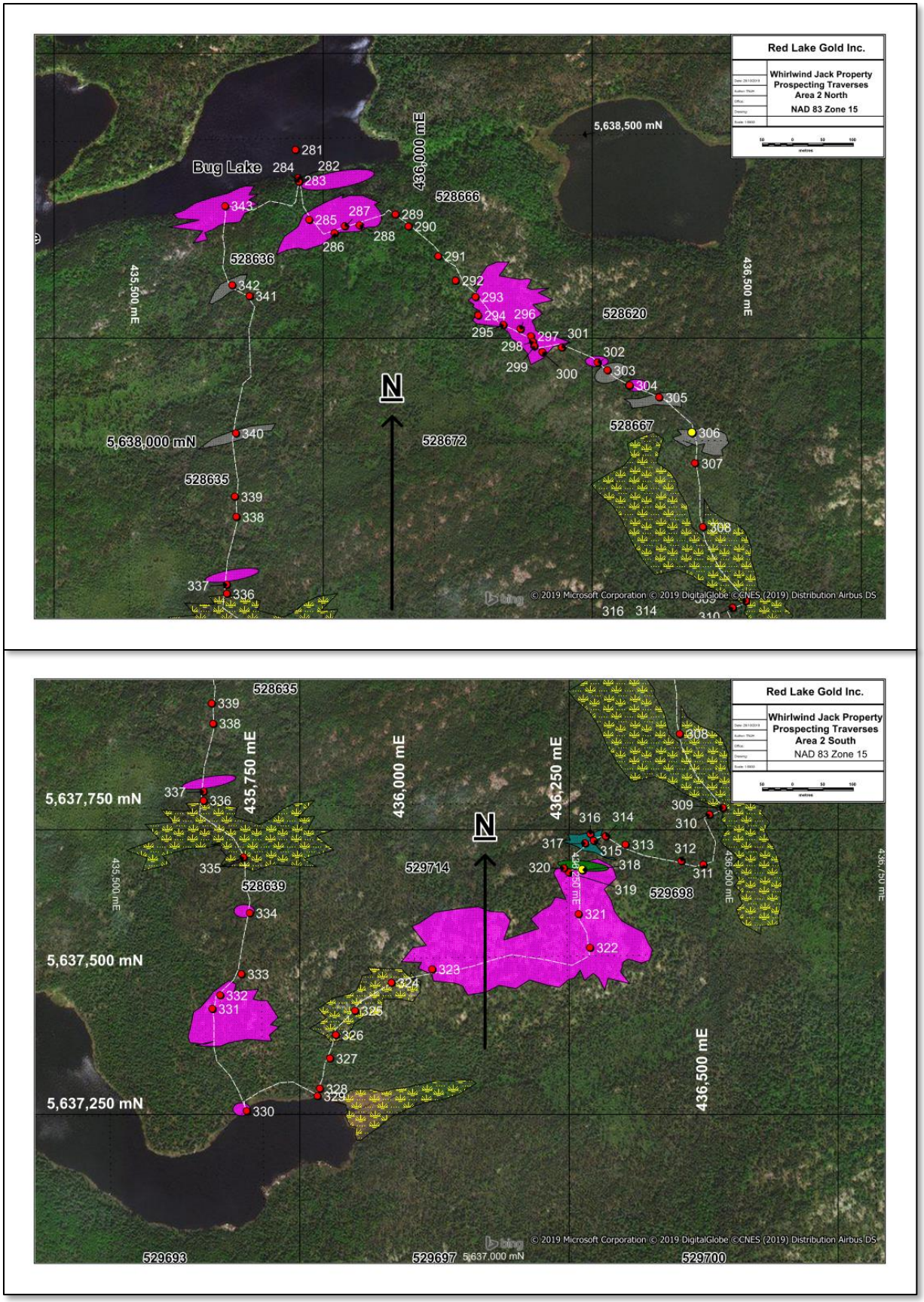
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Whirlwind Jack Property
Prospecting Traverses
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NAD 83 Zone 15
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Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 2 South
NAD 83 Zone 15
528635
435,750 mE
436,000 mE
436,250 mE
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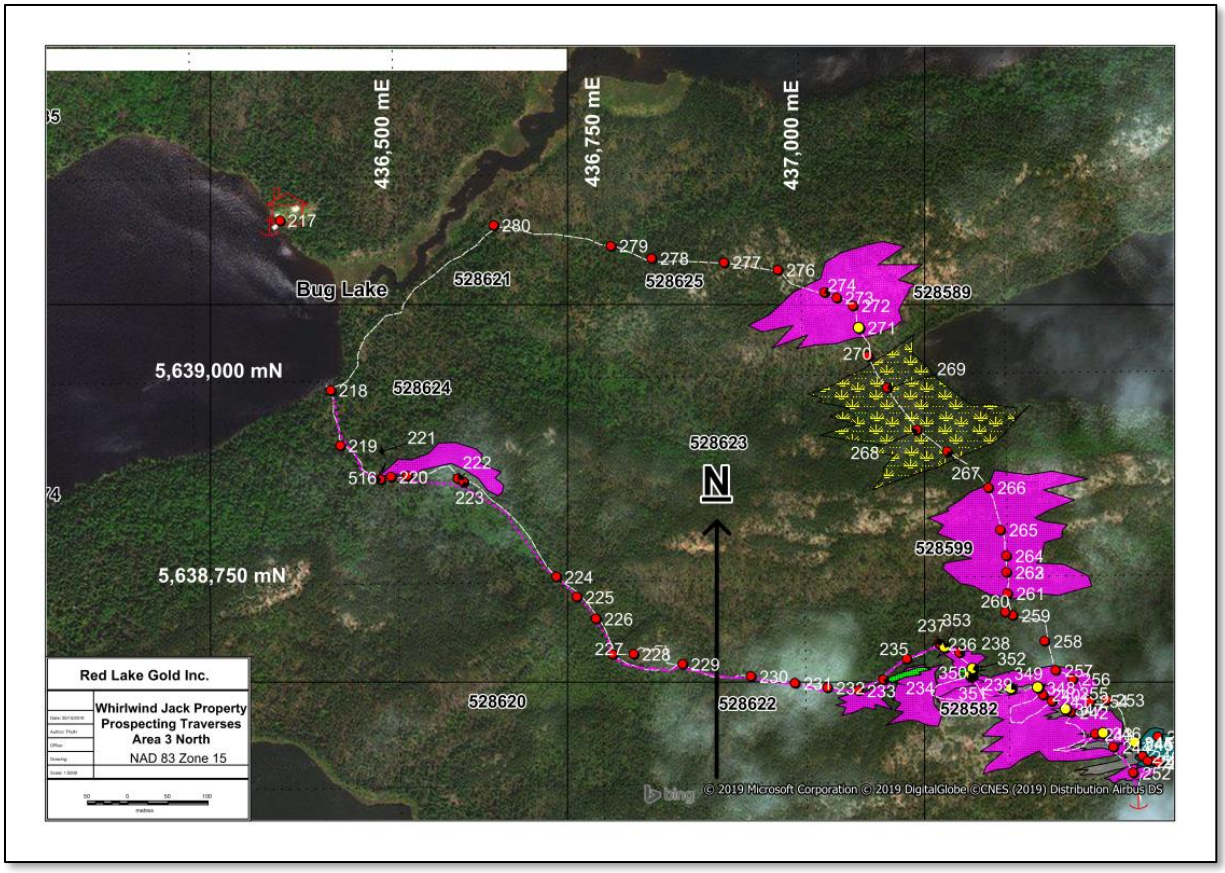
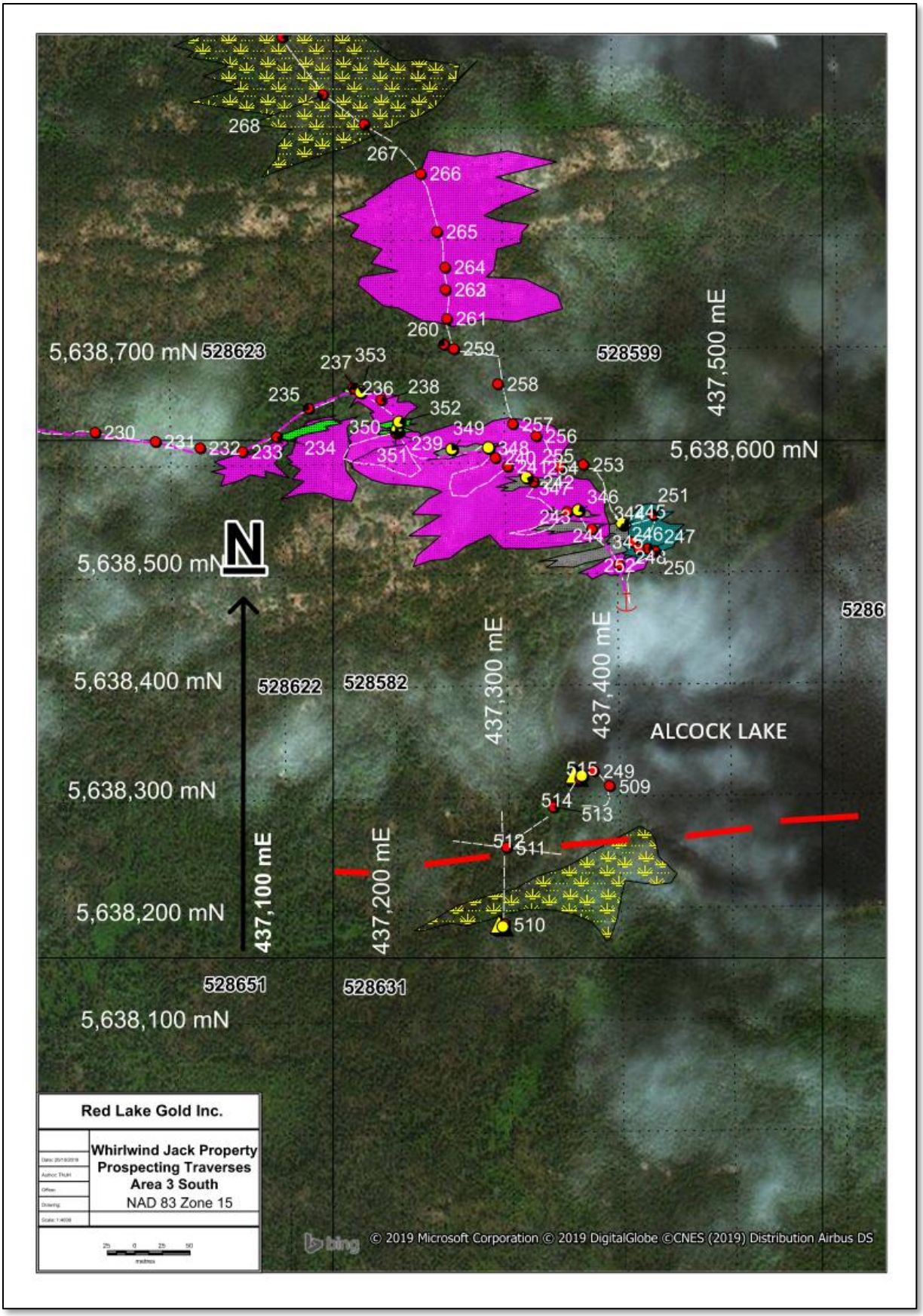


Overleaf, Area 3 South, Alcock Lake, showing approximate trend of airborne VLF conductor as red dashed line (Podolsky, 1985)


268
267
266
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264
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261
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258
257
256
255
254
253
251
250
249
509
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514
513
512
511
510
235
237
353
236
238
352
350
349
239
348
240
241
242
347
346
345
344
343
246
247
252
230
231
232
233
234
351
5,638,700 mN
5,638,600 mN
5,638,500 mN
5,638,400 mN
5,638,300 mN
5,638,200 mN
5,638,100 mN
528623
528599
528622
528582
528651
528631
5286
437,500 mE
437,400 mE
437,300 mE
437,200 mE
437,100 mE
N
ALCOCK LAKE
Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 3 South
NAD 83 Zone 15
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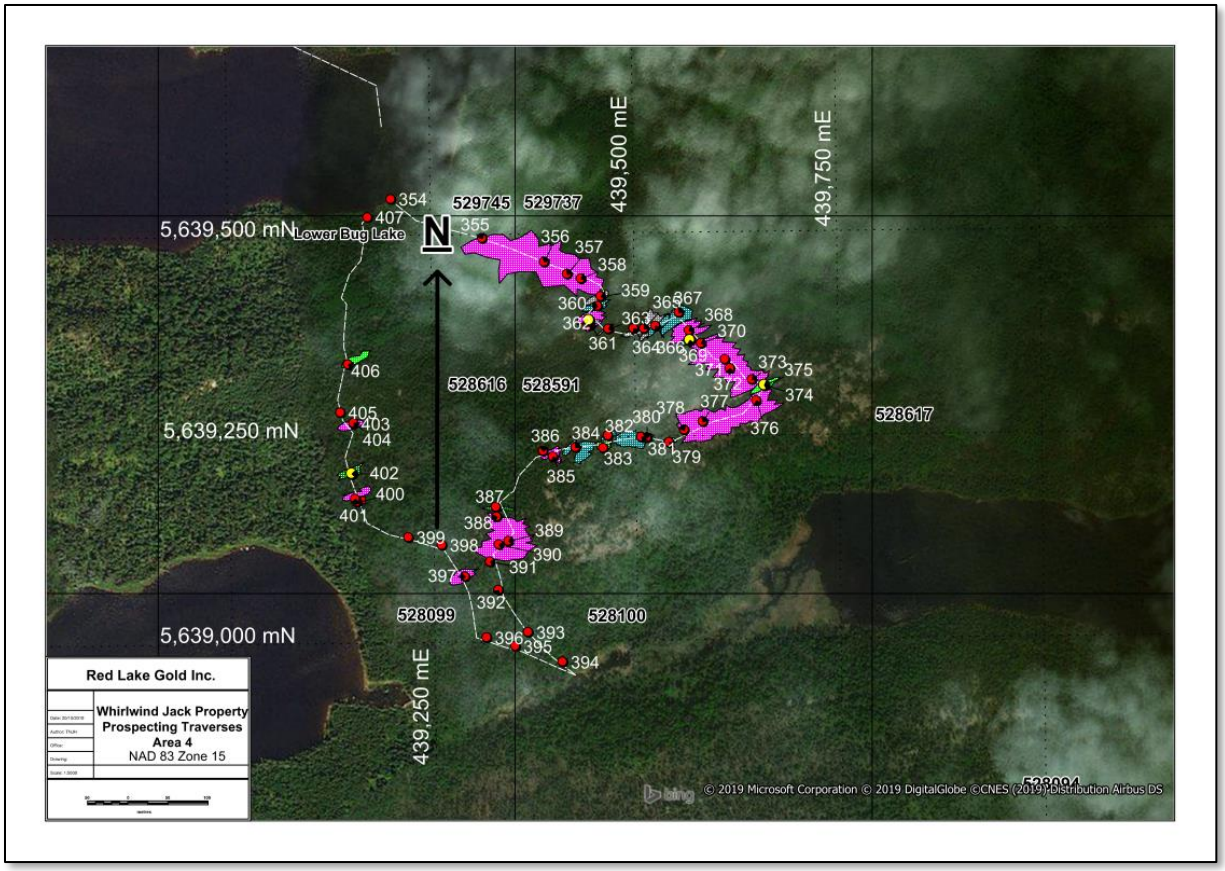
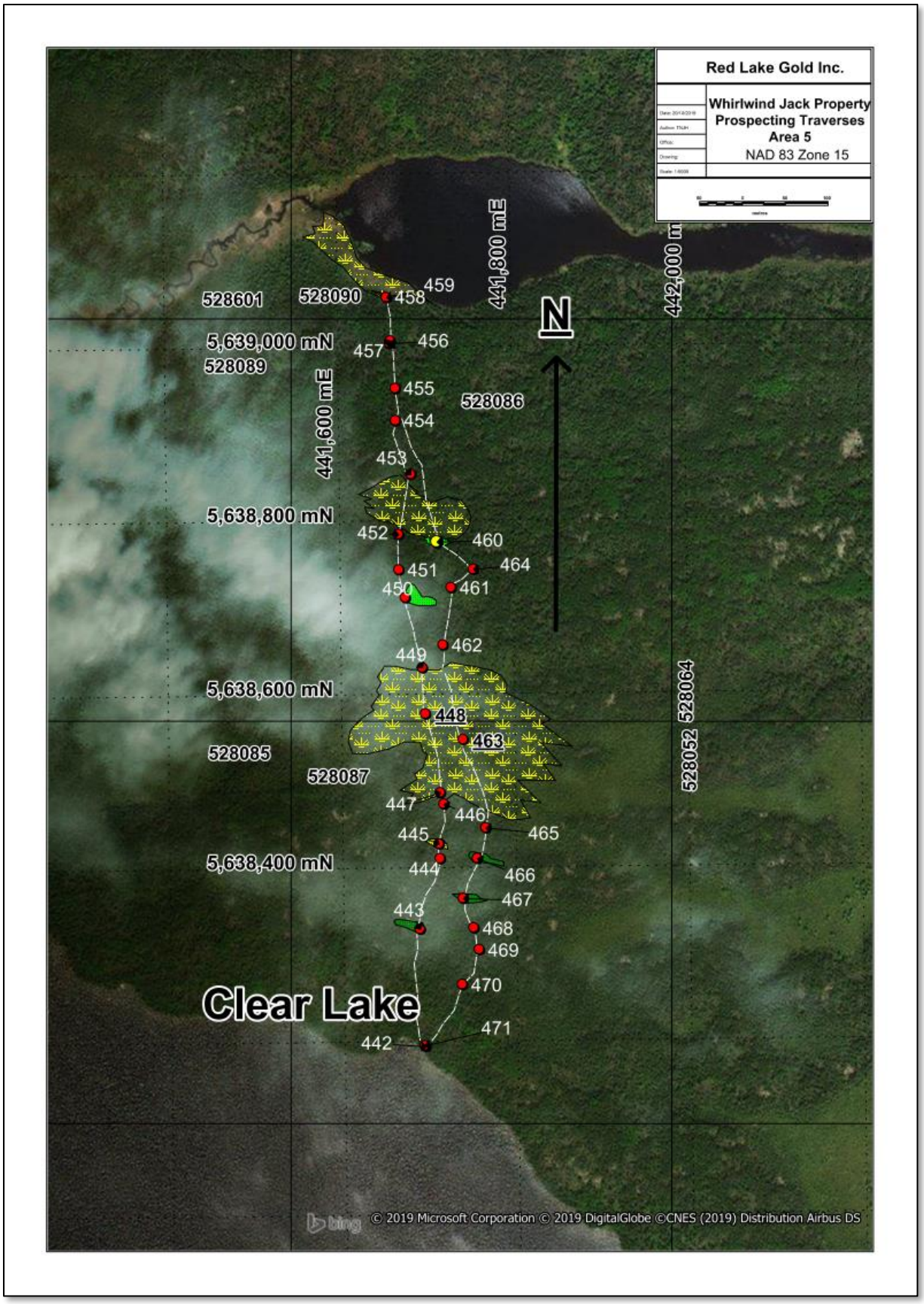

439,500 mE
439,750 mE
5,639,500 mN
5,639,250 mN
5,639,000 mN
Lower Bug Lake
N
529745
529737
528616
528591
528617
528099
528100
439,250 mE
Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 4
NAD 83 Zone 15
© 2019 Microsoft Corporation © 2019 DigitalGlobe ©CNES (2019) Distribution Airbus DS


Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 5
NAD 83 Zone 15
441,800 mE
442,000 mE
441,600 mE
N
528601
528090
528089
528086
528085
528087
528064
528052
5,639,000 mN
5,638,800 mN
5,638,600 mN
5,638,400 mN
459
458
457
456
455
454
453
452
460
464
451
461
450
462
449
448
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447
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470
471
442
Clear Lake
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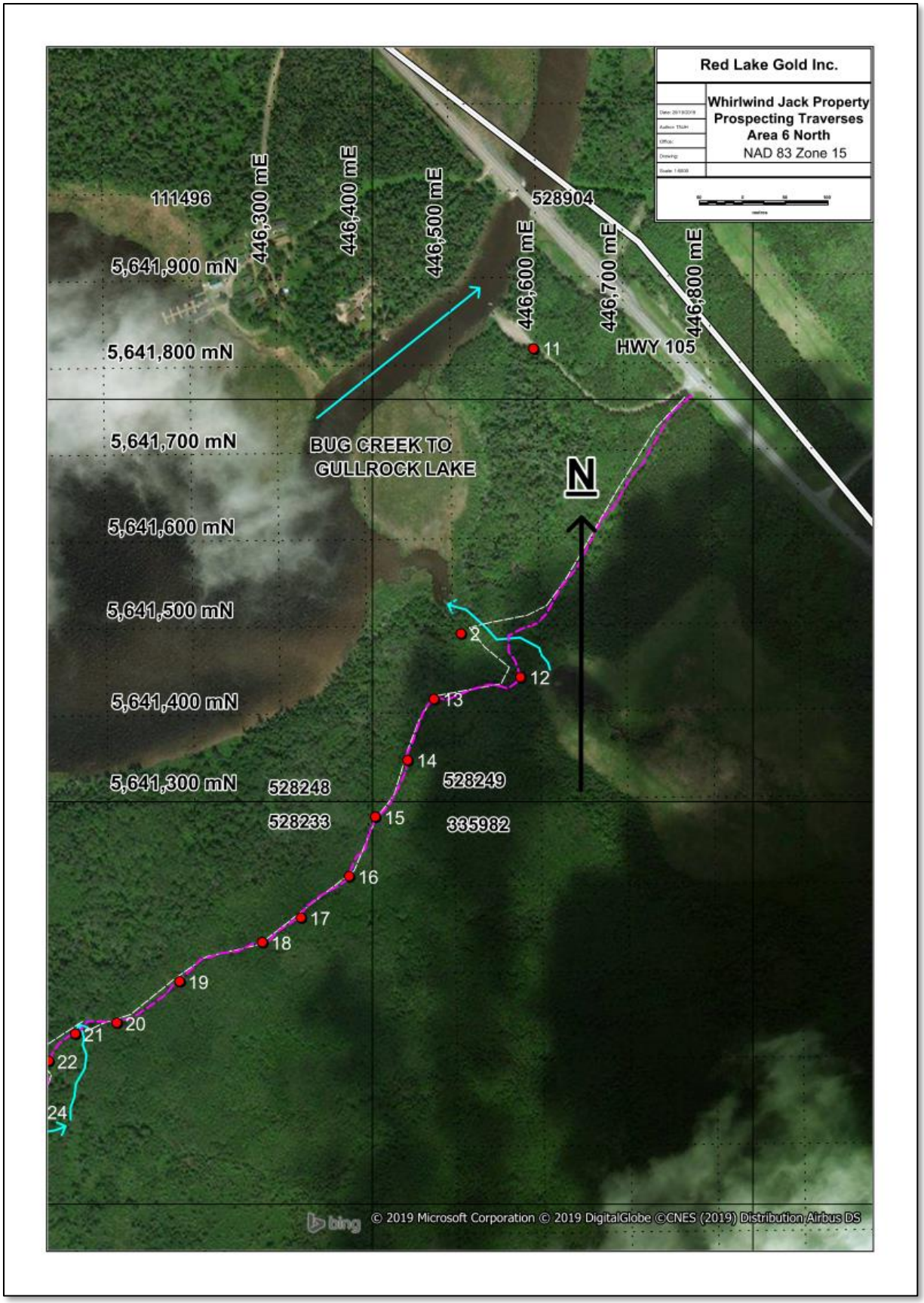
Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 6 North
NAD 83 Zone 15
111496
446,300 mE
446,400 mE
446,500 mE
528904
446,600 mE
446,700 mE
446,800 mE
5,641,900 mN
5,641,800 mN
5,641,700 mN
5,641,600 mN
5,641,500 mN
5,641,400 mN
5,641,300 mN
HWY 105
BUG CREEK TO
GULLROCK LAKE
N
528248
528249
528233
335982
11
2
12
13
14
15
16
17
18
19
20
21
22
24
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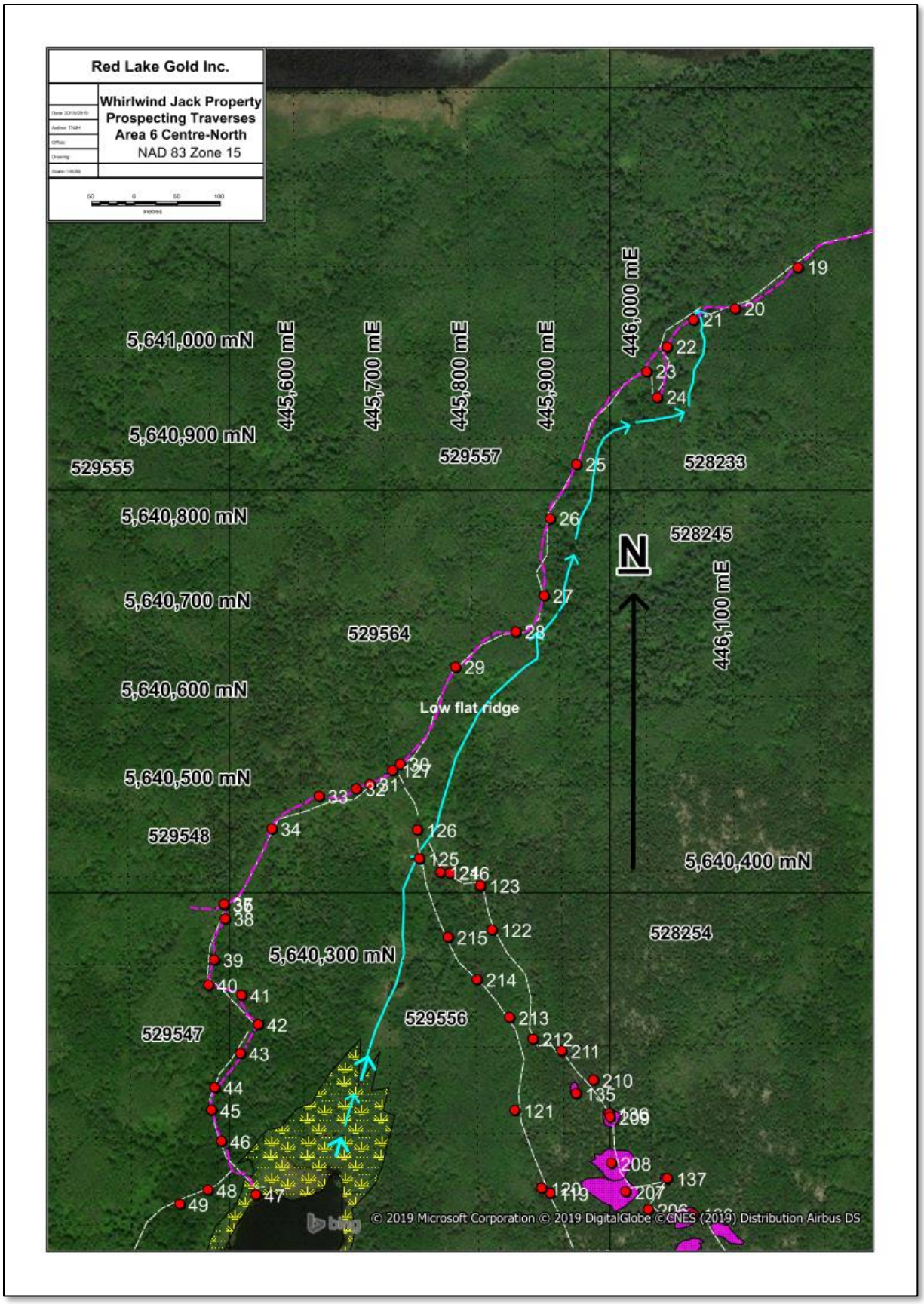
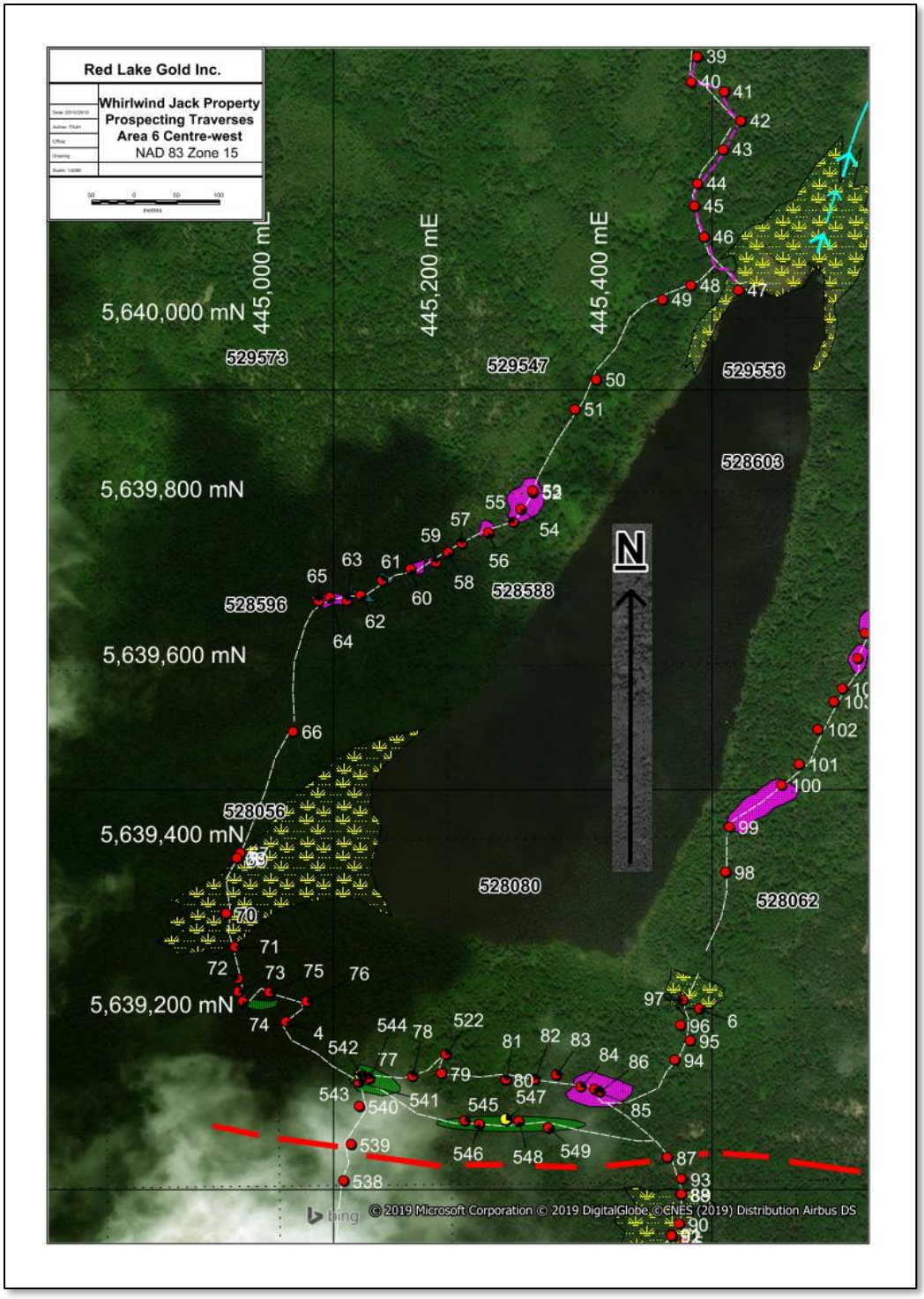
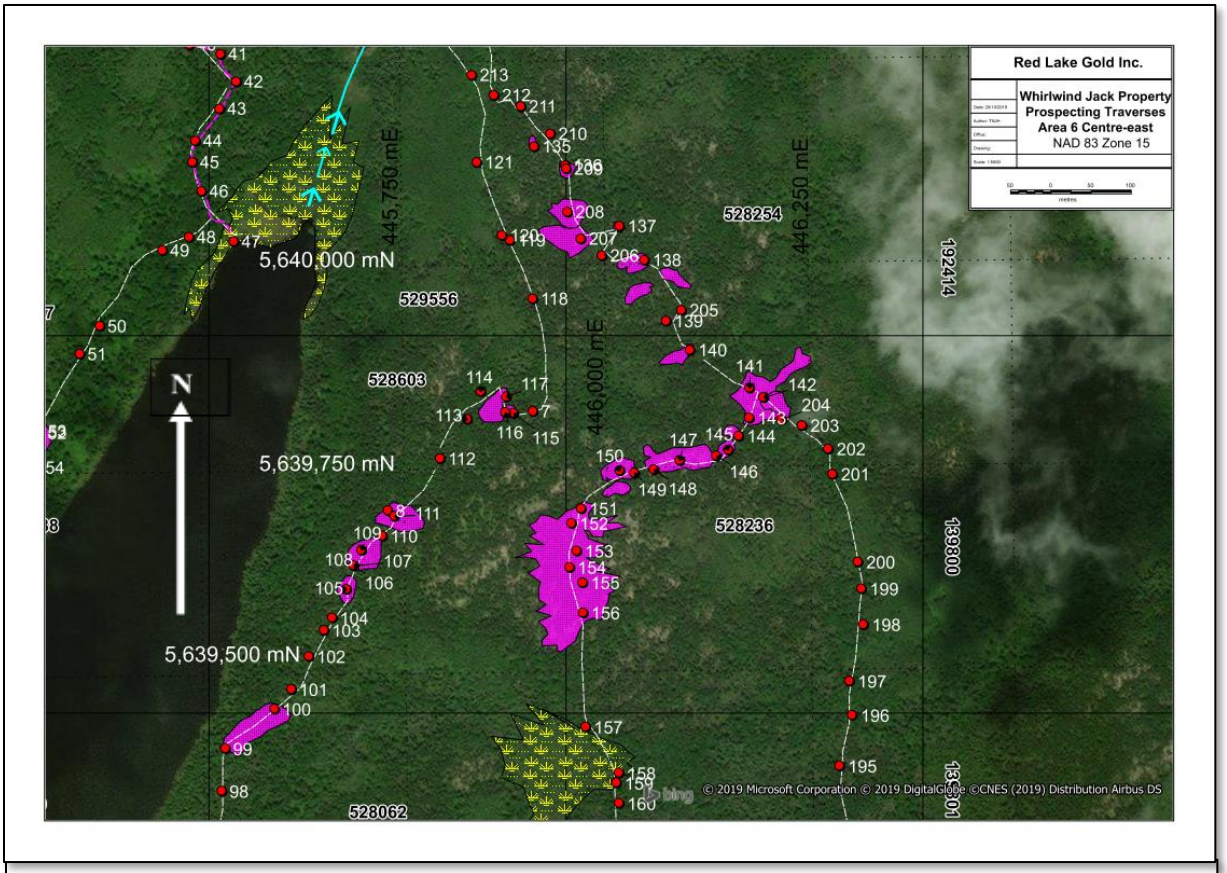
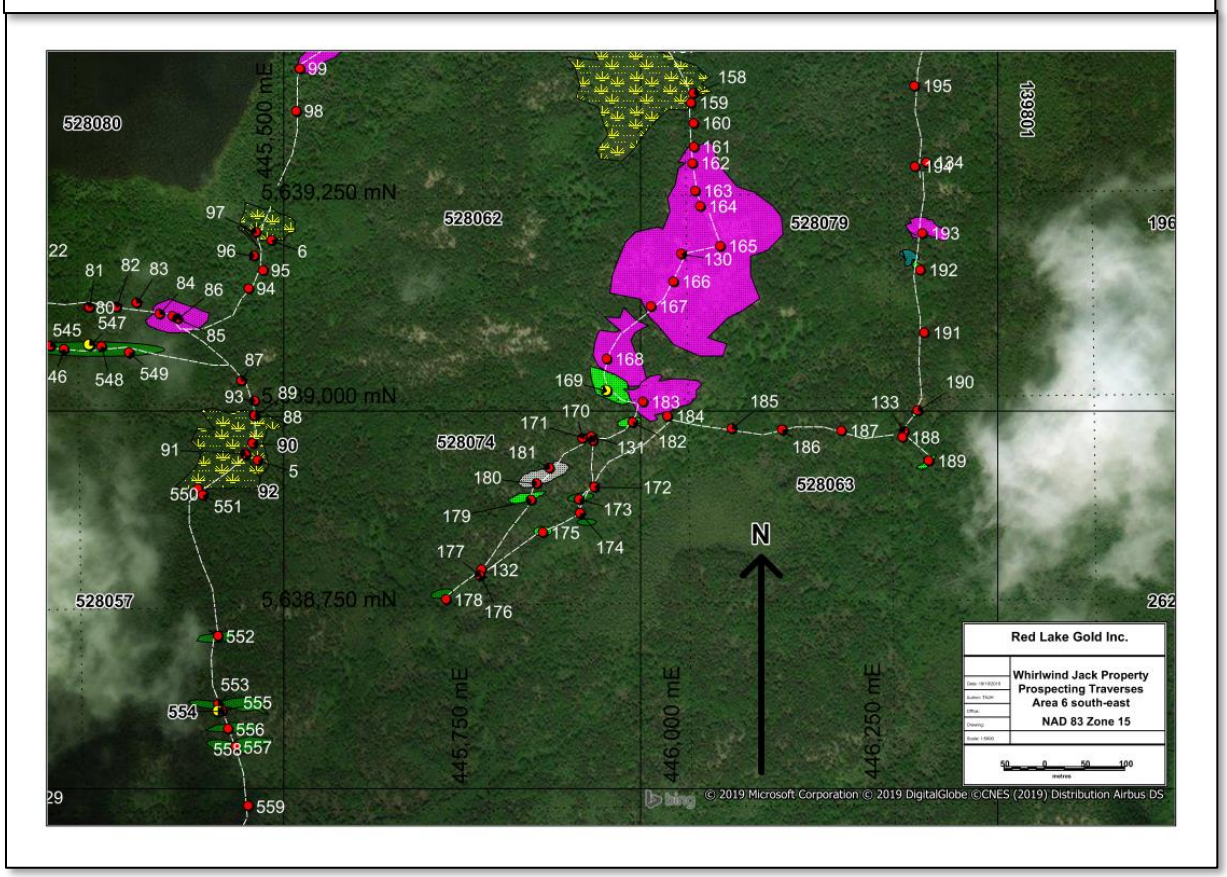
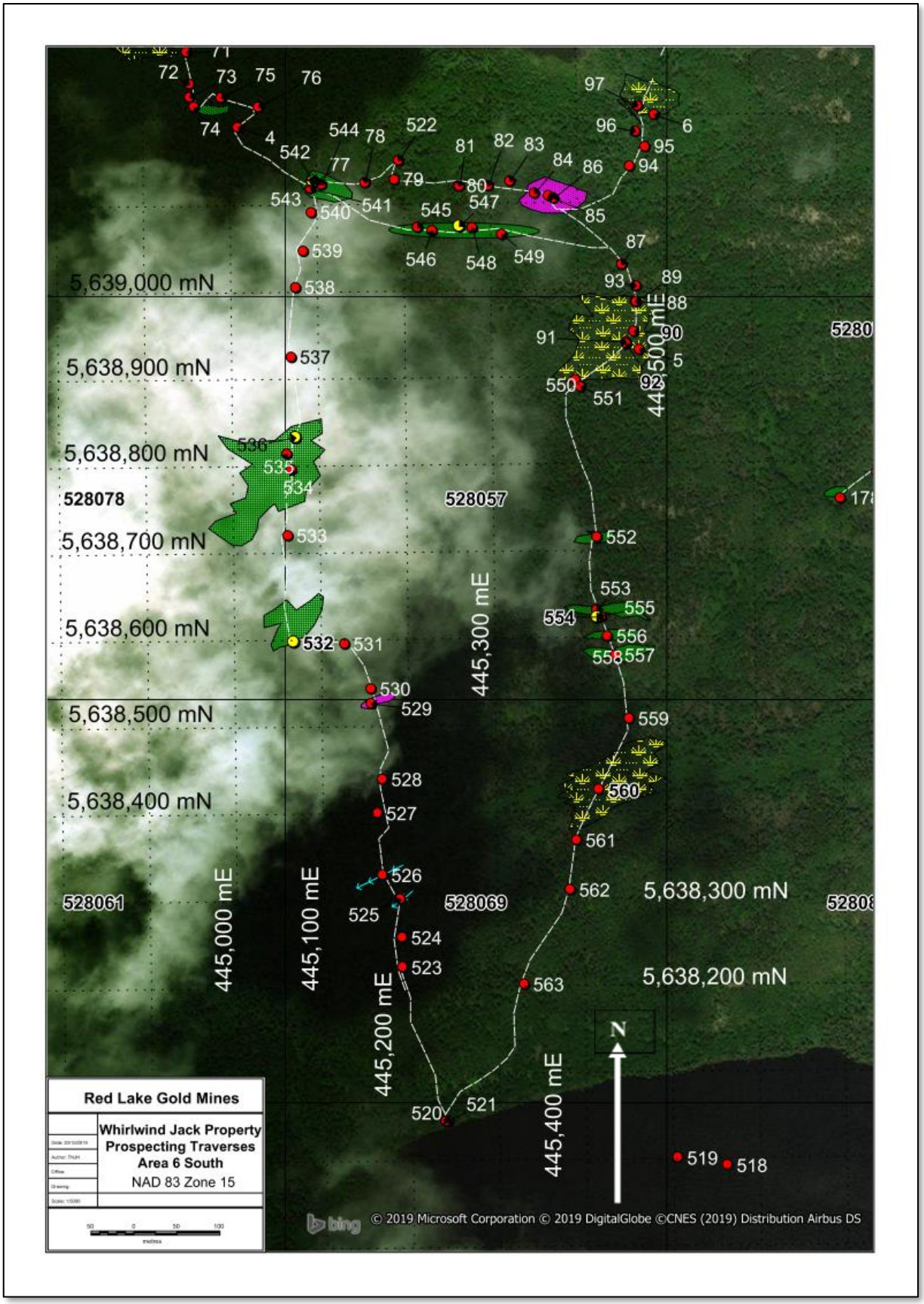

Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 6 Centre-North
NAD 83 Zone 15
5,641,000 mN
5,640,900 mN
5,640,800 mN
5,640,700 mN
5,640,600 mN
5,640,500 mN
5,640,400 mN
5,640,300 mN
445,600 mE
445,700 mE
445,800 mE
445,900 mE
446,000 mE
446,100 mE
529555
529557
528233
528245
529564
529548
528254
529556
529547
Low flat ridge
N
© 2019 Microsoft Corporation © 2019 DigitalGlobe ©CNES (2019) Distribution Airbus DS



Dashed red line represents approximate trend of airborne VLF conductor (Aerodat, survey, Podolsky, 1985)


Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 6 Centre-east
NAD 83 Zone 15
445,750 mE
446,000 mE
446,250 mE
5,640,000 mN
5,639,750 mN
5,639,500 mN
N
528254
529556
528603
528236
528062
192414
193000
193001
© 2019 Microsoft Corporation © 2019 DigitalGlobe ©CNES (2019) Distribution Airbus DS


445,500 mE
446,000 mE
446,250 mE
5,639,250 mN
5,639,000 mN
5,638,750 mN
N
528080
528062
528079
528074
528063
528057
193001
Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Traverses
Area 6 south-east
NAD 83 Zone 15
© 2019 Microsoft Corporation © 2019 DigitalGlobe ©CNES (2019) Distribution Airbus DS


5,639,000 mN
5,638,900 mN
5,638,800 mN
5,638,700 mN
5,638,600 mN
5,638,500 mN
5,638,400 mN
5,638,300 mN
5,638,200 mN
445,000 mE
445,100 mE
445,200 mE
445,300 mE
445,400 mE
445,500 mE
528078
528057
528061
528069
5280
N
Red Lake Gold Mines
Whirlwind Jack Property
Prospecting Traverses
Area 6 South
NAD 83 Zone 15
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7.0 RESULTS

All samples were grabs and deemed representative of the source exposures. Samples were tagged and sealed in the field, and upon completion of the programme, sent via Gardewine, Red Lake, to the Actlabs processing facility in Thunder Bay. Subsequently, the material was sent to Actlabs facility in Ancaster, Ontario for analysis.

The samples were analysed for Au and multi-element analysis, (ICP). Codes are as follows.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2019-10-16 07:33:11
1E3-Tbay	QOP AquaGeo (Aqua Regia ICPOES)	2019-10-29 18:57:11

Details on the preparation methods and analytical procedures can be found on the company website, http://www.actlabs.com/list.aspx?menu=64&app=226&cat1=549&tp=12&lk=no

Samples are of a prospective nature and may not fully represent the underlying geology. QA/QC data was provided by Actlabs as part of their quality control procedures. Their results are shown in the Appendix. There appears to be no anomalous results when comparing ICP analyses of the samples, with the standard, blank and duplicate material, and the author considers the results to be accurate.

Gold results are generally at what is considered to be background level, except for Sample 5562267, which may reflect very fine pyrite and perhaps trace chalcopyrite (sample ran 657 ppm Cu), in an otherwise quite homogeneous mafic-intermediate volcanic rock.

A brief assessment of the ICP data indicates a broad, ‘cross-property’, narrow range of values in elements, Na, Ca, Al, Mg, Fe, and Ti, and one may infer the overall chemistry for the majority of the samples taken to be of similar geochemistry, probably, calc-alkalic with a very weak trend towards more alkalic in what are considered to be more felsic-intermediate volcanic or volcaniclastic rock samples. This is purely a preliminary observation, and significantly more data is required to classify the geochemistry, specifically whole rock geochemical and trace element analyses from the collection of representative suites for all lithologies.

Table 2 Sample Summary

Waypt	Date	Easting	Northing	Elevation	Comments	Sample No.
351	27.9.19	437204	5638630	430	Mafic-intermediate gneiss	5562261
348	27.9.19	437286	5638613	427	K-epidote-potassic altered plagioclase-quartz biotite gneiss	5562262
346	27.9.19	437366	5638556	417	Quartz-biotite gneiss, fine-medium grained, lineated	5562263
542	3.10.19	445096	5639127	414	Interflow sediment. Quartz-feldpsar-biotite-amphibole gneiss	5562264
425	28.9.19	431709	5635930	386	Banded mafic-intermediate gneiss	5562265
555	3.10.19	445418	5638623	422	Intermediate-mafic volcanic rock.	5562266
536	3.10.19	445073	5638833	424	Mafic-intermediate volcanic rock	5562267
318	27.9.19	436277	5637640	434	Gneiss is quartz-plagioclase-biotitic, so considered a metasediment	5562268
402	28.9.19	439150	5639208	418	Mafic gneiss and alkalic vein type granite	5562269
369	28.9.19	439568	5639367	429	Banded mafic gneiss, trace magnetite, with incipient brecciation by felsic fluids.	5562270
460	29.9.19	441712	5638775	414	Quartz-plagioclase-amphibole-rich. Gneissic with plagiogranite veins	5562271
510	30.9.19	437294	5638184	397	B location. Alcock property. Banded and coarse-grained massive quartz boulder. <0.1% pyrite	5562272
515	30.9.19	437369	5638300	406	A location, Alcock property. Felsic-intermediate volcanic float. Trace fine speckled sulphide (pyrite)	5562273
169	24.9.19	445900	5639011	426	Fine-med grained, locally almost aphanitic, intermediate volcanic rock.	5562274
532	3.10.19	445068	5638598	407	Pillowed intermediate-mafic flows	5562275
547	3.10.19	445264	5639074	421	Brecciated intermediate volcanic rocks and volcaniclastic rocks with intrusion by granitoid. (10%). Quartz-plagioclase-biotite-?amphibole and minor potassic feldspar	5562276
271	26.9.19	437071	5639057	417	Med grained, homogeneous pale reddish grey brown plagiogranite. Minor gneissic amphibole-bearing volcanic rocks.	5562277
349	27.9.19	437253	5638612	430	Metasediment. Quartz-bioititic, medium grained, lineated	5562278
353	27.9.19	437172	5638664	417	Streaky to elongate lenticular fabric parallel <1 cm wide supracrustal in granitoid. Metasediment.	5562279
416	28.9.19	431116	5635424	386	Intermediate-mafic volcanic rock and interflow quartz-biotite gneiss.	5562280
352	27.9.19	437206	5638637	425	Intermediate-mafic gneiss with epidote and granitoid	5562281
484	30.9.19	433393	5636460	399	Quartz-plagioclase biotite gneiss	5562282
306	27.9.19	436423	5638013	410	Sub-metre wide mafic-intermediate volcanic gneiss in pale pink granitoid. Non-magnetic, plagioclase-quartz-biotitic..	5562283
362	28.9.19	439444	5639393	431	SW end of outcrop and heading downslope. <1 m wide /volcaniclastic gneissic band	5562284
479	30.9.19	433243	5636707	404	Quartz-rich, medium grained lineated intermediate-flexic volcanic rock	5562285
344	27.9.19	437405	5638544	412	Qz-biotite gneiss, fine-medium grained, lineated	5562286
375	28.9.19	439659	5639311	435	Intermediate volcanic rock, with plagioclase-quartz-biotite and altered amphibole.	5562287
347	27.9.19	437320	5638586	421	Qz-biotite gneiss, fine-medium grained, lineated	5562288

Table 3 Sample Results

Report Number: A19-13652			Report Date: 31/10/2019						
Analyte Symbol	**Au**	**Ag**	**Cd**	**Cu**	**Mn**	**Mo**	**Ni**	**Pb**	**Zn**
Unit Symbol	**ppb**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**
Detection Limit	5	0.2	0.5	1	5	1	1	2	2
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
5562261	< 5	< 0.2	< 0.5	5	366	2	18	5	34
5562262	< 5	< 0.2	< 0.5	10	419	< 1	31	5	75
5562263	< 5	< 0.2	< 0.5	35	519	< 1	26	< 2	73
5562264	< 5	0.3	< 0.5	47	533	2	20	< 2	66
5562265	< 5	< 0.2	< 0.5	41	505	3	53	< 2	40
5562266	< 5	< 0.2	< 0.5	84	528	< 1	74	< 2	35
5562267	24	0.8	< 0.5	657	427	< 1	46	< 2	31
5562268	< 5	< 0.2	< 0.5	55	872	< 1	83	< 2	67
5562269	< 5	< 0.2	< 0.5	4	132	2	2	11	17
5562270	< 5	< 0.2	0.6	7	622	2	46	< 2	39
5562271	< 5	< 0.2	< 0.5	74	613	< 1	44	< 2	35
5562272	< 5	< 0.2	< 0.5	3	39	49	2	< 2	< 2
5562273	< 5	0.3	< 0.5	38	65	9	14	2	3
5562274	9	< 0.2	< 0.5	58	508	< 1	62	< 2	34
5562275	9	< 0.2	0.6	146	633	< 1	72	< 2	36
5562276	< 5	< 0.2	< 0.5	18	539	< 1	24	3	81
5562277	< 5	< 0.2	< 0.5	44	693	< 1	64	< 2	58
5562278	< 5	< 0.2	< 0.5	28	329	1	18	< 2	52
5562279	< 5	< 0.2	< 0.5	1	289	< 1	6	11	18
5562280	< 5	< 0.2	< 0.5	35	683	2	45	< 2	63
5562281	5	< 0.2	< 0.5	52	683	< 1	58	5	57
5562282	< 5	< 0.2	< 0.5	18	266	2	2	< 2	41
5562283	< 5	< 0.2	< 0.5	76	624	< 1	34	< 2	49
5562284	< 5	< 0.2	< 0.5	1	286	< 1	42	2	30
5562285	< 5	< 0.2	< 0.5	1	236	< 1	3	10	49
5562286	< 5	< 0.2	< 0.5	14	439	< 1	14	< 2	66
5562287	< 5	< 0.2	< 0.5	64	700	2	51	10	94
5562288	< 5	< 0.2	< 0.5	4	528	< 1	30	< 2	58

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Co	Cr
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Detection Limit	0.01	2	10	10	0.5	2	0.01	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
5562261	1.22	< 2	< 10	72	< 0.5	< 2	0.65	14	23
5562262	1.92	< 2	< 10	40	< 0.5	< 2	1.82	14	32
5562263	2.51	< 2	< 10	262	< 0.5	< 2	1.18	42	13
5562264	2.02	< 2	< 10	182	< 0.5	< 2	0.76	9	41
5562265	2.56	< 2	< 10	31	< 0.5	< 2	3.24	23	82
5562266	4.53	< 2	< 10	25	< 0.5	< 2	4.07	22	126
5562267	5.56	< 2	< 10	12	< 0.5	< 2	4.73	18	92
5562268	3.1	< 2	< 10	77	< 0.5	< 2	2.26	31	78
5562269	0.6	< 2	< 10	33	< 0.5	< 2	0.4	1	17
5562270	2.55	< 2	< 10	23	< 0.5	< 2	3.6	21	101
5562271	2.1	< 2	< 10	17	< 0.5	< 2	2.15	22	66
5562272	0.11	< 2	< 10	< 10	< 0.5	< 2	0.02	< 1	36
5562273	0.35	< 2	< 10	18	< 0.5	< 2	0.06	7	74
5562274	2.54	< 2	< 10	22	1	< 2	2.93	21	121
5562275	4.93	< 2	< 10	23	< 0.5	2	4.45	22	124
5562276	2.11	< 2	< 10	143	< 0.5	< 2	1.65	13	41
5562277	2.52	< 2	< 10	29	< 0.5	3	2.78	25	104
5562278	1.76	< 2	< 10	168	< 0.5	< 2	0.35	17	17
5562279	1.62	< 2	< 10	12	0.7	< 2	2.54	2	44
5562280	2.39	< 2	< 10	29	0.6	< 2	2.47	22	82
5562281	2.05	< 2	< 10	33	< 0.5	< 2	2.59	17	70
5562282	1.48	< 2	< 10	190	< 0.5	< 2	0.33	6	9
5562283	2.1	< 2	< 10	20	< 0.5	< 2	3.15	24	77
5562284	1.54	< 2	< 10	70	< 0.5	< 2	1.14	13	84
5562285	0.95	< 2	< 10	166	< 0.5	< 2	0.23	4	14
5562286	2.34	< 2	< 10	197	< 0.5	< 2	1.95	20	9
5562287	2.21	< 2	< 10	20	1.9	< 2	2.88	24	83
5562288	1.97	< 2	< 10	159	< 0.5	< 2	1.56	14	22

Analyte Symbol	Fe	Ga	Hg	K	La	Mg	Na	P	S
Unit Symbol	%	ppm	ppm	%	ppm	%	%	%	%
Detection Limit	0.01	10	1	0.01	10	0.01	0.001	0.001	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
5562261	1.71	< 10	< 1	0.37	< 10	0.31	0.157	0.025	< 0.01
5562262	2.39	< 10	< 1	0.17	12	0.63	0.093	0.057	< 0.01
5562263	4.23	10	< 1	1.24	17	0.93	0.264	0.12	< 0.01
5562264	3.84	< 10	< 1	0.94	< 10	0.57	0.239	0.054	0.1
5562265	3.76	< 10	< 1	0.19	< 10	1.5	0.246	0.029	0.02
5562266	3.48	< 10	2	0.11	< 10	1.21	0.747	0.022	0.01
5562267	2.63	< 10	< 1	0.06	< 10	1.09	0.484	0.02	0.06
5562268	5.47	< 10	1	1.19	< 10	2.74	0.263	0.026	< 0.01
5562269	0.72	< 10	< 1	0.24	36	0.15	0.067	0.019	< 0.01
5562270	3.74	< 10	< 1	0.28	< 10	1.1	0.22	0.029	< 0.01
5562271	2.98	< 10	< 1	0.08	< 10	1.32	0.304	0.025	0.01
5562272	0.37	< 10	< 1	0.02	< 10	0.01	0.02	0.003	< 0.01
5562273	1.72	< 10	< 1	0.1	16	0.01	0.04	0.026	1.02
5562274	2.68	< 10	< 1	0.17	< 10	1.01	0.322	0.019	< 0.01
5562275	3.66	< 10	3	0.11	< 10	1.74	0.643	0.022	0.02
5562276	2.76	< 10	< 1	1.12	48	1.3	0.118	0.119	0.18
5562277	4.71	< 10	1	0.2	< 10	1.98	0.205	0.073	0.04
5562278	2.21	< 10	< 1	0.92	18	0.69	0.155	0.043	0.01
5562279	1.84	< 10	< 1	0.05	19	0.26	0.134	0.091	< 0.01
5562280	4.4	< 10	< 1	0.33	16	1.61	0.186	0.087	0.03
5562281	4.51	< 10	< 1	0.15	< 10	1.06	0.233	0.043	0.04
5562282	2.32	< 10	< 1	0.85	< 10	0.64	0.177	0.04	0.03
5562283	4.6	< 10	< 1	0.19	< 10	1.7	0.295	0.028	< 0.01
5562284	1.81	< 10	< 1	0.7	15	0.99	0.157	0.041	0.02
5562285	1.05	< 10	< 1	0.62	43	0.31	0.081	0.048	< 0.01
5562286	4.65	< 10	< 1	0.68	< 10	1.34	0.297	0.1	< 0.01
5562287	3.67	< 10	< 1	0.3	< 10	1.34	0.254	0.104	0.01
5562288	2.69	< 10	< 1	0.79	12	0.54	0.143	0.038	< 0.01

Analyte Symbol	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V
Unit Symbol	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	1	1	0.01	20	1	2	10	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
5562261	< 2	4	24	0.11	< 20	< 1	< 2	< 10	33
5562262	< 2	6	209	0.26	< 20	3	< 2	< 10	39
5562263	< 2	15	32	0.29	< 20	< 1	< 2	< 10	174
5562264	< 2	7	46	0.25	< 20	4	< 2	< 10	83
5562265	< 2	13	52	0.33	< 20	4	< 2	< 10	111
5562266	< 2	13	48	0.29	< 20	3	< 2	< 10	103
5562267	< 2	10	79	0.25	< 20	3	< 2	< 10	70
5562268	< 2	18	11	0.3	< 20	2	< 2	< 10	152
5562269	< 2	1	43	0.07	< 20	3	< 2	< 10	10
5562270	< 2	15	58	0.34	< 20	4	< 2	< 10	131
5562271	< 2	16	24	0.18	< 20	1	< 2	< 10	109
5562272	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1
5562273	< 2	1	4	0.01	< 20	< 1	< 2	< 10	5
5562274	< 2	14	29	0.33	< 20	2	< 2	< 10	97
5562275	< 2	14	54	0.26	< 20	2	< 2	< 10	97
5562276	< 2	3	203	0.28	< 20	3	< 2	< 10	54
5562277	< 2	15	73	0.31	< 20	4	< 2	< 10	121
5562278	< 2	5	22	0.18	< 20	< 1	< 2	< 10	55
5562279	< 2	5	286	0.26	< 20	5	< 2	< 10	37
5562280	< 2	11	83	0.29	< 20	4	< 2	< 10	108
5562281	< 2	8	110	0.22	< 20	3	< 2	< 10	71
5562282	< 2	4	27	0.21	< 20	4	< 2	< 10	43
5562283	< 2	20	12	0.33	< 20	3	< 2	< 10	146
5562284	< 2	6	86	0.22	< 20	2	< 2	< 10	63
5562285	< 2	< 1	27	0.11	< 20	3	< 2	< 10	12
5562286	3	13	20	0.26	< 20	< 1	< 2	< 10	131
5562287	< 2	14	23	0.24	< 20	2	< 2	< 10	102
5562288	< 2	3	37	0.21	< 20	3	< 2	< 10	44

Analyte Symbol	W	Y	Zr
Unit Symbol	ppm	ppm	ppm
Detection Limit	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP
5562261	< 10	7	8
5562262	< 10	5	15
5562263	< 10	20	9
5562264	< 10	6	16
5562265	< 10	13	5
5562266	< 10	10	2
5562267	< 10	8	2
5562268	< 10	9	6
5562269	< 10	7	22
5562270	< 10	12	5
5562271	< 10	6	2
5562272	< 10	< 1	< 1
5562273	< 10	3	21
5562274	< 10	11	4
5562275	< 10	9	2
5562276	< 10	21	16
5562277	< 10	12	8
5562278	< 10	5	21
5562279	< 10	9	12
5562280	< 10	13	9
5562281	< 10	8	12
5562282	< 10	4	8
5562283	< 10	14	4
5562284	< 10	7	11
5562285	< 10	3	16
5562286	< 10	12	9
5562287	< 10	32	8
5562288	< 10	5	6

8.0 CONCLUSIONS

The evaluation provided the following information:

- A sequence of as yet poorly defined supracrustal rocks extends West from the eastern boundary of the property, continuing North of Stone Lake and Clear Lake, then turning slowly south-westwards, following the outline of Bug Lake towards Longlegged Lake.
- Broadly, this sequence can be described as steeply dipping (East) to steeply to moderately, locally shallow-dipping (West), planar, but with significant tight to locally, isoclinal folding within.
- The supracrustal geology is characterised by greenschist to amphibolite metamorphic grade mafic-intermediate massive to pillowed flows and intercalated volcanic-derived sediments; lesser wacke and intermediate to felsic volcanic rocks, the latter defined as fine-grained, poorly to slightly banded, quite siliceous, texturally homogeneous rocks. Old reports described exposures siltstone, argillite and iron formation, but none was noted.
- The supracrustal sequence is flanked to the North by an extensive suite of felsic, often weakly potassic granitoid rocks with various chemistries ranging from granite, s.s., to granodiorite, quartz diorite, plagiogranite, monzodiorite and quartz syenite. Typically, a broad contact zone defined by variably altered supracrustals is characterised by weak to intense feldspathization, 'granitisation', granite gneiss development and minor to near complete assimilation. Banded/interlayered granitoid and supracrustals are a common feature both within the transition zone and the major supracrustal sequence(s).
- Extensive exposures of granitoid also host thin meter to sub-metre scale layers, bands and pods of folded, flattened, sheared, faulted and dislocated supracrustal rocks. In some places, contacts are abrupt, protomylonitic to sharp, faulted. This reflects a complex relationship between intrusions and the supracrustal sequence.
- The contact between the supracrustals with the southern tonalite is poorly exposed and there was insufficient data obtained from field investigations to accurately describe it.
- Overall metamorphic grade increases from greenschist to lower amphibolite in the East to amphibolite grade in the West.
- The overall strain regime increases from brittle to semi-brittle in the East, to semi-brittle to semi-ductile, in the West.
- Limited sulphide mineralisation was noted during field investigations. Two small locales with felsic boulders in a low-lying area just West of Alcock Lake were sampled. Previously located by prospecting, these were re-sampled with negligible gold returned. Their provenance is unknown and the lithologies were not noted elsewhere during the Fall investigations.
- The granitoid exposures are essentially quite resistant, forming the higher ridges, knolls, and slopes, whilst the majority of the terrain is low-lying, covered, less resistive, and probably underlain mainly by supracrustals. The overall width of the main supracrustal sequence is probably quite consistent, from East to West, but internally, it has been modified by felsic intrusive activity to varying degrees.
- There is extensive dense forested cover across the property. Ridge slopes are often boulder strewn, and one suspects most of the low-lying areas are infilled with boulders. Covering this is a thick layer of organic debris (often mossy). This terrain lends itself to geochemical

soil sampling, and the SGH (soil gas hydrocarbon) geochemical sampling programme would be an option for locating buried targets.

- A comparison with the geology of the Dixie property (Great Bear Resources), would be premature, though based on previous work by T. Hughes on portions of that property, the eastern Traverse Area 6 would have a closer lithological and structural relationship. The central Dixie area is generally flatter, with a broader supracrustal sequence that has overall, less intense deformation and a lower metamorphic grade. Westwards, towards the Whirlwind Jack property, there is an increase in thermal gradient and granitoid intrusions exposed along the highway north-west of the current focus of work at Dixie by Great Bear Resources.

9.0 RECOMMENDATIONS

The following programme is recommended for the Whirlwind Jack property:

1. Airborne Survey to cover the supracrustal sequence trending approximately East-West across the property

2. Spring follow-up to examine targets in part defined by the airborne survey.

3. Based on items 1 and 2, execute a soil geochemical survey over portions of the property.

4. Diamond drilling on selected targets.

10.0 REFERENCES

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11.0 Statement of Qualifications

I, Toby Hughes of Marinaside Crescent, Vancouver, declare that:

- I graduated with an Hons. B.Sc. Geology, from Dundee University, Scotland in 1980
- I have worked as an exploration geologist for 39 years since graduation
- I am a Practicing Geologist in good standing with Professional Geoscientists Ontario, No. 1318
- I supervised and conducted work on the Whirlwind Jack property this fall, 2019, and am the author of this report, titled ‘Prospecting Report on the Whirlwind Jack Property’

T. Hughes

APPENDIX

CERTIFICATE OF ANALYSIS

Quality Analysis ... **Actlabs** *Innovative Technologies*

Report No.: A19-13652
Report Date: 31-Oct-19
Date Submitted: 08-Oct-19
Your Reference: WJack

Ryan Kalt
605-815 Hornby St
Vancouver
BC V6Z2E6
Canada

ATTN: Ryan Kalt

CERTIFICATE OF ANALYSIS

28 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1A2-50-Tbay	QOP AA-Au (Au - Fire Assay AA)	2019-10-16 07:33:11
1E3-Tbay	QOP AquaGeo (Aqua Regia ICPOES)	2019-10-29 18:57:11

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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:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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: A19-13652**

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
5562261	< 5	< 0.2	< 0.5	5	366	2	18	5	34	1.22	< 2	< 10	72	< 0.5	< 2	0.65	14	23	1.71	< 10	< 1	0.37	< 10
5562262	< 5	< 0.2	< 0.5	10	419	< 1	31	5	75	1.92	< 2	< 10	40	< 0.5	< 2	1.82	14	32	2.39	< 10	< 1	0.17	12
5562263	< 5	< 0.2	< 0.5	35	519	< 1	26	< 2	73	2.51	< 2	< 10	262	< 0.5	< 2	1.18	42	13	4.23	10	< 1	1.24	17
5562264	< 5	0.3	< 0.5	47	533	2	20	< 2	66	2.02	< 2	< 10	182	< 0.5	< 2	0.76	9	41	3.84	< 10	< 1	0.94	< 10
5562265	< 5	< 0.2	< 0.5	41	505	3	53	< 2	40	2.56	< 2	< 10	31	< 0.5	< 2	3.24	23	82	3.76	< 10	< 1	0.19	< 10
5562266	< 5	< 0.2	< 0.5	84	528	< 1	74	< 2	35	4.53	< 2	< 10	25	< 0.5	< 2	4.07	22	126	3.48	< 10	2	0.11	< 10
5562267	24	0.8	< 0.5	657	427	< 1	46	< 2	31	5.56	< 2	< 10	12	< 0.5	< 2	4.73	18	92	2.63	< 10	< 1	0.06	< 10
5562268	< 5	< 0.2	< 0.5	55	872	< 1	83	< 2	67	3.10	< 2	< 10	77	< 0.5	< 2	2.26	31	78	5.47	< 10	1	1.19	< 10
5562269	< 5	< 0.2	< 0.5	4	132	2	2	11	17	0.60	< 2	< 10	33	< 0.5	< 2	0.40	1	17	0.72	< 10	< 1	0.24	36
5562270	< 5	< 0.2	0.6	7	622	2	46	< 2	39	2.55	< 2	< 10	23	< 0.5	< 2	3.60	21	101	3.74	< 10	< 1	0.28	< 10
5562271	< 5	< 0.2	< 0.5	74	613	< 1	44	< 2	35	2.10	< 2	< 10	17	< 0.5	< 2	2.15	22	66	2.98	< 10	< 1	0.08	< 10
5562272	< 5	< 0.2	< 0.5	3	39	49	2	< 2	< 2	0.11	< 2	< 10	< 10	< 0.5	< 2	0.02	< 1	36	0.37	< 10	< 1	0.02	< 10
5562273	< 5	0.3	< 0.5	38	65	9	14	2	3	0.35	< 2	< 10	18	< 0.5	< 2	0.06	7	74	1.72	< 10	< 1	0.10	16
5562274	9	< 0.2	< 0.5	58	508	< 1	62	< 2	34	2.54	< 2	< 10	22	1.0	< 2	2.93	21	121	2.68	< 10	< 1	0.17	< 10
5562275	9	< 0.2	0.6	146	633	< 1	72	< 2	36	4.93	< 2	< 10	23	< 0.5	2	4.45	22	124	3.66	< 10	3	0.11	< 10
5562276	< 5	< 0.2	< 0.5	18	539	< 1	24	3	81	2.11	< 2	< 10	143	< 0.5	< 2	1.65	13	41	2.76	< 10	< 1	1.12	48
5562277	< 5	< 0.2	< 0.5	44	693	< 1	64	< 2	58	2.52	< 2	< 10	29	< 0.5	3	2.78	25	104	4.71	< 10	1	0.20	< 10
5562278	< 5	< 0.2	< 0.5	28	329	1	18	< 2	52	1.76	< 2	< 10	168	< 0.5	< 2	0.35	17	17	2.21	< 10	< 1	0.92	18
5562279	< 5	< 0.2	< 0.5	1	289	< 1	6	11	18	1.62	< 2	< 10	12	0.7	< 2	2.54	2	44	1.84	< 10	< 1	0.05	19
5562280	< 5	< 0.2	< 0.5	35	683	2	45	< 2	63	2.39	< 2	< 10	29	0.6	< 2	2.47	22	82	4.40	< 10	< 1	0.33	16
5562281	5	< 0.2	< 0.5	52	683	< 1	58	5	57	2.05	< 2	< 10	33	< 0.5	< 2	2.59	17	70	4.51	< 10	< 1	0.15	< 10
5562282	< 5	< 0.2	< 0.5	18	266	2	2	< 2	41	1.48	< 2	< 10	190	< 0.5	< 2	0.33	6	9	2.32	< 10	< 1	0.85	< 10
5562283	< 5	< 0.2	< 0.5	76	624	< 1	34	< 2	49	2.10	< 2	< 10	20	< 0.5	< 2	3.15	24	77	4.60	< 10	< 1	0.19	< 10
5562284	< 5	< 0.2	< 0.5	1	286	< 1	42	2	30	1.54	< 2	< 10	70	< 0.5	< 2	1.14	13	84	1.81	< 10	< 1	0.70	15
5562285	< 5	< 0.2	< 0.5	1	236	< 1	3	10	49	0.95	< 2	< 10	166	< 0.5	< 2	0.23	4	14	1.05	< 10	< 1	0.62	43
5562286	< 5	< 0.2	< 0.5	14	439	< 1	14	< 2	66	2.34	< 2	< 10	197	< 0.5	< 2	1.95	20	9	4.65	< 10	< 1	0.68	< 10
5562287	< 5	< 0.2	< 0.5	64	700	2	51	10	94	2.21	< 2	< 10	20	1.9	< 2	2.88	24	83	3.67	< 10	< 1	0.30	< 10
5562288	< 5	< 0.2	< 0.5	4	528	< 1	30	< 2	58	1.97	< 2	< 10	159	< 0.5	< 2	1.56	14	22	2.69	< 10	< 1	0.79	12

Results **Activation Laboratories Ltd.** **Report: A19-13652**

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
5562261	0.31	0.157	0.025	< 0.01	< 2	4	24	0.11	< 20	< 1	< 2	< 10	33	< 10	7	8
5562262	0.63	0.093	0.057	< 0.01	< 2	6	209	0.26	< 20	3	< 2	< 10	39	< 10	5	15
5562263	0.93	0.264	0.120	< 0.01	< 2	15	32	0.29	< 20	< 1	< 2	< 10	174	< 10	20	9
5562264	0.57	0.239	0.054	0.10	< 2	7	46	0.25	< 20	4	< 2	< 10	83	< 10	6	16
5562265	1.50	0.246	0.029	0.02	< 2	13	52	0.33	< 20	4	< 2	< 10	111	< 10	13	5
5562266	1.21	0.747	0.022	0.01	< 2	13	48	0.29	< 20	3	< 2	< 10	103	< 10	10	2
5562267	1.09	0.484	0.020	0.06	< 2	10	79	0.25	< 20	3	< 2	< 10	70	< 10	8	2
5562268	2.74	0.263	0.026	< 0.01	< 2	18	11	0.30	< 20	2	< 2	< 10	152	< 10	9	6
5562269	0.15	0.067	0.019	< 0.01	< 2	1	43	0.07	< 20	3	< 2	< 10	10	< 10	7	22
5562270	1.10	0.220	0.029	< 0.01	< 2	15	58	0.34	< 20	4	< 2	< 10	131	< 10	12	5
5562271	1.32	0.304	0.025	0.01	< 2	16	24	0.18	< 20	1	< 2	< 10	109	< 10	6	2
5562272	0.01	0.020	0.003	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
5562273	0.01	0.040	0.026	1.02	< 2	1	4	0.01	< 20	< 1	< 2	< 10	5	< 10	3	21
5562274	1.01	0.322	0.019	< 0.01	< 2	14	29	0.33	< 20	2	< 2	< 10	97	< 10	11	4
5562275	1.74	0.643	0.022	0.02	< 2	14	54	0.26	< 20	2	< 2	< 10	97	< 10	9	2
5562276	1.30	0.118	0.119	0.18	< 2	3	203	0.28	< 20	3	< 2	< 10	54	< 10	21	16
5562277	1.98	0.205	0.073	0.04	< 2	15	73	0.31	< 20	4	< 2	< 10	121	< 10	12	8
5562278	0.69	0.155	0.043	0.01	< 2	5	22	0.18	< 20	< 1	< 2	< 10	55	< 10	5	21
5562279	0.26	0.134	0.091	< 0.01	< 2	5	286	0.26	< 20	5	< 2	< 10	37	< 10	9	12
5562280	1.61	0.186	0.087	0.03	< 2	11	83	0.29	< 20	4	< 2	< 10	108	< 10	13	9
5562281	1.06	0.233	0.043	0.04	< 2	8	110	0.22	< 20	3	< 2	< 10	71	< 10	8	12
5562282	0.64	0.177	0.040	0.03	< 2	4	27	0.21	< 20	4	< 2	< 10	43	< 10	4	8
5562283	1.70	0.295	0.028	< 0.01	< 2	20	12	0.33	< 20	3	< 2	< 10	146	< 10	14	4
5562284	0.99	0.157	0.041	0.02	< 2	6	86	0.22	< 20	2	< 2	< 10	63	< 10	7	11
5562285	0.31	0.081	0.048	< 0.01	< 2	< 1	27	0.11	< 20	3	< 2	< 10	12	< 10	3	16
5562286	1.34	0.297	0.100	< 0.01	3	13	20	0.26	< 20	< 1	< 2	< 10	131	< 10	12	9
5562287	1.34	0.254	0.104	0.01	< 2	14	23	0.24	< 20	2	< 2	< 10	102	< 10	32	8
5562288	0.54	0.143	0.038	< 0.01	< 2	3	37	0.21	< 20	3	< 2	< 10	44	< 10	5	6

QC **Activation Laboratories Ltd.** **Report: A19-13652**

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	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	0.01
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-6 Meas	0.5	< 0.5	65	999	1	24	82	121	7.01	231	< 10	693	0.9	3	0.13	11	79	5.06	20	2	1.17	< 10	0.37
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	0.609
GXR-6 Meas	0.4	< 0.5	72	1070	2	27	88	128	7.67	258	< 10	751	1.0	3	0.14	11	84	5.75	20	< 1	1.29	10	0.40
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	0.609
OREAS 922 (AQUA REGIA) Meas	0.7	< 0.5	2130	745	< 1	36	52	249	2.99	6		77	0.8	11	0.42	18	48	4.62	< 10		0.53	38	1.25
OREAS 922 (AQUA REGIA) Cert	0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5	1.33
OREAS 922 (AQUA REGIA) Meas	0.9	< 0.5	2210	771	< 1	36	55	264	3.08	9		87	0.8	9	0.44	18	48	5.12	< 10		0.56	39	1.36
OREAS 922 (AQUA REGIA) Cert	0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5	1.33
OREAS 923 (AQUA REGIA) Meas	1.4	< 0.5	4340	836	< 1	34	74	328	2.97	5		62	0.7	22	0.42	20	42	5.50	< 10		0.44	35	1.36
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
OREAS 923 (AQUA REGIA) Meas	1.9	< 0.5	4480	906	< 1	35	75	353	3.11	4		70	0.8	23	0.44	20	44	6.16	< 10		0.47	36	1.51
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
Oreas 96 (Aqua Regia) Meas	10.2		> 10000				80	412						65		44							
Oreas 96 (Aqua Regia) Cert	11.50		39100.00				100	448						27.9		49.2							
Oreas 96 (Aqua Regia) Meas	10.5		> 10000				83	430						49		44							
Oreas 96 (Aqua Regia) Cert	11.50		39100.00				100	448						27.9		49.2							
OREAS 220 (Fire Assay) Meas																							
OREAS 220 (Fire Assay) Cert																							
OREAS 220 (Fire Assay) Meas																							
OREAS 220 (Fire Assay) Cert																							
Oreas 621 (Aqua Regia) Meas	66.7	266	3490	524	14	27	> 5000	> 10000	1.87	79			0.6	12	1.71	34	32	3.17	10	5	0.41	20	0.42
Oreas 621 (Aqua Regia) Cert	68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4	0.436
Oreas 621 (Aqua Regia) Meas	66.1	269	3520	519	14	27	> 5000	> 10000	1.89	78			0.6	10	1.70	31	33	3.13	10	4	0.42	20	0.42
Oreas 621 (Aqua Regia) Cert	68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4	0.436
OREAS 238 (Fire Assay) Meas																							
OREAS 238 (Fire Assay) Cert																							
5562263 Orig	< 0.2	< 0.5	35	517	< 1	26	< 2	72	2.51	< 2	< 10	261	< 0.5	< 2	1.17	43	13	4.18	10	< 1	1.25	17	0.92
5562263 Dup	< 0.2	< 0.5	35	521	< 1	25	< 2	73	2.51	< 2	< 10	264	< 0.5	< 2	1.18	41	13	4.28	10	< 1	1.22	17	0.93
5562270 Orig																							

QC **Activation Laboratories Ltd.** **Report: A19-13652**

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	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	0.01
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
5562270 Dup																							
5562276 Orig	< 0.2	< 0.5	18	549	< 1	24	3	82	2.15	< 2	< 10	145	< 0.5	< 2	1.70	13	42	2.80	10	< 1	1.12	48	1.32
5562276 Dup	< 0.2	< 0.5	18	529	< 1	24	3	80	2.07	< 2	< 10	140	< 0.5	< 2	1.61	14	40	2.72	< 10	< 1	1.12	48	1.27
5562280 Orig																							
5562280 Dup																							
5562287 Orig																							
5562287 Dup																							
Method Blank																							
Method Blank																							
Method Blank																							
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	< 0.01
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	< 0.01
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	< 0.01

QC **Activation Laboratories Ltd.** **Report: A19-13652**

Analyte Symbol	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	ppb
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	5
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	FA-AA
GXR-6 Meas	0.106	0.034	0.01	4	19	26		< 20	< 1	< 2	< 10	159	< 10	5	10	
GXR-6 Cert	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	
GXR-6 Meas	0.120	0.037	0.01	6	20	27		< 20	< 1	< 2	< 10	173	< 10	5	12	
GXR-6 Cert	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	
OREAS 922 (AQUA REGIA) Meas	0.033	0.061	0.35	2	4	14		< 20		< 2	< 10	34	< 10	20	6	
OREAS 922 (AQUA REGIA) Cert	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3	
OREAS 922 (AQUA REGIA) Meas	0.037	0.065	0.37	3	4	15		< 20		< 2	< 10	37	< 10	22	7	
OREAS 922 (AQUA REGIA) Cert	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3	
OREAS 923 (AQUA REGIA) Meas		0.059	0.66	3	4	13		< 20		< 2	< 10	33	< 10	18	7	
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5	
OREAS 923 (AQUA REGIA) Meas		0.061	0.67	2	4	14		< 20		< 2	< 10	37	< 10	21	8	
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5	
Oreas 96 (Aqua Regia) Meas			3.58	6												
Oreas 96 (Aqua Regia) Cert			4.38	4.53												
Oreas 96 (Aqua Regia) Meas			3.65	5												
Oreas 96 (Aqua Regia) Cert			4.38	4.53												
OREAS 220 (Fire Assay) Meas																887
OREAS 220 (Fire Assay) Cert																866
OREAS 220 (Fire Assay) Meas																859
OREAS 220 (Fire Assay) Cert																866
Oreas 621 (Aqua Regia) Meas	0.171	0.035	4.50	95	2	16		< 20		2	< 10	12	< 10	8	67	
Oreas 621 (Aqua Regia) Cert	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0	
Oreas 621 (Aqua Regia) Meas	0.171	0.034	4.56	94	2	17		< 20		< 2	< 10	12	< 10	8	65	
Oreas 621 (Aqua Regia) Cert	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0	
OREAS 238 (Fire Assay) Meas																2970
OREAS 238 (Fire Assay) Cert																3030
5562263 Orig	0.259	0.120	< 0.01	< 2	15	31	0.29	< 20	3	< 2	< 10	173	< 10	20	9	
5562263 Dup	0.269	0.120	< 0.01	< 2	16	33	0.29	< 20	< 1	< 2	< 10	174	< 10	21	9	
5562270 Orig																< 5

QC **Activation Laboratories Ltd.** **Report: A19-13652**

Analyte Symbol	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	ppb
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	5
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	FA-AA
5562270 Dup																< 5
5562276 Orig	0.121	0.120	0.18	< 2	3	215	0.29	< 20	3	< 2	< 10	55	< 10	22	15	
5562276 Dup	0.114	0.118	0.18	< 2	3	191	0.28	< 20	3	< 2	< 10	53	< 10	21	16	
5562280 Orig																< 5
5562280 Dup																< 5
5562287 Orig																< 5
5562287 Dup																< 5
Method Blank																< 5
Method Blank																< 5
Method Blank																5
Method Blank	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank	0.014	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	
Method Blank	0.013	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1	

Expense Sheet

	Red Lake Gold Inc.									
Period:	September - October 2019									
Currency:	Can$			**Record Numbers on receipts**						
Project		**Whirlwind jack**								
Rec #	**Date**	**Location**	**Description**	**Air Transport**	**Ground Transport**	**Meals**	**Contractors**	**Lodging**	**Other Field Supplies +**	**TOTAL (NO HST)**
1	21.9.19	Red Lake	Accommodation					250.00		250.00
3	3.10.19	Red Lake	Gas		9.04					9.04
5	1.10.19	Red Lake	Meal			19.51				19.51
6	2.10.19	Red Lake	Meal			17.22				17.22
7	4.10.19	Winnipeg	Vehicle Rental Enterprise 4 days claimed from $1639.98 (excl GST) total		385.88					385.88
8	26.9.19	Red Lake	Potable Water			37.00				37.00
9	2.10.19	Red Lake	RL Marine Generator Rental						192.59	192.59
10	2.10.19	Red Lake	Food and water			17.47				17.47
11	24.9.19	Red Lake	Meal			24.50				24.50
12	4.10.19	Winnipeg	Satellite Phone Rental						417.30	417.30
13	2.10.19	Red Lake	Meal			17.35				17.35
14	1.10.19	Red Lake	Meal			24.93				24.93
15	22.9.19	Balmertown	Food			9.45				9.45
16	3.10.19	Red Lake	Field Supplies NW Timbermart						12.68	12.68
17	3.10.19	Red Lake	Boat & motor rental L'side Marine		125.00					125.00
21	3.10.19	Red Lake	Hotel accommodation					300.00		300.00
22	24.9.19	Red Lake	Food			14.33				14.33
23	23.9.19	Red Lake	Provisions for camp			660.89				660.89
24	23.9.19	Balmertown	Meal			34.85				34.85
25	26.9.19	Red Lake	Gas		69.07					69.07
26	26.9.19	Balmertown	Meal			9.25				9.25
27	22.9.19	Ear Falls	Gas		103.44					103.44
28	26.9.19	Balmertown	Accommodation					472.00		472.00
29	22.9.19	Red Lake	Accommodation					142.00		142.00
30	25.9.19	Red Lake	Food			7.26				7.26
31	19.9.19	Winnipeg	Maps for fieldwork						208.04	208.04
32	21.9.19	Ear Falls	Food			35.76				35.76
33	21.9.19	Ear Falls	Food			15.25				15.25
34	19.9.19	Red Lake	Meals			76.95				76.95
35	21.9.19	Ear Falls	Field Supplies for emergency						163.70	163.70
36	20.9.19	Red Lake	Meal			27.50				27.50
37	21.9.19	Ear Falls	Gas					99.92		99.92
39	3.10.19	Ear Falls	Gas		76.12					76.12
40		Red Lake	Superior Airways Bug Lake flight 1. October	741.60						741.60
41		Red Lake	Flights for Cabin/Camp set-up, Bug Lake September	741.60						741.60
42		Red Lake	Cabin rental, Bug Lake					1,680.00		1,680.00
43		Ancaster	Actlabs Analyses						1,251.60	1,251.60
44		Red Lake	M. Long Prospecting 9 days				6,900.00			6,900.00
45		Red Lake	T. Hughes Prospecting 11 days				6,000.00			6,000.00
46		Red Lake	flights dock repairs, camp opening	1,000.00						1,000.00
47		Vancouver	T. Hughes Report						3,000.00	3,000.00
Note: Item 7 is calculated at 4 days out of a total of 17 days & $1639.98										
			Sub-Totals	**2,483.20**	**768.55**	**1,049.47**	**12,900.00**	**2,943.92**	**5,245.91**	**25,391.05**

WHIRLWIND JACK MINING CLAIMS - ALL

Township / Area	Tenure ID	Tenure Type All single cell mining claim, 'SCMC'	Anniversary Date	Tenure Status	Tenure %age	Work Required	Work Applied	Available Consultation Reserve	Available Exploration Reserve	Total Reserve	Conversion Bank Credit
DEDEE LAKE AREA	528626	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528632	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528640	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528646	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528647	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528652	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528653	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528655	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528980	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528982	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528994	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	528997	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529605	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529610	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529618	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529624	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529628	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529720	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529722	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529726	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529865	SCMC	2020-08-28	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529874	SCMC	2020-08-28	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529928	SCMC	2020-08-28	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529941	SCMC	2020-08-28	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529946	SCMC	2020-08-28	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	529959	SCMC	2020-08-28	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	530351	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	530352	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	530353	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532025	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532026	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532028	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532030	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532031	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532033	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532034	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532035	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532037	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532038	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532039	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532041	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	532042	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534407	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534409	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534413	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534414	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534415	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534419	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534421	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534424	SCMC	2020-11-10	Active	100	400	0	0	0	0	0

DEDEE LAKE AREA	534427	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534433	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534434	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534436	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534458	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534459	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534461	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534462	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534463	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534464	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534466	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534472	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534484	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534495	SCMC	2020-11-10	Active	100	400	0	0	0	0	0

DEDEE LAKE AREA	534496	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534498	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534505	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534515	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534516	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534517	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534520	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534521	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA	534530	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA	534531	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528215	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528627	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528633	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528682	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528689	SCMC	2020-08-24	Active	100	400	0	0	0	0	0

DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528695	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528698	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528700	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528704	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528707	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528719	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528720	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528987	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	528988	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	529719	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	532027	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	532029	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	532032	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	532040	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	532043	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	534411	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA, FAULKENHAM LAKE AREA	534429	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	534430	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
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DEDEE LAKE AREA, FAULKENHAM LAKE AREA	534432	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	534435	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	534439	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA	534443	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	528992	SCMC	2020-08-24	Active	100	400	0	0	0	0	0

DEDEE LAKE AREA, RAINFALL LAKE AREA	528979	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	528991	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	528993	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	529002	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	529013	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	529020	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	529021	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	534528	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
DEDEE LAKE AREA, RAINFALL LAKE AREA	534532	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528052	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528053	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528054	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528055	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528056	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528057	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528058	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528059	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528060	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528061	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528062	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528063	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528066	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528068	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528069	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528070	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528071	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528072	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528073	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528074	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528075	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528076	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528077	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528078	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528079	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528080	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528081	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528082	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528083	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528084	SCMC	2020-08-23	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA	528085	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528086	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528087	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528090	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528091	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528092	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528096	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528097	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528098	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528099	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528100	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528101	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528210	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528211	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528212	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528213	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528214	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528233	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528236	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528245	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528248	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528254	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528577	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528578	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528579	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528580	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528581	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528582	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528588	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528589	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528590	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528591	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528592	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528593	SCMC	2020-08-23	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA	528594	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528595	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528596	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528597	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528598	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528600	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528601	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528602	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528603	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528604	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528610	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528611	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528612	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528613	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528614	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528615	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528616	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528623	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528624	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528625	SCMC	2020-08-23	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528642	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528643	SCMC	2020-08-24	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA	528644	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528645	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528648	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528650	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528651	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528654	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528658	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528659	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528660	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528662	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528663	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528664	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528665	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528666	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528683	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528684	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528685	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528686	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528687	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528696	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528697	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528699	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528701	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528702	SCMC	2020-08-24	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA	528703	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528705	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528706	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528708	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528709	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528710	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528711	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528712	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528718	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528721	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	528953	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528954	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528955	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528956	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528957	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528961	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528962	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	528963	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	529550	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529551	SCMC	2020-08-27	Active	100	400	0	0	0	0	0

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FAULKENHAM LAKE AREA	529553	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529554	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	529558	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529559	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	529561	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529562	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529563	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	529570	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529571	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529572	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	529574	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	529581	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
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FAULKENHAM LAKE AREA	529695	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529696	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529697	SCMC	2020-08-27	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA	529698	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529699	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529700	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529701	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529702	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529703	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529704	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529705	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529706	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529707	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529708	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529709	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529710	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529711	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529712	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529713	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529714	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529715	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529716	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529717	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529718	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529721	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529723	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529724	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529725	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529727	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529728	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529729	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529730	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529731	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529732	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529733	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529734	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529735	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529736	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529737	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529738	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529739	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529740	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529741	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529742	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529743	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529744	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	529745	SCMC	2020-08-27	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA	529746	SCMC	2020-08-27	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	532036	SCMC	2020-10-01	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534408	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534410	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534412	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534420	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534422	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534426	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534428	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534441	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534442	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534444	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	534449	SCMC	2020-11-10	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550584	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550585	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550586	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550587	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550588	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550589	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550590	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550591	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550592	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550593	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550594	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550595	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550596	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550597	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550598	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550599	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550600	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550601	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550602	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550603	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550604	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550605	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550606	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550607	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550608	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550609	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550610	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550611	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550612	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550613	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550614	SCMC	2021-05-29	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA	550615	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550616	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550617	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550618	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550619	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550620	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550621	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550622	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550623	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550624	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550625	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550626	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550627	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550628	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550629	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550630	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550631	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550632	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550633	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550634	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550635	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550636	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550637	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550638	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550639	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550640	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550641	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550642	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550643	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550644	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550645	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550646	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550647	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550648	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550649	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550650	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550651	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550652	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550653	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550654	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550655	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA	550656	SCMC	2021-05-29	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528948	SCMC	2020-08-24	Active	100	400	0	0	0	0	0

FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528952	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528959	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528960	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528966	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528969	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528981	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528985	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
FAULKENHAM LAKE AREA, MEDICINE STONE LAKE AREA	528983	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
LEANO LAKE AREA, RAINFALL LAKE AREA	529279	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
LEANO LAKE AREA, RAINFALL LAKE AREA	529280	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	528958	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	528967	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	528968	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	528977	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529152	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529153	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529154	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529157	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529159	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529162	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529163	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529164	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529167	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529168	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529170	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529171	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529172	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529173	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529176	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529178	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529193	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	529201	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	530347	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	530348	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA	530349	SCMC	2020-08-29	Active	100	400	0	0	0	0	0

MEDICINE STONE LAKE AREA	530350	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	528986	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529155	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529156	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529158	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529160	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529161	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529165	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529166	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529169	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529174	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529175	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529180	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529188	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	529200	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	553681	SCMC	2021-07-10	Active	100	400	0	0	0	0	0
MEDICINE STONE LAKE AREA, RAINFALL LAKE AREA	553697	SCMC	2021-07-10	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528974	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528975	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528978	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528990	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528995	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528996	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528998	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	528999	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529000	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529001	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529003	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529004	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529005	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529006	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529007	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529008	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529009	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529010	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529011	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529012	SCMC	2020-08-24	Active	100	400	0	0	0	0	0

RAINFALL LAKE AREA	529014	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529015	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	529321	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	529325	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	529326	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	529335	SCMC	2020-08-24	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	530330	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	530331	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	530340	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	530342	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	530345	SCMC	2020-08-29	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	542881	SCMC	2021-02-21	Active	100	400	0	0	0	0	0
RAINFALL LAKE AREA	542882	SCMC	2021-02-21	Active	100	400	0	0	0	0	0
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RAINFALL LAKE AREA	553658	SCMC	2021-07-10	Active	100	400	0	0	0	0	0
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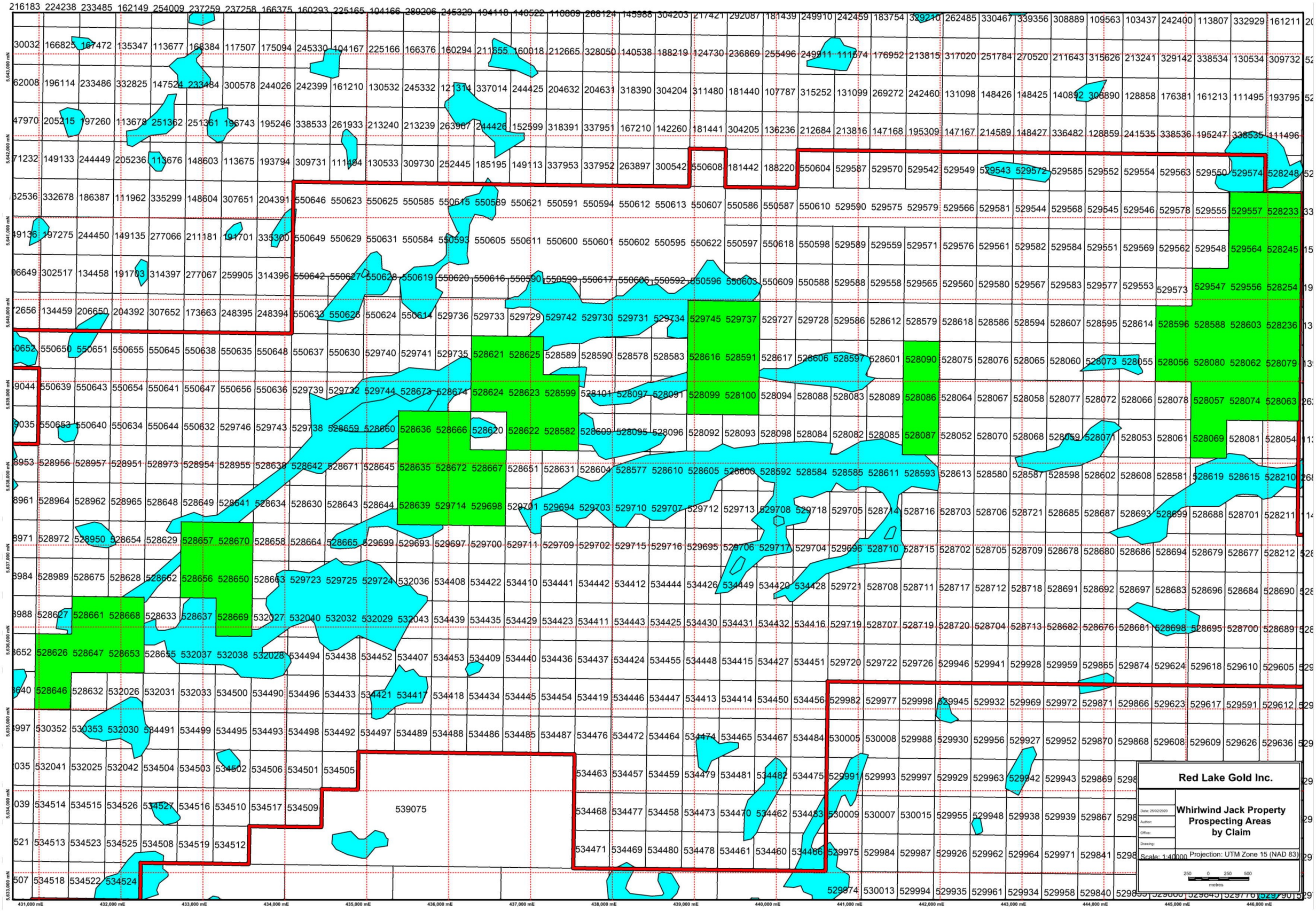
Red Lake Gold Inc.
Whirlwind Jack Property
Prospecting Areas
by Claim
Date: 25/02/2020
Author:
Office:
Drawing:
Scale: 1:40000
Projection: UTM Zone 15 (NAD 83)
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