2.22861

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SUMMARY

In March of 2000, Berland Resources Ltd. signed a letter agreement with Stares Contracting Corporation of Thunder Bay, Ontario to option the 8 claim property with palladium and platinum potential. Berland can earn a 100% interest subject to a 2% NSR by making certain cash and share payments over three years. Since the original option was signed, the property was expanded to include 13 unpatented contiguous claims, 178 units covering 7,120 acres. One additional claim was recorded in July, 2001.

The phase I, 2001 exploration program was designed to follow-up on the encouraging results derived from the fall 2000 prospecting program. The program commenced in mid-May by cutting a 35 km grid with 200 m spaced grid lines. In - fill lines on 100 m centers were cut on the south end of the grid and 5 lines were extended 300 meters to the west in July. All 200 meter spaced grid lines were mapped geologically and B-horizon soil sampled on 25 meter centers. Prospecting covered each grid line plus random traverses between grid lines. Outcrops were sparse and boulder prospecting was necessitated. The line cutting and geophysical surveys were filed in a separate report.

The North American Palladium Mine and other recent exploration activity in the Thunder Bay Mining Division has discovered a number of platinum group elements (PGE) showings in rocks of similar type to those found at Roaring River.

Stares Contracting Corporation of Thunder Bay, Ontario were contracted by Berland Resources Ltd. of Thunder Bay, Ontario to supply the camp facility plus prospect and soil sample the grid. They supplied a 2 man team for 20 days and a 4 man team for 4 days (total 56 man days) to complete the contract. Peacock Exploration Services of Thunder Bay was contracted to line cut. Janice Fingler, P. Geo (B.C.) of Cumberland Resources Ltd. conducted the geological survey on the grid and trenches, interpreted the analytical data and co-authored this report. Mr. W. McCrindle of Berland planned and supervised the field program.

1.0 INTRODUCTION

In May and early June of 2001, Peacock Exploration Services completed a 35 km grid with 200 m spaced lines. Immediately, Stares Contracting and the geologist arrived to commence the phase I program on the property. With the encouragement from the initial 2001 program, a phase II program consisting of additional line cutting, ground geophysics and overburden trenching began. The trenches were sampled and mapped in September by the same personnel.

2.0 LOCATION AND ACCESSIBILITY

The property is located approximately 60 kilometers due north of the North American Palladium Mine and 145 kilometers north of the city of Thunder Bay in the Thunder Bay Mining Division of Ontario. The property is accessible by all weather road as the Garden Lake Road, (highway 811) cuts the southern claims. The northern part of the property can be accessed by boat along Bilkey Lake and the Roaring River.

3.0 PROPERTY DESCRIPTION

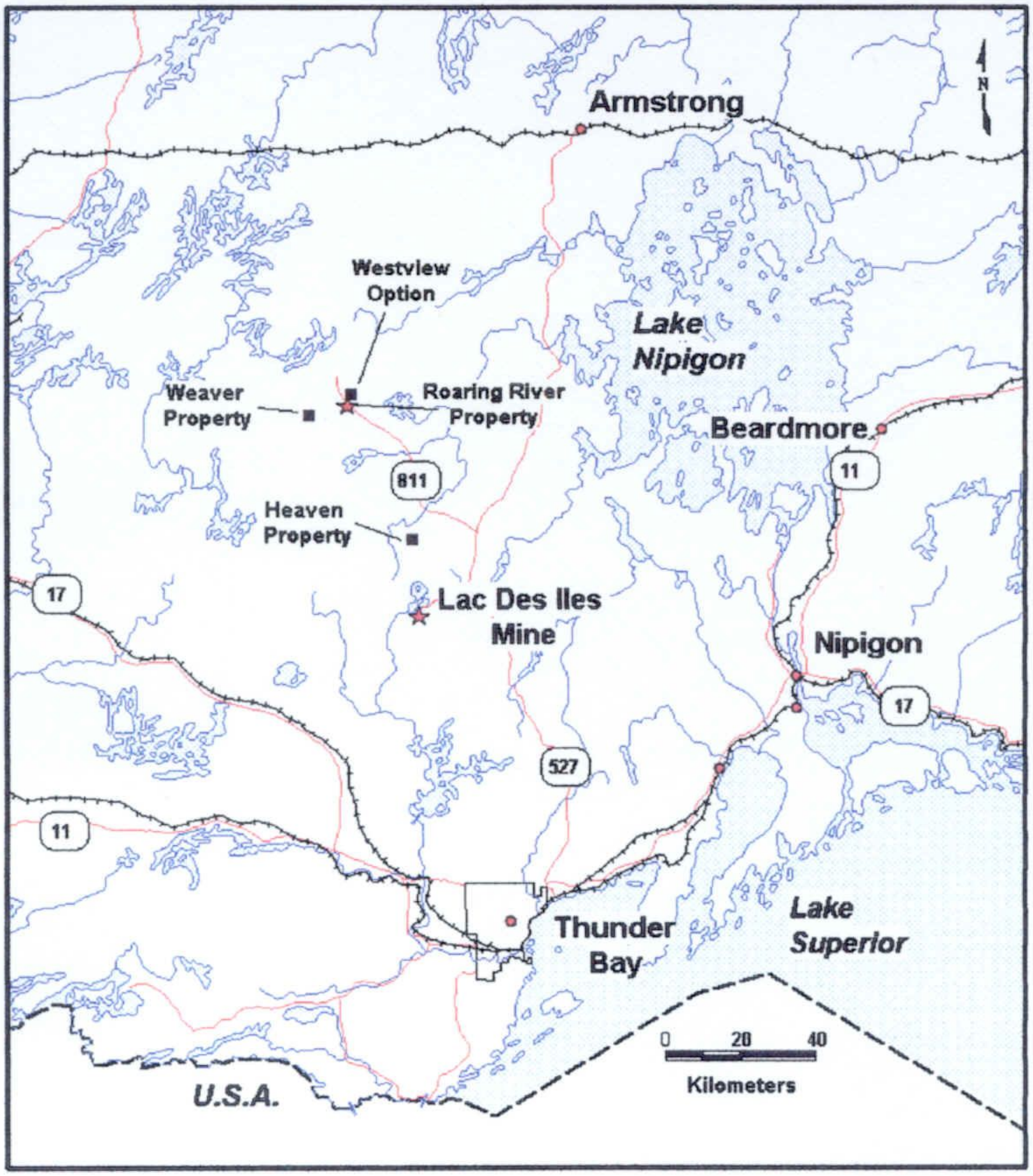
In March of 2000, Berland Resources Ltd. signed a letter agreement with Stares Contracting Corporation of Thunder Bay, Ontario to option the 8 claim property with palladium and platinum potential. Berland can earn a 100% interest subject to a 2% NSR by meeting a series of cash option payments aggregating $42,000 over four (4) years and issuing 100,000 common shares in 4 tranches. To date $12,000 in cash and 50,000 common shares at a deemed value of $11,000 have been paid.

The property now is comprised of 13 unpatented mining claims, (178 units) covering 7,120 acres. (see figure 2) The claims are listed in table #1. Much of the property is covered by small lakes and swamps. Upland regions are jack pine, spruce and poplar covered. Outcrop is sparse throughout the property. One new claim was staked in July, 2001 and is not included in this report.

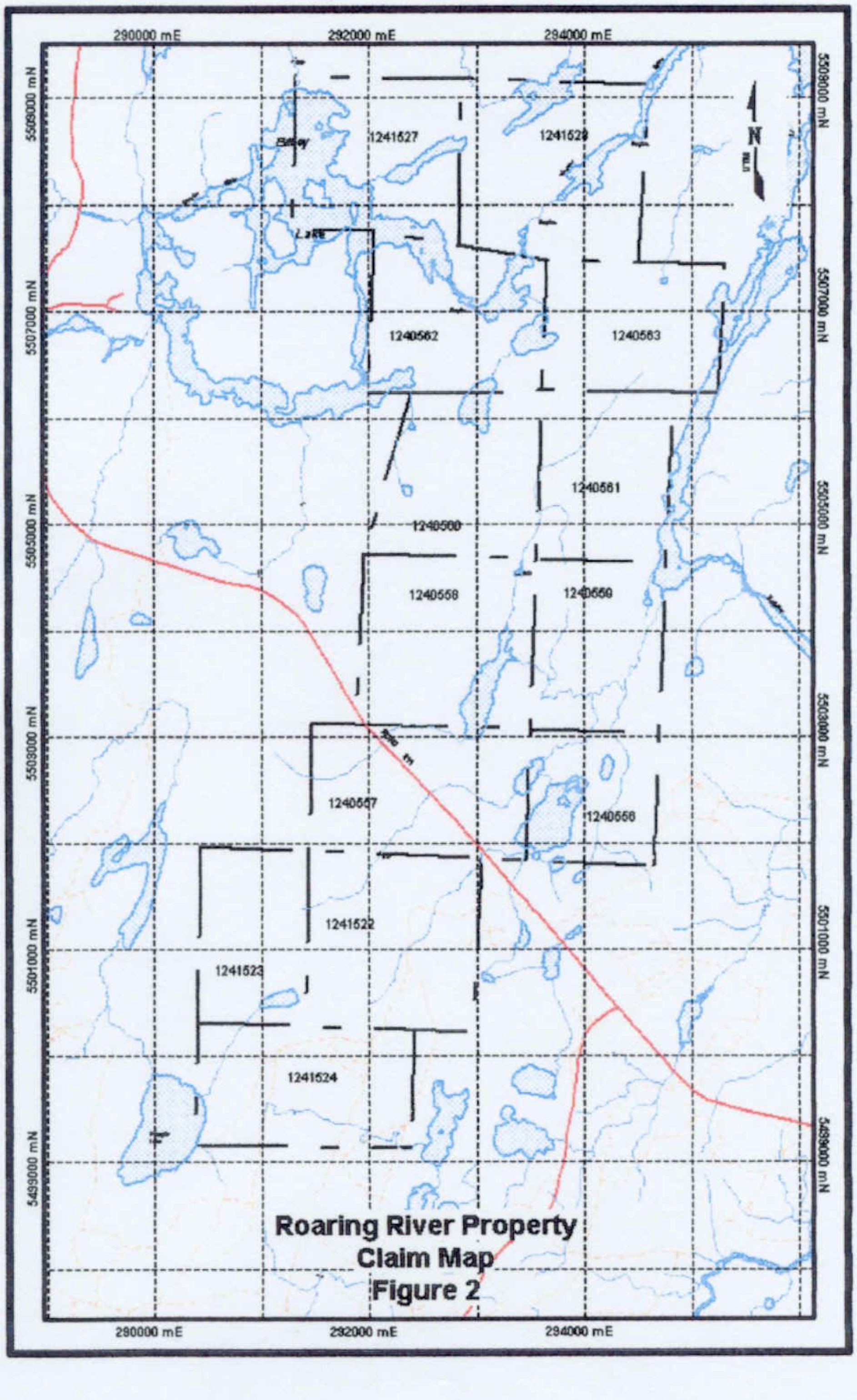
3.1 CLAIM LIST - Table #1

Claim Number	Township	Number of Units	Recorded Date	Expiry Date	Berland Ownership
1240556	Gillard Lake	9	March 24, 2000	March 24, 2002	100%-2%NSR
1240557	Gillard Lake	15	March 24, 2000	March 24, 2002	100% - 2% NSR
1240558	Gillard Lake	16	March 24, 2000	March 24, 2002	100% - 2% NSR
1240559	Gillard Lake	12	March 24, 2000	March 24, 2002	100% - 2% NSR
1240560	Gillard Lake	15	March 24, 2000	March 24, 2002	100% - 2% NSR
1240561	Gillard Lake	12	March 24, 2000	March 24, 2002	100% - 2% NSR
1240562	Gillard Lake	16	March 24, 2000	March 24, 2002	100% - 2% NSR
1240563	Gillard Lake	12	March 24, 2000	March 24, 2002	100% - 2% NSR
1241522	Gillard Lake	16	December 5, 2000	December 5, 2002	100% - 2% NSR
1241523	Gillard Lake	9	December 5, 2000	December 5, 2002	100% - 2% NSR
1241524	Garden Lake	15	December 5, 2000	December 5, 2002	100% - 2% NSR
1241527	Gillard Lake	15	January 5, 2001	January 5, 2003	100% - 2% NSR
1241528	Gillard Lake	16	January 5, 2001	January 5, 2003	100% - 2% NSR

Total 13claims, 178 units, 7,120 acres.



BERLAND RESOURCES LTD.
Figure 1
Property Location Map
Thunder Bay Mining Division, Ontario


290000 mE
292000 mE
294000 mE
5508000 mN
5507000 mN
5505000 mN
5503000 mN
5501000 mN
5499000 mN
N
1241527
1241528
1240562
1240563
1240561
1240560
1240558
1240559
1240557
1240556
1241522
1241523
1241524
Roaring River Property
Claim Map
Figure 2

4.0 HISTORY

Ontario Department of Mines, geological report # 25, Garden Lake Area by V.G. Milne, 1964 covered the property area.

R. Stern and G. Hanson; 1989: Archean high - Mg Granodiorite: A derivative of light rare earth element - enriched monzodiorite of mantle origin. Journal of petrology, Vol 32, Part1 pp. 201-238, 1991.

Prior to Berland's prospecting work in the fall of 2000, no previous exploration reports were on file for the property. There is no evidence that the property had been staked in the past.

In the year 2000, the OGS released its Lake Bottom Sediment Report for the Garden Lake - Obongo Lake area and the Airborne Geophysical Treasure Hunt Data for the same area.

5.0 REGIONAL GEOLOGY

The Roaring River Complex is located in the 3.0 – 2.6 Ma Western Wabigoon granite-greenstone terrane of the Archean Superior Province. It is an arcuate shaped intrusive body which is over 70 km long along a North-South trend, 1.0-15 km wide, and is comprised of gabbro/pyroxenite to diorite to monzonite phases. The original OGS regional mapping (Map 2058 Garden Lake West Half) utilized limited roadside exposures of gabbro and an associated airborne magnetic high response to infer the extent of the complex as a lobate body along its N-S axis with an arcuate tail extending to the southwest.

This trend is also apparent in the new aeromagnetic survey results from the OGS Operation Treasure Hunt program, although the flight lines run at a poor angle to the trend of the complex. The regional lake sediment survey completed during the same OGS program also indicated anomalous chromium and nickel values associated with samples from lakes in the area of the Roaring River property. These results further suggested that the complex was characterized by mafic-ultramafic phases

The only prior detailed study in the area of the property was completed by R. Stern and G. Hanson in 1989. The study presented "petrogenetic modelling of major elements, trace elements including REEs and Nd/Sr isotopes for a series of fresh, undeformed rocks ranging in composition from diorite to granodiorite. This rock series defined a chemically continuous high magnesian series of the sanukitoid, alkalic suite. A few samples included in the study were gabbro-pyroxenite phases which were considered to be part of a large 3 x 1 km raft which was geochemically not considered to be directly related to the main rock series.

The recent increase in exploration for platinum group elements (PGE) in the Archean rocks of northwestern Ontario has identified several diverse settings for Neoarchean mineralization (Smyk, M, OGS). PGE mineralization is known to be associated with mafic intrusive rocks within syn to post tectonic diorite-monzonite suites of sanukitoid type (2680 to 2685 Ma) in the Wabigoon, Quetico and Wawa subprovinces. The Entwine Lake Intrusion, located in the Dryden area, is a close analog to the Roaring River Complex. Recent work by Champion Bear Resources has identified PGE enrichment associated with sulphide mineralization within diorite/gabbro to monzodiorite/monzogabbro phases.

Prospecting of the Roaring River property in 2000, located sulphide mineralization with anomalous PGE values associated with similar phases as in the Entwine Lake intrusion. This confirmed the potential of intrusions of the alkalic sanukitoid suite to host PGE mineralization and encouraged further work on this largely unexplored trend on the Roaring River Property.

5.1 PROPERTY GEOLOGY

A geological map of the area of the Roaring River Complex was completed by Stern and Hanson as part of their petrogenetic study of the associated phases. Recent work by Berland Resources Ltd. has further enhanced the understanding of the geology through reconnaissance traverses (2000, 2001 program) and grid geology mapping (2001 program).

The intrusive complex consists of post tectonic phases of pyroxenite-gabbro/diorite-granodiorite/monzonite which intrude a broad area of coarse grained, foliated to gneissic textured tonalitic to granodioritic phases. Near the intrusive contact with the complex, compositional banding and foliations are steeply dipping and most prominent. Sharp contacts between the intrusion and the gneissic country rocks were observed in outcrop exposures along the highway, to the west of the grid. Dykes of intrusive phases extend well into the country rock in this area.

As mapped by Stern and Hanson, traverses completed during this 2001 program confirmed the presence of predominantly granodiorite and biotite granite phases both to the east of the grid and in the northern area of the property. The main body of the complex and most of the property was previously mapped as the defining sanukitoid suite of diorite-monzonite-qtz monzodiorite, with a central 3 x 1.5 km "inclusion" of gabbro and pyroxenite. Mapping during 2001 has confirmed the presence of these rock types, however, their extent is uncertain due to poor exposure and broad areas of diabase which locally mantle intrusive phases in the central part of the property.

A series of mesocratic to melanocratic (fgr-mgr) lamprophyre dykes (cm to m scale) cut all other rocks of the complex. Stern observed these dykes crosscut by granodiorite and also as resorbed, rounded fragments within biotite granite. The temporal relationships between these phases indicate co-mingling of magmas. The dykes are kerstanitic (pl-bio-cpx) to spessartitic (pl-hbl-cpx+/-bio) in composition and are similar, and possibly related, to large masses of meladiorite to gabbro which intrude the sanukitoid phases in the northern area of the property and/or the central gabbro body. The latter phase and its variants are the dominant rock type of the grid area.

In the study by Stern and Hanson, data from analyses of the different phases show a geochemically continuous trend for the diorite-monzonite rock series. All rocks of this type display unique chemical and REE trends when compared with the gabbro/lamprophyre series.

During the 2000 and 2001 programs, prospecting of the property (and the core of the complex) discovered a series of occurrences of anomalous PGEs associated with sulphide mineralized gabbro phases exposed in outcrop and angular float. These occurrences are referred to as the Mere, Leigh, Leigh North, and L102N, in the South grid area and L116N,L118N in the North Grid area. Grab samples from these occurrences returned up to 1098 ppb Pd, 675 ppb Pt and 155 ppb Au, at the

L118N occurrence. (McCrindle, 2000)

5.2 DEPOSIT TYPES

The primary focus of the exploration is to locate a gabbroic intrusive bearing a platinum group element (PGE) deposit and/or a layered gabbro with reef type mineralized layers.

6.0 2001 EXPLORATION PROGRAM

Phase 1a-Grid Geology/Soil Geochemistry

The phase 1a program involved the installation of a 38 kilometer grid, mostly at 200 meter line spacings cut in May and June 2001. The grid is orientated at an approximate azimuth of 25° to UTM North and covers a 1.0 km x 6.2 km area. Highway 811 bisects the grid and hence forth the grid is referred to as the North and South Grid areas. The baseline is offset by 400 meters between the two areas. An additional 8km of lines were added in July at 100 metre spacing in the southern part of the South grid, to establish better control in the area of the mineralized Leigh and Leigh South boulders.

Geological mapping and prospecting was conducted in June and early July along and between the grid lines. As well, reconnaissance traverses were being conducted by prospectors in off grid areas to the west, in the vicinity of aeromagnetic high features and to the north, to provide initial coverage of lake accessible claims. At outcrop and float exposures, magnetic susceptibility readings were taken with a KT-9 handheld unit, to help establish trends characteristic to unit types. Note that the information is more qualitative than quantitative, as readings will typically fluctuate with the smoothness of the surface tested.

During this phase, a total of 96 rocks were collected as grab samples and were analyzed by Accurassay Labs of Thunder Bay, Ontario. Gold, platinum and palladium were analyzed by fire assay-AA finish from a 30g split from the -150 mesh pulp of each sample. Reruns were completed by the lab for approximately every 1 in 10 samples The 32 element ICAP analysis was completed by a third party laboratory, Cavendish Labs, of Vancouver. Reruns were also completed for every 20th sample for the ICAP analysis. The 2001 sample locations are plotted on the sample location map in the pocket.

B horizon soil samples were also collected throughout the entire grid area. Soil samples from selected lines in the areas of known occurrences were analyzed for Pd, Pt, Au and 32 element ICAP. Two samples adjacent to each of the major exposures of mineralization at the Mere, Leigh and Leigh South were also sent for comparative analysis, to identify corresponding anomalous levels in soils. A total of 348 soil samples were analyzed by Accurassay Labs of Thunder Bay, Ontario.

Reconnaissance magnetic profiles were completed along six lines in the area of the Leigh and Leigh South exposures, for comparison with geology and soil results. Hand stripping of the Leigh and Mere showings was initiated and detailed sampling at 5 metre intervals was conducted in the area of the Mere occurrence and the Mere South outcrop where a preliminary grab sample returned an anomalous 0.5 gpT combined Au-Pt-Pd value.

Phase 1b-Grid Geophysics reported under separate cover

Summary of field work and personnel:

Phase 1a - prospecting, soil sampling and geological mapping

Mob to property: June 11, 2001 - Mick Stares, Cliff Hickman, (Stares Contracting)
- Janice Fingler, Bill McCrindle

Prospecting: June 12 to July 1, 2001 inclusive
- Mick Stares, Cliff Hickman

June 28 to July 6, 2001
- Steve Stares, Bob Stares

Soil sampling: June 12 to July 1, 2001 inclusive
- Cliff Hickman

Geological mapping: June 12 to July 4, 2001 inclusive
- Janice Fingler (J. Fingler Geological)

Demob of camp: July 7, 2001 - Steve Stares, Bob Stares, Mick Stares

Phase 1b - Geophysics - filed separately

Phase 2 - Trenching, washing, channel sampling and mapping trenches

Mob Camp, trenching supervision, washing, channel sampling:

August 22 to 30, 2001 - Steve Stares, Mick Stares (Stares Contracting)

August 25 to 30, 2001 - Clint Peacock (Peacock Mining)

Supply backhoe for trenching:

August 23 to 27 - Pierre Gagne Contracting Ltd.

Trench mapping, washing, channel sampling

September 15 to 28 - Janice Fingler (J. Fingler Geological)

September 17 to 27 - Cliff Hickman (Stares Contracting)

September 23 to 27 - Rob Lyght (Stares Contracting)

Data processing, map generation and report writing schedule.

Janice Fingler used the following days: July 6, 27; Aug. 30, 31; Sept. 13, 14; Oct. 2, 12, 15, 17, 22 - 25, 28 - 30
Nov. 4 days

Paul Degagne: Oct. 18 hours

6.1 VEGETATION AND OVERBURDEN

Where the highway bisects the north and south grid areas, there are large pits of glacial debris of sand/gravel with locally numerous and large erratics. Sandy areas are characterized by open stands of pine in both grid areas which straddle the road.

The south central grid area is dominated by stands of spruce+/- poplar, pine and balsam which grade into open deciduous parkland. The most prominent feature is a topographic high which culminates along L86N and L84N, to the west of the baseline. Outcrop exposures suggest this area is dominated by a diabase "plateau" which may thin at lower elevations to the west. In the south grid, the western, southern and parts of the eastern areas are dominated by wetlands and ponds characterized by open areas of immature spruce and/or pine with undergrowth of dense moss and labrador tea. True wetlands and large beaver ponds continue off the property to the south.

On the north grid, a sandy plain of glacial debris extends from the road to approximately L 112N and is characterized by open to dense stands of pine. From 112N to 118 N, open wetands and marsh areas dominate the grid along the flanks of northeast trending streams and the major NW-SE trending creek which meanders through the central grid near the baseline between lines L115N and L118N. Beyond the creek crossing, topography rises to the north, with a series of lobate moraines/drumlins of glacial debris +/- large erratics concentrated in two corridors to the west of the Baseline, and near the eastern limit of the eastern part of the grid. These areas are characterized by dense pine, with intervening topographic lows of parkland (+/- alders) and wetlands. Remnant fire stands are common in the north grid area.

Given the extensive veneer of glacial debris on the property, outcrop exposure is limited. Boulders of float vary from decimeter size to >3 x 5 metre size, as are found in the gully near BL96E 7700N and in the area of the creek crossing near BL100E 11500N. Boulders are most commonly subrounded; subangular boulders may be locally derived. In the south, the float is predominantly gneissic to tonalitic to granitic composition; in the north, the float is more granitic to monzonitic and gabbroic in composition. Diabase boulders are ubiquitous in both areas. The most prominent and most extensive outcrop exposures are of diabase in the north/south grid areas, monzonite in the eastern part of the north grid, and gabbro in the area of the Mere occurrence in the northern part of the south grid.

6.2 GRID GEOLOGY

The limited distribution of outcrop and angular float indicated that the grid area is underlain by the core of the Roaring River Intrusive Complex. Gneissic country rock is exposed along the highway to both the immediate east and west of the mapped area.

The complex is dominated by two main intrusive trends of mafic to ultramafic series of gabbros; one trend is magnetite rich while the other is weakly magnetic. The distribution of the magnetite rich gabbros is also inferred from elevated magnetic high responses obtained from airborne and ground surveys. These were confirmed by magnetic susceptibility testing of rock exposures with a handheld meter. The gabbro sequence appears to dominate the southern grid area, with the magnetite rich variants being more common to the north and west of the grid. The northeastern edge of the grid consists of monzonite to syenogabbro. This phase may represent the eastern flank of the complex, as mapped by Stern and Hanson (1989). Broad, irregular areas of diabase appear to mantle the gabbro phases in both the north and south grid areas. The distribution of these rock types is shown on the grid geology map. Sharp contacts were rarely observed and broad inferences (assisted by magnetic trends) were made in the definition of contacts.

A descriptive legend of the characteristic units for the grid area is presented on the grid geology map. Note that the numbering does not indicate relative ages of the units 1 to 7, as each represents distinctive textures and compositions of intrusive phases which display both mixing and crosscutting relationships. The observed evidence suggested that magmatic activity generating each unit was closely coeval and comagmatic.

The gabbroic phases (units 1-6) are common to the entire grid area, with the magnetite rich gabbros (units 4-6) dominant in the western and northern grid areas. The gabbroic rocks include leuco to melanogabbro, pyroxenite and magnetite bearing equivalents. The distribution of rock types is shown on the grid geology map, which displays contacts inferred from the occurrence of sporadic angular float and/or outcrop and local ground magnetic signatures. Note that some inferences are very broad as little exposure is present and the float may be transported and therefore may not reflect underlying rock types. The glacial direction of transport in this area would be from the North and North-northeast.

The two series of gabbro (units 1-3 and 4-6) appear to be mineralogically and texturally similar, consisting of clinopyroxene, hornblende and plagioclase. Biotite and Kfeldspar occur as minor components. Magnetite associated with units 4-6 occurs as fine interstitial grains and/or cm scale clots. Most gabbros are medium to coarse grained and equigranular, with local coarse grained to pegmatitic leucocratic (LC) and melanocratic (ML) variants. Subophitic textures were rarely observed; however, poikilitic textures of oikocrystic pyroxene (to 3cm grains) containing cumulus plagioclase are common to units 4 and 6, which include melanocratic gabbro phases of the complex. The rocks appear to have been subjected to upper greenschist facies metamorphism and weak to moderate uralitization of the pyroxenes to form secondary hornblende and the saussuritization of calcic plagioclase to form epidote, chlorite/actinolite, albite and calcite. Plagioclase appears progressively more turbid with increased alteration. This was confirmed by thin section study of gabbro phases from both the Leigh and Mere occurrences (P.C. LeCouteur, 2001). This mineral assemblage could develop in response to late stage deuteric alteration.

Potassium feldspar is less common to the gabbros, as fine interstitial salmon colored grains, or as fine grained masses which appear to flood the host gabbro. The latter type of K feldspar may be the result of pervasive potassic alteration affecting local areas (<1m diameter) of the gabbro, as is common to alkalic porphyry systems.

The exposures observed indicate that most of the gabbro units are massive, with local development of intrusive breccias and layering in the Mere area and the North Grid area. The breccias are highly variable in terms of fragment/matrix types, but consist mostly of fragments of equigranular leuco-mesogabbro (MS) phases within a melanogabbro to pyroxenite matrix. Coarse grained to pegmatitic leucogabbro phases often postdate other gabbro phases and occur as matrix to breccias, irregular pods and/or crosscutting dykes. Mixing textures are also common between all phases of Units 1-7.

Layering is locally recognized at the Mere and L116N occurrences, where modal pyroxene/hornblende rich layers occur on a centimeter scale. Layers are typically discontinuous and steeply dipping, and are difficult to discriminate from dykes related to the various phases.

6.2.1 UNITS 1-3 Non to Weakly Magnetic Gabbro/Pyroxenite

The units 1-3 represent a series of non to weakly magnetic gabbros which range from leucogabbro (unit 1) to mixed MLgabbro and LC/MSgabbro (unit 2), to MLgabbro and pyroxenite (unit 3). These phases occur as outcrop exposures in the Mere area of the South Grid and as sparse boulders of subangular to angular float; defined limits of the units are therefore tenuous. Rare outcrop and float exposures of units 2 and 3 in the North grid area suggest that narrow "remnants" of these phases persist to the north, where they are flanked by predominantly magnetite-rich gabbro phases.

The highest density of outcrop exposed on the grid is in the vicinity of the Mere showing, near the baseline BL96E and L100N, and continuing grid south towards L94N. This area is underlain by unit 2, of a mixed to brecciated zone of leuco to mesogabbro in a matrix of melanogabbro. The unit is commonly infiltrated by pods and dykes of coarse grained to pegmatitic leucogabbro which locally hosts disseminated sulphides. The gabbro phases are subsequently infiltrated by a quartz monzonite phase as dykes and matrix to agmatitic "jigsaw" breccias. Contacts between fragments and matrix in all breccia areas are sharp to resorbed or mixed, suggesting formation under subsolidus conditions. Similar to the variability of the phase types in the area of unit 2, magnetic susceptibilities are widely variable, from <5 to 80. Overall, the MS values reflect mostly low magnetite content, occuring as interstitial disseminations and local aggregates concentrated within the less voluminous cgr to pegmatitic leucocratic gabbro variants. The diversity of phases in this area suggested that the Mere area may represent an area of mixing between small batches of magma related to the gabbro and magnetite rich gabbro series, and the monzonite-granodiorite of the sanukitoid suite.

Limited float and minor outcrop exposures of unit 1 were found to the east and south of the Mere outcrop area dominated by unit 2. A single outcrop of unit 1 was also found on the north side of the highway, to the west of the grid. Unit 1 is characterized by a fine grained to medium grained leucogabbro/diorite. The phase is massive equigranular to locally mottled textured and is non to weakly magnetic. Magnetic susceptibilities are typically very low, in the order of <5, to 30 in the presence of trace disseminated pyrrhotite. This unit is not common and its extent is uncertain. It may be a finer grained equivalent to the leuco to mesogabbro which comprises the brecciated areas of unit 2. The fine to medium grained gabbros of units 1 and 2 appear mineralogically similar, comprised of dark green clinopyroxene and hornblende with interstitial grey-white plagioclase and rare biotite. Local K feldspar grains and masses within the phases may be an alteration effect or late stage overprint. Saussauritization of the plagioclase locally imparts a turbid to pale green tinge. This alteration mostly affects areas of unit 2.

Unit 3 is characterized by a phase of medium to coarse grained melanogabbro to pyroxenite exposed as mostly angular float and local outcrops. The exposures appear to be distributed within a corridor to the west of unit 2 which may persist to the north, as well. The unit displays some local textural variability from fine grained to pegmatitic variants, all of which are non to weakly magnetic. Magnetic susceptibilities are most commonly in the order of <10. The highest concentration of characteristic boulders are concentrated over a 100 metre area in the vicinity of L96N 9700E. This appears to be comprised of variably chloritic to actinolitic coarse pyroxene and hornblende grains intergrown with dark grey feldspars and biotite. Very low magnetic susceptibilities of <1 are common.

A small, isolated exposure of angular float located near the eastern end of L74N is unique to the grid area. It is a strongly serpentinized boulder of a former pyroxenitic phase. No sulphides are associated and the boulder is non magnetic, although such intense alteration could result in magnetite destruction. Similar boulders were not found, possibly due to the soft and friable nature of the component alteration products.

The angular boulders near the western limit of the grid between L92N and L94N are coarse grained to pegmatitic melanogabbro to pyroxenite in composition. Although these boulders are similar to unit 3, they are consistently strongly magnetic (MS 75-100+) and may be transported boulders shed from a sliver of unit 4, to the west. This unit is not depicted on the map in this area, but may represent a discrete horizon on the western flank of unit 6 (See below). Underlying ground magnetic signatures indicate a weaker response than the boulders, suggesting the float is not from an insitu source.

6.2.2 UNITS 4-6 Strongly Magnetic Gabbro/Pyroxenite

The units 4-6 represent a series of moderately to strongly magnetic gabbros which range from a pegmatitic leucogabbro (unit 6) to a mgr-cgr leuco to mesogabbro (unit 5), to a coarse grained MLgabbro and pyroxenite (unit 4). These phases occur as outcrop exposures as minor component phases in the area of the Mere and L102N showings, and as subcrop and angular float in the areas of the Leigh, Leigh South, Leigh North, L116N and L118N showings. The strong airborne and ground magnetic response appears to effectively define the extent of these units. However, the southern trend on the geology map extends beyond magnetic trends to demonstrate the broad extent of float. Deeper overburden in this area could, in part, mask some of the characteristic response but the boulder distribution is also consistent with a glacial dispersal train from a source to the North or North-northeast.

The North grid is an area of elevated airborne and ground magnetic signatures, which may reflect the predominance of magnetite-rich gabbros (unit 5) underlying the area. Outcrop exposures of magnetite gabbro are common in the Northeastern limit of the grid, where the phase is brecciated and locally mixed with flanking monzonitic to syenogabbroic phases. The central area of the north grid is dominated by large angular blocks (>3 x 5 metres) of unit 5, which may represent an insitu source. Unit 5 is a medium to coarse grained leuco-mesogabbro with local melanogabbro/pegmatite layers, pods, dykes. In the north central grid area, textural relationships between the phases are complex and discontinuous planar layering on a cm scale is disrupted by pods and dykes of pegmatitic leucogabbro (unit 6). In the NE grid area, Unit 5 is massive equigranular and locally mixed with and/or is cut by dykes of monzonite to syenogabbro (unit 7).

Near the western limit of both the north and south grid areas are outcrop and float exposures of Unit 6. This phase is comprised of coarse grained pegmatitic leuco-mesogabbro which locally brecciates, crosscuts and mixes with coarse grained melano-mesogabbro phases of Unit 4, and non magnetite bearing Units 1-3 (Mere Showing). Widespread magnetite occurs as both interstitial clots and disseminations. This gabbro most commonly occurs as angular float, of which there is a broad fan in the South grid area, in the vicinity of the Leigh, Leigh South, Leigh North Showings. Sporadic outcrop exposures located towards the north are coincident with airborne and ground magnetic signatures which define the extent of the unit along the western grid area . Petrographic study of samples collected from the Leigh and Mere Showings indicated the unit to be comprised of hornblende, pyroxene and grey calcic plagioclase which is moderately to strongly saussauritized to yield epidote, chlorite and calcite. This imparts a turbid appearance on the plagioclase, while weak hematization locally imparts a pinkish tinge.

Unit 4 is exposed as small clusters of angular boulders and local dykes which define small "pods" marginal to the magnetite rich phases of units 5 and 6. The pods are located on the North grid at BL100E between L112N to L114N and on the South grid at 9100-9200E between L92N to L94N. The boulders of the Leigh North, Leigh and Leigh South are also comprised of remnants of unit 4 which appears to have been infiltrated by the coarse grained pegmatitic leucogabbro phase (unit 6). The unit 4 gabbro consists of green mafics of amphiboles, pyroxenes with dark grey plagioclase, local pink K feldspar (or hematitized plagioclase?), and minor biotite. Coarse poikilitic grains of mafics are common. The gabbro is mostly massive equigranular textured, and displays some ophitic to subophitic textures. The massive nature of the unit is also locally disrupted by the infilitration/brecciation by unit 6 and/or flooded by K feldspar, as in the boulders of the Leigh Showings. Magnetite is ubiquitous as interstitial clots and magnetic susceptibilities are in the order of 30 to >100.

6.2.3 UNIT 7 Monzonite to Syenogabbro

The diorite-monzonite-quartz monzodiorite (sanukitoid) series which, according to Stern and Hanson, comprises most of the Roaring River Complex, is mostly exposed in the northeastern part of the grid area. At the eastern limit (104E to 105E) of L122N and L124N, there are large linear (NE trending) outcrop exposures of coarse grained to pegmatitic meso/melanocratic syenogabbro to granodiorite. The phase consists of green to black mafics (cpx and hbl) with interstitial pink to grey potassium feldspar +/- buff plagioclase and quartz. Potassium feldspar is also locally concentrated in irregular cm scale patches. A local green tinge on the grains of feldspar is due to moderate to strong alteration producing epidote. Epidote also occurs on late fracture surfaces with disseminated pyrite.

The phases are typically moderately magnetic due to the presence of magnetite as both clots and interstitial disseminations, and may be related to the strongly magnetic unit 5, which flanks unit 7, to the west. In the easternmost limits of L126N, L128N and L130N, there are several large, linear outcrops of unit 5 which is brecciated and cut by monzonitic dykes of unit 7. The dykes and veins cutting the leucogabbro (unit 5) are typically medium to coarse grained (quartz) monzonitic to granodioritic in composition, and are emplaced along AZ025 to AZ000 trends. The sporadic occurrence of K feldspar as an interstitial component to the leucocratic gabbro in this area suggests that the phases of units 5 and 7 may be part of a related magmatic series, as well. The potassium feldspar could alternatively be part of a late overprint imposed on the gabbroic sequence.

In the area of the L118N occurrence in the western area of the North grid, subangular boulders of breccia consist of medium to coarse grained melanogabbro/pyroxenite fragments (unit 3) within a pink medium grained granitic matrix.

Although there are no extensive outcrop exposures of unit 7 in the south grid area, local (quartz) monzonite dykes and veinlets commonly cut units 2 and 3 at the Mere and L102N showings. In these areas, the monzonite phase appears to both mix with and brecciate closely coeval gabbroic phases which become the breccia fragments.

6.2.4 UNIT 8 Diabase

Diabase is exposed in both the North and South Grid areas, as large outcrops and angular float concentrated in the western side of the grid. The unit is mostly fine grained to medium grained equigranular and becomes coarser grained to the north. Diabase is typically dark grey-brown on both the weathered and fresh surface, and has a pale brown streak on the weathered surface when scraped with a hammer.

The unit is non to weakly magnetic and displays low magnetic susceptibilities (MS) in the <5 to 10 range; however, in the north, a coarser grained equivalent is moderately magnetic. This unit can be difficult to distinguish from fine grained meso-melanogabbro phases.

In the south grid area, the distribution of diabase is coincident with topographic high, suggesting that the unit is mantling gabbroic phases of the complex. At L94N 9400E, an exposure of meso to melanogabbro in contact with, and the overlying diabase was found. Reconnaissance magnetic profiles completed in the area of non magnetic diabase exposures along L86N, L84N displayed increasing magnetic response to the west, with no corresponding increase in rock magnetism. This response suggested that the diabase in this area may be a thin veneer thinning to the west and overlying a magnetite- rich gabbro.

6.3 MINERALIZATION and ROCK GEOCHEMISTRY

The 2000 prospecting program located the Mere, Leigh, Leigh North, L116N and L118N occurrences. During this program, areas of elevated sulphides were also found at the Leigh South, L102N, Mere South occurrences and associated with angular boulders of units 4 and 6 in both the North and South grid areas. The Mere and the L102N showings are exposed in outcrop.

Mineralization associated with all phases of the complex include sporadic finely disseminated pyrite +/- pyrrhotite. Concentrations of sulphides of 0.5 to 3% occur locally in irregular, podiform bodies hosted predominantly by magnetite rich gabbros (units 4,5,6) and by gabbros (units 2,3) in close proximity to oxide bearing phases. The occurrences appear to be distributed in areas marginal to the oxide gabbro phases which also flank the edge of unit 3 (cgr melanogabbro to pyroxenite).

The sulphides consist of fine grained disseminated to coarse blebby pyrite, pyrrhotite +/- pentlandite and chalcopyrite. The sulphides occur mostly within or flanking pyroxene and hornblende grains or as interstitial clots; their habit suggests a magmatic origin. Chalcopyrite locally forms rims around pyrrhotite and/or pentlandite. In outcrop exposures, the oxidized sulphides are apparent as fine (<0.5cm) rusty spots or "burns". Thin section study (P. LeCouteur, 2001) of mineralized samples from the Mere and Leigh showings reported sulphides both as individual grains and as coarser, composite aggregates. The mineralization in these areas consists of blebs of pyrite, chalcopyrite and pyrrhotite, with more numerous minute specks. The sulphides were interpreted as being magmatic in origin, with the finer grained sulphides possibly derived from remobilization during the late stage deuteric alteration affecting plagioclase. Although PGE values are associated with sulphides at both the Mere and Leigh occurrences, the samples for thin sections were too sparsely mineralized to determine the nature of the occurrence of the PGE bearing minerals in these settings.

During the phase 1a (the mapping and prospecting) program, a total of 96 rock samples were collected as grab and composite grab samples from the various phases of the complex, of both sulphide and non sulphide bearing types. Appendix 1 presents the more significant analytical results which are discussed in the context of each occurrence, below. Nineteen samples were collected from the North grid area, including 4 from the L116N showing. Seventy four samples were collected from the South grid area, including 29 from detailed sampling in the Mere area, 12 from the Leigh-Leigh South area, and 33 from various exposures on the South grid. Two samples were collected off the grid, in the area of the L102N (projected) showing, located south the highway to the northwest of the Mere occurrence. Assay certificates for each rock sample are included in Appendix II.

A total of 19 samples returned anomalous PGE, gold, copper and/or nickel results, as shown in Appendix I. Of these samples, 14 returned anomalous combined palladium, platinum and gold analyses ranging from 79 to 1097 ppb. The highest value of 1097 ppb, from sample 500101 of the Leigh occurrence, includes 904 ppb Pd and 135 ppb Pt. Anomalous PGE values are most commonly (but not consistently) associated with the presence of chalcopyrite, as evidenced by elevated copper values to 1760 ppm, for samples collected in the Leigh, L102N, and the Mere areas. Elevated nickel values from 200 to 1503 ppm are also associated with these occurrences, indicating the presence of pentlandite. Ratios of Cu:Ni, Cu:Pd, Ni:Pd are erratic, although copper values most commonly exceed those of nickel in PGE mineralized samples.

Elevated copper values and higher abundances of chalcopyrite were also associated with mineralized boulders of the L116N showing, gabbroic phases near the Northeastern contact zone with monzonite, and gabbroic phases of the south central grid area. Weakly elevated Nickel values were also returned from these samples; however, no anomalous PGE results were obtained. An elevated nickel value of 537 ppm with no anomalous copper nor PGE values was uniquely obtained from a grab sample of a strongly serpentinized boulder located approximately 400 metres southwest of the Leigh occurrence . No visible sulphides were reported in this sample.

Samples collected in the area of the Leigh showings, near the west end of L94 and L78, those in the NE grid area, and a single sample in the central South grid area are unique in displaying anomalous values in potassium, titanium and vanadium. Elevated potassium values are mostly in the range from >0.10% to 0.25%, to a high of 0.60%, for sample 500102, at the Leigh showing. Higher values of up to 0.44% and 0.51% were returned from samples in the NE grid and central South grid areas, respectively. The most consistently higher potassium values were associated with samples of gabbro phases in the northeastern grid area, the Leigh showing, and western area of the grid. This appears to reflect the observed presence of K feldspar +/- biotite as primary or alteration components of the rock types underlying these areas.

Elevated values of titanium ranging from >0.10% to 0.24% are associated with local samples within the above areas of elevated potassium. The highest titanium values are associated with the monzonitic phases of the northeastern grid area. Sporadic values of elevated vanadium ranging from

>100 to 339 ppm are associated with samples of elevated titanium in the northeastern grid area, the western limit of south grid area, and in the south central grid. The highest value of 339 ppm is from a sample in the central south grid area, and is coincident with a high potassium value of 0.51% and elevated titanium of 0.13%. The most consistent areas of elevated potassium, titanium and vanadium are in the areas of gabbro units 4, 6 in the south grid area and the monzodiorite to syenogabbro unit 7 of the northeastern grid area. The geochemical correlation suggests these units may be petrogenetically related.

6.3.1 Mere Showing

The Mere showing was originally found by the Stares prospecting team during reconnaissance traverses conducted in the fall of 2000 and was confirmed by additional sampling by Lewis in December 2000. Mineralized samples returned up to 739 ppb Pd, 231ppb Pt, 131 ppb Au with 1249 ppm Ni and 3159 ppm Cu. During this program, the showing was reexamined and detailed sampling of surrounding outcrop exposures was conducted.

The Mere occurrence is a 3 x 5 metre outcrop mound within a broad area of outcrop exposure between 99N and 101N, to the immediate east of Baseline 96E. The occurrence is centered at 9610E 9950N. The area is underlain mostly by Unit 2, of mixed and brecciated mgr-cgr leuco to mesogabbro within a matrix of melanogabbro. Areas of breccias are mostly monolithic and are comprised of subangular clasts which are 10 to 40 centimeters in size. Local diffuse margins suggest the fragments have been partially resorbed. The melanogabbro phase is mostly coarse grained to pegmatitic and is poikilitic. Local clots and interstitial grains of K feldspar and disseminated biotite are common to this unit. The unit also locally occurs as centimeter to decimeter scale layers or dykes which are discontinuous and steeply dipping.

The gabbros are locally infiltrated by pods and dykes of a coarse grained to pegmatitic phase of leucogabbro. This phase also appears to mix and blend with other phases in the area. All of the gabbros display late mixing with, and are brecciated by a quartz monzonitic phase which forms agmatitic breccias to the south of the Mere showing. Magnetic susceptibilities of the units in this area vary widely, from <5 to >100, suggesting the magnetite distribution may also reflect the high level of mixing of phases observed in this area.

The showing consists of a 3 x 2 metre area of 2-3% pyrrhotite (and pentlandite), chalcopyrite, and pyrite occurring as interstitial blebs and clots up to 0.3 centimetre in size. The sulphides are concentrated within a pod of pegmatitic leucogabbro which displays weak epidote alteration of feldspars, introduced K feldspar grains, and weak chlorite/actinolite development. Local strong magnetite occurs as coarse clots interstitial to the mafics.

During this program, 29 grab samples were collected in the area of the Mere showing, including 18 in the southern part of the outcrop and 9 in the northern part of the outcrop. An initial grab sample 01RRJF05 collected to the south of the showing, at 9598E 9898N returned an anomalous combined PGE and gold result of 416 ppb. This result included 225 ppb Pd, 143 ppb Pt and 48 ppb Au, with 315 ppb Cu. The sample is characterized by local MLgabbro phase with 10-15% leucogabbro +/- epidote and local chalcopyrite "burns" on the weathered surface. Detailed sampling at approximate 5 meter intervals in the area of this sample returned weakly anomalous results to 78 ppb Pd and 119 ppb Pt, with platinum values usually exceeding palladium values. Low copper and nickel results suggests that few sulphides are present in this area.

Nine grab samples collected to the immediate north of the Mere showing returned lower results than those of the south, except for sample 500111, which was collected from a stripped outcrop face 1-2 meters opposite the original Mere mineralization. This sample returned an anomalous combined PGE and gold result of 439 ppb, which included 286 ppb Pd, 118 ppb Pt and 35 ppb Au. The sample is characterized by cgr melanogabbro with grey-pink K feldspar, altered green mafics, and trace magnetite. Sulphides are coarse clots and blebs of up to 2% pyrite, pyrrhotite and 1% chalcopyrite, mostly intergrown with mafic minerals.

6.3.2 L102N Showing

The L102N showing was located during this program, along a traverse conducted to the west of the south grid area, to follow up on the aeromagnetic high in this area and prospective phase found to the south of the highway. The site appears to be close to a projection of the grid line 102N, near the inferred contact between gabbro Units 3 and 6.

The sample 500030 was described as an outcrop occurrence of melanogabbro to pyroxenite, with rusty pods with up to 0.5% pyrite. It returned a highly anomalous combined PGE and gold result of 934 ppb, including 654 ppb Pd, 187 ppb Pt and 93 ppb Au, with 965 ppm Cu and 448 ppm Ni. The copper and nickel values indicate that higher proportions of chalcopyrite, pentlandite +/- pyrrhotite characterize the mineralization, than was originally observed.

6.3.3 Leigh Showing

The Leigh showing was originally found by the Stares prospecting team during reconnaissance traverses conducted in the fall of 2000. Mineralized samples returned up to 1052 ppb Pd, 134 ppb Pt, 44 ppb Au, with 2067 ppm Ni and 1920 ppm Cu. During this program, the showing was reexamined and additional samples were collected in the area.

The original showing consists of a subangular boulders (0.7-2 meters) centered at 9670E 7785N and scattered over a 25 meter area. Samples 500101, 500102 were collected from angular boulders of coarse grained to pegmatitic leucogabbro (Unit 6) with pink Kfeldspar grains and flooding, interstitial biotite, and local clots of magnetite. Well developed ophitic to subophitic textures were observed, as well as centimeter sized remnant clots of strongly actinolitic melanogabbro to pyroxenite (Unit 4). Feldspars appear to be variably epidotized, as well. Mineralization is recognized as rusty "burns" on surface, consisting of 2-3% cgr aggregates of pyrite, pyrrhotite, pentlandite and chalcopyrite occurring as blebs and clots concentrated within and marginal to mafic minerals. Chalcopyrite locally rims pyrrhotite grains.

The analytical results for the two samples collected confirmed the previous anomalous results obtained from original sampling. Sample 500101 returned a combined PGE and gold result of 1097 ppb, consisting of 904 ppb Pd, 135 ppb Pt and 58 ppb Au, with 1803 ppm Cu and 1503 ppm Ni. Sample 500102 returned a combined result of 416 ppb, including 311 ppb Pd, 63 ppb Pt, 42 ppb Au, with 673 ppm Cu and 616 ppm Ni. Both of these samples returned elevated potassium values of

0.36% and 0.60%, reflecting the noted presence of K feldspar +/- biotite alteration products.

To test the provenance of the Leigh boulders, a reconnaissance magnetometer profile was conducted along L78N. The mineralized boulders which comprise the Leigh showing all display strong magnetite content, however, this was not reflected in the ground magnetic profile. It is therefore possible that the mineralized Leigh boulders may have been shed from a source to the north or northwest, where there is a magnetic high to the west of the South grid.

6.3.4 Leigh North Showing

The Leigh North showing was originally found by the Stares prospecting team in the fall of 2000. It was originally reported as a large outcrop or large boulder located approximately 125 metres north of the Leigh showing. The original sampling (#234925) returned an anomalous combined PGE plus gold value of 706, including 460ppb Pd, 211 ppb Pt and 35 ppb Au. Additional samples collected during a field visit by a geologist of North American Palladium reported values of elevated values of 1.18 gpT Pd, 0.46 gpT Pt and 0.05 gpT Au, with elevated copper of 0.094% Cu and 0.155% Ni.

The exposure is well mineralized with sulphides and may reflect a similar source as the Leigh boulders. This occurrence was reexamined, however, no additional samples were collected from this exposure.

The occurrence consists of a large >3 x 5 metre angular block (or outcrop?) of mgr to cgr meso to melanogabbro (Unit 4) infiltrated by local metre scale pods of pegmatitic leucogabbro (Unit 6). The melanogabbro is coarsely poikilitic with dark grey feldspars and magnetite clots. Up to 2% clots and disseminations of pyrite, pyrrhotite and chalcopyrite are concentrated mostly within a 1x 0.5 metre pod of leucogabbro along the edge of the exposure.

The gabbro phases observed at the Leigh North occurrence are strongly magnetic and are therefore inconsistent with underlying weak ground magnetic signatures. The exposure could be a block transported from a source to the North, similar to the Leigh boulders. A broad gully to the west of the baseline, in the area of L78N, contains several transported blocks of various phases. This suggests that displacement of a large boulder such as at the Leigh North occurrence, was a possibility.

6.3.5 Leigh South Showing

The Leigh South showing was found while prospecting the grid during this program. The occurrence appears similar to the Leigh showing, consisting of scattered boulders of mixed gabbros of units 4 and 6. The subangular boulders are 0.3 to 1.5m in size and are centered at L7200N, 9425E. The boulders are comprised mostly of medium grained to coarse grained ML gabbro to pyroxenite which is flooded by coarse grained to pegmatitic MS/LC gabbro. Remnant pyroxenitic clots are commonly strongly altered to actinolite. Local granodioritic clots were observed, as are K feldspar flooding and interstitial biotite Magnetite clots are common; the gabbro phases mostly display high magnetic susceptibility values in the order of 80-180.

Four samples (500104, 500024-26) were collected from boulders in the Leigh South area. The samples varied from MLgabbro-pyroxenite (500104) to MLgabbro infiltrated by pegmatitic LCgabbro (500024, 500025), to pegmatitic LCgabbro (500026). Significant results were only associated with sulphide mineralized samples 500025 and 500026, collected from subangular boulders less than 1 metre in size.

Sample 500025 hosted up to 5-7% sulphides as clots and disseminations of pyrrhotite, pentlandite and chalcopyrite, concentrated in the leucogabbro phase. No significant PGE results were obtained from this sample, which returned 301ppm Cu and 192 ppm Ni. These low results suggest that the sulphides present may have been predominantly pyrrhotite and pyrite.

Sample 500026 hosted up to 2% sulphides as up to 1cm clots of pyrrhotite, pentlandite and chalcopyrite, as well as finer grained disseminations. The sulphides were concentrated in the cgr to pegmatitic leucogabbro with epidotized feldspars and remnant clots of actinolite (altered pyroxenite). A weakly anomalous combined PGE and gold result of 168 ppm for this sample, with elevated copper and nickel values of 1394 ppm and 1091 ppm, respectively.

6.3.6 L116N Showing

The L116N showing was originally found by the Stares prospecting team during reconnaissance traverses conducted in the fall of 2000. Mineralized samples returned weakly anomalous combined PGE and gold values of 275 ppm, including 93 ppm Pd, 132 ppb Pt, 50 ppb Au with 1183 ppm Cu and 1076 ppm Ni. During this program, the showing was reexamined and additional samples were collected in the area.

The showing consists of large (>3m) angular blocks of layered LC/MS gabbro/diorite which are concentrated near the edge of the creek at approximately 9700E 11500N. The area is accessed by crossing the creek along L116N. The host leuco-mesogabbro phase (Unit 5) also contains up to decimeter scale layers of melanogabbro which are locally disrupted by dykes and pods of pegmatitic leucogabbro. Unit 5 is strongly magnetic, due to the presence of disseminated sulphides. The coincidence of a ground magnetic high with these boulders suggests that they may be insitu. Local coarse grained sulphides of pyrite, pyrrhotite, and chalcopyrite are recognized on the weathered surface as "burns" concentrated within the pegmatitic phase.

Three samples were collected from variably mineralized boulders at this occurrence: 500106, 500161 and 500162. No significant results were obtained from samples 500106 and 500162, which had lower proportions of chalcopyrite visible than in sample 500161. The latter sample returned anomalous copper and nickel values of 1165 ppm and 230 nickel; however, no significant PGE values were obtained.

6.3.7 L118N Showing

The L118N showing was originally found by the Stares prospecting team during reconnaissance traverses conducted in the fall of 2000. A mineralized sample #559819 returned the highest combined PGE and gold value on the property, of 1928 ppm, including 1098 ppm Pd, 675 ppb Pt, 155 ppb Au with 701 ppm Cu and 204 ppm Ni. Resampling (# 5599905) by Lewis in October 2000 confirmed this result. During this program, the showing was reexamined.

The occurrence is in an area of extensive NW trending drumlinoid mounds with diverse subrounded boulders of erratics. The showing consists of a cluster of subangular boulders (to 0.7m size) of a breccia of MLgabbro to pyroxenite clasts (Unit 3) in a matrix of monzogranite. Unit 3 is non magnetic and displays weak actinolite development. Up to 2% vfgr chalcopyrite and pyrrhotite, pyrite are disseminated in both the clasts and matrix.

7.0 SOIL GEOCHEMISTRY

During phase 1a exploration, B horizon soil samples were collected throughout the grid area, at 25 meter stations along the cut lines and along a selected portion of the South grid Baseline 96E. A field duplicate sample was also collected every 10th sample site, for future check analyses, to test for site reproducibility. Of the total grid samples collected, an initial 348 grid samples were analyzed to provide orientation studies in areas of known mineralization. These samples were collected along L72N to L80N, within the corridor of the mineralized Leigh boulders; along L98N and L100N and BL96E in the area of the Mere showing; and along L120N, L122N and L128N, to the north of the mineralized boulders of the North grid. The samples were analyzed for palladium, platinum and gold by Accurassay Labs, with 32 element ICAP analyses completed by Cavendish Labs (third party). The results are presented in Appendix III. Note that there are some large discrepancies for Pd and Pt values between original sample results and laboratory duplicates. It is therefore suggested that pulps should be checked with analyses at an alternate laboratory. Caution should be exercised in applying current results to exploration strategies, until a comparison is available and confidence in the results is well established.

B horizon soils in the area of the grid are generally well developed, except where limited by wet marsh in the central part of the North grid and the southwestern part of the South grid. Thick and extensive deposits of sandy glacial debris are common to the area flanking the highway and in both the extreme northern and southern limits of the grid. Soils in these areas were sandy and poorly developed as well.

In addition to the sampling along grid lines, a series of two soil samples were collected immediately above and/or adjacent to sites of known PGE and sulphide mineralization at the Mere (Mere 1, 2), Leigh (L1, 2), and Leigh South (Meg 1,2) occurrences. The strongest response was obtained from soil samples at the Leigh showing, which returned elevated palladium results of 23 and 26 ppb associated with elevated copper results of 31 and 50 ppm, respectively. Higher copper values of 66 and 93 ppm copper were returned from samples at the Mere showing, however, no significant PGE values were obtained. Common to all three of the showings sampled, are elevated nickel values ranging from 87 to 104 ppm. B-horizon soil values maps for Pt, Pd and Cu are in a pocket.

Soil results for both platinum (Pt) and palladium (Pd) mostly identify local point highs ranging from above detection levels of >15 and >10 ppb, respectively, up to 35 and 26 ppb. Local areas with multi-station anomalies for each element were identified in both the north and south grid areas. No coincidence between Pt and Pd results is apparent at either the single or multi-point anomaly sites and few samples exceeded the detections limits of 15 and 10 ppb.

Multi-point anomalies for Pd are located in the easternmost part of the gridlines along L72N and L128N. In the South grid area, along L72N, five samples over a 175 meter area (9900E-10075E) returned anomalous values ranging from 12-24 ppb. One sample in this area also returned a high copper value of 53 ppm. In this area, there is no outcrop and a thick sandy till mantles the area. In the North grid area, along L128N, four samples over a 100 meter area (10175E-10275E) returned anomalous Pd values of 10-24 ppb. The easternmost sample returned a high value of 124 ppm nickel. Elevated single point anomalies to 42 ppb are found along the Baseline BL96E, to the immediate south of the highway (10025N, 10125N), and near the Mere occurrence, at BL96E 9900N. A weak multi-point Pt anomaly is located in the easternmost part of gridline L74N, 200 metres to the north of a broad Pd anomaly. Along this line, 5 samples over 100 metres (9975N-10075N) returned values just above the background of 15ppb Pt.

The soil values for gold are mostly less than the detection limit and do not display any correlation with PGE results. The most significant results are a single point anomaly of 189 ppb, from a site at L76N 9950E, and a multi-point anomaly along L72N, over 325 metres (9450E-9775E). Eleven samples in this interval returned gold values greater than background, to a high of 28 ppb. There is no outcrop exposed in either area of the anomalies.

Copper in soil results identify mostly single to two-point anomalies, some of which are coincident with broader corridors of multi-point nickel anomalies. No coincidence with elevated PGE values is apparent, except in the area south of the highway, along BL96E. Soil sites at 10025N and 10050N returned elevated copper values of 51 and 38 ppm with anomalous nickel values greater than 100 ppm. Two samples in this area also returned elevated Pt values to 42 ppb. In the area of the Mere showing along BL96N, and along L78N and L80N of the South grid (east of the Baseline), isolated copper values of 58-62 ppm occur within broad nickel in soil anomalies ranging from 75-146 ppm. Within these anomalous areas, local elevated percentages of iron to 3.68, were obtained from samples at L78N 9650E and 9725E. Sulphides and/or their oxidized equivalents may be present at these sites.

Nickel in soil results suggest that background levels are higher in the North grid, than in the south. This discrepancy may either be due to overburden cover, or due to lithological variability of the underlying gabbro phases. A thick veneer of glacial debris in the extreme south grid, in comparision with the north grid, could result in a more geochemically subdued response for soils in the south grid area. Alternatively, the presence of gabbro phases which are more prospective hosts to nickel mineralization may be present in the north.

Nickel in soil results exceeding 100 ppm are concentrated as a large multi-point anomaly in the area of the Mere showing. The extent of the anomaly is defined by >85 ppm nickel values along the BL96E (9100N-10125N) and along L98N (9325E-10000E) and along L100N (9150E->9750E). Local single point copper anomalies to 62 ppm occur within this broad area of elevated nickel. In the North grid, multi-point anomalies of up to 125 metres occur along L120N and L122N, near the eastern limit of the grid. Nickel values in this area also exceed 100 ppm, to a high of 134 ppm. Local elevated percentages of iron, to 3.52%, may reflect the presence of sulphides or oxidized products.

8.0 TRENCHING

During the phase 2 exploration program, excavator trenching in the South grid area was focused on the Mere, L102N, Leigh, Leigh North and Leigh South occurrences and sites of selected soil anomalies. The most extensive trenching was completed at the Mere showing to expose a broad central area of outcrop and sporadic outcrop in several "arms" of linear trenches extending out from the main occurrence. Outcrop was also well exposed in the area of the L102N occurrence, which is located to the west of the grid, along a projected extension of Line 102N.

Trenching in the area of mineralized boulders at the Leigh, Leigh North and Leigh South was less successful, as high water tables were encountered and bedrock was not located within 5 metres of surface. Five additional soil and/or rock sample anomalies were trenched in the vicinity of the Leigh and Leigh South showings; deep overburden was also encountered in these areas.

The trenched outcrop at the Mere and L102N occurrences consists of complex breccias and intermingling gabbro phases; such variability was not apparent in the original weathered exposures. A second legend, presented in Table 3, was developed to better express both the local textural and lithological variability observed on the scale of trenching. Note that the numbering does not indicate relative ages of units, as each represents distinctive textures and compositions of intrusive phases which display both mixing and crosscutting textures between each unit. Contacts between the units are often diffuse and irregular, as the emplacement of the phases appears to have been closely coeval during preconsolidation.

A total of 84 channel and 22 grab samples were collected at the trenched exposures. The distribution of the samples is shown in Table 2 below. Anomalous PGE results were associated with sulphide mineralization at the Mere and L102N occurrences.

TABLE 2:

Trenched Area	Channel Samples	Grab Samples
Mere	36	
Mere South	7	
Mere East	0	
Mere West	5	
L102N	36	7
Leigh North	0	15
Leigh	na-no bedrock	
Leigh South	na-no bedrock	
Pit 1: 9475E 7520N	na-no bedrock	
Pit 2: 9775E 7200N	na-no bedrock	
Pit 3: 9875E 7430N	na-no bedrock	
Pit 4: 9950E 7600N	na-no bedrock	
Pit 5: 9225E 7800N	na-no bedrock	

The Mere Main showing, the Mere Extensions and the L102N showing trench maps are included with this report in a map pocket.

ROARING RIVER PROPERTY

Trenching Program-September 2001 Table #3

LEGEND

**Numbering does not indicate relative ages of units as each represent distinctive textures and compositions of intrusive phases which display both mixing and crosscutting textures between each unit. Ie. Units/phases are closely coeval.

1a	Mgr, melano to mesogabbro phase locally crosscutting, brecciating/mixed with leucocratic phase. Rare pegmatitic pods present. Leucocratic clasts >> melanocratic clasts in brecciated areas.
1b	Cgr-pegmatitic variant of 1a; melanocratic phase is locally finer grained, as well. Mafic minerals in pegmatitic phase are up to 4cm in size. Kspar and biotite can be present in pegmatitic phase. ****Mere host to mineralization.**
1c	Mgr-fgr melanogabbro to pyroxenite.****L118N host to mineralization.**
1d	Cgr-pegmatitic leucocratic gabbro, locally Kspar flooded with interstitial mt clots; commonly mixed with other phases. ****Mere/Mere North, Leigh, and L116N host to mineralization.**
1e	Mgr-fgr leuco-mesocratic gabbro, equigranular to locally mottled textures
1f	Cgr-pegmatitic melanogabbro, coarsely poikilitic and strongly magnetic. Disseminated and clots of magnetite are common. Occurs as masses, pods and dykes. ****Leigh, Leigh North, L102N host to mineralization.**
2	Unit 1a (above) mixed with/brecciated by quartz monzonite to monzonite phases of units 3 (below). Locally forms monzo to syenogabbros in areas of mixing.
3	Quartz monzonitic to monzonitic phases as aplitic to pegmatitic dykes and pods which crosscut and brecciate most units.
3a	Monzogranite to qtz monzonite-buff colored
3b	Quartz monzonite-pink colored
3c	Monzonite-orange colored
4	Areas of fgr to aphanitic phases of equivalents to leucocratic (white) to mesocratic (dark grey) gabbro. Some layering present between these phases as well as turbulent and chaotic flow textures and soft sediment flow textures including ripups and flame structures of the dark grey phase in the white phase. Crosscut by and mixed with cgr to pegmatitic leucogabbro phase (1d). Leucogabbro in area is mixed with quartz monzonite phase. Local fgr-aphanitc mafic dykes (5) emanate from dark grey gabbro phase, crosscutting leucogabbro.
4a	dark grey aphanitic phase
4b	white aphanitic phase, locally mixed with leucogabbro (1d)
5	Mgr to fgr, aphanitic mafic dykes, masses. Appear to be crosscutting other units.

8.1 Mere Main/Mere North Showing

The Mere Main trenched area is centered on the PGE-sulphide mineralization originally discovered at 9608E 9945N. As the original exposure consisted of extensive outcrop, the trenching broadened and cleaned a central area of approximately 40 x 30 meters, with additional linear trenches (Mere Trench South, North, East, and West) extending out from the main trenched area. Additional sulphide mineralization (Mere North) was exposed, at 9627E 9961N, approximately 14 meters to the north of the Mere showing.

The central area of the Mere Main exposure is dominated by Units 1a and 1b, of medium to coarse grained, pegmatitic leuco–meso gabbro and melanogabbro, as equigranular masses and monolithic breccias. The predominant phase is a melanogabbro which is locally mixed with and/or brecciating more leucocratic to mesocratic variants. The cgr to pegmatitic MLgabbro of Unit 1b also occurs as irregular patches, veinlets and dykes which appear to infiltrate the LC/MS gabbro. Larger masses of unit 1b form the matrix to breccias with decimeter to meter scale clasts of LC/MS gabbro. Fragments are usually subangular, with sharp to diffuse boundaries which may be partially resorbed. Rare breccias of LCgabbro matrix with MLgabbro clasts suggest that the LCgabbro phase was locally partially consolidated at the time of the emplacement of the more mafic phase.

Less abundant is a fine grained to medium grained melanogabbro to pyroxenite phase (Unit 1c) which is concentrated in a 2 x 3 meter pod north of the Mere Main mineralization. The pod appears to be shallowly dipping at 30-40° to the grid west and appears to have been cut by a pegmatitic equivalent of Unit 1b MLgabbro. Unit 1d is a more abundant phase of coarse grained to pegmatitic leucogabbro which occurs as > meter scale masses to the northeast of the Mere Main mineralization, and in the area of the Mere North mineralization. It often forms pods and dykes of hybrid phases due to mixing with proximal gabbro phases (units 1b, 4a and 4b) and a cgr quartz monzonitic phase (unit 3b). The dykes of LC gabbro in this area are discontinuous and randomly oriented, locally coalescing to brecciate the Unit 4a, 4b gabbro phases. Inverse relationships between these units are also common in this area, and angular to cuspate clots of LC gabbro appear to be resorbed by unit 4b.

Units 4a and 4b are very fine grained to aphanitic equivalents of melano and leucogabbro phases. Unit 4a is strongly magnetic. No crystalline form is evident in outcrop exposures located to the immediate northeast of the original Mere showing. In this area, textures between Units 4a, 4b and Units 1d/3b are complex and crosscutting. The black aphanitic phase 4a occurs as a broad (>3m wide) northeastern trending horizon which locally envelops masses of the white aphanitic phase 4b. Narrow, north trending dykes emanating from this mass also crosscut areas of unit 4b and 1d. Unit 4b is more dominant in outcrop closer to the Mere showing, where it commonly brecciates and assimilates clots of pegmatitic LCgabbro (Unit 1d). Fine cm scale modal planar layering is developed within both Units 4a and 4b, but is discontinuous and extends for <1m in length. The layers are wispy and arcuate, reflecting a turbulent flow environment. Soft sediment deformational textures are common, with ripups and flame structures of the black Unit 4a in the white Unit 4b. Such features could develop due to density contrast between fractionated layers of the these units.

Unit 3 consists of quartz monzonitic to monzonitic phases occurring as aplitic to pegmatitic dykes and pods which crosscut and brecciate most units in the Mere area. A buff colored quartz

monzonite phase (unit 3a) is widespread as irregular masses mixed with pegmatitic LCgabbro (unit 1d) and dykes up to 10cm wide which crosscut other gabbro phases. The quartz monzonite phase commonly forms agmatitic "jigsaw" breccias where it infiltrated gabbro phase 1a, in the Mere South Trench and the Mere West Trench. These breccias are designated as a hybrid Unit 2. Pink monzonitic dykes (unit 3b) are transitional to quartz monzonite and are less common to the Mere area.
One of the latest intrusive episodes appears to have been the emplacement of aphanitic to medium grained mafic dykes and masses. These dykes appear to crosscut all other units. They are strongly magnetic and may be related to the aphanitic gabbro phase of Unit 4a. The dykes are 10-70 centimeter wide and trend northeasterly. This unit is most prominent in the outcrop of the Mere North mineralization, where two coalescing dykes crosscut a mass of cgr-pegmatitic LCgabbro. Intense northeast and northwest fracturing has effected both the LCgabbro and the mafic dykes in this area.

Sulphide mineralization is concentrated at the Mere and Mere North showings, as coarse clots and blebs of pyrite, chalcopyrite, pyrrhotite and pentlandite . Up to 1% sulphides are disseminated throughout a pod of cgr-pegmatitic meso to leucogabbro (Unit 1b, 1d) which contains strongly pervasive K feldspar +/- biotite patches with local interstitial actinolitic masses and magnetite clots. A total of 36 channel samples were collected at the Mere showing, including six samples at the Mere North exposure.

Anomalous combined PGE and gold values were obtained from three continuous channels of three metres total (59680 – 59682) across the original Mere showing and from two continuous channels of 2 meters total (59678, 59679) across the facing outcrop. The samples returned combined PGE plus gold values greater than 100 ppb, to a high of 515 ppb. The latter sample, 59680, included 361 ppb Pd, 88 ppb Pt and 66 ppb Au, with 1221ppm Cu and 418 ppm Ni.

Weakly anomalous values of 129 and 116 combined PGE plus gold values were also returned from three channel samples (60318, 60320, 60325) from pods of cgr-pegmatitic LC-MSgabbro (unit 1d) to the northeast of the Mere showing. Strong to pervasive K feldspar, biotite +/- epidote alteration is common to these sites. Up to 0.5% disseminated pyrite, pyrrhotite and chalcopyrite are recognized as scattered "burns" on the weathered surface.

At the Mere North showing, 3-5% cgr interstitial clots and stringers of pyrite, pyrrhotite, chalcopyrite and magnetite are disseminated within cgr to pegmatitic LCgabbro. This phase is variably K feldspar altered and locally coarsely biotitic. Minor interstitial pyrite with epidote rims is present. Several samples from this area are weakly anomalous in PGE plus gold content, to a high of 220 ppb, for sample 59671. This result included 106 ppb Pd, 49 ppb Pt, 65 ppb Au with elevated copper and nickel values of 2203 ppm and 1071 ppm, respectively.

8.2 Mere North Showing

The Mere North Trench consists of two linear segments which extend from approximately 10 meters beyond the Mere North showing, to 83 meters to the grid north-northeast. The closest tie in to the grid is L100N 9642E, located 10 meters along the trench. Outcrop is sporadically exposed within the trench. The southernmost 10 meters of the trench is underlain by Unit 1c, of mgr to fgr

MSgabbro to pyroxenite which is strongly magnetic. A very fine grained north trending mafic dyke cuts this unit and both have been intensely fractured along a north-northeast trend. In the central area of the trench, Unit 1c appears to grade into Unit 1a of mgr-fgr ML/MS gabbro with fgr biotite and local mafic porphyroblasts which impart a speckled appearance. This unit is moderately to strongly magnetic. The northern part of the trench is underlain by a non magnetic Unit 1e, of medium grained, equigranular to varitextured LC/MS gabbro. The unit hosts rare pegmatitic LCgabbro patches (Unit 1d) and is locally poikilitic.

No significant results were obtained from a total of six samples collected in the North trench and no sulphides were observed.

8.3 Mere South Showing

The Mere South Trench extends grid south from the Mere Main Trench at 9605E 9935N, to the start of the Mere East Trench at 9885N. The trench is underlain by Unit 1a, of medium grained, equigranular ML to MSgabbro with local LCgabbro masses and steeply dipping, crosscutting dykes of MLgabbro to pyroxenite. Towards the south, the gabbro is mixed with and brecciated by masses of buff colored quartz monzonite (Unit 3a). From north to south in the trench, the breccia is variable from minor subangular fragments of variable size within the qtz monzonitic matrix, into an agmatitic jigsaw breccia dominated by angular cuspate fragments. Sulphides were recognized as rare "burns" on the weathered surface of MLgabbro in this area.

No significant results were obtained from a total of seven channels sampled in the area of the Mere South Trench.

8.4 Mere East Showing

The Mere East Trench extends from BL96E 9885N to approximately 60 meters towards the grid east. The most extensive outcrop exposure is at the start of the trench, which is underlain by the agmatitic breccia of Units 1a and 3b. Outcrop exposures along the remainder of the trench are sporadic.

The trench is mostly underlain by medium to coarse grained equigranular MSgabbro (Unit 1b) with grey and pink feldspars. This phase appears to grade into syenogabbro (Unit 2) in the easternmost part of the trench. Low magnetite susceptibilities are characteristic of the gabbro phases. Local coarse grained to pegmatitic MS-LCgabbro pods and patches host trace epidote +/- pyrite.

No samples were collected from this trench.

8.5 Mere West Showing

The Mere West Trench extends from the Mere Main area, from BL96E 9949N, to approximately 60 meters towards the grid WSW. The most extensive outcrop exposure is at the start of the trench, which is underlain by a breccia of mgr MLgabbro fragments (Unit 1a) in a matrix of quartz monzonite (3b). The central part of the trench consists of mgr to cgr MS-MLgabbro which is variably biotitic and locally cut by irregular pegmatitic MSgabbro and pyroxenitic patches (1c) and dykes (5). Magnetic susceptibilities vary widely from <1 to 100, with the higher values associated with gabbro infiltrated by pegmatitic gabbro, in the central area of the trench. No sulphides were observed.

No significant PGE results were obtained from five channels sampled in this trench; however, elevated chromium results to 614ppm were obtained (sample 60326).

8.6 L102N Showing

The L102N area was selected for trenching on the basis of an anomalous rock sample (500030) which returned a combined PGE plus gold result of 934ppb, consisting of 654ppb Pd, 187ppb Pt and 93ppb Au with 965 ppm copper and 448 ppm nickel.

The trenched area is to the west of the grid, at a projected location of 9272E 10160N. A local grid was established over the 30 x 40 metre area, to provide control for detailed mapping. A baseline 1000N trends approximately EW from 0+00E to 0+45E. The main outcrop area is centered at BL10N 0+30E, with a linear trench extending to the west along to BL10N 0+00E. The area is underlain predominantly by Unit 1b, of mgr to cgr MS-ML gabbro and a fine grained variant, Unit 1a. In the main outcrop, unit 1b gabbro is locally cut by pegmatitic pods of strongly magnetic MLgabbro (1f?) which is equigranular to coarsely poikilitic. Mafic dykes of similar coarse grained gabbroic material also cut the southern outcrop area along north-south trends. Also common are pegmatitc pods of LCgabbro with interstitial Kfeldspar and epidote.

To the north, south and west, the gabbro phase is brecciated by irregular masses of quartz monzonite. To the east, the unit is cut by a large (5x10 m), irregular mass of vfgr gabbro (Unit 5) which envelopes rafts of the gabbro and resorbs sections of cgr-pegmatitic gabbro. Intrusive contacts appear to be sharp. The mafic dyke is cut by centimeter scale dykes of quart monzonite, which also coats several late fracture surfaces.

The only sulphides observed in the area of the L102N showing are fine grained and are hosted by coarse grained to pegmatitic ML gabbro in the central part of the main outcrop. This unit is locally weathered to a sand, due to high biotite content. A total of 7 grab samples and 36 trench samples were collected in the area of the L102N showing. Three samples (59659,59656, 60356) returned anomalous PGE plus gold results greater than 300 ppm, to a high of 583 ppm for sample 59657. The samples are from coarse grained to pegmatitic pods of MLgabbro which are strongly biotitic and strongly magnetic. Minor disseminated sulphides of pyrite, pyrrhotite, chalcopyrite and pentlandite are present at these sites, as indicated by analytical results. Sample 59659 is a grab sample which returned elevated PGE results of 307 ppb Pd, 98 ppb Pt, 18ppb Au with elevated copper of 1100 ppm and nickel of 408 ppm. The extent of this mineralization appears to be restricted to small pods of cgr-pegmatitic MLgabbro.

8.7 Leigh North Showing

Trenching was completed in the area of the Leigh North exposure to determine if the area is underlain by either outcrop or float. Excavation failed to locate bedrock to overburden depths of 5 metres, suggesting the original exposure is a large boulder similar to those found in the gully to the south. The 6x4 meter boulder was cleaned off and a total of 15 grab samples were collected during this program.

The boulder consists mostly of Unit 1f, of poikilitic coarse grained-pegmatitic MLgabbro to pyroxenite. The unit is strongly magnetic, with abundant coarse clots and disseminations of magnetite. Local remnant fragments of a MS/LC gabbro phase are visible within the MLgabbro. On the northern edge of the exposure, the gabbro has been infiltrated by irregular masses and clots of coarse grained to pegmatitic MS/LC gabbro (Unit 1d). This gabbro displays variable K feldspar and biotite flooding with interstitial magnetite clots. Feldspars are also locally epidotized.

Up to 2-3% finely to coarsely disseminated sulphides and clots of pyrite, pyrrhotite and chalcopyrite are concentrated in a 1 x 2 meter area on the northern edge of the boulder. The sulphides occur in both Units 1f and 1d, mostly as anhedral interstitial grains near the diffuse margins between these units. Of a total of 15 grab samples collected (49951-49965), three returned anomalous results (49961, 49963, 49965) from the mineralization on the edge of the exposure. The highest PGE plus gold results ranged from 154 to 611ppb (sample 49961). The latter sample included 344 ppb Pd, 211ppb Pt and 113 ppb Au, with elevated copper of 1113 ppm and nickel of 928 ppm.

9.0 CONCLUSIONS

The Roaring River Complex is a composite intrusive which, in the area of the property, is dominated by a texturally diverse series of oxide and non-oxide bearing gabbro phases intruded by the phases of the diorite-monzonite sanukitoid alkalic suite. Grid mapping during this program has indicated that the distribution of gabbroic intrusive phases is more extensive than originally mapped by Stern and Hanson. Anomalous PGE mineralization located to date is associated with the gabbroic phases.

The overall curvilinear form of the complex, the apparent linear distribution of the component units and steeply dipping layering suggests magma emplacement may have been into a funnel or graben shaped chamber. The distribution of the component gabbro phases along linear trends indicates the complex is zoned. As well, the occurrence of discontinuous planar modal layers, local subophitic to ophitic textures and common poikiilitic textures confirms the presence of cumulates within the Complex.

The widespread gabbro units were mostly consolidated to semiconsolidated at time of emplacement of surrounding monzonitic phases of the sanukitoid suite, as evidenced by the agmatitic "jigsaw" breccias and dykes/veins of monzonite composition. Monzonitic bodies are not commonly cut by gabbro phases, suggesting that magmas of sanukitoid suite were emplaced late in the development of the intrusion.

The gabbro phases which form the central "raft" to the intrusive complex are texturally diverse. Overlapping mixing and crosscutting relationships apparent in areas of breccias, and dykes of various gabbro phases suggest that the component units represent phases which are closely coeval and comagmatic. Complex textures such as those exposed by trenching in the Mere and L102N areas may be more widespread. These heterolithic zones may be the products of successive emplacement of small batches of variably fractionated melts.

Widespread emplacement of pegmatitic gabbros and pyroxenites as irregular pods, dykes and/or layers indicates that late stage volatiles circulated through the chamber. Volatile-rich magma may have preferentially migrated along contact zones between phases, such as in the Mere, L102N, and L116N areas. This could be related late deuteric alteration causing uralitization, saussauritization which commonly affects the coarse grained to pegmatitic leucogabbros of units 6 and 5. Alternatively, the introduction of late stage K feldspar alteration (flooding) could also be related to PGE mobilization.

Sulphide mineralization +/- PGEs are concentrated in a series of outcrop and float occurrences that are associated with coarse grained magnetite rich gabbros localized along or near the contact with unit 3, of cgr melanogabbro to pyroxenite. Inferred contacts on the edges of magnetic highs may therefore be prospective hosts to mineralization, as well. Large, lobate aeromagnetic highs to the immediate west of the grid are interpreted to be underlain by gabbro phases of the magnetite rich series (unit 6 +/- unit 4). Mineralized and PGE bearing boulders in the Leigh area may be float shed from this area. The linearity of the aeromagnetic high bodies indicate size potential of kilometer scale is possible for mineralization concentrated along such trends. Mineralization and/or anomalous PGE values were not associated with the monzonitic phases.

The distribution and habit of the concentrations of pyrrhotite, pentlandite, and chalcopyrite within gabbro phases of the complex suggest that these sulphides are of magmatic origin. The common association of sulphides with elevated PGE values suggests that the occurrence of chalcopyrite and/or pentlandite, pyrrhotite are integral to the occurrence and concentration of PGEs. However, a direct relationship between the species and abundance of sulphides, and PGE content has not been established. The occurrence of chalcopyrite appears to be commonly associated with elevated PGE values. Elevated copper values (and chalcopyrite content), however, are not consistently associated with anomalous PGE values and Cu:Ni and Cu:Pd ratios are widely variable. This above geochemical variability suggests that a secondary association other then sulphide content may control PGE grade. Fluid migration related to a late deuteric alteration event affecting feldspars and/or late K feldspar flooding is a possible mechanism for the mobilization and concentration of PGE mineralization.

Given the amount and distribution of overburden in the area, the soil results to date are inconclusive. Additional analyses would be required to identify dispersal trends of the geochemical signatures associated with PGE mineralization on the property, and to assist with targeting.

10.0 RECOMMENDATIONS

1) Whole rock/REE analysis and thin section study of the various phases to better identify prospective petrogenetic trends.

2) Submission of selected test soils to a second laboratory, to establish confidence levels in the current data. Run soils for the entire grid.

3) Additional gridding, ground magnetic, soil surveys to the west of the current grid, to cover aeromagnetic highs located to west of L84 to L96N on the South grid area and west of L24 to L132N in the North grid area. This will help to define prospective contact zones between magnetic

and non magnetic gabbro phases.

3) A machine access trail in to the north grid area, with excavation of test pits in areas of contrasting magnetic response and soil anomalies.

4) Rock sampling to date has determined that the presence of sulphides (chalcopyrite +/- pentlandite) is integral to the occurrence of PGE's. However, the relative abundances of sulphides do not display a correlation with PGE content. Geophysical methods such as IP could be employed to identify sulphide bearing zones, but similar chargeable responses could also be obtained from areas of disseminated magnetite and areas of actinolite to serpentinite alteration. Although some discrimination between these features is possible using Spectral parameters, the identification of specific sulphide bearing zones may be difficult.

5) Trenching and/or drilling of broad fences across magnetic high features, to specifically target and characterize lower magnetic margins, contact zones, and high magnetic core zones. A 1000 metre program consisting of up to 10-15 holes of 75-100 meter depth could effectively profile four to five areas of magnetic contrast. Two areas should test the inferred magnetic response of Unit 6, on the western side of the South grid. One to two areas should test the large aeromagnetic high to the west of the North grid. One to two areas should test the margins of the magnetic highs in the area of L116N and L118N occurrences.

Respectively Submitted by,

BERLAND RESOURCES LTD.

William McCrindle

William McCrindle, P. Eng.(ON)

J. FINGLER GEOLOGICAL

"Janice Fingler"

Janice Fingler, P. Geo. (BC)

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7. Roaring River 2001Geophysical Report, Berland Resources Ltd., December 2001

STATEMENT OF QUALIFICATIONS

I, Janice L. Fingler, of business address 1409-675 West Hasting Street in the City of Vancouver, in the Province of British Columbia, certify that:

1. I am a graduate of the University of Manitoba with a Bachelor of Science, Honours Geology degree obtained in 1985, and a Master of Science Geology degree obtained in 1991.

2. I am registered as a Professional Geologist with the Association of Professional Engineers and Geologists of B.C.

3. I have practiced my profession continuously since graduation.

4. I hold no direct interest in the securities of Berland Resources Ltd.

4. During this field program on the Roaring River property, I conducted geological mapping of both the grid and trenched areas and supervised the soil sampling program. I prepared all field data for map generation and co-authored this report by contributing the geology, soil geochemistry and trenching sections.

Dated at Vancouver, British Columbia, this 6th[th] day of December, 2001.

Janice L. Fingler, MSc., P.Geo.

CERTIFICATE OF QUALIFIED PERSON

I, William McCrindle, P. Eng., of the City of Thunder Bay, do hereby certify that:

1. Planned and supervised the contractor, Stares Contracting Corporation on behalf of Berland Resources Ltd. to conduct this survey.

2. I am the President, a Director and shareholder of Berland Resources Ltd.

3. I hold a Bachelor of Applied Science degree in Geological Engineering from the University of Toronto (1961).

4. I am registered as a member of the Association of Professional Engineers of Ontario and have been since July 27th, 1984.

5. I worked as a geologist in education and as a consultant from 1961 to 1982. From 1983 to October 1997, I was an Officer and from 1983 to the present, a Director of Cumberland Resources Ltd. I retired from my involvement in education in February, 1995. In October 1997 I was appointed President and Director of Berland Resources Ltd.

Dated at Thunder Bay, Ontario

this 20th day of ~~February~~ December, 2001

William McCrindle

William McCrindle, P. Eng.

APPENDIX I

2001 Rock Sample Descriptions and Geochemistry

ROARING RIVER PROPERTY

2001 ROCK SAMPLE DESCRIPTIONS

SAMPLE	GEO	Area	PrimaryRef	UTM27E	UTM27N	GRIDE	GRIDN	DESCRIPTION	SULPHIDES
500005	MS	S grid-east on L95N	utm	292664	5501656	9946	9492	Gabbro w/ granite phases throughout, some iron staining.;	tr py
500006	MS/JF	S grid-west on L98N				9225	9825	o/c of dark green gabbro;5x5m o/c of cgr MS/ML gabbro; high MS (80-125) d	1% py,po
500007	MS/JF	S grid-central				9585	9585	Gabbro o/c;o/c mound of cgr MLgabbro (AN) to pxite, low MS <10	tr to 1% py, po
500008	MS/JF	S grid-central				9655	9615	little rusty pods throughout; may be rubble?; cgr pxite-MLgabbro. May be sub	tr cpy
500009	MS	S grid-central-L96N	utm	292438	5501821	9671	9543	gabbro medium grained;	tr to 1% py, po, cpy
500010	MS/JF	S grid-central-L96N				9745	9615	(boulders) rusty medium grained gabbro, biotite throughout; Bldrs to 30cm of	local po, cpy
500011	MS/JF	S grid-west on L94N				9375	9400	contact btwn gabbro/diabase, at base of o/c; o/c face on edge, base of slope.	tr py po, cpy
500012	MS	S grid-central				9712	9180	large boulder of gabbro, anorthositic;	1% py, 0.5% mag
500013	MS/JF	S grid-west on L92N				9110	9212	gabbro, anorthositic (boulders);Cgr to locally peg dio/LC gabbro. Wk chl. Low	2-3% clots, agg to 0.5 cm of po,cpy; fgr py, po
500014	MS/JF	S grid-west on L92N				9110	9211	medium grained, siliceous?, net textured py, po, cpy (boulders)	2% finely diss'd sulphides
500015	MS/JF	S grid-central				9730	9000	gabbro mgr-cgr; o/c 5x3m on each side of grid line of fgr-mgr LCgabbro/dio;	0.5% py
500016	MS	S grid-east on L88N				9990	8800	large boulder, rounded gabbro with some anorthositic gabbro sections;	1% po, tr cpy
500017	MS/JF	S grid-west on L88N				9265	8800	large angular boulders AG; 3mx2m bldrs of mgr LC gabbro, appears silicified,	tr py, po, cpy
500018	MS	S grid-west on L82N				9390	8175	gabbro, epidote, medium grained;	tr py, po, cpy
500019	MS/JF	S grid-west on L82N				9387	8174	porphyritic gabbro w/ local areas of py, po, cpy;10x10m moss covered o/c at	0.5% py, po cpy
500020	MS/JF	S grid-west on L82N				9382	8173	gabbro w/ epidote, up to 5% py po, local patches of sulphide;10x10m moss c	up to 5% py
500021	MS/JF	S grid-east on L80N				9878	7995	(huge boulders) gabbro; 1x1m bldr of mgr LC gabbro w/ vlow MS (<1)	1% py, tr po
500022	MS/JF	S grid-east on L80N				9740	7925	gabbro mgr, wt plagioclase; 15x15m o/c mound in open area, of MS/ML gabb	tr py
500023	MS	S grid-central				9625	9537	(possible oc) cgr gabbro, anorthositic gabbro on west side;	tr py 1% mt
500024	MS/JF	Leigh South				9450	7204	boulders of gabbro, anorthositic; submded-subangular bldrs 0.4m of green m	tr fgr diss'd sulphides
500025	MS/JF	Leigh South				9435	7200	mineralized boulders, gabbro w/ wt plag; submded to subangular 0.5m bldrs	Clots, diss'd po, pent, cpy to 5-7% in peg phase
500026	MS/JF	Leigh South				9435	7220	mineralized peridotite (?) boulders; submded to subangular bldr 1.5 x 1m of P	up to 5% po, cpy; local cgr clots of po, cpy to 2% overall, also as fgr disseminations. Conc'd in cgr-peg phases.
500027	MS/JF	S grid-on BL at L74N				9660	7400	fibrous ultramafic, numerous small boulders in area;bldr of biotitic pxenite w/	tr fgr sulphides
500028	MS	S grid-west on L76N				9120	7615	boulder 4 metres long (anorthositic gabbro);	tr cpy, 0.5% py
500029	MS	L102N-to west	utm	292202	5502632	9108	10173	mgr gabbro. O/c contact with diabase, fragments of gt and gabbro throughout	0.5% py, po
500030	MS	L102N-to west	utm	292344	5502549	9272	10160	rusty pods in gabbro;	0.5% py
500034	JF	MereDetailed				9599	9879	cgr-peg ML gabbro with trace kfels, non mtic	
500035	JF	MereDetailed				9599	9882	mgr ML gabbro, fgr kfels, non mtic	
500036	JF	MereDetailed				9600	9886	cgr ML gabbo/px with 5% kfels vnlets, non mtic	
500037	JF	MereDetailed				9600	9890	fgr ML gabbro/px mixed with LC gabbro, non mtic	
500038	JF	MereDetailed				9600	9895	cgr ML gabbro-pxenite w creamy plag rich clots. In area of extensive brecciati	
500039	JF	MereDetailed				9597	9900	cgr ML gabbro/px to in bx area, non mtic	
500040	JF	MereDetailed				9598	9604	cgr ML gabbro/px with leuco-meso clots, wk epidote, non mtic	
500041	JF	MereDetailed				9603	9897	cgr ML gabbro with 20% plag rich clots	
500042	JF	MereDetailed				9608	9897	cgr mML gabbro-px	tr diss'd sulphides
500043	JF	MereDetailed				9613	9897	cgr ml gabbro +/- pink kfels, non mtic	
500044	JF	MereDetailed				9618	9896	o/c edge on west. Fgr ML gabbro-px, wkly mtic	
500045	JF	MereDetailed				9605	9884	cgr-peg-melano gabbro	
500046	JF	MereDetailed				9615	9880	0.3x0.3 lbdr cgr ml gabbro-px. No mt, minor ep	
500047	JF	MereDetailed				9595	9886	vcgr melanogabbro- px with fgr kfels, wk-mod mtic	0.5% cgr aggregates of po, minor cpy, malachite staining
500048	JF	MereDetailed				9591	9886	mgr meso-ml gabbro with pink kfels, wk mtic	
500049	JF	MereDetailed				9595	9889	mgr-cgrmeso-ml gabbro with cgr pink kfels, wk mtic	
500050	JF	MereDetailed				9590	9890	o/c grab fgr MS-ML gabbro, mod mtic; 20% cgr peg phase	

ROARING RIVER PROPERTY

2001 ROCK SAMPLE DESCRIPTIONS

SAMPLE	GEO	Area	PrimaryRef	UTM27E	UTM27N	GRIDE	GRIDN	DESCRIPTION	SULPHIDES
500051	JF	MereDetailed				9584	9800	0.5x.3m bldr in o/c area mgr MSgabbro. No mt. Rusty sulphide patches	
500101	JF	Leigh				9662	7778	1x0.6m angular bldr mgr LC/MS gabbro w/ pink kfels +/- biotite. Is fgr equiv of phase at Leigh showing	
500102	JF	Leigh				9656	7775	2x1.5m bldr of cgr peg LCgabbro w/ pink Kfels, bio. MS high (90-150). Rusty	2-3% cgr po, py +/- cpy
500103	JF	S grid-West on 75N	utm	291108	5500188	9175	7497	Btn L74+L76, small o/c mound/bldr? Cgr LC-MS gabbro. High MS=60-100. R	Tr-0.5% diss'd po?
500104	JF	Leigh-to SW				9472	7175	4x3m s/c or large bldrs. Of cgr green ML gabbro-Pxite w/ monzo-granodiorite	tr cgr py; tr fgr py
500105	CH/JF	Leigh-to SW				9565	7735	0.5x0.7m bldr of mgr MSgabbro (AN) in gully beside BL. Site is flagged but n	fgr, trace diss'd py, po?
500106	JF	L114N showing				10181	11405	3x2m submd bldr mgr-cgr ML gabbro/px. Mod-str mt as clots. Phase appears	tr-0.5% po, py
500108	JF	N grid-east on L130N				10445	12990	Leuco-meso gabbro/dio, str mtic. Minor pink kfels	
500109	JF	N grid-east on L128N				10400	12775	15x10m o/c of mgr leuco-meso gabbro/dio, local kfels + bio, str mtic. Local op	
500110	JF	N grid-west on L128N				9720	12770	1x1m bldr? Of leuco-meso gabbro/dio (mgr). Str mt as aggregates	tr vfgr diss py
500111	JF	MereDetailed				9607	9950	cgr-peg MLgabbro w/ grey to pink felds, mt clots, green alt'd mafics. Immedia	2% cgr py, up to 1% cpy, po
500112	JF	MereDetailed				9605	9952	cgr MLgabbro w/ grey fels, wk local mt	
500113	JF	MereDetailed				9608	9953	cgr MS-MLgabbro, local pegmatitic, wk-mod mtic	
500114	JF	MereDetailed				9609	9955	mgr MS gabbro, wk-mod mtic	
500115	JF	MereDetailed				9611	9955	fgr ML gabbro, tr biotite, non mtic	
500116	JF	MereDetailed				9605	9957	cgr MLgabbro +/- biotite w/ cgr pink Kfelds. Str mtic	
500117	JF	MereDetailed				9605	9958	mgr MSgabbro w/ local pink kfelds, mod mtic	tr diss'd fgr py
500118	JF	MereDetailed				9604	9947	fgr Mlgabbro w/ local cgr mafic oikocrysts	
500119	JF.	MereDetailed				9604	9952	Location uncertain; cgr-peg Kfelds-black mafics phase flooding mgr gabbro. S	2% fgr diss'd sulphides
500151	MS	N grid-east on L132N				9850	13190	gabbro medium grained, 40% feldspar	1% py
500152	MS/JF	N grid-east on L130N				10430	13000	MS-LC gabbro and granite O/C	tr-py
500153	MS	N grid-west on L128N				9635	12750	gabbro, fine grained	1% py
500154	MS/JF	N grid-west on L128N				9615	12795	sc mound 2x2m of MS-Mlgabbro w/ mt clots.	tr-1% py
500155	MS	N grid-west on L128N				9570	12750	gabbro, fine grained	1% py
500156	MS	N grid-east on L126N	utm	294488	5504225	10484	12596	gabbro, granite	3% py
500157	MS	N grid-east on L126N	utm	294522	5504198	10526	12587	boulders near source, rusty mafic component, granite; high grade	3% py, tr-po
500158	MS/JF	N grid-east on L122N				10375	12200	gabbro, medium grained; large oc of fgr Mlgabbro. Non mtic. Locally sheared	tr-py
500159	MS	N grid-west on L120N				9550	11975	fine grained gabbro, in mafic; str mtic	2% py
500160	MS	L114N showing	utm	293737	5503448	10141	11571	anorthositic gabbro, 50 metres S of copper showing	1/2% py
500161	MS/JF	L114N showing	utm	293666	5503425	10117	11492	L116N copper showing (reassay); utm from MS, but used grid locn from JF; h	po, cpy
500162	MS	L114N showing				10120	11498	Location uncertain; assumed in area of 500162	
500163	MS	S grid-west on L78N				9260	7800	Medium grained gabbro	tr-py
500164	MS	S grid-west on L78N				9445	7710	gabbro, medium grained with fine grained material in it	tr-py
500165	MS	Leigh area				9810	7700	coarse grained gabbro, green fibbrous	tr-py
500166	MS	Leigh-to SW				9455	7100	medium to coarse grained gabbro Anoth o/c	tr-py
500167	MS	Leigh-to SW				9440	7510	big boulder with granite caught up in it, matrix is mafic contact, between mafic	2% cpy, po
500168	MS	Leigh-to SE				9805	7490	coarse grained mafic, gabbro	tr-py
500170	MS	Leigh North-to NW				9540	7895	coarse grained gabbro	2% py
500171	MS	S grid-west on 83N				9275	8295	coarse grained gabbro	tr-py
500172	MS	S grid-west on 83N				9275	8320	medium grained gabbro, location uncertain	tr-py
01RRJF01	JF	south of hwy				9625	10085	Grab, cgr LC/MSgabbro; 0.5% fgr diss py, tr cgr po-net textured?	tr cgr po, 0.5% fgr py
01RRJF02	JF	south of hwy				9655	10007	mgr gabbro w/ local granitic clots and str epidote; comp grab over 2x1m area	3% vfgr po, py
01RRJF03	JF	south of hwy				9658	10010	as for above, 4m along same o/c edge. Site previously labelled as Nov. 18-1.	3% vfg, po, py

ROARING RIVER PROPERTY

2001 ROCK SAMPLE DESCRIPTIONS

SAMPLE	GEO	Area	PrimaryRef	UTM27E	UTM27N	GRIDE	GRIDN	DESCRIPTION	SULPHIDES
01RRJF04	JF	Mere North				9695	9998	grab of bldr (?) 30x30cm of cgr LCgabbro with rusty feldspar. Mod mtic	3% vfgr diss'd sulphides
01RRJF05	JF	Mere South				9598	9898	grab of cgr pxenite and MLgabbro (AG) phases, 10-15% LC phases w/ epidot	NVS
01RRJF06	JF	north of hwy	utm	292284	5502754	9130	10319	25m off rd. Cgr-peg MLgabbro (AG) w/ pxenite, bx phases; pinkish altn. Grab	tr-1% vfg py, po? Local clots to 0.5-1cm intergrown w/ mafics
01RRJF07	JF	north of hwy	utm	292284	5502758	9128	10322	est 5m N of above sample. Comp grab from o/c of cgr-peg gabbro (AG); local	tr-0.5% fgr diss'd py, po, cpy
01RRJF08	JF	S grid-west on L94N				9103	9393	Area of large bldrs/SC 2x2m, of cgr AG to pegmatitic w/ 2cm px xls. Strongly	tr-0.5% fgr diss'd sulphides
01RRJF09	JF	S grid-west on L94N				9100	9388	Comp grab of ophitic textured cgr-poikilitic/peg AG w/ pinkish Kfels. Strongly	tr-0.5% fgr diss'd sulphides
01RRJF15	JF	N grid-BL				10030	10410	5x5m oc of mgr Msgabbro to cgr-peg phases of Mlgabbro. Some fgr GD phase and mafic inclusions present. Variable MS <5 to 80. Wk local epidote +/- py	

ROARING RIVER PROPERTY
ROCK SAMPLE GEOCHEMISTRY

SAMPLE #	Area	GRIDE	GRIDN	PGE+Au	Au ppb	Pt ppb	Pd ppb	Cu ppm	Fe %	K %	Mg %	Ni ppm	S %	Ti %	V ppm	Cu:Ni	Cr:Ni	Cu:Pd	Ni:Pd
500005	S grid-east on L95N	9946	9492		64	< 15	< 10	142	2.38	0.10	2.81	204	0.13	0.05	20	0.70	0.71	NA	NA
500006	S grid-west on L98N	9225	9825		8	< 15	< 10	71	5.32	0.14	1.65	229	0.14	0.10	135	0.31	0.95	NA	NA
500007	S grid-central	9585	9585		11	< 15	< 10	244	2.01	0.07	1.15	118	0.28	0.11	55	2.06	1.83	NA	NA
500008	S grid-central	9655	9615		168	24	< 10	634	2.13	0.07	1.22	454	0.41	0.04	23	1.39	0.44	NA	NA
500009	S grid-central-L96N	9671	9543	227	[redacted]			326	2.91	0.08	1.58	446	0.34	0.04	39	0.73	1.03	2.60	3.57
500010	S grid-central-L96N	9745	9615	88	17	39	32	130	1.13	0.20	1.03	248	0.02	0.10	26	0.52	1.84	4.06	7.74
500011	S grid-west on L94N	9375	9400	110	24	41	45	334	3.06	0.11	1.27	472	0.23	0.08	49	0.71	1.34	7.42	10.50
500012	S grid-central	9712	9180		12	< 15	< 10	74	2.83	0.10	0.98	174	0.25	0.09	57	0.43	0.92	NA	NA
500013	S grid-west on L92N	9110	9212		10	24	< 10	215	1.99	0.09	1.33	248	0.62	0.05	22	0.87	0.48	NA	NA
500014	S grid-west on L92N	9110	9212		11	< 15	< 10	280	2.05	0.09	0.89	321	0.81	0.07	24	0.87	0.39	NA	NA
500015	S grid-central	9730	9000		6	< 15	< 10	58	2.17	0.20	1.09	108	0.18	0.13	55	0.53	0.43	NA	NA
500016	S grid-east on L88N	9990	8800		9	< 15	13	56	2.44	0.03	1.22	120	0.18	0.14	40	0.47	0.56	4.30	9.25
500017	S grid-west on L88N	9265	8800		13	< 15	< 10	188	1.42	0.14	1.18	148	0.13	0.13	35	1.27	0.56	NA	NA
500018	S grid-west on L82N	9390	8175		15	33	< 10	222	1.45	0.20	1.50	249	0.21	0.05	25	0.89	0.98	NA	NA
500019	S grid-west on L82N	9387	8174		< 5	< 15	18	235	2.36	0.10	2.85	421	0.35	0.05	21	0.56	0.60	13.08	23.40
500020	S grid-west on L82N	9382	8173	79	22	25	32	552	2.27	0.09	2.13	597	0.97	0.04	18	0.92	0.39	17.24	18.65
500021	S grid-east on L80N	9878	7995		8	< 15	< 10	148	1.51	0.22	1.47	132	0.30	0.04	17	1.12	0.49	NA	NA
500022	S grid east on L80N	9740	7925		13	< 15	< 10	69	1.37	0.11	1.91	197	0.16	0.03	14	0.35	0.92	NA	NA
500023	S grid-central	9625	9537		31	< 15	< 10	95	6.77	0.51	1.10	174	0.16	0.13	339	0.55	0.29	NA	NA
500024	Leigh South	9450	7204		11	< 15	< 10	59	4.28	0.15	1.17	199	0.11	0.13	120	0.30	0.63	NA	NA
500025	Leigh South	9435	7200		42	< 15	< 10	301	3.27	0.13	0.98	192	1.21	0.07	28	1.56	0.25	NA	NA
500026	Leigh South	9435	7220	168	65	32	71	1394	2.68	0.18	1.49	1091	1.12	0.04	19	1.28	0.14	19.63	15.37
500027	S grid-on BL at L74N	9660	7400		< 5	18	< 10	7	4.31	0.04	5.45	539	< 01	0.02	26	0.01	0.06	NA	NA
500028	S grid-west on L76N	9120	7615		< 5	17	< 10	87	2.45	0.08	1.28	126	0.04	0.06	53	0.69	0.52	NA	NA
500029	L102N-to west	9108	10173		< 5	17	< 10	135	2.75	0.07	1.22	177	0.24	0.11	78	0.76	0.56	NA	NA
500030	L102N-to west	9272	10160	934	[redacted]			965	3.68	0.13	2.24	448	0.59	0.04	34	2.16	0.19	1.48	0.68
500034	MereDetailed	9599	9879		<5	46	<10	12	1.62	0.04	1.45	124	< 01	0.11	24	0.10	2.65	NA	NA
500035	MereDetailed	9599	9882		< 5	25	< 10	40	1.57	0.06	1.82	90	<.01	0.08	26	0.44	2.91	NA	NA
500036	MereDetailed	9600	9886		< 5	41	14	32	1.78	0.06	1.29	56	0.02	0.09	44	0.58	5.44	2.31	3.97
500037	MereDetailed	9600	9890	68	6	43	19	44	1.70	0.04	1.41	121	0.05	0.08	31	0.36	1.73	2.31	6.35
500038	MereDetailed	9600	9895		< 5	54	36	42	1.08	0.07	0.75	34	0.03	0.05	20	1.23	2.93	1.15	0.94
500039	MereDetailed	9597	9900		< 5	102	44	59	1.43	0.05	1.28	62	0.02	0.06	29	0.96	1.53	1.34	1.40
500040	MereDetailed	9598	9604		< 5	35	14	52	1.54	0.06	0.77	47	< 01	0.08	40	1.09	3.19	3.69	3.39
500041	MereDetailed	9603	9897	203	6	119	78	152	1.18	0.05	1.03	90	0.04	0.06	22	1.69	1.13	1.94	1.15
500042	MereDetailed	9608	9897		< 5	44	19	84	1.35	0.09	0.63	48	0.06	0.07	36	1.76	2.79	4.44	2.52
500043	MereDetailed	9613	9897		< 5	76	16	101	1.47	0.10	0.70	105	0.08	0.03	26	0.97	1.63	6.33	6.54
500044	MereDetailed	9618	9896		< 5	58	30	42	1.06	0.08	1.05	71	0.05	0.06	23	0.60	3.66	1.42	2.36
500045	MereDetailed	9605	9884		< 5	62	18	109	2.06	0.06	1.17	84	0.03	0.08	58	1.29	3.31	6.06	4.69
500046	MereDetailed	9615	9880		< 5	39	< 10	12	1.33	0.03	1.49	95	0.01	0.07	19	0.12	3.26	NA	NA
500047	MereDetailed	9595	9886	135	6	69	60	370	3.54	0.05	2.02	492	0.13	0.05	55	0.75	1.18	6.16	8.20
500048	MereDetailed	9591	9886		< 5	57	< 10	41	1.11	0.11	0.90	58	<.01	0.09	24	0.70	3.87	NA	NA
500049	MereDetailed	9595	9889		< 5	54	10	10	1.95	0.09	1.76	132	<.01	0.07	20	0.08	3.45	1.02	13.15
500050	MereDetailed	9590	9890		< 5	< 15	13	11	2.76	0.08	2.13	153	< 01	0.22	66	0.07	2.02	0.84	11.73

ROARING RIVER PROPERTY
ROCK SAMPLE GEOCHEMISTRY

SAMPLE #	Area	GRIDE	GRIDN	PGE+Au	Au ppb	Pt ppb	Pd ppb	Cu ppm	Fe %	K %	Mg %	Ni ppm	S %	Ti %	V ppm	Cu:Ni	Cr:Ni	Cu:Pd	Ni:Pd
500005	S grid-east on L95N	9946	9492		64	< 15	< 10	142	2.38	0.10	2.81	204	0.13	0.05	20	0.70	0.71	NA	NA
500006	S grid-west on L98N	9225	9825		8	< 15	< 10	71	5.32	0.14	1.65	229	0.14	0.10	135	0.31	0.95	NA	NA
500007	S grid-central	9585	9585		11	< 15	< 10	244	2.01	0.07	1.15	118	0.28	0.11	55	2.06	1.83	NA	NA
500008	S grid-central	9655	9615		168	24	< 10	634	2.13	0.07	1.22	454	0.41	0.04	23	1.39	0.44	NA	NA
500009	S grid-central-L96N	9671	9543	227	[redacted]			326	2.91	0.08	1.58	446	0.34	0.04	39	0.73	1.03	2.60	3.57
500010	S grid-central-L96N	9745	9615	88	17	39	32	130	1.13	0.20	1.03	248	0.02	0.10	26	0.52	1.84	4.06	7.74
500011	S grid-west on L94N	9375	9400	110	24	41	45	334	3.06	0.11	1.27	472	0.23	0.08	49	0.71	1.34	7.42	10.50
500012	S grid-central	9712	9180		12	< 15	< 10	74	2.83	0.10	0.98	174	0.25	0.09	57	0.43	0.92	NA	NA
500013	S grid-west on L92N	9110	9212		10	24	< 10	215	1.99	0.09	1.33	248	0.62	0.05	22	0.87	0.48	NA	NA
500014	S grid-west on L92N	9110	9212		11	< 15	< 10	280	2.05	0.09	0.89	321	0.81	0.07	24	0.87	0.39	NA	NA
500015	S grid-central	9730	9000		6	< 15	< 10	58	2.17	0.20	1.09	108	0.18	0.13	55	0.53	0.43	NA	NA
500016	S grid-east on L88N	9990	8800		9	< 15	13	56	2.44	0.03	1.22	120	0.18	0.14	40	0.47	0.56	4.30	9.25
500017	S grid-west on L88N	9265	8800		13	< 15	< 10	188	1.42	0.14	1.18	148	0.13	0.13	35	1.27	0.56	NA	NA
500018	S grid-west on L82N	9390	8175		15	33	< 10	222	1.45	0.20	1.50	249	0.21	0.05	25	0.89	0.98	NA	NA
500019	S grid-west on L82N	9387	8174		< 5	< 15	18	235	2.36	0.10	2.85	421	0.35	0.05	21	0.56	0.60	13.08	23.40
500020	S grid-west on L82N	9382	8173	79	22	25	32	552	2.27	0.09	2.13	597	0.97	0.04	18	0.92	0.39	17.24	18.65
500021	S grid-east on L80N	9878	7995		8	< 15	< 10	148	1.51	0.22	1.47	132	0.30	0.04	17	1.12	0.49	NA	NA
500022	S grid-east on L80N	9740	7925		13	< 15	< 10	69	1.37	0.11	1.91	197	0.16	0.03	14	0.35	0.92	NA	NA
500023	S grid-central	9625	9537		31	< 15	< 10	95	6.77	0.51	1.10	174	0.16	0.13	339	0.55	0.29	NA	NA
500024	Leigh South	9450	7204		11	< 15	< 10	59	4.28	0.15	1.17	199	0.11	0.13	120	0.30	0.63	NA	NA
500025	Leigh South	9435	7200		42	< 15	< 10	301	3.27	0.13	0.98	192	1.21	0.07	28	1.56	0.25	NA	NA
500026	Leigh South	9435	7220	168	65	32	71	1394	2.68	0.18	1.49	1091	1.12	0.04	19	1.28	0.14	19.63	15.37
500027	S grid-on BL at L74N	9660	7400		< 5	18	< 10	7	4.31	0.04	5.45	539	< 01	0.02	26	0.01	0.06	NA	NA
500028	S grid-west on L76N	9120	7615		< 5	17	< 10	87	2.45	0.08	1.28	126	0.04	0.06	53	0.69	0.52	NA	NA
500029	L102N-to west	9108	10173		< 5	17	< 10	135	2.75	0.07	1.22	177	0.24	0.11	78	0.76	0.56	NA	NA
500030	L102N-to west	9272	10160	934	[redacted]			965	3.68	0.13	2.24	448	0.59	0.04	34	2.16	0.19	1.48	0.68
500034	MereDetailed	9599	9879		<5	46	<10	12	1.62	0.04	1.45	124	< 01	0.11	24	0.10	2.65	NA	NA
500035	MereDetailed	9599	9882		< 5	25	< 10	40	1.57	0.06	1.82	90	< 01	0.08	26	0.44	2.91	NA	NA
500036	MereDetailed	9600	9886		< 5	41	14	32	1.78	0.06	1.29	56	0.02	0.09	44	0.58	5.44	2.31	3.97
500037	MereDetailed	9600	9890	68	6	43	19	44	1.70	0.04	1.41	121	0.05	0.08	31	0.36	1.73	2.31	6.35
500038	MereDetailed	9600	9895		< 5	54	36	42	1.08	0.07	0.75	34	0.03	0.05	20	1.23	2.93	1.15	0.94
500039	MereDetailed	9597	9900		< 5	102	44	59	1.43	0.05	1.28	62	0.02	0.06	29	0.96	1.53	1.34	1.40
500040	MereDetailed	9598	9604		< 5	35	14	52	1.54	0.06	0.77	47	< 01	0.08	40	1.09	3.19	3.69	3.39
500041	MereDetailed	9603	9897	203	6	119	78	152	1.18	0.05	1.03	90	0.04	0.06	22	1.69	1.13	1.94	1.15
500042	MereDetailed	9608	9897		< 5	44	19	84	1.35	0.09	0.63	48	0.06	0.07	36	1.76	2.79	4.44	2.52
500043	MereDetailed	9613	9897		< 5	76	16	101	1.47	0.10	0.70	105	0.08	0.03	26	0.97	1.63	6.33	6.54
500044	MereDetailed	9618	9896		< 5	58	30	42	1.06	0.08	1.05	71	0.05	0.06	23	0.60	3.66	1.42	2.36
500045	MereDetailed	9605	9884		< 5	62	18	109	2.06	0.06	1.17	84	0.03	0.08	58	1.29	3.31	6.06	4.69
500046	MereDetailed	9615	9880		< 5	39	< 10	12	1.33	0.03	1.49	95	0.01	0.07	19	0.12	3.26	NA	NA
500047	MereDetailed	9595	9886	135	6	69	60	370	3.54	0.05	2.02	492	0.13	0.05	55	0.75	1.18	6.16	8.20
500048	MereDetailed	9591	9886		< 5	57	< 10	41	1.11	0.11	0.90	58	<.01	0.09	24	0.70	3.87	NA	NA
500049	MereDetailed	9595	9889		< 5	54	10	10	1.95	0.09	1.76	132	<.01	0.07	20	0.08	3.45	1.02	13.15
500050	MereDetailed	9590	9890		< 5	< 15	13	11	2.76	0.08	2.13	153	<.01	0.22	66	0.07	2.02	0.84	11.73

500051	MereDetailed	9584	9800		9	< 15	< 10	100	2.60	0.12	0.95	89	0.07	0.07	89	1.12	2.61	NA	NA
500101	**Leigh**	**9662**	**7778**	**1097**	[redacted]			**1803**	**4.99**	**0.36**	**1.43**	1508	1.77	0.17	71	1.20	0.28	1.99	1.66
500102	**Leigh**	**9656**	**7775**		**42**	**63**	**311**	**673**	4.72	0.60	1.31	616	0.66	0.21	119	1.09	0.15	2.16	1.98
500103	S grid-West on 75N	9175	7497		< 5	< 15	< 10	64	4.02	0.14	0.94	148	0.32	0.13	140	0.43	0.40	NA	NA
500104	Leigh-to SW	9472	7175		9	< 15	< 10	41	2.03	0.09	2.29	190	0.17	0.11	24	0.22	1.15	NA	NA
500105	Leigh-to SW	9565	7735		< 5	< 15	< 10	47	2.10	0.11	1.30	100	0.14	0.04	27	0.47	0.76	NA	NA
500106	L114N showing	10181	11405		< 5	21	< 10	141	3.14	0.30	1.29	103	0.23	0.09	76	1.37	0.59	NA	NA
500108	N grid-east on L130N	10445	12990		< 5	26	< 10	171	6.93	0.13	0.93	166	0.33	0.22	297	1.03	0.57	NA	NA
500109	N grid-east on L128N	10400	12775		< 5	< 15	< 10	26	6.25	0.44	1.14	105	0.22	0.24	138	0.25	0.73	NA	NA
500110	N grid-west on L128N	9720	12770		< 5	< 15	< 10	53	4.89	0.20	1.18	134	0.16	0.15	160	0.40	0.67	NA	NA
500111	**MereDetailed**	**9607**	**9950**	**439**	[redacted]			**602**	**1.57**	**0.10**	**0.77**	**243**	**0.38**	**0.05**	**21**	**2.47**	0.39	2.11	0.85
500112	MereDetailed	9605	9952		< 5	26	22	88	2.86	0.07	2.26	139	0.06	0.01	9	0.63	0.32	3.99	6.32
500113	MereDetailed	9608	9953		< 5	39	< 10	145	4.20	0.08	1.76	170	0.08	0.04	69	0.85	0.31	NA	NA
500114	MereDetailed	9609	9955		9	< 15	17	111	3.94	0.07	2.76	196	0.06	<.01	13	0.57	0.32	6.56	11.55
500115	MereDetailed	9611	9955		< 5	< 15	34	41	1.73	0.16	1.40	57	0.03	0.10	49	0.72	4.94	1.20	1.67
500116	MereDetailed	9605	9957		< 5	< 15	< 10	20	1.14	0.10	0.63	33	0.01	0.04	17	0.62	2.84	NA	NA
500117	MereDetailed	9605	9958		< 5	< 15	< 10	50	2.13	0.07	1.17	81	0.18	0.07	43	0.62	1.64	NA	NA
500118	MereDetailed	9604	9947		< 5	< 15	11	2	1.09	0.12	1.52	61	0.02	0.07	32	0.04	8.82	0.21	5.56
500119	MereDetailed	9604	9952		< 5	< 15	17	63	4.10	0.13	1.33	128	0.11	0.16	132	0.49	2.13	3.72	7.52
500151	N grid east on L132N	9850	13190		< 5	< 15	< 10	23	6.21	0.17	0.78	145	0.18	0.20	209	0.16	0.28	NA	NA
500152	N grid-east on L130N	10430	13000		< 5	< 15	< 10	81	3.59	0.20	1.13	23	0.19	0.16	106	3.46	4.54	NA	NA
500153	N grid-west on L128N	9635	12750		< 5	20	< 10	88	4.54	0.13	0.62	98	0.17	0.12	150	0.90	0.52	NA	NA
500154	N grid-west on L128N	9620	12800		< 5	< 15	< 10	58	3.29	0.15	0.76	110	0.15	0.10	84	0.53	1.20	NA	NA
500155	N grid-west on L128N	9570	12750		< 5	18	< 10	51	4.96	0.12	0.66	126	0.13	0.14	156	0.40	0.47	NA	NA
500156	N grid-east on L126N	10494	12596		< 5	26	< 10	**273**	6.93	0.11	1.19	154	0.78	0.20	218	1.78	2.51	NA	NA
500157	N grid-east on L126N	10526	12587		< 5	< 15	< 10	**274**	6.41	0.17	1.47	211	0.55	0.21	218	1.30	0.80	NA	NA
500158	N grid east on L122N	10375	12200		< 5	< 15	< 10	50	1.79	0.23	1.71	114	0.08	0.12	43	0.44	2.59	NA	NA
500159	N grid-west on L120N	9550	11975		< 5	< 15	< 10	61	3.11	0.10	1.51	119	0.40	0.15	70	0.51	0.99	NA	NA
500160	L114N showing	10141	11571		< 5	< 15	< 10	62	2.04	0.19	1.72	69	0.10	0.05	26	0.91	0.66	NA	NA
500161	L114N showing	10117	11492			< 15	< 10	**1165**	2.06	0.11	1.11	230	0.43	0.05	26	5.07	0.33	NA	NA
500162	L114N showing	10120	11498		< 5	21	11	66	2.16	0.25	1.15	86	0.11	0.08	47	0.77	0.71	6.04	7.80
500163	S grid-west on L78N	9260	7800		< 5	< 15	< 10	246	4.53	0.14	1.02	190	0.20	0.10	174	1.30	0.65	NA	NA
500164	**S grid-west on L78N**	**9445**	**7710**	**112**	**13**	**54**	**45**	279	3.94	0.17	1.19	**364**	0.26	0.16	110	0.77	1.64	6.21	8.08
500165	Leigh area	9810	7700		< 5	37	< 10	44	3.00	0.28	2.69	84	0.09	0.02	17	0.52	0.22	NA	NA
500166	Leigh South	9455	7100		5	< 15	< 10	75	1.56	0.18	1.02	44	0.21	0.04	16	1.72	1.12	NA	NA
500167	**Leigh-to SW**	**9440**	**7510**	**242**	[redacted]			**1760**	1.95	0.07	0.51	913	0.72	0.09	28	**1.93**	0.14	15.17	7.87
500168	Leigh-to SE	9805	7490		< 5	58	< 10	58	1.38	0.12	1.69	110	0.06	0.04	17	0.53	1.38	NA	NA
500170	**Leigh North-to NW**	**9540**	**7895**	**202**	[redacted]			**1028**	2.64	0.04	1.80	1688	1.34	0.05	16	1.49	0.28	9.02	6.04
500171	S grid-west on 83N	9275	8295		6	55	< 10	102	1.64	0.09	1.54	123	0.17	0.11	51	0.83	0.58	NA	NA
500172	S grid-west on 83N	9275	8320		13	71	14	97	1.34	0.09	1.11	58	0.08	0.04	28	1.69	2.31	6.96	4.12
01-RR-JF-01	south of hwy	9625	10085		45	< 15	< 10	80	3.07	0.10	0.99	135	0.19	0.05	67	0.59	0.34	NA	NA
01-RR-JF-02	south of hwy	9655	10007		19	< 15	< 10	54	2.74	0.07	1.05	119	0.34	0.16	56	0.45	1.15	NA	NA
01-RR-JF-03	south of hwy	9658	10010		13	< 15	< 10	32	3.25	0.07	2.01	149	0.88	0.09	37	0.21	0.32	NA	NA
01-RR-JF-04	Mere North	9695	9998		18	< 15	< 10	30	3.43	0.12	0.94	96	0.36	0.17	55	0.32	1.12	NA	NA
01-RR-JF-05	**Mere South**	**9598**	**9898**	**416**	[redacted]			**315**	1.09	0.04	0.83	116	0.06	0.06	23	**2.71**	0.69	1.40	0.52
01-RR-JF-06	north of hwy	9130	10319		13	< 15	< 10	92	2.14	0.21	1.76	122	0.14	0.03	15	0.75	0.41	NA	NA
01-RR-JF-07	north of hwy	9128	10322		11	< 15	< 10	125	2.13	0.15	1.82	125	0.10	0.05	21	1.00	0.32	NA	NA

01-RR-JF-08	S grid-west on L94N	9103	9393	20	< 15	< 10	58	5.50	0.24	1.28	190	0.18	0.16	206	0.31	0.33	NA	NA
01-RR-JF-09	S grid-west on L94N	9100	9388	< 5	< 15	19	114	6.93	0.18	0.95	203	0.31	0.16	307	0.56	0.27	5.98	10.69
01-RR-JF-15	N grid-BL	10030	10410	10	< 15	< 10	154	3.46	0.12	1.65	177	0.19	0.08	97	0.87	0.52	NA	NA

APPENDIX II

Assay Certificates of Analysis

Rock Samples and Channel Samples

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Thursday, June 28, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 21-Jun-01
Date Completed : 26-Jun-01
Job # 200140273
Reference :

Sample #: 22 Rock

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
5924		50005	64	< 15	< 10	
5925		50006	8	< 15	< 10	
5926		50007	11	< 15	< 10	
5927		50008	168	24	< 10	
5928		50009	13	89	125	
5929		50010	17	39	32	
5930		50011	24	41	45	
5931		50012	12	< 15	< 10	
5932		50013	10	24	< 10	
5933		50014	11	< 15	< 10	
5934	Check	50014	10	< 15	< 10	
5935		50015	6	< 15	< 10	
5936		50016	9	< 15	13	
5937		50017	13	< 15	< 10	
5938		50018	15	33	< 10	
5939		50019	< 5	< 15	18	
5940		50020	22	25	32	
5941		50021	8	< 15	< 10	
5942		50022	13	< 15	< 10	
5943		50023	33	< 15	< 10	
5944	Check	50023	29	< 15	< 10	
5945		50024	11	< 15	< 10	
5946		50025	42	< 15	< 10	

PROCEDURE CODES: AL4APP

Certified By: Greg Kaminskiewicz

AL907-0135-06/28/2001 09:25 AM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Certificate of Analysis

Thursday, June 28, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 21-Jun-01
Date Completed : 26-Jun-01
Job # 200140273
Reference :
Sample #: 22 Rock

Accurassay #	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
5947	50026	65	32	71	

PROCEDURE CODES: AL4APP

Certified By: [signature]

AL907-0135-06/28/2001 09:25 AM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140273

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
50005	<.3	2.46	5	<5	43	3.1	<5	1.05	<.5	49	145	142	2.38	0.10	2	2.81
50006	0.5	2.45	3	<5	179	2.5	<5	1.56	<.5	43	217	71	5.32	0.14	5	1.65
50007	0.4	0.79	3	<5	38	<.1	<5	3.15	<.5	33	216	244	2.01	0.07	36	1.15
50008	0.8	3.95	<2	<5	59	3.0	6	2.61	<.5	45	200	634	2.13	0.07	5	1.22
50009	0.4	1.89	4	<5	51	0.9	<5	1.83	<.5	52	461	326	2.91	0.08	3	1.58
50010	<.3	0.77	4	<5	81	<.1	<5	0.83	<.5	17	455	130	1.13	0.20	3	1.03
50011	0.5	0.80	5	<5	65	0.8	<5	1.07	<.5	36	633	334	3.06	0.11	3	1.27
50012	<.3	1.82	<2	<5	62	2.0	<5	1.71	<.5	33	160	74	2.83	0.10	7	0.98
50013	0.5	2.90	<2	<5	43	3.5	8	2.38	<.5	58	118	215	1.99	0.09	5	1.33
50014	1.3	2.49	3	<5	47	1.8	<5	2.47	<.5	65	126	280	2.05	0.09	7	0.89
50015	<.3	1.96	3	<5	80	0.7	<5	1.32	<.5	19	46	58	2.17	0.20	12	1.09
50016	<.3	1.60	4	<5	19	0.6	<5	0.68	<.5	24	68	56	2.44	0.03	<1	1.22
50017	0.3	4.02	5	<5	99	4.2	<5	2.54	<.5	16	83	188	1.42	0.14	14	1.18
50018	2.1	4.64	5	<5	69	3.1	5	3.36	<.5	35	244	222	1.45	0.20	3	1.50
50019	<.3	3.22	8	<5	57	2.3	5	1.52	<.5	48	254	235	2.36	0.10	4	2.85

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
50005	408	<1	0.05	204	208	18	0.13	<2	<5	0.04	<5	125	0.05	20	<2	158
50006	379	<1	0.37	229	262	4	0.14	<2	<5	0.05	<5	346	0.10	135	<2	30
50007	346	<1	0.07	118	12459	2	0.28	<2	<5	0.09	<5	129	0.11	55	<2	21
50008	286	<1	0.36	454	116	4	0.41	2	<5	0.09	<5	359	0.04	23	<2	35
50009	288	<1	0.14	446	165	5	0.34	7	<5	0.06	<5	183	0.04	39	<2	43
50010	199	<1	0.09	248	626	<2	0.02	8	<5	0.03	<5	36	0.10	26	<2	20
50011	271	<1	0.08	472	548	12	0.23	13	<5	0.04	<5	54	0.08	49	<2	31
50012	314	<1	0.20	174	743	8	0.25	<2	<5	0.04	<5	202	0.09	57	<2	35
50013	271	<1	0.35	248	586	5	0.62	<2	<5	0.08	<5	173	0.05	22	<2	78
50014	241	<1	0.37	321	1110	9	0.81	<2	<5	0.07	<5	183	0.07	24	<2	96
50015	402	<1	0.11	108	1129	<2	0.18	<2	<5	0.04	6	183	0.13	55	<2	16
50016	429	<1	0.03	120	134	2	0.18	<2	<5	0.03	<5	15	0.14	40	<2	52
50017	285	<1	0.92	148	1888	<2	0.13	<2	<5	0.07	<5	384	0.13	35	<2	249
50018	268	<1	0.61	249	<100	114	0.21	5	<5	0.08	<5	350	0.05	25	<2	147
50019	432	<1	0.16	421	<100	<2	0.35	4	<5	0.06	<5	145	0.05	21	<2	64

Certified By:

ACCURASSAY LABORATORIES
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PHONE (807) 623-6448
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140273

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
50020	0.7	2.46	3	<5	52	2.4	<5	1.48	<.5	60	232	552	2.27	0.09	2	2.13
50021	0.6	3.42	7	<5	66	1.9	7	2.22	<.5	31	64	148	1.51	0.22	9	1.47
50022	<.3	3.08	5	<5	51	3.5	6	2.31	<.5	27	182	69	1.37	0.11	4	1.91
50023	0.7	2.75	3	5	218	4.3	<5	2.65	<.5	41	51	95	6.77	0.51	34	1.10
50024	0.5	1.99	2	<5	126	2.8	<5	1.93	<.5	23	126	59	4.28	0.15	23	1.17
50025	0.4	3.93	<2	<5	63	3.2	<5	2.39	<.5	83	47	301	3.27	0.13	16	0.98
50026	0.5	2.11	3	<5	78	2.1	<5	1.83	<.5	81	157	1394	2.68	0.18	5	1.49

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
50020	312	<1	0.13	597	<100	60	0.97	3	<5	0.04	<5	155	0.04	18	<2	108
50021	259	<1	0.37	132	240	4	0.30	<2	<5	0.06	<5	187	0.04	17	<2	29
50022	243	<1	0.20	197	315	3	0.16	<2	<5	0.06	<5	200	0.03	14	<2	27
50023	378	<1	0.47	174	10100	8	0.16	<2	<5	0.06	<5	306	0.13	339	<2	56
50024	360	<1	0.28	199	5552	6	0.11	<2	<5	0.05	<5	228	0.13	120	<2	141
50025	410	<1	0.62	192	791	15	1.21	<2	<5	0.06	<5	343	0.07	28	<2	49
50026	262	<1	0.09	1091	146	8	1.12	<2	<5	0.06	<5	118	0.04	19	<2	52

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Thursday, June 28, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 21-Jun-01
Date Completed :
Job # 200140274
Reference :
Sample #: 10 Rock

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
5948		01-RR-JF-01	45	< 15	< 10	
5949		01-RR-JF-02	19	< 15	< 10	
5950		01-RR-JF-03	13	< 15	< 10	
5951		01-RR-JF-04	18	< 15	< 10	
5952		01-RR-JF-05	48	143	225	
5953		01-RR-JF-06	13	< 15	< 10	
5954		01-RR-JF-07	11	< 15	< 10	
5955		01-RR-JF-08	20	< 15	< 10	
5956		01-RR-JF-09	< 5	< 15	19	
5957		01-RR-JF-15	7	< 15	< 10	
5974	Check	01-RR-JF-15	12	< 15	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By: [signature]

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ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140274

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
01-RR-JF-01	<.3	3.26	<2	15	85	0.6	<5	2.32	<.5	30	47	80	3.07	0.10	7	0.99
01-RR-JF-02	0.3	1.51	3	10	32	0.5	<5	0.89	<.5	20	138	54	2.74	0.07	3	1.05
01-RR-JF-03	<.3	2.11	<2	17	27	0.8	<5	0.63	<.5	35	48	32	3.25	0.07	2	2.01
01-RR-JF-04	<.3	1.26	4	18	71	1.1	<5	0.90	<.5	14	107	30	3.43	0.12	42	0.94
01-RR-JF-05	<.3	0.63	2	<5	74	0.4	<5	1.31	<.5	16	80	315	1.09	0.04	6	0.83
01-RR-JF-06	0.9	5.91	4	<5	128	0.6	<5	3.18	<.5	29	50	92	2.14	0.21	11	1.76
01-RR-JF-07	1.1	4.91	3	<5	90	0.4	<5	2.92	<.5	28	40	125	2.13	0.15	10	1.82
01-RR-JF-08	0.5	3.31	<2	46	123	1.4	<5	2.71	<.5	32	63	58	5.50	0.24	18	1.28
01-RR-JF-09	0.7	2.60	4	65	103	1.5	<5	2.07	<.5	49	56	114	6.93	0.18	11	0.95
01-RR-JF-15	<.3	2.73	3	19	63	0.5	5	1.95	<.5	34	92	154	3.46	0.12	6	1.65

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
01-RR-JF-01	306	<1	0.48	135	632	<2	0.19	<2	<5	0.04	<5	357	0.05	87	<2	111
01-RR-JF-02	252	<1	0.06	119	736	<2	0.34	<2	<5	0.02	<5	200	0.16	56	<2	50
01-RR-JF-03	426	<1	0.06	149	593	3	0.88	<2	<5	<.01	<5	109	0.09	37	<2	51
01-RR-JF-04	384	<1	0.09	96	1521	2	0.36	<2	<5	0.01	<5	41	0.17	55	<2	34
01-RR-JF-05	279	<1	0.07	116	1274	<2	0.06	<2	<5	0.02	<5	75	0.06	23	<2	72
01-RR-JF-06	265	<1	0.56	122	389	5	0.14	<2	<5	0.05	<5	591	0.03	15	<2	37
01-RR-JF-07	285	<1	0.39	125	492	3	0.10	<2	<5	0.04	<5	428	0.05	21	<2	52
01-RR-JF-08	343	<1	0.65	190	4420	<2	0.18	<2	<5	0.05	<5	398	0.16	206	<2	48
01-RR-JF-09	318	<1	0.54	203	1875	3	0.31	<2	<5	0.04	<5	281	0.16	307	<2	98
01-RR-JF-15	509	<1	0.34	177	2410	<2	0.19	<2	<5	0.03	<5	213	0.08	97	<2	58

Certified By: Greg Kapniewicz

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Thursday, July 05, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 25-Jun-01
Date Completed : 05-Jul-01
Job # 200140290
Reference :
Sample #: 10 Rock

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6640		500 101	58	135	904	
6641		500 102	42	63	311	
6642		500 103	< 5	< 15	< 10	
6643		500 104	9	< 15	< 10	
6644		5000 27	< 5	18	< 10	
6645		5000 28	< 5	17	< 10	
6646		5000 29	< 5	17	< 10	
6647		5000 30	93	187	654	
6648		5000 32	12	< 15	< 10	
6649	Check	5000 32	53	< 15	< 10	
6650		5000 33	< 5			

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-07/05/2001 04:57 PM

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Brian G. Spare, Ph.D
CHEMIST

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140290

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
500101	2.1	1.84	4	63	127	1.2	<5	1.16	<.5	99	423	1803	4.99	0.36	15	1.43
500102	0.7	2.19	4	55	230	0.9	<5	1.64	<.5	42	92	673	4.72	0.60	25	1.31
500103	0.8	4.90	4	43	69	0.9	<5	3.03	<.5	36	59	64	4.02	0.14	10	0.94
500104	<.3	1.95	4	13	35	0.4	<5	1.29	<.5	36	218	41	2.03	0.09	13	2.29
500027	<.3	2.53	3	40	49	0.4	7	0.55	<.5	76	30	7	4.31	0.04	3	5.45
500028	0.8	4.39	2	13	63	0.5	<5	2.96	<.5	24	65	87	2.45	0.08	7	1.28
500029	<.3	1.40	4	17	25	0.6	<5	1.85	<.5	24	100	135	2.75	0.07	9	1.22
500030	0.9	2.41	<2	27	52	0.8	<5	1.48	<.5	67	87	965	3.68	0.13	3	2.24
500032	0.6	4.88	<2	13	34	0.4	5	2.89	<.5	69	114	585	2.50	0.08	1	0.65
500033	<.3	1.12	127	59	15	0.9	<5	1.91	0.5	49	284	147	6.21	0.02	4	0.37

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
500101	298	<1	0.10	1503	1263	6	1.77	10	<5	0.04	<5	80	0.17	71	4	94
500102	310	<1	0.17	616	2833	4	0.66	<2	<5	0.08	<5	117	0.21	119	3	83
500103	250	1	1.15	148	353	<2	0.32	<2	<5	0.05	<5	502	0.13	140	<2	40
500104	257	<1	0.08	190	278	<2	0.17	5	<5	0.04	<5	48	0.11	24	4	36
500027	409	<1	0.04	539	281	<2	<.01	2	<5	0.08	<5	17	0.02	26	<2	61
500028	245	<1	0.55	126	273	<2	0.04	<2	<5	0.09	<5	520	0.06	53	<2	50
500029	300	<1	0.10	177	431	7	0.24	<2	<5	0.04	<5	46	0.11	78	<2	63
500030	307	<1	0.10	448	169	11	0.59	<2	<5	0.04	<5	144	0.04	34	<2	60
500032	172	1	0.90	601	<100	<2	1.10	<2	<5	0.06	<5	266	0.01	10	<2	28
500033	348	<1	0.03	280	166	5	3.59	5	<5	0.04	<5	23	0.16	32	<2	426

Certified By: Greg Kuzmowich

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Friday, July 06, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 25-Jun-01
Date Completed : 06-Jul-01
Job # 200140291
Reference :
Sample #: 1 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6651		5000 31	< 5	< 15	< 10	
6652	Check	5000 31	< 5	< 15	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By: [signature]

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ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140291

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
500031	<.3	2.72	4	33	44	1.3	<5	0.19	<.5	16	44	26	4.19	0.06	7	0.45

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
500031	173	1	0.04	149	550	8	0.03	<2	<5	<.01	<5	10	0.22	141	<2	42

Certified By: [signature]

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Friday, July 13, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 03-Jul-01
Date Completed : 13-Jul-01
Job # 200140320
Reference :
Sample #: 44 Rock

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7201		500034	< 5	46	< 10	
7202		500035	< 5	25	< 10	
7203		500036	< 5	41	14	
7204		500037	6	43	19	
7205		500038	< 5	54	36	
7206		500039	< 5	102	44	
7207		500040	< 5	35	14	
7208		500041	6	119	78	
7209		500042	< 5	44	19	
7210		500043	< 5	76	16	
7211		500044	< 5	62	30	
7212	Check	500044	< 5	54	30	
7213		500045	< 5	62	18	
7214		500046	< 5	39	< 10	
7215		500047	6	69	60	
7216		500048	< 5	57	< 10	
7217		500049	< 5	54	10	
7218		500050	< 5	< 15	13	
7219		500051	9	< 15	< 10	
7220		500151	< 5	< 15	< 10	
7221	Check	500151	< 5	< 15	< 10	
7223		500152	< 5	< 15	< 10	
7224		500153	< 5	20	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By: [signature]

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ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Friday, July 13, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
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Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 03-Jul-01
Date Completed : 13-Jul-01
Job # 200140320
Reference :
Sample #: 44 Rock

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7225		500154	<5	<15	<10	
7226		500155	<5	18	<10	
7227		500156	<5	26	<10	
7228		500157	<5	<15	<10	
7229		500158	<5	<15	<10	
7230		500159	<5	<15	<10	
7231		500160	<5	<15	<10	
7232	Check	500160	<5	<15	<10	
7234		500161	14	<15	<10	
7235		500105	<5	<15	<10	
7236		500106	<5	21	<10	
7237		500108	<5	26	<10	
7238		500109	<5	<15	<10	
7239		500110	<5	<15	<10	
7240		500111	35	118	286	
7241		500112	<5	26	22	
7242		500113	<5	28	<10	
7243	Check	500113	<5	49	<10	
7244		500114	9	<15	17	
7245		500115	<5	<15	34	
7246		500116	<5	<15	<10	
7247		500117	<5	<15	<10	
7248		500118	<5	<15	11	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By: [signature]

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ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Friday, July 13, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 03-Jul-01
Date Completed : 13-Jul-01
Job # 200140320
Reference :
Sample #: 44 Rock

Accurassay #	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7249	500119	<5	<15	17	
7678	500162	<5	21	11	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By: [signature]

AL907-0135-07/13/2001 05:58 PM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140320

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
500049	<.3	1.62	2	<5	30	0.8	<5	0.63	<.5	22	453	10	1.95	0.09	10	1.76
500050	<.3	1.93	<2	<5	39	0.7	<5	1.12	<.5	29	308	11	2.76	0.08	25	2.13
500051	<.3	1.31	<2	<5	47	0.5	<5	1.16	<.5	24	232	100	2.60	0.12	7	0.95
500151	<.3	1.59	<2	<5	69	1.1	<5	1.59	<.5	29	40	23	6.21	0.17	21	0.78
500152	<.3	1.41	<2	<5	80	0.2	<5	1.38	<.5	31	106	81	3.59	0.20	24	1.13
500153	<.3	2.80	3	<5	57	<.1	<5	2.67	<.5	25	51	88	4.54	0.13	22	0.62
500154	<.3	2.47	<2	<5	54	1.1	<5	1.77	<.5	27	132	58	3.29	0.15	18	0.76
500155	<.3	3.27	3	<5	51	1.4	<5	2.33	<.5	31	59	51	4.96	0.12	25	0.66
500156	<.3	1.19	<2	<5	28	1.1	<5	1.18	<.5	70	387	273	6.93	0.11	17	1.19
500157	0.3	1.46	<2	<5	45	1.0	<5	1.47	<.5	63	168	274	6.41	0.17	23	1.47
500158	<.3	1.56	<2	<5	105	<.1	<5	1.42	<.5	25	295	50	1.79	0.23	16	1.71
500159	0.3	2.23	<2	<5	60	1.3	<5	1.19	<.5	35	119	61	3.11	0.10	12	1.51
500160	<.3	2.78	<2	<5	65	1.1	<5	1.95	<.5	35	45	62	2.04	0.19	15	1.72
500161	0.9	3.41	2	<5	77	1.1	<5	2.45	<.5	43	77	1165	2.06	0.11	12	1.11
500105	0.4	3.14	3	<5	65	<.1	<5	2.31	<.5	31	77	47	2.10	0.11	8	1.30

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
500049	294	<1	0.04	132	630	3	<.01	10	<5	0.05	<5	100	0.07	20	<2	39
500050	401	<1	0.05	153	2463	3	<.01	7	<5	0.06	<5	120	0.22	66	<2	33
500051	278	<1	0.05	89	281	4	0.07	4	<5	0.06	<5	122	0.07	89	<2	23
500151	399	<1	0.16	145	2038	12	0.18	<2	<5	0.06	<5	65	0.20	209	<2	28
500152	401	<1	0.10	23	2605	10	0.19	<2	<5	0.06	<5	75	0.16	106	<2	7
500153	410	<1	0.51	98	4408	7	0.17	<2	<5	0.10	<5	245	0.12	150	<2	38
500154	356	<1	0.46	110	2277	6	0.15	3	<5	0.07	<5	168	0.10	84	<2	38
500155	331	<1	0.88	126	4711	11	0.13	<2	<5	0.08	<5	242	0.14	156	<2	12
500156	489	1	0.08	154	2005	12	0.78	9	<5	0.05	<5	38	0.20	218	<2	47
500157	534	<1	0.07	211	3225	17	0.55	4	<5	0.07	<5	65	0.21	218	<2	81
500158	332	<1	0.07	114	919	11	0.08	6	<5	0.07	<5	92	0.12	43	<2	74
500159	376	<1	0.05	119	738	6	0.40	2	<5	0.07	<5	302	0.16	70	<2	29
500160	335	2	0.08	69	499	3	0.10	<2	<5	0.08	<5	166	0.05	26	<2	27
500161	259	1	0.25	230	165	6	0.43	<2	<5	0.09	<5	323	0.05	26	<2	20
500105	323	<1	0.43	100	189	3	0.14	<2	<5	0.09	<5	323	0.04	27	<2	18

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140320

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
500106	0.5	2.62	<2	<5	147	<.1	<5	2.03	<.5	38	61	141	3.14	0.30	15	1.29
500108	<.3	1.32	<2	<5	51	1.1	<5	1.63	<.5	48	95	171	6.93	0.13	18	0.93
500109	<.3	1.46	<2	<5	117	2.7	<5	1.79	<.5	28	76	26	6.25	0.44	27	1.14
500110	<.3	2.50	<2	<5	66	1.2	<5	1.65	<.5	39	90	53	4.89	0.20	18	1.18
500111	0.9	3.89	3	<5	90	1.1	<5	2.55	<.5	30	94	602	1.57	0.10	12	0.77
500112	0.7	6.72	<2	<5	83	1.5	8	2.95	<.5	38	45	88	2.86	0.07	11	2.26
500113	0.7	5.32	3	<5	85	1.3	6	2.61	<.5	45	52	145	4.20	0.08	11	1.76
500114	0.8	6.40	4	<5	97	0.3	10	3.20	<.5	51	63	111	3.94	0.07	11	2.76
500115	0.3	1.52	<2	<5	108	0.6	<5	1.65	<.5	21	281	41	1.73	0.16	17	1.40
500116	0.3	3.51	<2	<5	79	0.9	<5	2.19	<.5	13	93	20	1.14	0.10	11	0.63
500117	0.4	3.66	2	<5	73	<.1	<5	2.19	<.5	37	133	50	2.13	0.07	11	1.17
500118	<.3	0.92	3	<5	100	<.1	<5	1.28	<.5	13	540	2	1.09	0.12	11	1.52
500119	0.6	2.30	<2	<5	122	0.7	<5	2.18	<.5	33	272	63	4.10	0.13	23	1.33
500162	0.5	5.35	3	<5	106	0.5	<5	2.82	<.5	25	61	66	2.16	0.25	14	1.15

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
500106	335	<1	0.16	103	423	9	0.23	<2	<5	0.07	<5	182	0.09	76	<2	36
500108	387	1	0.07	166	1694	12	0.33	3	<5	0.07	<5	104	0.22	297	<2	47
500109	509	<1	0.10	105	5344	13	0.22	<2	<5	0.08	<5	77	0.24	138	<2	73
500110	406	<1	0.55	134	1030	10	0.16	3	<5	0.06	<5	183	0.15	160	<2	32
500111	156	<1	0.45	243	238	8	0.38	<2	<5	0.10	<5	349	0.05	21	<2	19
500112	271	<1	0.58	139	238	4	0.06	<2	<5	0.10	<5	593	0.01	9	<2	59
500113	295	<1	0.51	170	319	7	0.08	3	<5	0.08	<5	497	0.04	69	<2	56
500114	523	2	0.61	196	304	10	0.06	<2	<5	0.09	<5	617	<.01	13	<2	53
500115	265	<1	0.17	57	956	<2	0.03	4	<5	0.07	<5	146	0.10	49	<2	2
500116	130	<1	0.44	33	253	<2	0.01	4	<5	0.07	<5	329	0.04	17	<2	11
500117	313	<1	0.44	81	264	4	0.18	3	<5	0.08	<5	347	0.07	43	<2	33
500118	175	<1	0.11	61	507	4	0.02	10	<5	0.07	<5	84	0.07	32	<2	23
500119	338	<1	0.32	128	2743	8	0.11	5	<5	0.09	<5	236	0.16	132	<2	19
500162	288	<1	1.00	86	548	9	0.11	<2	<5	0.09	<5	414	0.08	47	<2	16

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Thursday, July 19, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 12-Jul-01
Date Completed : 18-Jul-01
Job # 200140347
Reference :
Sample #: 9 Rock

Accurassay #	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb	Ag ppm	Co ppm	Cu ppm	Fe ppm	Ni ppm	Pb ppm	Zn ppm
8256	500163	< 5	< 15	< 10				220		194		
8257	500164	13	54	45				252		382		
8258	500165	< 5	37	< 10				47		105		
8259	500166	5	< 15	< 10				66		60		
8260	500167	25	101	116				1728		892		
8261	500168	< 5	58	< 10				57		134		
8262	500170	17	71	114				993		688		
8263	500171	6	55	< 10				97		148		
8264	500172	12	66	< 10				86		74		
8265 Check	500172	14	75	22				84		72		

PROCEDURE CODES: AL4APP, AL4Cu, AL4Ni

Certified By:

AL917-0135-07/19/2001 11:15 PM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 23, 2001

Job #200140347

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
500163	<0.3	1.82	<2	20	84	<0.1	<5	1.46	<0.5	43	123	246	4.53	0.14	3	1.02
500164	<0.3	1.31	<2	18	144	<0.1	<5	1.45	<0.5	40	595	279	3.94	0.17	11	1.19
500165	<0.3	4.59	<2	15	135	0.3	<5	2.10	<0.5	42	18	44	3.00	0.28	11	2.69
500166	0.5	7.41	<2	8	94	0.6	<5	4.02	<0.5	29	49	75	1.56	0.18	12	1.02
500167	1.0	0.51	<2	8	19	0.2	<5	1.16	<0.5	58	128	1760	1.95	0.07	7	0.51
500168	<0.3	3.00	<2	6	64	0.2	<5	2.08	<0.5	22	152	58	1.38	0.12	8	1.69
500170	<0.3	1.41	<2	11	19	<0.1	<5	0.83	<0.5	107	193	1028	2.64	0.04	4	1.80
500171	<0.3	1.16	<2	8	113	0.2	<5	1.58	<0.5	22	71	102	1.64	0.09	7	1.54
500172	0.3	1.01	<2	6	111	0.1	<5	1.10	<0.5	12	133	97	1.34	0.09	6	1.11

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
500163	290.6	<1	0.29	190	364	5	0.20	<2	<5	0.02	<5	196	0.10	174	<2	38
500164	407.9	<1	0.25	364	2737	8	0.26	6	<5	0.04	<5	128	0.16	110	<2	68
500165	547.6	1	0.22	84	313	7	0.09	<2	<5	0.04	<5	245	0.02	17	<2	48
500166	324.2	<1	1.26	44	540	4	0.21	<2	<5	0.05	<5	618	0.04	16	<2	22
500167	168.0	<1	0.05	913	129	3	0.72	<2	<5	0.02	<5	25	0.09	28	<2	19
500168	180.3	<1	0.19	110	261	<2	0.06	2	<5	0.04	<5	186	0.04	17	<2	15
500170	238.2	<1	0.05	688	187	2	1.34	<2	<5	0.03	<5	52	0.05	16	<2	33
500171	473.7	<1	0.12	123	150	<2	0.17	<2	<5	0.03	<5	77	0.11	51	<2	33
500172	243.1	<1	0.13	58	148	3	0.08	<2	<5	0.02	<5	35	0.04	28	<2	30

Certified By:

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Thursday, September 13, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 04-Sep-01
Date Completed : 12-Sep-01
Job # 200140479
Reference :
Sample #: 47 Rock

Accurassay		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
12934		59651	< 5	< 15	< 10	
12935		59652	6	< 15	23	
12936		59653	14	< 15	15	
12937		59654	< 5	< 15	< 10	
12938		59655	< 5	< 15	17	
12939		59656	< 5	< 15	17	
12940		59657	28	87	231	
12941		59658	< 5	< 15	38	
12942		59659	18	98	307	
12943		59660	< 5	< 15	< 10	
12944	Check	59660	< 5	< 15	< 10	
12945		59661	8	< 15	16	
12946		59662	31	< 15	< 10	
12947		59663	< 5	< 15	< 10	
12948		59664	< 5	< 15	< 10	
12949		59665	15	< 15	70	
12950		59666	< 5	< 15	11	
12951		59667	< 5	15	73	
12952		59668	22	28	36	
12953		59669	11	51	100	
12954	Check	59669	11	45	85	
12955		59670	< 5	< 15	22	
12956		59671	65	49	106	

PROCEDURE CODES: AL4APP

Certified By:

AL907-0135-09/13/2001 02:18 PM

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Certificate of Analysis

Thursday, September 13, 2001

Berland Resources
244 Camelot St., Suite 203
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P7A4B1
Ph#: (807) 344-5698
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Email

Date Received : 04-Sep-01
Date Completed : 12-Sep-01
Job # 200140479
Reference :
Sample #: 47 Rock

Accurassay	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
12957	59672	< 5	< 15	< 10	
12958	59673	6	< 15	< 10	
12959	59674	< 5	< 15	< 10	
12960	59675	9	< 15	11	
12961	59676	15	< 15	15	
12962	59677	9	< 15	16	
12963	59678	12	< 15	77	
12964 Check	59678	16	16	86	
12965	59679	31	65	246	
12966	59680	66	88	361	
12967	59681	51	82	288	
12968	59682	17	57	117	
12969	59683	9	< 15	< 10	
12970	49951	< 5	24	21	
12971	49952	11	24	32	
12972	49953	7	< 15	< 10	
12973	49954	13	< 15	< 10	
12974 Check	49954	21	< 15	< 10	
12975	49955	< 5	< 15	< 10	
12976	49956	< 5	< 15	10	
12977	49957	7	< 15	< 10	
12978	49958	< 5	< 15	12	
12979	49959	< 5	< 15	< 10	

PROCEDURE CODES: AL4APP

Certified By:

AL907-0135-09/13/2001 02:18 PM

ACCURASSAY LABORATORIES

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Certificate of Analysis

Thursday, September 13, 2001

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Ph#: (807) 344-5698
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Date Received : 04-Sep-01
Date Completed : 12-Sep-01
Job # 200140479
Reference :

Sample #: 47 Rock

Accurassay		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
12980		49960	< 5	< 15	13	
12981		49961	123	186	302	
12982		49962	6	< 15	< 10	
12983		49963	44	40	67	
12984	Check	49963	47	39	70	
12985		49964	< 5	< 15	< 10	
12986		49965	20	113	211	

PROCEDURE CODES: AL4APP

Certified By:

AL907-0135-09/13/2001 02:18 PM

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 23, 2001

Job #200140479

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
59651	<0.3	2.96	<2	18	56	<0.1	<5	1.74	<0.5	49	331	110	3.78	0.09	4	2.85
59652	0.3	4.30	<2	12	96	0.1	<5	2.58	<0.5	34	220	137	2.72	0.19	6	1.95
59653	0.5	5.49	<2	9	96	0.2	<5	3.16	<0.5	33	137	350	2.09	0.15	7	1.14
59654	<0.3	3.85	<2	10	78	0.3	<5	2.44	<0.5	29	234	101	2.52	0.15	5	1.71
59655	<0.3	3.35	<2	14	83	0.1	<5	2.10	<0.5	44	185	44	3.30	0.18	4	2.84
59656	<0.3	2.35	<2	15	80	0.1	<5	1.74	<0.5	44	197	55	3.58	0.19	5	2.81
59657	<0.3	2.65	<2	16	73	0.1	<5	1.69	<0.5	51	131	288	3.58	0.13	5	2.67
59658	<0.3	1.99	<2	8	39	<0.1	<5	1.57	<0.5	28	231	88	2.09	0.07	4	1.74
59659	0.5	4.27	<2	16	71	0.2	<5	2.37	<0.5	99	149	1100	3.60	0.14	5	1.40
59660	<0.3	3.96	<2	8	66	0.2	<5	2.32	<0.5	22	170	79	1.96	0.11	6	1.28
59661	<0.3	3.38	<2	13	103	0.1	<5	2.08	<0.5	35	603	109	3.11	0.18	6	1.72
59662	<0.3	2.46	<2	9	102	0.3	<5	2.23	<0.5	27	206	87	2.32	0.21	15	1.68
59663	<0.3	2.22	<2	10	144	0.2	<5	2.02	<0.5	31	354	82	2.59	0.33	9	2.32
59664	<0.3	1.22	<2	9	61	0.2	<5	1.35	<0.5	26	324	49	2.25	0.08	7	1.47
59665	<0.3	4.12	<2	7	111	0.2	<5	2.72	<0.5	26	103	202	1.79	0.14	9	0.91

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
59651	457.7	<1	0.25	206	269	5	0.08	5	<5	0.04	<5	237	0.04	42	<2	34
59652	361.6	<1	0.40	122	352	2	0.05	<2	<5	0.04	<5	347	0.05	49	<2	27
59653	206.6	<1	0.58	181	365	<2	0.23	2	<5	0.05	<5	496	0.04	31	<2	21
59654	341.4	<1	0.44	112	432	<2	0.06	<2	<5	0.05	<5	347	0.06	42	<2	17
59655	523.2	<1	0.35	140	463	3	0.03	3	<5	0.04	<5	301	0.05	35	<2	41
59656	500.9	<1	0.25	141	509	4	0.06	<2	<5	0.04	<5	180	0.06	45	<2	39
59657	461.2	<1	0.26	176	364	4	0.11	<2	<5	0.04	<5	233	0.04	38	<2	35
59658	352.9	<1	0.07	80	336	5	0.04	<2	<5	0.03	<5	99	0.07	43	<2	34
59659	284.3	<1	0.41	408	287	8	0.95	<2	<5	0.04	<5	330	0.04	39	<2	61
59660	222.6	<1	0.37	75	388	<2	0.05	<2	<5	0.03	<5	317	0.05	37	<2	19
59661	339.2	<1	0.36	139	402	3	0.05	4	<5	0.04	<5	291	0.07	70	<2	22
59662	320.9	<1	0.22	79	996	4	0.13	<2	<5	0.04	<5	161	0.18	67	<2	24
59663	384.8	<1	0.31	131	906	<2	0.07	2	<5	0.04	<5	192	0.22	79	<2	32
59664	330.2	<1	0.09	73	361	5	0.02	<2	<5	0.03	<5	92	0.14	74	<2	26
59665	214.2	<1	0.50	165	508	5	0.22	<2	<5	0.04	<5	394	0.04	29	<2	14

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 23, 2001

Job #200140479

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
59666	<0.3	2.03	<2	9	271	0.2	<5	1.80	<0.5	27	135	97	2.43	0.14	17	1.19
59667	<0.3	1.37	<2	16	212	0.4	<5	1.86	<0.5	30	125	100	3.85	0.15	35	1.21
59668	0.4	3.71	<2	7	108	0.2	<5	2.60	<0.5	27	122	360	1.91	0.14	13	1.04
59669	<0.3	1.93	<2	9	119	0.2	<5	2.02	<0.5	30	191	250	2.43	0.19	15	1.52
59670	<0.3	2.38	<2	7	87	0.1	<5	2.12	<0.5	22	189	176	1.90	0.08	16	0.71
59671	1.2	3.19	<2	16	86	0.1	<5	2.23	<0.5	107	125	2203	3.45	0.11	12	0.84
59672	<0.3	4.01	<2	10	81	0.2	<5	2.31	<0.5	26	95	142	2.48	0.07	7	0.71
59673	<0.3	4.17	<2	16	74	0.2	<5	2.09	<0.5	48	68	223	3.61	0.07	7	1.49
59674	0.6	5.77	<2	19	98	0.3	<5	2.80	<0.5	46	88	215	4.28	0.07	8	2.23
59675	0.7	7.26	<2	17	96	0.3	<5	3.37	<0.5	47	67	192	3.90	0.07	8	2.68
59676	0.5	5.62	<2	13	98	0.3	<5	3.00	<0.5	39	87	380	3.02	0.08	10	1.53
59677	<0.3	4.16	<2	9	88	0.2	<5	2.20	<0.5	30	72	226	2.39	0.10	6	1.08
59678	0.4	3.83	<2	5	87	0.2	<5	2.50	<0.5	20	98	271	1.59	0.10	9	0.78
59679	0.6	3.69	<2	6	128	0.2	<5	2.45	<0.5	31	115	519	1.63	0.15	10	0.84
59680	1.5	4.43	<2	7	73	0.2	<5	2.66	<0.5	35	108	1221	1.93	0.07	9	0.89

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
59666	358.2	<1	0.17	76	1401	7	0.19	2	<5	0.03	<5	161	0.12	59	<2	37
59667	479.3	<1	0.21	89	3289	7	0.12	<2	<5	0.04	<5	144	0.19	92	<2	37
59668	254.5	<1	0.40	210	1269	5	0.21	<2	<5	0.04	<5	348	0.06	32	<2	62
59669	332.5	<1	0.28	146	1729	8	0.17	<2	<5	0.05	<5	183	0.11	53	<2	19
59670	229.3	<1	0.31	117	2183	3	0.12	<2	<5	0.03	<5	262	0.04	36	<2	26
59671	214.4	<1	0.38	1071	1320	7	1.56	<2	<5	0.04	<5	309	0.04	31	<2	36
59672	209.9	<1	0.57	60	636	3	0.14	<2	<5	0.04	<5	415	0.08	72	<2	19
59673	306.6	<1	0.45	99	651	5	0.22	<2	<5	0.04	<5	383	0.06	75	<2	49
59674	459.3	<1	0.72	127	477	5	0.08	<2	<5	0.04	<5	610	0.03	53	<2	56
59675	471.6	<1	0.76	161	199	5	0.06	<2	<5	0.05	<5	718	0.02	25	<2	39
59676	310.1	<1	0.68	156	579	3	0.22	<2	<5	0.05	<5	559	0.03	40	<2	25
59677	208.2	<1	0.54	103	264	6	0.16	<2	<5	0.04	<5	364	0.05	47	<2	25
59678	190.2	<1	0.51	91	285	5	0.15	<2	<5	0.06	<5	358	0.04	30	<2	14
59679	184.4	<1	0.41	271	392	8	0.32	<2	<5	0.04	<5	321	0.06	23	<2	29
59680	191.4	<1	0.51	418	365	5	0.35	<2	<5	0.05	<5	400	0.04	19	<2	22

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 23, 2001

Job #200140479

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
59681	1.1	4.46	<2	5	77	0.2	<5	2.70	<0.5	26	97	976	1.55	0.07	7	0.71
59682	0.6	4.41	<2	<5	80	0.2	<5	2.69	<0.5	21	108	322	1.43	0.07	8	0.70
59683	0.6	5.57	<2	6	97	0.3	<5	3.15	<0.5	19	105	115	1.72	0.09	8	0.82
49951	<0.3	1.42	<2	<5	37	0.1	<5	1.66	<0.5	30	238	302	1.31	0.08	10	1.19
49952	0.4	2.45	<2	7	84	0.1	<5	1.79	<0.5	40	165	154	2.11	0.15	8	1.85
49953	<0.3	4.06	<2	9	107	0.2	<5	2.35	<0.5	41	140	124	2.37	0.15	8	2.28
49954	<0.3	2.24	2	8	65	<0.1	<5	1.67	<0.5	35	168	89	2.14	0.09	7	1.98
49955	<0.3	1.43	<2	9	71	<0.1	<5	1.39	<0.5	41	178	95	2.32	0.11	5	2.42
49956	<0.3	1.92	<2	9	85	<0.1	<5	1.54	<0.5	38	191	104	2.32	0.12	6	2.19
49957	<0.3	1.30	<2	14	81	<0.1	<5	1.19	<0.5	62	180	121	3.35	0.11	4	3.08
49958	<0.3	3.16	<2	6	52	0.1	<5	2.29	<0.5	28	128	93	1.67	0.08	9	1.46
49959	<0.3	3.61	<2	<5	74	0.2	<5	2.39	<0.5	20	114	87	1.23	0.11	8	1.08
49960	<0.3	1.70	<2	<5	41	<0.1	<5	1.21	<0.5	25	201	92	1.40	0.06	6	1.23
49961	1.4	2.96	<2	10	54	<0.1	<5	1.92	<0.5	59	142	1113	2.51	0.06	6	1.93
49962	<0.3	1.92	<2	11	58	<0.1	<5	1.05	<0.5	47	260	92	2.76	0.08	3	2.73

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
59681	145.3	<1	0.48	312	163	4	0.26	<2	<5	0.05	<5	401	0.03	15	<2	16
59682	147.9	<1	0.53	163	277	4	0.14	<2	<5	0.05	<5	414	0.04	17	<2	25
59683	159.4	<1	0.73	81	475	4	0.07	<2	<5	0.05	<5	581	0.03	33	<2	23
49951	199.3	<1	0.15	242	384	3	0.37	<2	<5	0.03	<5	76	0.06	28	<2	7
49952	244.8	<1	0.21	266	200	4	0.22	<2	<5	0.04	<5	172	0.04	20	<2	20
49953	295.6	<1	0.34	234	235	4	0.11	<2	<5	0.05	<5	307	0.04	18	<2	30
49954	285.3	<1	0.19	215	154	<2	0.17	<2	<5	0.03	<5	160	0.03	18	<2	33
49955	315.8	<1	0.17	279	185	4	0.15	2	<5	0.03	<5	117	0.04	21	<2	15
49956	332.6	<1	0.15	248	199	4	0.15	<2	<5	0.03	<5	96	0.03	21	<2	41
49957	378.6	<1	0.13	413	158	5	0.53	2	<5	0.04	<5	111	0.02	18	<2	21
49958	239.0	<1	0.26	129	231	4	0.13	<2	<5	0.04	<5	229	0.04	21	<2	33
49959	174.6	<1	0.29	109	221	3	0.08	<2	<5	0.04	<5	266	0.03	13	<2	16
49960	193.6	<1	0.15	131	197	3	0.08	<2	<5	0.02	<5	110	0.06	22	<2	13
49961	252.4	<1	0.24	628	108	8	0.52	2	<5	0.03	<5	227	0.02	14	<2	32
49962	340.7	<1	0.14	230	142	6	0.13	<2	<5	0.03	<5	78	0.06	26	<2	30

Certified By:

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
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PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 23, 2001

Job #200140479

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
49963	0.5	2.22	<2	12	71	<0.1	<5	1.41	<0.5	56	152	479	2.98	0.11	6	2.69
49964	<0.3	3.44	<2	<5	64	0.3	<5	2.30	<0.5	14	130	83	0.90	0.14	9	0.98
49965	<0.3	1.30	<2	8	30	<0.1	<5	1.27	<0.5	63	208	458	2.26	0.04	5	1.76

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
49963	347.3	<1	0.18	449	179	5	0.24	<2	<5	0.04	<5	153	0.03	18	<2	42
49964	182.5	<1	0.26	95	277	2	0.10	<2	<5	0.04	<5	212	0.02	13	<2	28
49965	276.6	<1	0.07	466	144	10	0.55	<2	<5	0.03	<5	43	0.04	18	<2	31

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1070 LITHIUM DRIVE, UNIT 2
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PHONE (807) 623-6448
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Certificate of Analysis

Thursday, October 04, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 26-Sep-01
Date Completed : 03-Oct-01
Job # 200140575
Reference :
Sample #: 69 Rock

Accurassay		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
15608		60301	9	24	15	
15609		60302	10	< 15	< 10	
15610		60303	8	< 15	15	
15611		60304	< 5	< 15	12	
15612		60305	6	19	11	
15613		60306	7	15	16	
15614		60307	8	< 15	20	
15615		60308	6	16	< 10	
15616		60309	7	< 15	17	
15617		60310	7	39	14	
15618	Check	60310	7	45	16	
15619		60311	10	< 15	< 10	
15620		60312	< 5	< 15	14	
15621		60313	< 5	18	< 10	
15622		60314	5	< 15	< 10	
15623		60315	< 5	< 15	< 10	
15624		60316	7	24	15	
15625		60317	8	18	< 10	
15626		60318	18	38	73	
15627		60319	7	22	21	
15628	Check	60319	11	44	31	
15629		60320	10	32	74	
15630		60321	9	< 15	29	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-10/04/2001 12:03 AM

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Certificate of Analysis

Thursday, October 04, 2001

Berland Resources
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Date Received : 26-Sep-01
Date Completed : 03-Oct-01
Job # 200140575
Reference :
Sample #: 69 Rock

Accurassay		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
15631		60322	< 5	< 15	< 10	
15632		60323	8	< 15	50	
15633		60324	8	< 15	59	
15634		60325	27	66	163	
15635		60326	8	< 15	13	
15636		60327	< 5	< 15	< 10	
15637		60328	6	< 15	14	
15638	Check	60328	10	< 15	< 10	
15639		60329	< 5	20	< 10	
15640		60330	< 5	< 15	12	
15641		60331	7	< 15	< 10	
15642		60332	6	< 15	< 10	
15643		60333	< 5	< 15	15	
15644		60334	< 5	< 15	< 10	
15645		60335	6	35	22	
15646		60336	6	< 15	12	
15647		60337	< 5	< 15	11	
15648		60338	< 5	16	16	
15649	Check	60338	< 5	19	13	
15650		60339	< 5	< 15	< 10	
15651		60340	< 5	< 15	< 10	
15652		60341	< 5	< 15	< 10	
15653		60342	< 5	< 15	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-10/04/2001 12:03 AM

ACCURASSAY LABORATORIES

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Certificate of Analysis

Thursday, October 04, 2001

Berland Resources
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Email

Date Received : 26-Sep-01
Date Completed : 03-Oct-01
Job # 200140575
Reference :
Sample #: 69 Rock

Accurassay		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
15654		60343	< 5	< 15	< 10	
15655		60344	< 5	< 15	< 10	
15656		60345	< 5	< 15	< 10	
15657		60346	< 5	< 15	10	
15658	Check	60346	< 5	< 15	16	
15659		60347	< 5	< 15	< 10	
15660		60348	< 5	< 15	12	
15661		60349	< 5	< 15	< 10	
15662		60350	< 5	< 15	11	
15663		60351	< 5	< 15	26	
15664		60352	< 5	40	47	
15665		60353	< 5	15	24	
15666		60354	< 5	< 15	11	
15667		60355	< 5	< 15	< 10	
15668	Check	60355	< 5	< 15	< 10	
15669		60356	56	94	433	
15670		60357	< 5	28	47	
15671		60358	43	< 15	22	
15672		60359	67	21	37	
15673		60360	< 5	< 15	11	
15674		60361	< 5	31	13	
15675		60362	< 5	< 15	< 10	
15676		60363	< 5	< 15	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-10/04/2001 12:03 AM

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

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THUNDER BAY, ONTARIO P7B 6G3
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Certificate of Analysis

Thursday, October 04, 2001

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Date Received : 26-Sep-01
Date Completed : 03-Oct-01
Job # 200140575
Reference :
Sample #: 69 Rock

Accurassay	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
15677	60364	69	38	16	
15678 Check	60364	67	25	15	
15679	60365	7	< 15	< 10	
15680	60366	< 5	< 15	< 10	
15681	60367	< 5	< 15	< 10	
15682	60368	< 5	< 15	< 10	
15683	60369	104	< 15	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-10/04/2001 12:03 AM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
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THUNDER BAY, ONTARIO P7B 6G3
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 15, 2001

Job #200140575

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
60301	<0.3	1.25	5	20	49	0.2	<5	1.88	<0.5	16	302	111	2.44	0.14	18	1.11
60302	<0.3	1.57	<2	19	32	0.3	<5	1.73	0.6	17	189	113	2.36	0.10	16	1.17
60303	<0.3	1.18	<2	13	50	<0.1	<5	1.34	<0.5	17	301	48	3.34	0.08	8	1.25
60304	<0.3	1.25	<2	15	56	<0.1	<5	1.36	<0.5	18	448	49	3.52	0.11	7	0.94
60305	<0.3	1.79	<2	14	46	<0.1	<5	1.79	<0.5	18	271	73	3.31	0.13	9	1.07
60306	<0.3	1.14	<2	13	40	<0.1	<5	1.44	<0.5	18	344	39	2.30	0.12	7	1.29
60307	<0.3	1.56	<2	16	49	0.1	<5	1.54	<0.5	19	271	72	2.71	0.14	11	1.10
60308	<0.3	1.88	<2	14	56	0.2	<5	1.45	<0.5	19	147	118	1.49	0.10	7	0.86
60309	<0.3	1.51	<2	16	30	0.2	<5	1.63	<0.5	17	258	71	1.37	0.10	9	1.03
60310	<0.3	1.42	<2	11	28	0.2	<5	1.47	<0.5	16	223	57	1.33	0.10	8	1.00
60311	<0.3	2.42	<2	21	38	0.2	<5	1.66	<0.5	17	80	81	1.93	0.11	7	1.02
60312	<0.3	1.63	<2	11	111	<0.1	<5	1.27	<0.5	12	270	75	1.34	0.25	7	0.83
60313	<0.3	1.00	<2	5	78	<0.1	<5	1.37	<0.5	16	249	57	1.39	0.13	8	1.16
60314	<0.3	1.93	<2	12	38	0.1	<5	2.67	<0.5	45	104	219	6.99	0.10	17	1.41
60315	<0.3	1.02	<2	8	36	<0.1	<5	1.11	<0.5	18	242	61	1.62	0.11	7	1.10

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
60301	311.9	<1	0.12	99	4707	6	0.13	<2	<5	0.03	<5	144	0.08	49	<2	32
60302	378.7	<1	0.07	78	4164	8	0.10	<2	<5	0.03	<5	129	0.10	45	3	396
60303	370.3	<1	0.08	71	2683	11	0.07	<2	<5	0.02	<5	94	0.07	56	<2	50
60304	297.3	<1	0.12	79	2402	8	0.05	2	<5	0.02	<5	166	0.08	92	<2	44
60305	297.6	<1	0.20	71	3730	6	0.09	<2	<5	0.03	<5	226	0.09	91	<2	49
60306	249.0	<1	0.09	85	1463	7	0.07	<2	<5	0.02	<5	110	0.07	33	<2	37
60307	320.7	<1	0.12	72	2590	7	0.10	<2	<5	0.03	<5	135	0.07	56	<2	138
60308	206.7	<1	0.16	80	694	8	0.17	<2	<5	0.02	<5	170	0.07	18	<2	18
60309	254.0	<1	0.08	113	1180	6	0.07	<2	<5	0.02	<5	83	0.10	19	<2	22
60310	263.6	<1	0.07	95	1142	2	0.07	<2	<5	0.02	<5	84	0.09	20	<2	33
60311	239.5	<1	0.19	68	1339	5	0.11	<2	<5	0.02	<5	212	0.06	30	<2	24
60312	172.0	<1	0.20	129	1235	3	0.08	<2	<5	0.01	<5	140	0.09	23	<2	18
60313	230.8	<1	0.08	98	1196	6	0.07	<2	<5	0.02	<5	66	0.11	23	<2	33
60314	488.4	<1	0.09	72	11269	11	0.18	<2	<5	0.03	<5	290	0.11	249	<2	57
60315	250.7	<1	0.05	88	1520	5	0.05	<2	<5	0.02	<5	83	0.09	33	<2	34

Certified By:

ACCURASSAY LABORATORIES
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 15, 2001

Job #200140575

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
60316	<0.3	1.75	<2	11	19	<0.1	<5	1.31	<0.5	23	219	21	1.78	0.07	5	2.20
60317	<0.3	2.80	<2	9	42	0.2	<5	2.28	<0.5	12	79	99	1.54	0.09	7	0.65
60318	0.4	2.82	<2	10	67	0.1	<5	2.12	<0.5	20	118	294	2.01	0.11	10	0.90
60319	<0.3	0.29	<2	9	21	<0.1	<5	2.26	<0.5	12	170	96	1.61	0.03	28	0.96
60320	<0.3	2.18	<2	9	38	0.1	<5	1.93	<0.5	14	203	118	1.63	0.07	10	1.00
60321	0.4	2.50	<2	8	51	0.2	<5	2.04	<0.5	14	106	161	1.92	0.09	11	0.84
60322	<0.3	1.86	<2	8	33	0.1	<5	1.66	<0.5	19	85	143	2.11	0.10	10	1.36
60323	<0.3	0.93	3	20	35	<0.1	<5	1.87	<0.5	19	185	52	3.19	0.04	21	1.21
60324	0.7	1.86	<2	<5	38	0.2	<5	1.73	<0.5	14	103	115	1.67	0.12	7	0.82
60325	0.4	2.20	<2	<5	36	<0.1	<5	1.77	<0.5	16	83	256	1.96	0.07	6	1.17
60326	<0.3	0.65	<2	<5	12	<0.1	<5	0.51	<0.5	7	255	8	0.75	0.02	8	0.70
60327	<0.3	1.50	<2	<5	16	<0.1	<5	0.57	<0.5	16	614	13	1.71	0.05	7	1.99
60328	<0.3	2.86	<2	<5	62	0.2	<5	2.03	<0.5	16	174	67	2.07	0.15	7	0.90
60329	<0.3	2.44	<2	6	52	0.1	<5	1.79	<0.5	16	270	41	2.59	0.14	7	0.95
60330	<0.3	3.05	<2	<5	83	0.1	<5	2.09	<0.5	14	187	100	1.30	0.21	8	0.89

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
60316	356.0	<1	0.04	105	353	3	0.03	<2	<5	0.02	<5	69	0.05	17	3	44
60317	172.0	<1	0.28	51	1131	5	0.14	<2	<5	0.03	<5	286	0.04	30	<2	27
60318	229.7	<1	0.23	184	2399	8	0.23	<2	<5	0.03	<5	269	0.04	25	<2	52
60319	268.1	<1	0.07	116	8879	4	0.10	<2	<5	0.03	<5	73	0.03	20	<2	19
60320	240.5	<1	0.17	95	3026	5	0.12	<2	<5	0.02	<5	187	0.03	12	<2	34
60321	211.8	<1	0.25	91	2568	6	0.15	<2	<5	0.03	<5	267	0.05	33	<2	28
60322	303.1	<1	0.11	91	3672	8	0.15	<2	<5	0.03	<5	117	0.05	29	<2	44
60323	342.9	<1	0.08	80	8430	10	0.08	<2	<5	0.03	<5	89	0.05	32	<2	33
60324	232.2	<1	0.11	69	823	5	0.13	<2	<5	0.02	<5	128	0.05	33	<2	43
60325	205.2	<1	0.17	124	1145	5	0.10	<2	<5	0.03	<5	198	0.03	33	<2	20
60326	138.3	<1	0.03	52	782	4	<0.01	<2	<5	0.02	<5	55	0.07	10	<2	22
60327	307.6	<1	0.03	163	840	4	0.01	<2	<5	0.02	<5	38	0.10	18	<2	23
60328	239.0	<1	0.23	79	640	7	0.16	<2	<5	0.03	<5	269	0.06	46	<2	15
60329	250.4	<1	0.22	81	638	5	0.06	<2	<5	0.02	<5	231	0.06	59	<2	34
60330	169.4	<1	0.24	103	997	4	0.13	<2	<5	0.02	<5	274	0.06	19	<2	33

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 15, 2001

Job #200140575

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
60331	0.5	5.37	<2	<5	64	0.2	<5	3.12	<0.5	17	96	109	1.43	0.17	7	1.21
60332	<0.3	1.28	<2	<5	88	<0.1	<5	1.43	<0.5	13	319	66	1.51	0.20	7	0.99
60333	<0.3	3.63	<2	<5	58	0.3	<5	2.31	<0.5	21	50	59	1.95	0.13	6	1.17
60334	<0.3	3.90	3	<5	119	0.3	<5	2.38	<0.5	26	69	57	2.08	0.11	8	1.23
60335	<0.3	0.94	<2	<5	35	0.1	<5	1.25	<0.5	13	223	18	1.76	0.07	11	1.39
60336	<0.3	0.84	<2	<5	80	<0.1	<5	0.86	<0.5	20	430	10	1.96	0.13	6	2.62
60337	<0.3	1.67	<2	<5	136	0.1	<5	1.33	<0.5	16	145	39	3.00	0.29	12	0.95
60338	<0.3	0.57	<2	16	46	<0.1	<5	0.71	<0.5	33	642	11	2.94	0.06	2	4.13
60339	<0.3	2.99	<2	<5	54	0.2	<5	2.27	<0.5	20	64	91	1.89	0.11	7	0.86
60340	<0.3	1.94	2	<5	51	0.1	<5	1.81	<0.5	18	167	60	1.55	0.12	7	1.60
60341	0.4	4.44	<2	<5	96	0.2	<5	2.60	<0.5	23	48	81	2.14	0.14	8	1.01
60342	<0.3	2.09	<2	<5	43	0.2	<5	1.48	<0.5	26	102	44	2.91	0.17	10	1.88
60343	<0.3	1.91	<2	<5	29	<0.1	<5	1.47	<0.5	29	120	50	2.90	0.13	6	1.71
60344	<0.3	1.75	<2	<5	35	0.2	<5	1.47	<0.5	24	139	83	3.03	0.25	7	1.37
60345	0.4	1.49	<2	5	36	0.2	<5	1.43	<0.5	25	146	118	3.19	0.21	17	1.25

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
60331	202.7	<1	0.39	98	529	5	0.17	<2	<5	0.03	<5	453	0.03	11	<2	73
60332	213.5	<1	0.14	113	1230	5	0.08	<2	<5	0.02	<5	98	0.08	23	<2	28
60333	296.7	<1	0.28	45	389	5	0.18	<2	<5	0.03	<5	303	0.05	27	<2	41
60334	307.7	<1	0.32	47	359	6	0.23	<2	<5	0.02	<5	334	0.05	27	<2	37
60335	245.0	<1	0.05	82	1568	4	0.06	<2	<5	0.02	<5	57	0.06	26	<2	19
60336	309.9	<1	0.08	241	435	11	0.05	<2	<5	0.02	<5	77	0.04	17	<2	33
60337	227.0	<1	0.21	52	2206	7	0.11	<2	<5	0.02	<5	164	0.10	99	<2	51
60338	465.0	<1	0.05	343	238	7	0.05	<2	<5	0.03	<5	36	0.03	23	<2	41
60339	284.8	<1	0.26	46	445	5	0.20	<2	<5	0.03	<5	249	0.05	35	<2	34
60340	260.9	<1	0.18	135	403	4	0.10	<2	<5	0.03	<5	168	0.06	22	<2	59
60341	249.5	<1	0.45	53	363	4	0.22	<2	<5	0.03	<5	411	0.04	28	<2	24
60342	303.2	<1	0.11	92	674	5	0.13	<2	<5	0.02	<5	110	0.07	42	<2	48
60343	283.4	<1	0.10	98	494	6	0.22	<2	<5	0.02	<5	113	0.07	44	<2	24
60344	287.3	<1	0.08	86	282	11	0.13	<2	<5	0.03	<5	100	0.09	80	<2	42
60345	336.1	<1	0.08	69	476	13	0.11	<2	<5	0.03	<5	81	0.16	96	<2	41

Certified By:

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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 15, 2001

Job #200140575

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
60346	<0.3	1.19	<2	<5	45	0.4	<5	1.41	<0.5	13	151	70	1.27	0.24	17	0.77
60347	<0.3	1.60	2	<5	32	0.4	<5	1.65	<0.5	13	127	108	1.17	0.17	11	0.68
60348	<0.3	0.99	<2	<5	35	0.4	<5	1.09	<0.5	12	183	76	1.26	0.13	14	0.84
60349	0.7	5.19	<2	<5	60	0.3	<5	3.14	<0.5	19	127	121	1.59	0.14	8	0.86
60350	<0.3	4.56	<2	<5	66	0.2	<5	2.68	<0.5	20	162	101	2.22	0.18	7	1.40
60351	0.4	4.48	<2	<5	69	0.2	<5	2.46	<0.5	25	159	124	2.66	0.19	7	1.86
60352	<0.3	4.47	<2	<5	63	0.1	<5	2.79	<0.5	24	199	122	2.69	0.15	7	2.18
60353	<0.3	2.31	<2	7	63	<0.1	<5	1.68	<0.5	31	251	79	3.45	0.18	5	2.78
60354	<0.3	4.43	<2	<5	40	0.2	<5	2.21	<0.5	27	420	38	2.99	0.07	6	2.02
60355	0.3	3.43	<2	<5	59	0.1	<5	2.36	<0.5	23	379	67	2.75	0.16	5	1.90
60356	0.8	2.10	<2	<5	49	<0.1	<5	1.39	<0.5	40	138	650	3.11	0.12	5	2.05
60357	<0.3	1.77	<2	<5	95	<0.1	<5	1.63	<0.5	16	167	96	1.45	0.17	5	1.00
60358	<0.3	2.97	<2	<5	54	0.2	<5	2.46	<0.5	24	138	62	1.91	0.17	6	1.61
60359	<0.3	3.63	<2	<5	117	0.1	<5	2.31	<0.5	18	148	106	2.18	0.17	6	1.45
60360	0.5	5.06	<2	<5	82	0.2	<5	3.09	<0.5	15	97	47	1.82	0.17	7	1.24

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
60346	197.4	<1	0.10	40	1603	12	0.07	<2	<5	0.02	<5	92	0.11	26	<2	13
60347	197.5	<1	0.13	42	864	9	0.08	<2	<5	0.02	<5	114	0.08	26	<2	21
60348	222.4	<1	0.06	51	372	11	0.04	<2	<5	0.02	<5	46	0.08	24	<2	19
60349	181.7	<1	0.41	95	390	4	0.11	<2	<5	0.03	<5	449	0.04	24	<2	19
60350	275.2	<1	0.35	109	436	4	0.06	<2	<5	0.04	<5	389	0.05	31	<2	23
60351	323.1	<1	0.32	127	570	4	0.08	<2	<5	0.03	<5	367	0.06	32	<2	20
60352	399.0	<1	0.32	136	461	3	0.08	<2	<5	0.04	<5	417	0.05	27	<2	36
60353	510.9	<1	0.18	156	665	4	0.08	<2	<5	0.05	<5	231	0.05	37	<2	34
60354	411.5	<1	0.29	106	388	5	0.01	<2	<5	0.03	<5	340	0.04	35	<2	27
60355	388.1	<1	0.26	107	410	3	0.07	<2	<5	0.03	<5	313	0.04	37	<2	21
60356	354.7	<1	0.14	232	266	6	0.24	<2	<5	0.02	<5	177	0.04	31	<2	31
60357	232.7	<1	0.09	70	320	9	0.09	<2	<5	0.03	<5	97	0.05	30	<2	27
60358	328.8	<1	0.11	80	500	5	0.07	<2	<5	0.03	<5	136	0.05	32	<2	37
60359	273.6	<1	0.24	87	342	7	0.07	<2	<5	0.03	<5	303	0.04	32	<2	25
60360	197.9	<1	0.36	55	492	3	0.08	<2	<5	0.03	<5	380	0.03	30	<2	26

Certified By: ____________

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 15, 2001

Job #200140575

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
60361	<0.3	2.21	<2	<5	183	0.1	<5	1.91	<0.5	15	244	47	2.08	0.33	12	1.19
60362	<0.3	2.22	<2	20	149	0.3	<5	2.29	<0.5	26	109	94	4.37	0.22	20	1.74
60363	<0.3	2.42	<2	10	137	0.4	<5	2.27	<0.5	25	112	74	3.65	0.27	18	1.88
60364	0.5	4.58	<2	<5	48	0.1	<5	2.94	<0.5	20	85	180	2.03	0.13	7	1.58
60365	<0.3	4.39	<2	<5	61	0.2	<5	3.09	<0.5	15	138	92	1.73	0.09	6	1.18
60366	0.3	4.73	<2	<5	50	0.2	<5	2.95	<0.5	15	84	79	1.76	0.10	7	1.18
60367	0.8	4.65	<2	<5	72	0.2	<5	3.12	<0.5	16	75	140	1.63	0.11	7	1.22
60368	<0.3	2.08	<2	<5	218	0.1	<5	1.84	<0.5	21	313	89	2.59	0.51	10	2.14
60369	0.5	5.12	<2	<5	77	0.2	<5	3.38	<0.5	18	66	103	2.59	0.14	11	1.05

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
60361	197.4	<1	0.21	75	1888	5	0.03	<2	<5	0.03	<5	307	0.15	70	<2	23
60362	505.4	<1	0.23	67	4997	10	0.23	<2	<5	0.04	<5	196	0.22	112	<2	61
60363	510.7	<1	0.23	72	4146	7	0.24	<2	<5	0.03	<5	186	0.21	89	<2	55
60364	282.3	<1	0.23	108	239	4	0.13	<2	<5	0.03	<5	336	0.02	21	<2	28
60365	220.6	<1	0.26	69	303	4	0.10	<2	<5	0.03	<5	351	0.03	23	<2	21
60366	229.7	<1	0.29	60	220	3	0.07	<2	<5	0.03	<5	381	0.03	24	<2	29
60367	232.2	<1	0.30	77	327	<2	0.10	<2	<5	0.03	<5	391	0.04	26	<2	15
60368	330.5	<1	0.22	139	1355	5	0.06	<2	<5	0.03	<5	245	0.19	64	<2	29
60369	270.1	<1	0.38	55	1739	4	0.15	<2	<5	0.04	<5	523	0.06	49	<2	22

Certified By: ____

APPENDIX III

Assay Certificates of Analysis

Soil Samples

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
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Certificate of Analysis

October 30, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email:

Date Received : 25-Jun-01
Date Completed : 11-Jul-01
Job # 200140293
Reference : Roaring River
Sample #: 127 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6656		L100N-91E+50	< 5	< 15	< 10	
6657		L100N-91E+75	< 5	< 15	< 10	
6658		L100N-92E+00	< 5	< 15	< 10	
6659		L100N-92E+25	5	< 15	< 10	
6660		L100N-92E+50	< 5	< 15	< 10	
6661		L100N-92E+75	< 5	< 15	< 10	
6662		L100N-93E+00	< 5	< 15	< 10	
6663		L100N-93E+25	< 5	< 15	< 10	
6664		L100N-93E+50	< 5	< 15	< 10	
6665		L100N-93E+75	< 5	< 15	< 10	
6666	Check	L100N-93E+75	< 5	< 15	< 10	
6667		L100N-94E+00	< 5	< 15	< 10	
6668		L100N-94E+25	< 5	< 15	< 10	
6669		L100N-95E+00		No Sample		
6670		L100N-95E+25	12	< 15	< 10	
6671		L100N-95E+50	< 5	< 15	< 10	
6672		L100N-95E+75	< 5	< 15	< 10	
6673		L100N-96E+00	< 5	< 15	< 10	
6674		L100N-96E+25	7	< 15	< 10	
6675		L100N-96E+50	< 5	< 15	< 10	
6676	Check	L100N-96E+50	< 5	< 15	< 10	
6677		L100N-96E+75	< 5	< 15	< 10	
6678		L100N-97E+00	< 5	< 15	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-10/30/2001 09:45 AM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Certificate of Analysis

October 30, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email:

Date Received : 25-Jun-01
Date Completed : 11-Jul-01
Job # 200140293
Reference : Roaring River
Sample #: 127 Soil

Accurassay #	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6679	L100N-97E+25	<5	<15	<10	
6680	L100N-97E+50	<5	<15	<10	
6682	L98N-91E+00	<5	<15	<10	
6683	L98N-91E+25	<5	<15	<10	
6684	L98N-91E+50	<5	<15	<10	
6685	L98N-91E+75	<5	<15	<10	
6686	L98N-92E+00	<5	<15	<10	
6687 Check	L98N-92E+00	<5	<15	<10	
6688	L98N-92E+25	<5	23	<10	
6689	L98N-92E+50	<5	19	<10	
6690	L98N-92E+75	<5	<15	<10	
6691	L98N-93E+00	<5	15	<10	
6692	L98N-93E+25	<5	<15	<10	
6693	L98N-93E+50	15	19	<10	
6694	L98N-93E+75	<5	<15	<10	
6695	L98N-94E+00	<5	<15	<10	
6696	L98N-94E+25	17	15	<10	
6697 Check	L98N-94E+25	77	<15	<10	
6698	L98N-94E+50	<5	18	<10	
6699	L98N-94E+75	7	<15	<10	
6700	L98N-95E+25	<5	<15	<10	
6701	L98N-95E+50	<5	<15	<10	
6702	L98N-95E+75	<5	29	<10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-10/30/2001 09:45 AM

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Date Received : 25-Jun-01
Date Completed : 11-Jul-01
Job # 200140293
Reference : Roaring River
Sample #: 127 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6703		L98N-96E+00	<5	<15	<10	
6704		L98N-96E+25	<5	26	<10	
6705		L98N-96E+50	<5	<15	<10	
6706		L98N-96E+75	<5	<15	<10	
6707	Check	L98N-96E+75	<5	<15	<10	
6708		L98N-97E+00	<5	21	<10	
6709		L98N-97E+25	7	<15	<10	
6710		L98N-97E+50	9	<15	15	
6711		L98N-97E+75	8	<15	<10	
6712		L98N-98E+00	<5	<15	<10	
6713		L98N-98E+25	<5	<15	<10	
6714		L98N-98E+50	<5	<15	<10	
6715		L98N-98E+75	11	<15	<10	
6716		L98N-99E+00	<5	<15	<10	
6717	Check	L98N-99E+00	<5	<15	<10	
6718		L98N-99E+25	<5	<15	<10	
6719		L98N-99E+50	10	<15	<10	
6720		L98N-99E+75	<5	<15	<10	
6721		L98N-100E+00	<5	<15	<10	
6722		L98N-100E+25	9	<15	<10	
6723		L98N-100E+50	<5	<15	23	
6724		L98N-100E+75	15	<15	<10	
6725		L80N-98E+00	5	<15	<10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-10/30/2001 09:45 AM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

October 30, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email:

Date Received : 25-Jun-01
Date Completed : 11-Jul-01
Job # 200140293
Reference : Roaring River
Sample #: 127 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6726		L80N-98E+25	5	<15	<10	
6727	Check	L80N-98E+25	<5	<15	<10	
6728		L80N-98E+50	<5	<15	<10	
6729		L80N-98E+75	<5	<15	<10	
6730		L80N-99E+00	<5	<15	<10	
6731		L80N-99E+25		No Sample		
6732		L80N-100E+00		No Sample		
6733		L80N-100E+50	<5	<15	<10	
6734		L80N-100E+75	<5	<15	<10	
6735		L80N-101E+00	<5	<15	10	
6736		L78N-91E+00		No Sample		
6737	Check	L78N-91E+00		No Sample		
6738		L78N-92E+00	<5	<15	<10	
6739		L78N-92E+25	<5	16	16	
6740		L78N-92E+75	<5	<15	<10	
6741		L78N-93E+00	<5	<15	<10	
6742		L78N-93E+25	<5	<15	<10	
6743		L78N-93E+50	6	<15	<10	
6744		L78N-93E+75	<5	<15	<10	
6745		L78N-94E+00		No Sample		
6746		L78N-94E+50	<5	<15	<10	
6747	Check	L78N-94E+50	5	<15	<10	
6748		L78N-94E+75		No Sample		

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

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Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6749		L78N-95E+00		No Sample		
6750		L78N-96E+00		No Sample		
6751		L78N-96E+50	<5	<15	<10	
6752		L78N-96E+75	<5	<15	<10	
6753		L78N-97E+00	<5	<15	<10	
6754		L78N-97E+25	<5	<15	<10	
6755		L78N-98E+00	<5	<15	<10	
6756		L78N-98E+25	<5	<15	<10	
6757	Check	L78N-98E+25		No Sample		
6758		L78N-98E+50	9	<15	<10	
6759		L78N-98E+75	11	<15	<10	
6760		L78N-99E+00	<5	<15	<10	
6761		L78N-99E+25	16	<15	<10	
6762		L78N-99E+50	10	<15	<10	
6763		L78N-99E+75	<5	<15	<10	
6764		L78N-100E+00		No Sample		
6765		L78N-100E+50	5	<15	<10	
6766		L78N-100E+75	<5	<15	<10	
6767	Check	L78N-100E+75	<5	<15	<10	
6768		L78N-101E+00	27	<15	<10	
6769		L72N-93E+50	<5	<15	<10	
6770		L72N-93E+75	<5	<15	<10	
6771		L72N-94E+00	5	<15	<10	

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Sample #: 127 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6772		L72N-94E+25	<5	<15	<10	
6773		L72N-94E+50	23	<15	<10	
6774		L72N-94E+75	11	<15	<10	
6775		L72N-95E+00	9	<15	<10	
6776		L72N-95E+25	8	<15	<10	
6777	Check	L72N-95E+25	11	<15	<10	
6778		L72N-95E+50	12	<15	<10	
6779		L72N-95E+75	13	<15	<10	
6780		L72N-96E+00	7	<15	<10	
6781		L72N-96E+25	10	<15	<10	
6782		L72N-96E+50	28	47	<10	
6783		L72N-96E+75	6	<15	<10	
6784		L72N-97E+75	10	<15	<10	
6785		L72N-98E+50	<5	<15	<10	
6786		L72N-99E+00	<5	<15	21	
6787	Check	L72N-99E+00	<5	<15	<10	
6788		L72N-99E+75	<5	<15	24	
6789		L72N-100E+00	<5	<15	12	
6790		L72N-100E+25	<5	<15	15	
6791		L72N-100E+50	7	<15	<10	
6792		L72N-100E+75	<5	<15	16	
6793		MEG-1	<5	<15	<10	
6794		MEG-2	13	<15	10	

PROCEDURE CODES: AL4APP, AL4ICP

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Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
6795		L1	<5	<15	23	
6796		L2	7	<15	23	
6797	Check	L2	7	<15	29	
6900		L100N-91E+25	7	<15	19	
6921		L72N-95E+75 Extra	19	<15	12	
6922		L78N-95+75ER	8	<15	13	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

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THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L100N-91E+50	<.3	1.32	7	22	38	0.8	<5	0.30	<.5	11	29	28	3.27	0.06	7	0.46
L100N-91E+75	<.3	2.22	3	11	27	0.9	<5	0.18	<.5	8	25	8	2.42	0.03	3	0.28
L100N-92E+00	<.3	1.66	4	<5	23	0.6	<5	0.20	<.5	8	21	10	1.94	0.02	3	0.29
L100N-92E+25	<.3	1.43	3	<5	20	0.3	<5	0.23	<.5	8	17	8	1.66	0.02	3	0.25
L100N-92E+50	<.3	2.06	5	7	27	0.7	<5	0.18	<.5	8	25	23	2.07	0.03	4	0.28
L100N-92E+75	<.3	1.61	3	26	32	1.1	<5	0.24	<.5	10	32	16	3.69	0.04	6	0.39
L100N-93E+00	<.3	1.26	7	35	29	1.0	<5	0.14	<.5	8	29	10	4.22	0.04	5	0.28
L100N-93E+25	<.3	1.55	7	30	31	1.0	<5	0.16	<.5	10	32	20	3.86	0.05	5	0.33
L100N-93E+50	<.3	1.64	6	12	24	0.9	<5	0.17	<.5	10	25	10	2.61	0.03	3	0.24
L100N-93E+75	<.3	2.15	4	23	39	1.2	<5	0.16	<.5	10	30	14	3.29	0.04	5	0.30
L100N-94E+00	<.3	2.04	5	19	37	1.1	<5	0.17	<.5	11	30	16	3.09	0.04	5	0.35
L100N-94E+25	<.3	2.80	6	24	34	1.2	<5	0.20	<.5	13	44	18	3.36	0.03	4	0.37
L100N-95E+25	<.3	1.47	4	10	36	0.8	<5	0.23	<.5	12	23	13	2.38	0.02	7	0.36
L100N-95E+50	<.3	2.39	4	24	60	1.2	<5	0.13	<.5	10	30	13	3.33	0.04	5	0.32
L100N-95E+75	<.3	1.54	5	18	40	1.0	<5	0.18	<.5	8	27	16	3.12	0.04	4	0.24

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L100N-91E+50	154	<1	0.04	120	368	6	<.01	<2	<5	<.01	<5	14	0.21	114	<2	32
L100N-91E+75	92	<1	0.03	84	570	7	0.01	<2	<5	<.01	<5	8	0.12	75	<2	38
L100N-92E+00	95	<1	0.04	80	395	<2	<.01	<2	<5	<.01	<5	8	0.12	70	<2	33
L100N-92E+25	89	<1	0.03	68	579	2	<.01	<2	<5	<.01	<5	8	0.11	60	<2	44
L100N-92E+50	106	<1	0.04	80	501	<2	0.01	<2	<5	<.01	<5	9	0.13	69	<2	35
L100N-92E+75	132	<1	0.03	127	514	3	<.01	<2	<5	<.01	<5	12	0.20	115	<2	13
L100N-93E+00	101	<1	0.03	110	436	3	<.01	<2	<5	<.01	<5	9	0.21	151	3	63
L100N-93E+25	145	<1	0.03	126	621	7	<.01	<2	<5	<.01	<5	10	0.23	138	<2	60
L100N-93E+50	107	<1	0.03	100	519	4	0.01	<2	<5	<.01	<5	8	0.15	98	<2	48
L100N-93E+75	132	<1	0.03	119	563	9	<.01	<2	<5	<.01	<5	9	0.17	107	<2	47
L100N-94E+00	127	1	0.03	120	448	5	<.01	<2	<5	<.01	<5	9	0.18	106	<2	45
L100N-94E+25	112	<1	0.03	120	263	4	0.02	<2	<5	<.01	<5	11	0.19	105	<2	41
L100N-95E+25	115	<1	0.04	90	219	4	<.01	<2	<5	<.01	<5	10	0.17	85	<2	54
L100N-95E+50	109	1	0.03	119	458	5	<.01	<2	<5	<.01	<5	9	0.17	102	<2	57
L100N-95E+75	131	<1	0.03	109	484	4	<.01	<2	<5	<.01	5	9	0.17	116	<2	41

Certified By: [signature]

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L100N-96E+00	<.3	2.50	3	29	42	1.2	<5	0.16	<.5	12	74	17	3.79	0.04	6	0.35
L100N-96E+25	<.3	2.11	4	25	48	0.9	<5	0.13	<.5	7	32	12	3.56	0.03	5	0.23
L100N-96E+50	<.3	2.09	9	16	44	0.9	<5	0.15	<.5	7	33	16	2.94	0.03	5	0.27
L100N-96E+75	<.3	2.24	8	27	54	1.1	<5	0.20	<.5	10	31	15	3.67	0.04	6	0.28
L100N-97E+00	<.3	1.22	6	11	41	0.5	<5	0.17	<.5	5	24	10	2.52	0.03	4	0.18
L100N-97E+25	<.3	1.91	5	25	44	1.0	<5	0.13	<.5	10	31	14	3.50	0.05	5	0.30
L100N-97E+50	<.3	1.25	4	<5	26	0.4	<5	0.20	<.5	8	20	12	1.96	0.03	4	0.28
L98N-91E+00	<.3	0.78	4	<5	50	0.5	<5	0.23	<.5	4	13	16	1.26	0.02	8	0.19
L98N-91E+25	<.3	0.68	5	<5	23	0.3	<5	0.29	<.5	4	12	8	1.29	0.02	3	0.20
L98N-91E+50	<.3	1.24	4	9	30	0.4	<5	0.22	<.5	4	18	7	2.39	0.02	3	0.17
L98N-91E+75	<.3	0.52	4	<5	34	0.3	<5	0.24	<.5	4	14	17	1.07	0.04	4	0.24
L98N-92E+00	<.3	0.67	5	<5	21	0.4	<5	0.24	<.5	4	15	20	1.09	0.02	5	0.22
L98N-92E+25	<.3	1.31	5	26	38	1.0	<5	0.16	<.5	8	35	15	3.64	0.04	4	0.28
L98N-92E+50	<.3	1.48	4	<5	64	0.6	<5	0.17	<.5	9	20	18	1.90	0.03	6	0.24
L98N-92E+75	<.3	0.81	6	7	25	0.5	<5	0.19	<.5	6	19	7	2.25	0.03	1	0.24

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L100N-96E+00	135	<1	0.02	143	862	5	0.01	<2	<5	<.01	<5	9	0.17	117	<2	53
L100N-96E+25	83	<1	0.02	118	506	9	0.01	<2	<5	<.01	<5	10	0.17	108	<2	56
L100N-96E+50	95	<1	0.03	108	423	4	0.01	<2	<5	<.01	<5	10	0.16	98	<2	35
L100N-96E+75	127	2	0.03	125	662	7	0.02	<2	<5	<.01	<5	11	0.17	109	<2	53
L100N-97E+00	121	<1	0.03	83	601	5	<.01	<2	<5	<.01	<5	11	0.15	86	<2	49
L100N-97E+25	131	<1	0.03	118	493	5	0.01	<2	<5	<.01	<5	9	0.20	121	<2	56
L100N-97E+50	109	<1	0.04	83	249	4	<.01	<2	<5	<.01	<5	8	0.13	74	<2	12
L98N-91E+00	63	<1	0.04	55	<100	3	<.01	<2	<5	<.01	<5	10	0.11	51	<2	13
L98N-91E+25	72	<1	0.04	31	437	3	<.01	<2	<5	<.01	<5	9	0.11	56	<2	32
L98N-91E+50	61	<1	0.04	83	287	3	<.01	<2	<5	<.01	<5	11	0.11	71	<2	32
L98N-91E+75	82	<1	0.03	36	111	8	<.01	<2	<5	<.01	<5	12	0.15	49	<2	30
L98N-92E+00	69	<1	0.04	45	330	3	<.01	<2	<5	<.01	<5	9	0.12	46	<2	44
L98N-92E+25	138	<1	0.02	80	423	7	<.01	<2	<5	<.01	<5	11	0.20	114	<2	74
L98N-92E+50	116	<1	0.03	75	203	3	<.01	<2	<5	<.01	<5	9	0.13	74	<2	47
L98N-92E+75	113	<1	0.03	34	393	<2	<.01	<2	<5	<.01	<5	8	0.12	79	<2	51

Certified By: Greg Kaymowicz

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July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L98N-93E+00	<.3	0.79	6	8	32	0.5	<5	0.20	<.5	6	23	16	2.35	0.05	4	0.27
L98N-93E+25	<.3	1.67	2	30	35	0.8	<5	0.20	<.5	9	31	12	4.00	0.04	4	0.33
L98N-93E+50	<.3	2.29	6	29	40	1.3	<5	0.20	<.5	12	37	25	3.89	0.06	5	0.46
L98N-93E+75	<.3	1.68	4	9	24	0.4	<5	0.17	<.5	9	25	13	2.43	0.02	2	0.23
L98N-94E+00	<.3	1.69	3	20	42	0.8	<5	0.15	<.5	9	30	17	3.30	0.04	3	0.34
L98N-94E+25	<.3	1.71	5	27	44	1.0	<5	0.15	<.5	9	31	19	3.74	0.04	6	0.32
L98N-94E+50	<.3	1.47	4	22	56	1.0	<5	0.29	<.5	9	29	13	3.40	0.07	4	0.35
L98N-94E+75	<.3	1.72	6	86	59	2.1	<5	0.52	<.5	19	35	34	8.37	0.03	33	0.49
L98N-95E+25	<.3	0.66	5	<5	26	0.4	<5	0.27	<.5	4	14	8	1.45	0.02	3	0.25
L98N-95E+50	<.3	1.14	5	9	50	0.7	<5	0.10	<.5	5	21	11	2.44	0.03	4	0.17
L98N-95E+75	<.3	2.45	4	34	43	1.4	<5	0.16	<.5	12	39	18	4.24	0.04	6	0.38
L98N-96E+00	<.3	1.59	7	15	40	1.0	<5	0.13	<.5	6	24	18	2.88	0.04	3	0.20
L98N-96E+25	<.3	1.34	4	6	40	0.8	<5	0.17	<.5	7	23	23	2.21	0.03	6	0.23
L98N-96E+50	<.3	2.12	3	18	46	1.1	<5	0.10	<.5	8	29	10	3.04	0.02	4	0.23
L98N-96E+75	<.3	2.16	6	20	48	1.1	<5	0.20	<.5	9	33	14	3.31	0.04	6	0.34

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L98N-93E+00	122	<1	0.03	66	283	6	<.01	<2	<5	<.01	<5	11	0.17	97	<2	54
L98N-93E+25	139	1	0.02	136	517	3	<.01	<2	<5	<.01	<5	11	0.19	124	<2	67
L98N-93E+50	154	<1	0.04	138	473	7	0.01	<2	<5	<.01	<5	10	0.21	121	<2	31
L98N-93E+75	92	<1	0.03	93	373	3	0.01	<2	<5	<.01	<5	7	0.13	77	<2	26
L98N-94E+00	129	<1	0.03	119	386	7	<.01	<2	<5	<.01	<5	9	0.18	114	<2	57
L98N-94E+25	133	<1	0.03	121	465	6	<.01	<2	<5	<.01	<5	10	0.20	126	<2	65
L98N-94E+50	161	2	0.03	112	238	5	0.01	<2	<5	<.01	<5	17	0.20	110	<2	78
L98N-94E+75	491	<1	0.04	208	614	5	0.04	<2	<5	<.01	<5	18	0.14	146	<2	77
L98N-95E+25	75	<1	0.04	43	345	3	<.01	<2	<5	<.01	<5	10	0.12	60	<2	30
L98N-95E+50	72	<1	0.02	83	242	5	<.01	<2	<5	<.01	<5	9	0.13	91	<2	44
L98N-95E+75	155	<1	0.03	146	846	8	0.02	<2	<5	<.01	<5	9	0.20	144	<2	47
L98N-96E+00	103	<1	0.03	103	453	5	<.01	<2	<5	<.01	<5	8	0.15	99	<2	56
L98N-96E+25	105	<1	0.03	84	458	<2	<.01	<2	<5	<.01	<5	10	0.13	79	<2	43
L98N-96E+50	89	<1	0.03	106	418	6	0.01	<2	<5	<.01	<5	6	0.14	104	<2	70
L98N-96E+75	153	<1	0.03	118	518	6	0.01	<2	<5	<.01	<5	11	0.16	102	<2	48

Certified By: [signature]

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L98N-97E+00	<.3	2.30	6	24	46	1.1	<5	0.16	<.5	11	32	14	3.49	0.03	5	0.32
L98N-97E+25	<.3	1.70	3	17	45	0.9	<5	0.11	<.5	7	28	11	3.12	0.03	4	0.22
L98N-97E+50	<.3	1.73	4	9	59	0.9	<5	0.17	<.5	9	26	14	2.47	0.03	3	0.32
L98N-97E+75	<.3	2.75	<2	25	67	1.2	<5	0.17	<.5	14	34	23	3.68	0.05	8	0.43
L98N-98E+00	<.3	1.89	6	8	45	0.7	<5	0.17	<.5	10	26	17	2.36	0.03	3	0.28
L98N-98E+25	1.5	1.92	3	<5	35	0.4	<5	0.11	<.5	5	21	8	1.98	0.03	3	0.21
L98N-98E+50	<.3	1.18	6	8	31	0.3	<5	0.15	<.5	6	22	21	2.43	0.03	4	0.20
L98N-98E+75	<.3	1.91	3	15	64	0.9	<5	0.15	<.5	10	31	22	2.91	0.04	4	0.25
L98N-99E+00	<.3	2.47	4	13	44	0.8	<5	0.20	<.5	13	31	22	2.76	0.04	5	0.40
L98N-99E+25	<.3	2.00	9	23	46	0.8	<5	0.32	<.5	14	34	49	3.49	0.05	6	0.40
L98N-99E+50	<.3	2.56	<2	22	43	1.0	<5	0.16	<.5	13	35	24	3.40	0.03	4	0.32
L98N-99E+75	<.3	2.43	7	29	42	1.4	<5	0.20	<.5	15	40	17	3.97	0.04	5	0.35
L98N-100E+00	<.3	1.37	7	14	36	0.7	<5	0.12	<.5	8	29	11	2.88	0.02	7	0.20
L98N-100E+25	<.3	1.84	7	<5	35	0.7	<5	0.24	<.5	9	24	21	2.12	0.03	7	0.36
L98N-100E+50	<.3	1.80	2	<5	28	0.6	<5	0.19	<.5	6	21	15	1.69	0.03	4	0.28

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L98N-97E+00	128	<1	0.03	125	581	7	0.01	<2	<5	<.01	<5	8	0.17	125	<2	57
L98N-97E+25	110	<1	0.02	110	494	7	<.01	<2	<5	<.01	<5	7	0.16	106	<2	54
L98N-97E+50	123	<1	0.03	93	366	<2	<.01	<2	<5	<.01	<5	11	0.14	85	<2	50
L98N-97E+75	168	<1	0.04	138	554	4	0.02	<2	<5	<.01	<5	10	0.19	116	<2	78
L98N-98E+00	125	<1	0.03	91	480	3	0.02	<2	<5	<.01	<5	8	0.13	86	<2	29
L98N-98E+25	69	<1	0.02	73	264	4	0.01	<2	<5	<.01	<5	7	0.13	62	<2	50
L98N-98E+50	93	<1	0.03	81	242	4	<.01	<2	<5	<.01	<5	9	0.16	101	<2	47
L98N-98E+75	133	<1	0.03	107	335	5	<.01	<2	<5	<.01	<5	10	0.15	102	<2	72
L98N-99E+00	127	<1	0.04	109	472	4	0.01	<2	<5	<.01	<5	9	0.15	94	<2	46
L98N-99E+25	242	<1	0.04	130	597	9	<.01	<2	<5	<.01	<5	14	0.20	157	<2	66
L98N-99E+50	142	<1	0.04	122	616	4	0.02	<2	<5	<.01	<5	9	0.16	124	<2	58
L98N-99E+75	180	<1	0.04	145	620	6	0.01	<2	<5	<.01	<5	10	0.21	185	<2	49
L98N-100E+00	105	<1	0.03	102	227	7	<.01	<2	<5	<.01	<5	8	0.19	126	<2	21
L98N-100E+25	121	<1	0.04	82	341	<2	<.01	<2	<5	<.01	<5	10	0.15	74	<2	8
L98N-100E+50	79	<1	0.04	65	272	2	<.01	<2	<5	<.01	8	8	0.11	56	<2	34

Certified By: Greg Kapmowsky

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Berland Resources
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July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L98N-100E+75	<.3	0.38	4	<5	25	0.1	<5	0.26	<.5	2	11	6	0.68	0.02	5	0.15
L80N-98E+00	<.3	1.73	4	<5	29	0.6	<5	0.26	<.5	9	24	18	1.84	0.03	5	0.28
L80N-98E+25	<.3	2.26	3	10	33	0.9	<5	0.26	<.5	10	26	19	2.54	0.03	5	0.36
L80N-98E+50	<.3	1.95	7	15	48	0.8	<5	0.16	<.5	8	31	14	3.01	0.03	4	0.29
L80N-98E+75	<.3	0.78	<2	<5	37	0.4	<5	0.08	<.5	3	19	24	1.95	0.02	4	0.16
L80N-99E+00	<.3	2.64	3	12	58	0.9	<5	0.25	<.5	13	35	18	2.72	0.04	6	0.53
L80N-100E+50	<.3	1.72	6	11	41	0.8	<5	0.21	<.5	11	30	60	2.67	0.04	5	0.37
L80N-100E+75	<.3	1.10	3	8	55	0.4	<5	0.15	<.5	5	20	24	2.47	0.03	5	0.23
L80N-101E+00	<.3	2.72	5	16	84	0.9	<5	0.21	<.5	12	29	15	3.07	0.05	5	0.39
L78N-92E+00	<.3	1.98	7	6	31	0.8	<5	0.29	<.5	11	36	20	2.23	0.03	5	0.34
L78N-92E+25	<.3	1.17	4	<5	30	0.5	<5	0.39	<.5	9	36	20	2.04	0.03	11	0.34
L78N-92E+75	<.3	1.58	3	<5	45	0.6	<5	0.47	<.5	8	37	28	1.52	0.04	15	0.38
L78N-93E+00	<.3	1.22	2	7	41	0.5	<5	0.25	<.5	9	41	22	2.32	0.03	5	0.30
L78N-93E+25	<.3	1.73	4	<5	47	0.7	<5	0.25	<.5	9	39	16	2.21	0.03	5	0.32
L78N-93E+50	<.3	1.80	4	7	50	0.8	<5	0.15	<.5	6	37	10	2.35	0.03	3	0.20

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L98N-100E+75	58	<1	0.03	21	369	4	<.01	<2	<5	<.01	<5	10	0.13	32	<2	9
L80N-98E+00	103	<1	0.05	75	280	<2	<.01	<2	<5	<.01	<5	12	0.13	66	<2	40
L80N-98E+25	128	<1	0.05	94	420	2	0.01	<2	<5	<.01	<5	11	0.15	85	<2	38
L80N-98E+50	132	<1	0.04	101	378	5	<.01	<2	<5	<.01	<5	9	0.15	94	<2	30
L80N-98E+75	106	<1	0.03	63	191	6	<.01	<2	<5	<.01	7	7	0.15	80	<2	47
L80N-99E+00	163	<1	0.06	108	427	2	0.01	<2	<5	<.01	<5	10	0.17	93	<2	19
L80N-100E+50	127	<1	0.04	100	212	4	<.01	<2	<5	<.01	<5	11	0.18	101	<2	51
L80N-100E+75	115	<1	0.03	82	351	8	<.01	<2	<5	<.01	<5	10	0.16	87	<2	62
L80N-101E+00	144	<1	0.03	115	563	8	0.02	<2	<5	<.01	<5	13	0.13	76	<2	58
L78N-92E+00	140	<1	0.04	92	330	<2	<.01	<2	<5	<.01	<5	13	0.15	79	<2	11
L78N-92E+25	136	<1	0.06	84	556	4	<.01	<2	<5	<.01	<5	18	0.15	96	<2	22
L78N-92E+75	113	<1	0.04	70	463	2	0.02	<2	<5	<.01	8	21	0.16	92	<2	15
L78N-93E+00	129	<1	0.04	89	445	6	<.01	<2	<5	<.01	<5	15	0.15	85	<2	39
L78N-93E+25	192	<1	0.04	91	830	3	<.01	<2	<5	<.01	<5	14	0.14	72	<2	47
L78N-93E+50	151	<1	0.04	82	1103	4	0.01	<2	<5	<.01	<5	10	0.11	69	<2	26

Certified By: Greg Kapniewicz

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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L78N-93E+75	<.3	1.46	5	<5	44	0.6	<5	0.26	<.5	9	28	15	2.13	0.03	6	0.28
L78N-94E+50	<.3	1.39	9	5	32	0.6	<5	0.23	<.5	8	25	23	2.23	0.03	5	0.25
L78N-96E+50	<.3	1.45	4	24	33	0.8	<5	0.29	<.5	17	39	15	3.68	0.03	7	0.43
L78N-96E+75	<.3	1.43	4	<5	26	0.5	<5	0.29	<.5	8	32	10	1.88	0.02	7	0.25
L78N-97E+00	<.3	1.43	5	5	43	0.6	<5	0.42	<.5	12	35	29	2.28	0.04	10	0.40
L78N-97E+25	<.3	2.01	2	16	55	1.0	<5	0.36	<.5	16	52	58	3.05	0.06	9	0.56
L78N-98E+00	<.3	0.24	4	<5	68	<.1	<5	2.43	0.6	<2	21	16	0.19	0.01	2	0.21
L78N-98E+25	<.3	0.28	5	<5	75	0.2	<5	2.51	<.5	<2	24	18	0.51	0.01	3	0.23
L78N-98E+50	<.3	0.88	5	<5	38	0.4	<5	0.15	<.5	5	51	12	1.76	0.03	5	0.18
L78N-98E+75	<.3	1.38	5	<5	54	0.5	<5	0.13	<.5	6	36	12	2.14	0.03	3	0.26
L78N-99E+00	<.3	1.97	3	5	48	0.8	<5	0.25	<.5	10	27	16	2.31	0.03	6	0.35
L78N-99E+25	<.3	1.30	2	<5	33	0.5	<5	0.42	<.5	8	21	19	1.66	0.03	6	0.33
L78N-99E+50	<.3	2.11	<2	12	47	0.9	<5	0.23	<.5	9	28	11	2.77	0.03	4	0.33
L78N-99E+75	<.3	3.11	6	8	42	0.9	<5	0.25	<.5	13	37	20	2.51	0.04	6	0.46
L78N-100E+50	<.3	2.06	3	9	61	1.0	<5	0.28	<.5	10	45	14	2.60	0.05	7	0.36

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L78N-93E+75	261	<1	0.04	78	591	3	<.01	<2	<5	<.01	<5	15	0.15	81	<2	28
L78N-94E+50	108	<1	0.05	91	225	5	<.01	<2	<5	<.01	<5	13	0.15	82	<2	29
L78N-96E+50	218	<1	0.04	146	339	3	<.01	<2	<5	<.01	<5	12	0.25	191	<2	55
L78N-96E+75	103	<1	0.05	73	507	<2	<.01	<2	<5	<.01	<5	11	0.14	76	<2	13
L78N-97E+00	174	<1	0.05	92	591	3	<.01	<2	<5	<.01	<5	17	0.16	93	<2	45
L78N-97E+25	220	1	0.07	130	466	5	0.02	<2	<5	<.01	<5	16	0.18	106	<2	51
L78N-98E+00	102	1	0.05	3	347	<2	0.23	<2	<5	0.05	<5	57	<.01	8	<2	39
L78N-98E+25	33	1	0.03	28	235	<2	0.40	<2	<5	0.05	<5	64	<.01	26	<2	38
L78N-98E+50	95	2	0.04	53	116	3	0.01	<2	<5	<.01	8	10	0.17	87	<2	24
L78N-98E+75	76	<1	0.03	64	160	7	0.01	<2	<5	<.01	6	9	0.15	80	<2	35
L78N-99E+00	142	<1	0.05	94	592	3	<.01	<2	<5	<.01	<5	12	0.15	86	<2	39
L78N-99E+25	147	<1	0.05	72	573	<2	<.01	<2	<5	<.01	<5	17	0.13	68	<2	36
L78N-99E+50	172	<1	0.04	96	967	4	0.01	<2	<5	<.01	<5	11	0.15	94	<2	59
L78N-99E+75	133	<1	0.04	97	436	5	0.02	<2	<5	<.01	<5	14	0.15	81	<2	50
L78N-100E+50	168	<1	0.04	102	551	8	0.02	<2	<5	<.01	<5	15	0.15	87	<2	74

Certified By: [signature]

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July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L78N-100E+75	<.3	1.91	3	6	58	0.8	<5	0.36	<.5	12	56	34	2.31	0.04	8	0.45
L78N-101E+00	<.3	2.43	3	11	80	0.7	<5	0.24	<.5	9	103	12	2.74	0.04	5	0.35
L72N-93E+50	<.3	2.27	3	8	59	0.9	<5	0.25	<.5	10	59	17	2.53	0.04	7	0.39
L72N-93E+75	<.3	3.05	5	16	50	1.0	<5	0.18	<.5	10	54	15	3.10	0.04	5	0.44
L72N-94E+00	<.3	2.08	<2	7	45	0.7	<5	0.16	<.5	7	41	16	2.41	0.03	5	0.37
L72N-94E+25	<.3	1.58	3	<5	43	0.5	<5	0.23	<.5	7	24	14	1.78	0.03	5	0.23
L72N-94E+50	<.3	1.35	3	<5	47	0.5	<5	0.34	<.5	9	24	19	1.70	0.03	9	0.36
L72N-94E+75	<.3	1.10	3	<5	51	0.5	<5	0.33	<.5	6	20	17	1.41	0.03	6	0.30
L72N-95E+00	<.3	1.08	6	<5	64	0.5	<5	0.54	<.5	7	33	21	1.76	0.02	14	0.31
L72N-95E+25	<.3	1.26	4	<5	54	0.5	<5	0.48	<.5	11	38	15	2.02	0.03	10	0.41
L72N-95E+50	<.3	1.31	6	<5	60	0.7	<5	0.53	<.5	11	37	24	2.18	0.04	13	0.48
L72N-95E+75	<.3	0.91	<2	<5	45	0.5	<5	0.15	<.5	4	24	13	1.37	0.02	4	0.14
L72N-96E+00	<.3	1.52	5	<5	43	0.6	<5	0.21	<.5	6	28	11	1.92	0.03	4	0.23
L72N-96E+25	<.3	0.65	3	<5	34	0.3	<5	0.31	<.5	3	17	14	0.87	0.02	7	0.21
L72N-96E+50	<.3	1.46	4	<5	40	0.5	<5	0.29	<.5	8	22	16	2.00	0.03	6	0.39

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L78N-100E+75	177	1	0.06	90	614	3	<.01	<2	<5	<.01	<5	18	0.17	81	<2	17
L78N-101E+00	156	3	0.04	102	811	5	0.03	<2	<5	<.01	<5	15	0.13	84	<2	48
L72N-93E+50	238	1	0.04	98	607	5	0.01	<2	<5	<.01	<5	13	0.15	82	<2	41
L72N-93E+75	113	<1	0.04	106	499	4	0.04	4	<5	<.01	<5	9	0.15	90	<2	52
L72N-94E+00	83	<1	0.03	86	255	5	0.02	<2	<5	<.01	<5	9	0.16	81	<2	46
L72N-94E+25	103	<1	0.05	67	384	3	<.01	<2	<5	<.01	<5	14	0.14	64	<2	15
L72N-94E+50	135	<1	0.06	71	477	<2	<.01	<2	<5	<.01	<5	16	0.14	64	<2	16
L72N-94E+75	102	<1	0.04	59	294	2	<.01	<2	<5	<.01	<5	19	0.14	50	<2	17
L72N-95E+00	131	<1	0.05	72	599	<2	0.01	<2	<5	<.01	<5	17	0.11	59	<2	29
L72N-95E+25	185	1	0.03	83	702	<2	<.01	<2	<5	<.01	5	20	0.15	68	<2	14
L72N-95E+50	184	<1	0.03	88	481	4	<.01	<2	<5	<.01	6	21	0.16	73	<2	15
L72N-95E+75	58	<1	0.04	51	214	7	0.01	<2	<5	<.01	<5	15	0.13	55	<2	30
L72N-96E+00	111	<1	0.05	71	325	5	<.01	<2	<5	<.01	<5	12	0.14	67	<2	47
L72N-96E+25	65	<1	0.05	34	507	<2	<.01	<2	<5	<.01	<5	11	0.09	41	<2	19
L72N-96E+50	102	<1	0.05	79	528	<2	0.01	<2	<5	<.01	<5	12	0.13	74	<2	15

Certified By: Greg Kepniowiez

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L72N-96E+75	<.3	1.44	2	<5	34	0.6	<5	0.24	<.5	8	24	16	1.83	0.02	6	0.24
L72N-97E+75	<.3	1.38	2	<5	40	0.5	<5	0.14	<.5	5	25	10	1.22	0.02	7	0.12
L72N-98E+50	<.3	1.32	2	<5	54	0.5	<5	0.23	<.5	8	28	27	2.20	0.03	4	0.28
L72N-99E+00	<.3	1.01	2	<5	43	0.4	<5	0.52	<.5	4	22	16	1.23	0.02	5	0.25
L72N-99E+75	<.3	0.85	5	<5	47	<.1	<5	0.49	<.5	8	19	18	1.80	0.04	9	0.33
L72N-100E+00	<.3	1.43	5	<5	32	0.6	<5	0.24	<.5	5	21	15	1.80	0.02	3	0.22
L72N-100E+25	<.3	1.86	3	<5	40	0.6	<5	0.17	<.5	8	25	14	2.07	0.03	5	0.28
L72N-100E+50	<.3	1.78	3	<5	44	0.7	<5	0.31	<.5	8	24	25	2.15	0.03	8	0.39
L72N-100E+75	<.3	1.37	3	<5	52	0.6	<5	0.24	<.5	7	18	53	1.58	0.03	7	0.34
MEG-1	<.3	2.22	4	6	46	0.8	<5	0.17	<.5	6	26	14	2.35	0.03	4	0.36
MEG-2	<.3	2.32	5	11	42	0.9	<5	0.18	<.5	7	28	13	2.78	0.03	4	0.34
L1	<.3	1.68	3	<5	48	0.6	<5	0.19	<.5	9	25	31	2.21	0.03	5	0.34
L2	<.3	1.83	5	<5	49	0.6	<5	0.23	<.5	10	26	50	2.22	0.03	6	0.39
L100N-91E+25	<.3	0.98	5	<5	29	0.4	<5	0.14	<.5	4	17	10	1.89	0.03	1	0.17
L72N-95E+75 E	<.3	1.29	2	<5	39	0.6	<5	0.14	<.5	4	20	11	1.58	0.02	4	0.14

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L72N-96E+75	97	<1	0.04	71	377	5	0.01	<2	<5	<.01	<5	12	0.13	66	<2	32
L72N-97E+75	72	<1	0.04	35	152	4	<.01	<2	<5	<.01	<5	10	0.13	59	<2	44
L72N-98E+50	108	<1	0.05	85	276	4	0.03	<2	<5	<.01	6	14	0.19	97	<2	53
L72N-99E+00	96	<1	0.04	51	393	4	0.01	<2	<5	<.01	<5	16	0.13	55	<2	36
L72N-99E+75	167	<1	0.04	73	705	<2	<.01	<2	<5	<.01	<5	19	0.14	67	<2	24
L72N-100E+00	90	<1	0.04	64	380	2	0.01	<2	<5	<.01	<5	11	0.13	65	<2	32
L72N-100E+25	91	<1	0.04	73	257	<2	0.01	<2	<5	<.01	<5	9	0.15	72	<2	30
L72N-100E+50	105	<1	0.06	83	527	<2	0.02	<2	<5	<.01	<5	12	0.15	79	<2	34
L72N-100E+75	94	<1	0.05	60	324	4	<.01	<2	<5	<.01	<5	12	0.14	56	<2	20
MEG-1	89	<1	0.04	87	396	4	0.03	<2	<5	<.01	<5	9	0.14	85	<2	21
MEG-2	98	1	0.04	101	472	6	0.02	<2	<5	<.01	<5	9	0.14	98	<2	30
L1	104	<1	0.05	93	202	4	0.01	<2	<5	<.01	<5	10	0.17	84	<2	20
L2	106	<1	0.05	104	265	3	0.01	<2	<5	<.01	<5	11	0.15	78	<2	53
L100N-91E+25	69	<1	0.04	66	150	4	<.01	<2	<5	<.01	<5	7	0.12	67	<2	66
L72N-95E+75 E	67	<1	0.04	56	175	6	0.01	<2	<5	<.01	<5	12	0.14	60	<2	25

Certified By: Greg Kaynowei

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
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PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 11, 2001

Job #200140293

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L78N-95+75ER	<.3	1.43	<2	<5	62	0.5	<5	0.50	<.5	8	26	18	1.75	0.05	7	0.39

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L78N-95+75ER	107	<1	0.05	69	315	3	0.03	<2	<5	<.01	<5	17	0.18	78	<2	52

Certified By: [signature]

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

Certificate of Analysis

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Thursday, July 19, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
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Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 03-Jul-01
Date Completed : 18-Jul-01
Job # 200140321
Reference :
Sample #: 150 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7287		BL96E-87+00N	<5	<15	<10	
7288		BL96E-87+25N	<5	<15	<10	
7289		BL96E-87+50N	<5	<15	<10	
7290		BL96E-87+75N	<5	<15	<10	
7291		BL96E-88+25N	<5	<15	<10	
7292		BL96E-88+50N	10	<15	<10	
7293		BL96E-88+75N	15	<15	<10	
7294		BL96E-89+00N	<5	<15	<10	
7295		BL96E-89+25N	<5	<15	<10	
7296		BL96E-89+50N	6	<15	<10	
7297	Check	BL96E-89+50N	6	<15	<10	
7298		BL96E-89+75N	<5	<15	<10	
7299		BL96E-90+25N	5	<15	<10	
7300		BL96E-90+50N	11	<15	<10	
7301		BL96E-90+75N	<5	<15	<10	
7302		BL96E-91+00N	<5	<15	<10	
7303		BL96E-91+25N	10	<15	<10	
7304		BL96E-91+50N	<5	<15	<10	
7305		BL96E-91+75N	<5	15	<10	
7306		BL96E-92+25N	7	<15	<10	
7307	Check	BL96E-92+25N	<5	<15	<10	
7308		BL96E-92+50N	<5	<15	<10	
7309		BL96E-92+75N	<5	<15	<10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

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ACCURASSAY LABORATORIES

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1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
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Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7310		BL96E-93+00N	<5	<15	<10	
7311		BL96E-93+25N	<5	<15	<10	
7312		BL96E-93+50N	<5	<15	<10	
7313		BL96E-93+75N	<5	<15	<10	
7314		BL96E-94+25N	<5	<15	<10	
7315		BL96E-94+50N	<5	<15	<10	
7316		BL96E-94+75N	<5	<15	<10	
7317	Check	BL96E-94+75N	<5	<15	<10	
7318		BL96E-95+00N	<5	<15	<10	
7319		BL96E-95+25N	<5	<15	<10	
7320		BL96E-95+50N	<5	<15	<10	
7321		BL96E-95+75N	<5	26	<10	
7322		BL96E-96+25N	5	<15	<10	
7323		BL96E-96+50N	<5	<15	<10	
7324		BL96E-96+75N	<5	<15	<10	
7325		BL96E-97+00N	7	24	<10	
7326		BL96E-97+25N	<5	<15	<10	
7327	Check	BL96E-97+25N	<5	<15	<10	
7328		BL96E-97+50N	<5	<15	<10	
7329		BL96E-97+75N	<5	<15	<10	
7330		BL96E-98+25N	<5	<15	<10	
7331		BL96E-98+50N	<5	<15	<10	
7332		BL96E-98+75N	<5	<15	<10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

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Date Received : 03-Jul-01
Date Completed : 18-Jul-01
Job # 200140321
Reference :
Sample #: 150 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7333		BL96E-99+00N	< 5	< 15	18	
7334		BL96E-99+25N	< 5	< 15	< 10	
7335		BL96E-99+50N	< 5	< 15	< 10	
7336		BL96E-99+75N		No Sample		
7337	Check	BL96E-99+75N		No Sample		
7338		BL96E-100+25N	6	42	< 10	
7339		BL96E-100+50N	< 5	< 15	< 10	
7340		BL96E-100+75N	< 5	< 15	< 10	
7341		BL96E-101+00N	< 5	< 15	< 10	
7342		BL96E-101+25N	< 5	32	< 10	
7343		BL96E-101+50N	< 5	< 15	< 10	
7345		L122N-95+00E	< 5	< 15	< 10	
7346		L122N-95+25E	< 5	< 15	< 10	
7347	Check	L122N-95+25E	< 5	< 15	< 10	
7348		L122N-95+50E	< 5	< 15	< 10	
7349		L122N-95+75E	< 5	< 15	< 10	
7350		L122N-96+00E	< 5	27	< 10	
7351		L122N-96+25E	6	< 15	< 10	
7352		L122N-96+50E	< 5	< 15	< 10	
7353		L122N-96+75E	< 5	< 15	< 10	
7354		L122N-97+00E	< 5	29	< 10	
7355		L122N-97+25E	< 5	< 15	< 10	
7356		L122N-97+50E	< 5	< 15	< 10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

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Date Received : 03-Jul-01
Date Completed : 18-Jul-01
Job # 200140321
Reference :
Sample #: 150 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7357	Check	L122N-97+50E	<5	<15	<10	
7358		L122N-97+75E	<5	<15	<10	
7359		L122N-98+00E	<5	<15	<10	
7360		L122N-98+25E	<5	<15	<10	
7361		L122N-98+50E	<5	<15	<10	
7362		L122N-98+75E	<5	<15	<10	
7363		L122N-99+0E	<5	<15	<10	
7364		L122N-99+25E	<5	32	<10	
7365		L122N-99+50E	<5	<15	<10	
7366		L122N-99+75E	<5	<15	<10	
7367	Check	L122N-99+75E	<5	<15	<10	
7368		L122N-100+00E	<5	<15	<10	
7369		L122N-100+25E	<5	<15	<10	
7370		L122N-100+50E	<5	<15	<10	
7371		L122N-100+75E	<5	<15	<10	
7372		L122N-101+00E	<5	<15	<10	
7373		L122N-101+25E	<5	<15	<10	
7374		L122N-101+50E	<5	<15	<10	
7375		L122N-101+75E	<5	<15	<10	
7376		L122N-102+00E	<5	<15	<10	
7377	Check	L122N-102+00E	<5	<15	<10	
7378		L122N-102+25E	5	<15	<10	
7379		L122N-102+50E	<5	<15	<10	

PROCEDURE CODES: AL4APR, AL4ICP

Certified By:

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ACCURASSAY LABORATORIES

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Certificate of Analysis

Thursday, July 19, 2001

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Ph#: (807) 344-5698
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Date Received : 03-Jul-01
Date Completed : 18-Jul-01
Job # 200140321
Reference :
Sample #: 150 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7380		L122N-102+75E	5	< 15	< 10	
7381		L122N-103+00E	< 5	< 15	< 10	
7382		L122N-103+75E	< 5	< 15	< 10	
7383		L122N-104+00E	5	< 15	< 10	
7384		L122N-104+25E	< 5	< 15	< 10	
7385		L122N-104+50E	12	< 15	< 10	
7386		L122N-104+75E	< 5	< 15	< 10	
7388		L122N-105+00E	< 5	< 15	< 10	
7389	Check	L122N-105+00E	< 5	< 15	< 10	
7390		L120N-95+00E	< 5	< 15	< 10	
7391		L120N-95+25E	< 5	< 15	< 10	
7392		L120N-95+50E	< 5	< 15	< 10	
7393		L120N-95+75E	< 5	< 15	< 10	
7394		L120N-96+00E	< 5	< 15	< 10	
7395		L120N-96+25E	< 5	< 15	< 10	
7396		L120N-96+50E	< 5	< 15	< 10	
7397		L120N-96+75E	< 5	< 15	< 10	
7398	Check	L120N-96+75E	< 5	< 15	< 10	
7399		L120N-97+00E	< 5	< 15	< 10	
7400		L120N-97+25E	< 5	< 15	< 10	
7401		L120N-97+50E	< 5	< 15	< 10	
7402		L120N-97+75E	< 5	< 15	< 10	
7403		L120N-98+00E	< 5	< 15	< 10	

PROCEDURE CODES: AL4ARP, AL4ICP

Certified By:

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ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
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Certificate of Analysis

Thursday, July 19, 2001

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Fax#: (807) 345-5460
Email

Date Received : 03-Jul-01
Date Completed : 18-Jul-01
Job # 200140321
Reference :
Sample #: 150 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7404		L120N-98+25E	<5	<15	<10	
7405		L120N-98+50E	<5	<15	<10	
7406		L120N-98+75E	<5	<15	<10	
7407		L120N-99+00E	<5	<15	<10	
7408	Check	L120N-99+00E	<5	<15	<10	
7409		L120N-100+25E	<5	<15	<10	
7410		L120N-100+50E	<5	<15	<10	
7411		L120N-100+75E	<5	<15	<10	
7412		L120N-101+00E	<5	<15	<10	
7413		L120N-101+25E	<5	<15	<10	
7414		L120N-101+50E	<5	<15	<10	
7415		L120N-101+75E	<5	<15	<10	
7416		L120N-102+00E	<5	<15	<10	
7417	Check	L120N-102+00E	<5	<15	<10	
7418		L120N-102+75E	<5	<15	<10	
7419		L120N-103+00E	<5	<15	<10	
7420		L120N-103+25E	<5	<15	<10	
7421		L120N-103+50E	<5	<15	15	
7422		L120N-103+75E	<5	30	<10	
7423		L120N-104+00E	5	<15	<10	
7424		L120N-104+25E	<5	<15	<10	
7425		Mere1	10	<15	<10	
7426		Mere2	<5	<15	<10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-07/19/2001 04:40 PM

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
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Certificate of Analysis

Monday, August 13, 2001

Berland Resources
244 Camelot St., Suite 203
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Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received: 03-Jul-01
Date Completed: 18-Jul-01
Job # 200140321
Reference:

Sample #: 150 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
7945		L122N-102+50E	<5	<15	<10	
8063	Check	L122N-102+50E	<5	<15	<10	
8159		L128N-95-00E	<5	<15	<10	
8160		L128N-95-25E	<5	<15	<10	
8161		L128N-97-00E	<5	<15	<10	
8162		L128N-97-25E	<5	<15	<10	
8163		L128N-97-50E	<5	<15	<10	
8164		L128N-98-00E	<5	<15	<10	
8165		L128N-98-25E	<5	<15	<10	
8166		L128N-98-50E	<5	<15	<10	
8167		L128N-98-75E	<5	<15	<10	
8168		L128N-99-00E	<5	<15	<10	
8169		L128N-99-25E	<5	<15	<10	
8170	Check	L128N-99-25E	<5	<15	<10	
8171		L128N-99-50E	<5	<15	<10	
8172		L128N-99-75E	<5	<15	<10	
8173		L128N-100-00E	<5	<15	<10	
8174		L128N-100-25E	<5	<15	<10	
8175		L128N-100-50E	<5	15	<10	
8176		L128N-100-75E	<5	<15	<10	
8177		L128N-101-00E	<5	<15	<10	
8178		L128N-101-25E	<5	<15	<10	
8179		L128N-101-50E	<5	<15	<10	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-08/13/2001 01:32 PM

ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
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Certificate of Analysis

Thursday, July 19, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 03-Jul-01
Date Completed : 18-Jul-01
Job # 200140321
Reference :
Sample #: 150 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
8180	Check	L128N-101-50E	< 5	< 15	< 10	
8181		L128N-101-75E	< 5	< 15	10	
8182		L128N-102-00E	< 5	< 15	18	
8183		L128N-102-25E	< 5	< 15	19	
8184		L128N-102-75E	< 5	< 15	24	

PROCEDURE CODES: AL4APP, AL4ICP

Certified By:

AL907-0135-07/19/2001 04:40 PM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
BL96E-87+00N	<.3	0.82	6	<5	39	0.5	<5	0.23	<.5	6	18	20	1.37	0.02	6	0.28
BL96E-87+25N	<.3	0.76	3	<5	46	0.8	<5	0.15	<.5	5	14	32	1.01	0.03	4	0.27
BL96E-87+50N	<.3	0.94	5	<5	59	0.6	<5	0.18	<.5	5	24	26	1.40	0.03	7	0.26
BL96E-87+75N	<.3	0.99	5	<5	34	0.3	<5	0.24	<.5	7	21	17	1.54	0.03	6	0.27
BL96E-88+25N	<.3	1.15	6	<5	57	0.5	<5	0.28	<.5	6	28	30	1.12	0.03	20	0.25
BL96E-88+50N	<.3	1.38	6	<5	95	0.9	6	0.38	<.5	5	29	45	0.93	0.03	44	0.23
BL96E-88+75N	<.3	1.33	6	<5	97	<.1	<5	0.37	<.5	6	27	38	0.93	0.03	35	0.23
BL96E-89+00N	<.3	1.62	7	<5	34	2.5	<5	0.16	<.5	8	26	23	1.97	0.02	6	0.23
BL96E-89+25N	<.3	1.09	7	<5	31	1.5	<5	0.27	<.5	6	20	24	1.30	0.02	10	0.26
BL96E-89+50N	<.3	1.12	5	<5	31	0.7	<5	0.31	<.5	6	23	16	1.41	0.03	7	0.29
BL96E-89+75N	<.3	0.94	4	<5	39	1.4	<5	0.11	<.5	5	20	8	1.51	0.02	2	0.14
BL96E-90+25N	<.3	0.71	4	<5	52	2.0	<5	0.08	<.5	4	19	16	1.74	0.02	1	0.10
BL96E-90+50N	<.3	1.76	4	<5	35	2.6	<5	0.20	<.5	7	26	43	2.10	0.03	2	0.22
BL96E-90+75N	<.3	0.92	4	<5	36	1.8	<5	0.17	<.5	5	23	27	1.90	0.02	2	0.19
BL96E-91+00N	<.3	1.36	8	<5	40	2.0	<5	0.24	<.5	8	27	15	1.95	0.03	3	0.26

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
BL96E-87+00N	113	<1	0.03	68	545	5	0.02	<2	<5	0.02	<5	10	0.13	58	<2	19
BL96E-87+25N	117	<1	0.02	51	298	10	0.02	<2	<5	0.02	<5	10	0.13	39	<2	14
BL96E-87+50N	97	<1	0.03	51	375	6	0.02	<2	<5	0.03	10	11	0.11	53	<2	38
BL96E-87+75N	160	<1	0.03	71	538	2	<.01	<2	<5	0.02	<5	10	0.11	54	<2	22
BL96E-88+25N	92	<1	0.03	58	522	8	0.04	<2	<5	0.02	<5	18	0.12	57	<2	26
BL96E-88+50N	80	<1	0.03	55	1356	<2	0.09	<2	<5	0.02	10	16	0.04	22	<2	25
BL96E-88+75N	91	<1	0.03	56	1287	2	0.08	<2	<5	0.02	<5	17	0.04	21	<2	16
BL96E-89+00N	107	<1	0.04	86	305	3	0.02	<2	<5	0.01	<5	9	0.12	69	<2	11
BL96E-89+25N	111	<1	0.04	67	530	3	0.01	<2	<5	0.02	<5	11	0.11	46	<2	42
BL96E-89+50N	129	<1	0.04	70	692	3	<.01	<2	<5	0.02	<5	12	0.12	49	<2	8
BL96E-89+75N	79	<1	0.02	53	144	5	0.01	<2	<5	0.02	<5	9	0.13	63	<2	25
BL96E-90+25N	87	<1	0.02	68	205	6	<.01	<2	<5	0.03	<5	7	0.12	74	<2	37
BL96E-90+50N	127	<1	0.03	90	737	4	0.02	<2	<5	0.01	<5	9	0.11	65	<2	7
BL96E-90+75N	123	<1	0.02	64	625	3	<.01	<2	<5	0.02	<5	10	0.13	64	<2	17
BL96E-91+00N	121	<1	0.03	87	608	7	<.01	<2	<5	0.02	<5	12	0.12	64	<2	41

Certified By:

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
BL96E-91+25N	<.3	1.86	4	<5	51	3.8	<5	0.17	<.5	10	30	13	2.42	0.03	2	0.31
BL96E-91+50N	<.3	1.38	6	<5	49	1.7	<5	0.19	<.5	8	27	18	2.14	0.03	2	0.25
BL96E-91+75N	<.3	0.89	<2	<5	45	2.2	<5	0.12	<.5	6	23	7	2.51	0.03	3	0.17
BL96E-92+25N	<.3	0.72	7	<5	42	1.4	<5	0.15	<.5	4	20	5	2.12	0.03	2	0.13
BL96E-92+50N	<.3	1.62	9	<5	49	4.2	<5	0.13	<.5	7	28	10	2.33	0.03	3	0.22
BL96E-92+75N	<.3	1.79	5	<5	47	1.9	<5	0.14	<.5	8	28	11	2.46	0.03	1	0.23
BL96E-93+00N	<.3	2.06	2	<5	57	3.7	<5	0.17	<.5	9	29	12	2.35	0.03	3	0.30
BL96E-93+25N	<.3	1.06	6	<5	46	2.4	<5	0.12	<.5	6	24	7	2.13	0.02	<1	0.18
BL96E-93+50N	<.3	1.78	6	<5	46	1.5	<5	0.15	<.5	10	29	11	2.09	0.03	2	0.27
BL96E-93+75N	<.3	1.35	6	<5	36	2.2	<5	0.14	<.5	7	27	12	2.15	0.02	<1	0.20
BL96E-94+25N	<.3	0.96	3	<5	41	0.9	<5	0.12	<.5	6	31	10	2.12	0.03	<1	0.16
BL96E-94+50N	<.3	0.95	2	<5	39	1.3	<5	0.15	<.5	5	18	18	1.15	0.02	11	0.24
BL96E-94+75N	<.3	0.74	4	<5	60	1.9	<5	0.36	<.5	8	21	19	1.22	0.03	8	0.25
BL96E-95+00N	<.3	1.08	5	<5	50	2.0	<5	0.15	<.5	6	28	51	2.23	0.04	1	0.23
BL96E-95+25N	<.3	2.60	5	<5	79	2.1	<5	0.18	<.5	16	38	24	2.88	0.05	4	0.47

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
BL96E-91+25N	137	<1	0.03	102	768	5	0.01	<2	<5	0.02	<5	9	0.13	80	<2	40
BL96E-91+50N	142	<1	0.03	92	674	6	0.02	<2	<5	0.02	<5	11	0.12	80	<2	59
BL96E-91+75N	98	<1	0.02	65	439	7	<.01	<2	<5	0.02	<5	9	0.15	97	<2	46
BL96E-92+25N	93	<1	<.01	50	370	7	0.01	<2	<5	0.02	<5	10	0.12	86	<2	40
BL96E-92+50N	132	<1	0.02	91	633	8	0.01	<2	<5	0.02	<5	7	0.13	78	<2	68
BL96E-92+75N	139	<1	0.03	100	659	2	0.01	<2	<5	0.02	8	8	0.12	77	<2	36
BL96E-93+00N	157	<1	0.03	102	735	7	<.01	<2	<5	0.02	5	9	0.12	80	<2	18
BL96E-93+25N	113	<1	0.02	77	505	5	<.01	<2	<5	0.02	<5	8	0.12	79	<2	72
BL96E-93+50N	160	<1	0.02	93	576	6	<.01	<2	<5	0.02	<5	8	0.11	73	<2	54
BL96E-93+75N	94	<1	0.02	89	454	4	0.01	<2	<5	0.01	9	8	0.11	76	<2	29
BL96E-94+25N	108	<1	0.02	85	336	6	0.02	<2	<5	0.01	<5	9	0.12	87	<2	47
BL96E-94+50N	81	<1	0.02	61	149	7	0.01	<2	<5	0.01	8	9	0.12	47	<2	37
BL96E-94+75N	96	<1	0.03	55	485	10	0.04	<2	<5	0.03	9	19	0.19	72	<2	36
BL96E-95+00N	128	<1	0.02	91	401	7	0.04	<2	<5	0.03	<5	12	0.12	79	<2	56
BL96E-95+25N	221	<1	0.03	126	942	5	<.01	<2	<5	0.01	<5	10	0.15	87	<2	76

Certified By:

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
BL96E-95+50N	<.3	1.69	5	<5	40	3.5	<5	0.13	<.5	7	28	12	2.21	0.04	3	0.21
BL96E-95+75N	<.3	1.40	8	<5	48	2.6	<5	0.10	<.5	6	30	10	2.51	0.04	2	0.20
BL96E-96+25N	<.3	1.92	5	<5	52	2.9	<5	0.20	<.5	10	32	14	2.39	0.04	4	0.28
BL96E-96+50N	<.3	1.15	6	<5	47	1.3	<5	0.25	<.5	8	30	46	2.71	0.04	4	0.26
BL96E-96+75N	<.3	1.07	4	<5	52	2.4	<5	0.18	<.5	7	29	11	2.78	0.03	5	0.18
BL96E-97+00N	<.3	1.39	5	<5	94	1.1	<5	0.27	<.5	7	26	18	2.00	0.03	6	0.19
BL96E-97+25N	<.3	1.97	4	<5	54	2.6	<5	0.15	<.5	10	30	14	2.45	0.03	3	0.21
BL96E-97+50N	<.3	1.91	7	<5	57	3.7	<5	0.13	<.5	10	32	11	2.70	0.03	5	0.23
BL96E-97+75N	<.3	2.68	3	<5	57	2.7	<5	0.15	<.5	13	41	23	3.59	0.05	6	0.40
BL96E-98+25N	<.3	1.82	5	<5	43	2.6	<5	0.18	<.5	9	31	15	2.32	0.03	3	0.24
BL96E-98+50N	<.3	0.84	5	<5	47	1.8	<5	0.16	<.5	5	26	62	1.95	0.04	4	0.20
BL96E-98+75N	<.3	1.69	4	<5	52	3.7	<5	0.14	<.5	9	35	16	2.53	0.03	3	0.27
BL96E-99+00N	<.3	1.51	7	<5	91	3.8	<5	0.30	<.5	6	66	24	2.76	0.07	9	0.26
BL96E-99+25N	<.3	1.14	5	<5	42	1.6	<5	0.25	<.5	11	81	16	1.97	0.03	7	0.72
BL96E-99+50N	<.3	1.05	5	<5	59	0.6	<5	0.15	<.5	4	31	17	1.32	0.03	8	0.17

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
BL96E-95+50N	97	<1	0.02	93	551	3	0.02	<2	<5	0.02	<5	7	0.13	70	<2	31
BL96E-95+75N	98	<1	0.02	100	603	8	<.01	<2	<5	0.02	<5	8	0.13	83	<2	57
BL96E-96+25N	135	<1	0.03	104	551	6	0.01	<2	<5	0.02	7	12	0.14	75	<2	36
BL96E-96+50N	141	<1	0.03	84	528	5	<.01	<2	<5	0.02	7	16	0.19	115	<2	53
BL96E-96+75N	112	<1	0.03	86	638	10	<.01	<2	<5	0.03	<5	14	0.17	104	<2	40
BL96E-97+00N	194	<1	0.03	87	923	10	0.01	<2	<5	0.02	<5	17	0.12	70	<2	51
BL96E-97+25N	126	<1	0.03	100	920	7	0.01	<2	<5	0.01	7	9	0.13	81	<2	88
BL96E-97+50N	141	<1	0.02	110	815	7	<.01	<2	<5	0.02	<5	8	0.14	93	<2	103
BL96E-97+75N	167	<1	0.03	145	837	9	0.01	<2	<5	0.02	<5	9	0.18	106	<2	70
BL96E-98+25N	133	<1	0.03	92	819	5	0.01	<2	<5	0.02	<5	9	0.13	77	<2	12
BL96E-98+50N	114	<1	0.02	68	581	8	<.01	<2	<5	0.03	13	11	0.14	78	<2	40
BL96E-98+75N	130	<1	0.02	108	461	3	<.01	<2	<5	0.02	<5	8	0.13	90	<2	26
BL96E-99+00N	212	<1	0.02	116	1165	15	<.01	<2	<5	0.03	<5	35	0.12	91	<2	74
BL96E-99+25N	124	<1	0.02	102	439	9	<.01	<2	<5	0.03	11	23	0.24	66	<2	31
BL96E-99+50N	88	<1	0.02	58	317	10	<.01	<2	<5	0.02	9	17	0.13	50	<2	34

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July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
BL96E-100+25N	<.3	1.08	6	<5	58	2.0	<5	0.22	<.5	7	30	51	2.62	0.03	6	0.17
BL96E-100+50N	<.3	1.73	4	<5	46	3.5	<5	0.19	<.5	9	35	38	3.14	0.04	5	0.30
BL96E-100+75N	<.3	1.23	3	<5	28	1.5	<5	0.15	<.5	7	21	8	1.87	0.03	3	0.19
BL96E-101+00N	<.3	1.92	4	<5	55	3.2	<5	0.13	<.5	11	30	16	2.52	0.04	6	0.29
BL96E-101+25N	<.3	1.93	4	<5	45	1.9	<5	0.13	<.5	9	42	12	3.01	0.07	3	0.33
BL96E-101+50N	<.3	0.89	4	<5	22	0.4	<5	0.19	<.5	6	14	21	1.09	0.02	2	0.20
L122N-95+00E	<.3	1.58	4	<5	86	2.3	<5	0.24	<.5	15	30	40	2.98	0.26	6	0.98
L122N-95+25E	<.3	1.66	<2	<5	48	2.9	<5	0.12	<.5	7	29	17	2.63	0.03	6	0.22
L122N-95+50E	<.3	0.62	3	<5	39	<.1	<5	0.14	<.5	5	25	7	1.76	0.04	5	0.19
L122N-95+75E	<.3	1.87	6	<5	41	3.4	<5	0.21	<.5	10	29	17	2.22	0.03	4	0.35
L122N-96+00E	<.3	0.94	4	<5	47	0.2	<5	0.15	<.5	6	21	14	2.29	0.03	3	0.15
L122N-96+25E	<.3	2.20	8	<5	53	2.3	<5	0.22	<.5	11	30	24	2.68	0.04	2	0.34
L122N-96+50E	<.3	1.75	3	<5	42	2.5	<5	0.19	<.5	10	27	34	2.56	0.04	3	0.34
L122N-96+75E	<.3	1.44	3	<5	50	3.4	<5	0.19	<.5	8	24	24	2.41	0.03	5	0.28
L122N-97+00E	<.3	1.19	5	<5	43	2.5	<5	0.21	<.5	11	25	179	2.33	0.03	3	0.49

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
BL96E-100+25N	134	<1	0.03	103	400	8	<.01	<2	<5	0.03	7	15	0.18	104	<2	48
BL96E-100+50N	123	<1	0.02	124	473	10	<.01	<2	<5	0.02	10	13	0.18	107	<2	72
BL96E-100+75N	107	<1	0.02	77	474	2	0.01	<2	<5	0.02	<5	7	0.12	66	<2	<1
BL96E-101+00N	147	<1	0.03	104	570	7	<.01	<2	<5	0.02	6	8	0.14	83	<2	39
BL96E-101+25N	158	<1	0.02	124	624	8	<.01	<2	<5	0.02	5	8	0.17	95	<2	60
BL96E-101+50N	93	<1	0.03	61	435	2	<.01	<2	<5	0.02	15	7	0.08	37	<2	<1
L122N-95+00E	445	<1	0.02	123	199	11	<.01	<2	<5	0.02	16	19	0.33	68	<2	84
L122N-95+25E	115	<1	0.03	101	466	8	<.01	<2	<5	0.02	<5	8	0.14	81	<2	46
L122N-95+50E	107	<1	0.02	55	410	7	0.01	<2	<5	0.03	7	11	0.16	71	<2	3
L122N-95+75E	116	<1	0.02	103	447	4	0.02	<2	<5	0.02	<5	10	0.13	74	<2	57
L122N-96+00E	103	<1	0.02	59	461	7	<.01	<2	<5	0.02	13	9	0.13	86	<2	62
L122N-96+25E	169	<1	0.03	109	566	6	0.01	<2	<5	0.02	<5	12	0.14	80	<2	90
L122N-96+50E	133	<1	0.04	110	382	7	0.01	<2	<5	0.02	8	10	0.14	82	<2	65
L122N-96+75E	116	<1	0.03	106	290	11	0.03	<2	<5	0.02	17	12	0.14	83	<2	107
L122N-97+00E	165	<1	0.03	105	347	8	0.03	<2	<5	0.02	6	12	0.17	157	<2	71

Certified By: [signature]

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L122N-97+25E	<.3	0.86	2	<5	42	1.3	<5	0.16	<.5	5	15	22	1.58	0.02	2	0.17
L122N-97+50E	<.3	1.61	4	<5	41	3.4	<5	0.17	<.5	8	31	16	2.84	0.03	2	0.28
L122N-97+75E	<.3	1.40	5	<5	54	2.0	<5	0.30	<.5	9	28	21	2.42	0.04	4	0.37
L122N-98+00E	<.3	1.19	5	<5	51	3.3	<5	0.12	<.5	5	21	14	1.19	0.03	7	0.26
L122N-98+25E	<.3	1.21	3	<5	50	2.5	<5	0.19	<.5	10	29	16	2.66	0.04	5	0.38
L122N-98+50E	<.3	0.94	4	<5	41	2.2	<5	0.15	<.5	7	21	9	1.91	0.03	3	0.27
L122N-98+75E	<.3	2.19	3	<5	39	3.0	<5	0.19	<.5	11	31	15	2.55	0.03	2	0.32
L122N-99+0E	<.3	1.63	4	<5	45	1.5	<5	0.16	<.5	7	27	35	2.21	0.03	3	0.22
L122N-99+25E	<.3	1.46	2	<5	44	2.2	<5	0.13	<.5	6	24	9	2.02	0.02	3	0.19
L122N-99+50E	<.3	0.93	5	<5	30	0.8	<5	0.23	<.5	6	18	12	1.38	0.02	4	0.23
L122N-99+75E	<.3	0.90	6	<5	54	0.5	<5	0.41	<.5	11	23	15	2.00	0.06	7	0.38
L122N-100+00E	<.3	1.08	4	<5	45	1.7	<5	0.42	<.5	8	21	16	1.75	0.03	8	0.26
L122N-100+25E	<.3	1.26	3	<5	35	1.7	<5	0.22	<.5	7	21	15	1.56	0.02	6	0.25
L122N-100+50E	<.3	1.03	6	<5	26	0.9	<5	0.17	<.5	5	20	13	1.42	0.02	4	0.16
L122N-100+75E	<.3	2.78	3	<5	57	3.7	<5	0.22	<.5	15	37	22	2.60	0.04	5	0.51

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L122N-97+25E	85	<1	0.03	67	182	10	<.01	<2	<5	0.02	<5	10	0.13	66	<2	<1
L122N-97+50E	127	<1	0.03	116	497	9	<.01	<2	<5	0.02	<5	9	0.15	90	<2	23
L122N-97+75E	169	<1	0.02	101	444	7	0.02	<2	<5	0.03	<5	16	0.15	88	<2	57
L122N-98+00E	83	<1	0.03	53	214	9	0.03	<2	<5	0.02	<5	10	0.18	46	<2	47
L122N-98+25E	248	<1	0.03	104	456	7	0.01	<2	<5	0.02	<5	11	0.16	88	<2	50
L122N-98+50E	125	<1	0.02	78	152	6	0.01	<2	<5	0.02	<5	11	0.17	76	<2	26
L122N-98+75E	134	<1	0.04	103	735	6	0.02	<2	<5	0.02	8	9	0.14	75	<2	19
L122N-99+0E	92	<1	0.03	93	463	8	0.02	<2	<5	0.03	12	10	0.13	68	<2	33
L122N-99+25E	81	<1	0.02	84	303	6	<.01	<2	<5	0.02	<5	8	0.13	68	<2	35
L122N-99+50E	97	<1	0.04	65	414	5	<.01	<2	<5	0.02	<5	11	0.13	55	<2	20
L122N-99+75E	231	<1	0.05	75	1024	4	<.01	<2	<5	0.02	<5	14	0.15	66	<2	65
L122N-100+00E	143	<1	0.04	88	337	3	0.02	<2	<5	0.02	<5	18	0.12	55	<2	58
L122N-100+25E	102	<1	0.03	72	324	<2	<.01	<2	<5	0.02	5	11	0.13	49	<2	<1
L122N-100+50E	92	<1	0.03	69	236	6	<.01	<2	<5	0.02	14	9	0.13	54	<2	6
L122N-100+75E	156	<1	0.03	122	764	4	0.01	<2	<5	0.02	7	9	0.14	79	<2	31

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Berland Resources
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July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L122N-101+00E	<.3	1.43	3	<5	51	0.7	<5	0.27	<.5	7	24	11	1.74	0.03	4	0.23
L122N-101+25E	<.3	1.24	3	<5	62	<.1	<5	0.18	<.5	6	25	10	1.96	0.03	3	0.20
L122N-101+50E	<.3	1.87	6	<5	77	2.9	<5	0.22	<.5	11	29	12	2.39	0.03	4	0.34
L122N-101+75E	<.3	1.23	5	<5	60	2.1	<5	0.14	<.5	6	26	9	1.96	0.03	3	0.16
L122N-102+00E	<.3	2.73	6	<5	67	4.1	<5	0.19	<.5	14	37	20	2.82	0.05	4	0.44
L122N-102+25E	<.3	1.18	3	<5	65	1.0	<5	0.18	<.5	8	29	13	2.49	0.04	4	0.27
L122N-102+50E	<.3	1.09	3	<5	27	1.2	<5	0.17	<.5	5	17	10	1.30	0.02	3	0.19
L122N-102+75E	<.3	1.28	5	<5	60	1.7	<5	0.27	<.5	8	22	20	1.54	0.03	5	0.30
L122N-103+00E	<.3	1.68	3	<5	47	3.2	<5	0.14	<.5	9	31	10	2.36	0.04	5	0.31
L122N-103+75E	<.3	2.06	4	<5	48	4.3	<5	0.14	<.5	6	39	21	2.41	0.03	6	0.34
L122N-104+00E	<.3	2.13	6	<5	56	3.5	<5	0.16	<.5	11	40	19	3.06	0.04	6	0.38
L122N-104+25E	<.3	2.04	5	<5	48	1.8	<5	0.18	<.5	10	33	13	2.51	0.04	5	0.43
L122N-104+50E	<.3	1.83	3	<5	50	3.9	<5	0.16	<.5	8	34	14	3.16	0.04	6	0.31
L122N-104+75E	<.3	2.11	6	<5	63	2.7	<5	0.18	<.5	9	32	28	2.58	0.04	8	0.36
L122N-105+00E	<.3	1.43	4	<5	53	2.2	<5	0.17	<.5	8	32	12	2.97	0.04	4	0.29

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L122N-101+00E	143	<1	0.04	78	697	2	<.01	<2	<5	0.02	<5	15	0.12	57	<2	8
L122N-101+25E	167	<1	0.03	85	758	7	0.01	<2	<5	0.02	5	11	0.12	65	<2	3
L122N-101+50E	207	<1	0.03	105	773	<2	<.01	<2	<5	0.02	<5	12	0.14	80	<2	54
L122N-101+75E	116	<1	0.02	81	815	6	<.01	<2	<5	0.03	<5	10	0.12	66	<2	65
L122N-102+00E	186	<1	0.03	120	1118	7	0.01	<2	<5	0.02	<5	10	0.15	79	<2	36
L122N-102+25E	144	<1	0.02	100	530	8	<.01	<2	<5	0.03	<5	14	0.16	85	<2	68
L122N-102+50E	88	<1	0.03	58	344	3	<.01	<2	<5	0.02	<5	8	0.10	44	<2	20
L122N-102+75E	104	<1	0.04	72	482	6	0.01	<2	<5	0.02	12	14	0.15	55	<2	32
L122N-103+00E	114	<1	0.03	98	208	7	<.01	<2	<5	0.02	<5	10	0.18	83	<2	15
L122N-103+75E	101	<1	0.03	94	412	8	0.02	<2	<5	0.02	6	10	0.13	80	<2	10
L122N-104+00E	142	<1	0.03	126	963	3	0.02	<2	<5	0.02	6	9	0.17	96	<2	75
L122N-104+25E	154	<1	0.03	109	546	5	<.01	<2	<5	0.02	<5	10	0.14	79	<2	22
L122N-104+50E	147	<1	0.02	122	826	7	<.01	<2	<5	0.02	12	10	0.17	103	<2	32
L122N-104+75E	188	<1	0.03	107	775	5	0.01	<2	<5	0.02	<5	11	0.15	79	<2	38
L122N-105+00E	157	<1	0.01	118	670	5	<.01	<2	<5	0.03	10	13	0.17	95	<2	36

Certified By:

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Berland Resources
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Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L120N-95+00E	<.3	1.75	2	<5	40	2.0	<5	0.14	<.5	8	25	21	2.22	0.02	1	0.20
L120N-95+25E	<.3	2.19	5	<5	62	4.3	<5	0.16	<.5	9	31	27	3.47	0.04	4	0.32
L120N-95+50E	<.3	1.00	5	<5	42	1.1	<5	0.16	<.5	6	21	12	2.40	0.03	2	0.18
L120N-95+75E	<.3	2.20	6	<5	45	3.0	<5	0.16	<.5	9	29	16	2.64	0.04	3	0.29
L120N-96+00E	<.3	1.37	6	<5	68	2.8	<5	0.14	<.5	5	23	13	2.41	0.03	3	0.16
L120N-96+25E	<.3	1.92	4	<5	61	2.8	<5	0.27	<.5	11	27	42	2.42	0.05	7	0.37
L120N-96+50E	0.3	1.85	5	<5	45	2.2	<5	0.23	<.5	9	28	14	2.50	0.03	4	0.31
L120N-96+75E	<.3	1.75	5	<5	66	2.2	<5	0.24	<.5	8	26	23	1.87	0.03	5	0.47
L120N-97+00E	<.3	1.62	7	<5	37	2.9	<5	0.18	<.5	9	30	21	2.59	0.03	2	0.26
L120N-97+25E	<.3	1.03	2	<5	44	1.3	<5	0.19	<.5	7	24	18	2.20	0.03	2	0.20
L120N-97+50E	<.3	1.56	4	<5	54	2.7	<5	0.20	<.5	8	24	16	2.38	0.03	3	0.24
L120N-97+75E	<.3	0.82	4	<5	68	1.4	<5	0.22	<.5	6	21	10	1.83	0.05	4	0.19
L120N-98+00E	<.3	0.88	3	<5	45	1.5	<5	0.14	<.5	2	14	14	0.76	0.02	4	0.14
L120N-98+25E	<.3	1.68	5	<5	56	3.0	<5	0.14	<.5	8	24	11	1.97	0.03	1	0.26
L120N-98+50E	<.3	2.32	6	<5	64	3.9	<5	0.13	<.5	9	30	13	2.77	0.04	3	0.27

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L120N-95+00E	86	<1	0.03	94	236	5	0.01	<2	<5	0.02	6	9	0.15	79	<2	38
L120N-95+25E	114	<1	0.03	135	684	8	0.01	<2	<5	0.02	<5	9	0.16	103	<2	17
L120N-95+50E	93	<1	0.02	76	399	7	<.01	<2	<5	0.03	<5	10	0.14	86	<2	28
L120N-95+75E	131	<1	0.03	108	922	5	0.01	<2	<5	0.02	<5	8	0.12	75	<2	45
L120N-96+00E	114	<1	0.02	98	968	8	0.02	<2	<5	0.03	<5	10	0.11	74	<2	31
L120N-96+25E	174	<1	0.03	106	913	7	0.02	<2	<5	0.02	12	12	0.13	73	<2	81
L120N-96+50E	150	<1	0.03	103	601	4	0.01	<2	<5	0.02	<5	12	0.14	71	<2	19
L120N-96+75E	106	<1	0.04	87	275	5	<.01	<2	<5	0.03	7	14	0.13	57	<2	43
L120N-97+00E	116	<1	0.03	102	455	8	<.01	<2	<5	0.01	<5	10	0.14	83	<2	51
L120N-97+25E	133	<1	0.03	79	413	5	0.01	<2	<5	0.02	7	11	0.12	79	<2	8
L120N-97+50E	101	<1	0.02	100	434	5	0.02	<2	<5	0.02	15	12	0.13	82	<2	46
L120N-97+75E	225	<1	0.02	66	395	12	<.01	<2	<5	0.02	<5	16	0.12	67	<2	46
L120N-98+00E	47	<1	0.02	41	185	7	0.01	<2	<5	0.03	<5	12	0.08	28	<2	58
L120N-98+25E	97	<1	0.02	88	313	3	<.01	<2	<5	0.02	<5	9	0.11	64	<2	81
L120N-98+50E	118	<1	0.03	115	647	6	0.01	<2	<5	0.03	<5	11	0.12	80	<2	52

Certified By: ____________________________

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July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L120N-98+75E	<.3	2.31	7	<5	43	2.8	<5	0.16	<.5	9	30	18	2.67	0.03	2	0.32
L120N-99+00E	<.3	1.97	7	<5	33	3.3	<5	0.19	<.5	11	31	20	2.24	0.03	6	0.29
L120N-100+25E	<.3	0.63	6	<5	24	1.4	<5	0.14	<.5	6	28	8	2.32	0.02	1	0.13
L120N-100+50E	<.3	1.77	6	<5	39	3.0	<5	0.16	<.5	9	29	12	2.26	0.03	3	0.26
L120N-100+75E	<.3	2.13	8	<5	53	3.9	<5	0.18	<.5	11	33	16	2.51	0.04	4	0.36
L120N-101+00E	<.3	2.24	5	<5	71	4.4	<5	0.17	<.5	11	38	26	2.92	0.04	4	0.40
L120N-101+25E	<.3	0.92	4	<5	40	1.9	<5	0.14	<.5	6	30	11	2.38	0.04	2	0.17
L120N-101+50E	<.3	0.99	6	<5	28	0.4	<5	0.27	<.5	6	21	23	1.40	0.02	5	0.28
L120N-101+75E	0.3	1.38	6	<5	48	2.5	<5	0.16	<.5	7	27	12	2.11	0.03	1	0.19
L120N-102+00E	<.3	1.28	3	<5	23	2.3	<5	0.18	<.5	6	23	14	1.67	0.02	1	0.22
L120N-102+75E	<.3	1.26	4	<5	43	2.3	<5	0.20	<.5	8	22	9	1.71	0.03	2	0.24
L120N-103+00E	<.3	1.68	3	<5	39	3.1	<5	0.20	<.5	12	39	14	3.52	0.04	4	0.38
L120N-103+25E	<.3	2.07	7	<5	55	3.8	<5	0.15	<.5	12	34	12	2.84	0.04	4	0.29
L120N-103+50E	<.3	1.37	5	<5	40	1.8	<5	0.15	<.5	7	24	12	1.93	0.03	1	0.22
L120N-103+75E	<.3	1.88	8	<5	58	1.7	<5	0.14	<.5	9	25	15	2.03	0.04	2	0.25

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L120N-98+75E	140	<1	0.03	99	872	5	0.01	<2	<5	0.01	<5	9	0.12	76	<2	63
L120N-99+00E	129	<1	0.04	98	222	5	<.01	<2	<5	0.02	12	11	0.15	72	<2	55
L120N-100+25E	95	<1	0.03	68	477	7	<.01	<2	<5	0.03	8	11	0.19	92	<2	40
L120N-100+50E	116	<1	0.03	101	974	4	0.01	<2	<5	0.02	5	9	0.13	73	<2	47
L120N-100+75E	139	<1	0.03	110	868	5	<.01	<2	<5	0.02	<5	10	0.14	79	<2	41
L120N-101+00E	147	<1	0.03	125	830	8	<.01	<2	<5	0.02	<5	14	0.16	89	<2	60
L120N-101+25E	113	<1	0.02	92	531	9	<.01	<2	<5	0.02	8	12	0.15	90	<2	61
L120N-101+50E	128	<1	0.04	74	648	3	<.01	<2	<5	0.02	10	12	0.11	46	<2	15
L120N-101+75E	97	<1	0.02	87	276	5	<.01	<2	<5	0.03	10	11	0.14	69	<2	21
L120N-102+00E	100	<1	0.03	77	302	5	<.01	<2	<5	0.02	12	9	0.11	53	<2	31
L120N-102+75E	141	<1	0.03	81	511	<2	<.01	<2	<5	0.02	<5	9	0.10	54	<2	28
L120N-103+00E	201	<1	0.03	134	1424	6	<.01	<2	<5	0.02	14	10	0.18	127	<2	89
L120N-103+25E	148	<1	0.02	125	967	9	<.01	<2	<5	0.01	10	9	0.15	101	<2	94
L120N-103+50E	115	<1	0.02	93	511	4	<.01	<2	<5	0.02	9	8	0.11	63	<2	17
L120N-103+75E	189	<1	0.02	88	975	4	<.01	<2	<5	0.01	<5	8	0.11	62	<2	30

Certified By

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %
L120N-104+00E	<.3	1.40	4	<5	35	2.1	<5	0.15
L120N-104+25E	<.3	0.39	7	<5	27	<.1	<5	0.08
Mere1	<.3	1.38	5	<5	50	2.4	<5	0.12
Mere2	<.3	1.68	4	<5	55	2.7	<5	0.14
L122N-102+50E	<.3	1.10	4	<5	27	0.7	<5	0.16
L128N-95-00E	<.3	1.59	4	<5	36	2.1	<5	0.12
L128N-95-25E	<.3	1.22	7	<5	37	1.6	<5	0.14
L128N-97-00E	<.3	0.97	5	<5	53	0.3	<5	0.40
L128N-97-25E	<.3	1.28	5	<5	31	1.6	<5	0.12
L128N-97-50E	<.3	1.48	6	<5	36	1.4	<5	0.23
L128N-98-00E	<.3	1.08	4	<5	54	0.5	<5	0.46
L128N-98-25E	<.3	1.27	3	<5	35	2.0	<5	0.27
L128N-98-50E	<.3	0.90	7	<5	39	1.0	<5	0.22
L128N-98-75E	<.3	2.01	5	<5	49	2.6	<5	0.19
L128N-99-00E	<.3	2.14	4	<5	51	1.4	<5	0.20

SAMPLE #	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L120N-104+00E	<.5	7	21	9	1.95	0.03	3	0.18
L120N-104+25E	<.5	<2	8	6	0.64	0.01	<1	0.04
Mere1	<.5	5	63	66	1.66	0.02	2	0.24
Mere2	<.5	6	82	93	1.81	0.02	4	0.30
L122N-102+50E	<.5	6	19	12	1.33	0.02	4	0.20
L128N-95-00E	<.5	5	27	16	2.49	0.02	3	0.17
L128N-95-25E	<.5	6	23	26	2.17	0.02	3	0.25
L128N-97-00E	<.5	9	20	20	1.58	0.03	8	0.35
L128N-97-25E	<.5	6	22	13	1.73	0.02	2	0.20
L128N-97-50E	<.5	10	23	26	1.83	0.04	7	0.37
L128N-98-00E	<.5	13	46	80	2.52	0.05	17	0.43
L128N-98-25E	<.5	9	26	30	1.89	0.03	8	0.34
L128N-98-50E	<.5	6	18	16	1.49	0.02	6	0.23
L128N-98-75E	<.5	11	29	31	2.19	0.03	3	0.39
L128N-99-00E	<.5	11	29	19	2.16	0.03	3	0.41

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm
L120N-104+00E	103	<1	0.03	85	574	5	0.02	<2
L120N-104+25E	37	<1	0.02	31	<100	5	<.01	<2
Mere1	62	<1	0.01	90	369	4	0.02	<2
Mere2	81	<1	0.03	93	438	6	0.02	<2
L122N-102+50E	90	<1	0.02	63	304	3	<.01	<2
L128N-95-00E	77	<1	0.03	101	321	8	<.01	<2
L128N-95-25E	88	<1	0.03	79	219	8	0.02	<2
L128N-97-00E	163	<1	0.04	79	583	4	<.01	<2
L128N-97-25E	85	<1	0.02	72	202	6	<.01	<2
L128N-97-50E	145	<1	0.03	80	388	<2	<.01	<2
L128N-98-00E	201	<1	0.05	93	584	4	<.01	<2
L128N-98-25E	135	<1	0.04	87	386	7	<.01	<2
L128N-98-50E	98	<1	0.03	74	343	6	<.01	<2
L128N-98-75E	139	<1	0.03	97	559	6	<.01	<2
L128N-99-00E	148	<1	0.04	95	786	5	<.01	<2

SAMPLE #	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L120N-104+00E	<5	0.02	5	8	0.11	63	<2	45
L120N-104+25E	<5	0.03	<5	6	0.06	20	<2	11
Mere1	<5	0.02	10	11	0.09	55	<2	50
Mere2	<5	0.02	<5	12	0.10	55	<2	51
L122N-102+50E	<5	0.02	<5	7	0.10	42	<2	30
L128N-95-00E	<5	0.02	8	9	0.13	82	<2	7
L128N-95-25E	<5	0.02	7	9	0.14	80	<2	21
L128N-97-00E	<5	0.02	<5	15	0.12	51	<2	15
L128N-97-25E	<5	0.02	7	8	0.15	67	<2	10
L128N-97-50E	<5	0.02	15	10	0.14	55	<2	9
L128N-98-00E	<5	0.02	11	16	0.14	86	<2	9
L128N-98-25E	<5	0.02	7	14	0.15	61	<2	44
L128N-98-50E	<5	0.02	10	12	0.13	53	<2	25
L128N-98-75E	<5	0.02	12	10	0.13	71	<2	59
L128N-99-00E	<5	0.02	<5	9	0.12	71	<2	7

Certified By:

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

July 30, 2001

Job #200140321

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L128N-99-25E	<.3	1.70	4	<5	46	2.7	<5	0.18	<.5	7	25	11	2.38	0.03	3	0.27
L128N-99-50E	<.3	1.14	4	<5	42	1.6	<5	0.17	<.5	6	23	9	2.13	0.03	2	0.20
L128N-99-75E	<.3	0.83	4	<5	83	1.3	<5	0.22	<.5	5	20	45	1.57	0.02	2	0.16
L128N-100-00E	<.3	1.32	<2	<5	92	1.7	<5	0.39	<.5	6	23	26	2.12	0.03	5	0.20
L128N-100-25E	<.3	1.53	6	<5	44	2.9	<5	0.17	<.5	7	24	11	1.91	0.03	3	0.28
L128N-100-50E	<.3	1.26	6	<5	39	1.0	<5	0.18	<.5	6	20	10	1.81	0.03	3	0.19
L128N-100-75E	<.3	1.16	<2	<5	44	2.3	<5	0.16	<.5	5	22	9	2.04	0.03	2	0.18
L128N-101-00E	<.3	1.14	2	<5	51	3.5	<5	0.12	<.5	6	23	7	2.35	0.03	3	0.18
L128N-101-25E	<.3	1.71	4	<5	46	2.4	<5	0.15	<.5	8	25	21	2.17	0.03	2	0.27
L128N-101-50E	<.3	1.55	5	<5	37	2.1	<5	0.17	<.5	6	20	10	1.78	0.02	1	0.19
L128N-101-75E	<.3	2.18	6	<5	68	2.8	<5	0.23	<.5	8	27	11	2.19	0.04	2	0.33
L128N-102-00E	<.3	0.96	6	<5	72	0.9	<5	0.13	<.5	4	19	9	1.75	0.02	2	0.13
L128N-102-25E	<.3	1.12	3	<5	30	2.1	<5	0.16	<.5	5	19	10	1.52	0.02	4	0.18
L128N-102-75E	<.3	1.96	3	<5	62	3.7	<5	0.16	<.5	11	34	11	3.11	0.04	3	0.32

	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L128N-99-25E	121	<1	0.02	98	579	6	0.02	<2	<5	0.01	<5	10	0.12	71	<2	39
L128N-99-50E	117	<1	0.02	92	692	5	<.01	<2	<5	0.02	<5	10	0.12	74	<2	38
L128N-99-75E	143	<1	0.03	62	582	5	<.01	<2	<5	0.02	<5	14	0.10	55	<2	21
L128N-100-00E	197	<1	0.02	90	559	6	0.01	<2	<5	0.02	<5	21	0.11	70	<2	49
L128N-100-25E	134	<1	0.03	88	550	4	0.02	<2	<5	0.02	6	9	0.11	61	<2	32
L128N-100-50E	106	<1	0.02	78	505	5	<.01	<2	<5	0.02	<5	10	0.10	57	<2	37
L128N-100-75E	123	<1	0.02	86	723	5	<.01	<2	<5	0.01	<5	10	0.11	66	<2	59
L128N-101-00E	102	<1	0.02	93	414	10	0.02	<2	<5	0.01	7	9	0.14	83	<2	38
L128N-101-25E	132	<1	0.02	99	546	6	0.01	<2	<5	0.01	10	8	0.11	67	<2	59
L128N-101-50E	93	<1	0.02	81	629	3	<.01	<2	<5	0.01	9	9	0.09	51	<2	40
L128N-101-75E	164	<1	0.02	98	1129	4	0.03	<2	<5	0.02	5	13	0.11	63	<2	52
L128N-102-00E	125	<1	0.02	69	684	9	<.01	<2	<5	0.02	6	10	0.10	53	<2	61
L128N-102-25E	92	<1	0.03	67	174	4	<.01	<2	<5	0.02	6	9	0.12	52	<2	7
L128N-102-75E	126	<1	0.02	124	541	5	<.01	<2	<5	0.02	6	10	0.16	95	<2	56

Certified By:

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.

1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
PHONE (807) 623-6448
FAX (807) 623-6820

Certificate of Analysis

Friday, July 27, 2001

Berland Resources
244 Camelot St., Suite 203
Thunder Bay, ON, CA
P7A4B1
Ph#: (807) 344-5698
Fax#: (807) 345-5460
Email

Date Received : 17-Jul-01
Date Completed : 26-Jul-01
Job # 200140355
Reference :
Sample #: 71 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
8714		L72N-91E+0	< 5	< 15	< 10	
8715		L72N-91E+25	< 5	< 15	< 10	
8716		L72N-91E+50	< 5	< 15	< 10	
8717		L72N-91E+75	< 5	< 15	< 10	
8718		L72N-92E+0	< 5	< 15	< 10	
8719		L72N-92E+25	< 5	< 15	< 10	
8720		L72N-92E+50	< 5	< 15	< 10	
8721		L72N-92E+75	< 5	< 15	< 10	
8722		L72N-93E+0	< 5	< 15	< 10	
8723		L72N-93E+25	< 5	< 15	< 10	
8724	Check	L72N-93E+25	< 5	< 15	< 10	
8725		L74N-91E+0	5	< 15	< 10	
8726		L74N-91E+25	5	< 15	< 10	
8727		L74N-91E+50	< 5	< 15	< 10	
8728		L74N-91E+75	< 5	< 15	< 10	
8729		L74N-92E+0	< 5	< 15	< 10	
8730		L74N-92E+25	< 5	< 15	< 10	
8731		L74N-92E+50	< 5	< 15	< 10	
8732		L74N-92E+75	< 5	< 15	< 10	
8733		L74N-93E+0	< 5	< 15	< 10	
8734	Check	L74N-93E+0	< 5	< 15	< 10	
8735		L74N-93E+25	< 5	< 15	< 10	
8736		L74N-93E+50	35	< 15	< 10	

PROCEDURE CODES: AL4APP

Certified By:

AL907-0135-07/27/2001 09:46 AM

ACCURASSAY LABORATORIES

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Reference :
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Accurassay #	Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
8737	L74N-93E+75	<5	15	<10	
8738	L74N-95E+25	<5	22	<10	
8739	L74N-95E+50	<5	<15	<10	
8740	L74N-95E+75	<5	<15	<10	
8742	L74N-96E+0	<5	<15	<10	
8743	L74N-96E+25	<5	35	<10	
8744	L74N-96E+50	<5	<15	<10	
8745 Check	L74N-96E+50	<5	<15	<10	
8746	L74N-96E+75	<5	<15	<10	
8747	L74N-98E+25	<5	15	<10	
8748	L74N-98E+50	<5	22	<10	
8749	L74N-98E+75	<5	16	<10	
8750	L74N-99E+0	60	<15	<10	
8751	L74N-99E+25	<5	<15	<10	
8752	L74N-99E+50	<5	37	<10	
8753	L74N-99E+75	<5	26	<10	
8754	L74N-100E+0	<5	20	<10	
8755 Check	L74N-100E+0	<5	26	<10	
8756	L74N-100E+25	7	26	<10	
8757	L74N-100E+50	<5	31	<10	
8758	L74N-100E+75	<5	19	<10	
8759	L74N-101E+0	<5	<15	<10	
8760	L76N-91E+0	<5	<15	<10	

PROCEDURE CODES: AL4APP

Certified By:

AL907-0135-07/27/2001 09:46 AM

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Date Received : 17-Jul-01
Date Completed : 26-Jul-01
Job # 200140355
Reference :
Sample #: 71 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
8761		L76N-91E+25	< 5	< 15	< 10	
8762		L76N-92E+0	< 5	< 15	< 10	
8763		L76N-92E+25	< 5	< 15	< 10	
8764		L76N-92E+50	< 5	< 15	< 10	
8765	Check	L76N-92E+50	< 5	< 15	< 10	
8766		L76N-92E+75	< 5	< 15	< 10	
8767		L76N-93E+0	< 5	< 15	< 10	
8768		L76N-93E+25	< 5	< 15	< 10	
8769		L76N-93E+50	< 5	< 15	< 10	
8770		L76N-93E+75	< 5	< 15	< 10	
8771		L76N-94E+0	< 5	< 15	< 10	
8772		L76N-94E+25	< 5	< 15	< 10	
8773		L76N-94E+50	< 5	< 15	< 10	
8774		L76N-94E+75	< 5	< 15	< 10	
8775	Check	L76N-94E+75	< 5	< 15	< 10	
8776		L76N-95E+0	< 5	< 15	< 10	
8777		L76N-95E+25	39	< 15	< 10	
8778		L76N-95E+50	< 5	< 15	< 10	
8779		L76N-95E+75	< 5	< 15	< 10	
8780		L76N-96E+0	< 5	< 15	< 10	
8781		L76N-96E+25	< 5	22	< 10	
8782		L76N-96E+50	< 5	< 15	< 10	
8783		L76N-96E+75	18	< 15	< 10	

PROCEDURE CODES: AL4APP

Certified By:

AL907-0135-07/27/2001 09:46 AM

ACCURASSAY LABORATORIES

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THUNDER BAY, ONTARIO P7B 6G3
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Certificate of Analysis

Friday, July 27, 2001

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Date Received : 17-Jul-01
Date Completed : 26-Jul-01
Job # 200140355
Reference :
Sample #: 71 Soil

Accurassay #		Client Id	Au ppb	Pt ppb	Pd ppb	Rh ppb
8784		L76N-98E+75	< 5	< 15	< 10	
8785	Check	L76N-98E+75	< 5	< 15	< 10	
8786		L76N-99E+0	< 5	< 15	< 10	
8787		L76N-99E+25	< 5	< 15	< 10	
8788		L76N-99E+50	189	< 15	< 10	
8789		L76N-99E+75	< 5	16	< 10	
8790		L76N-100E+0	< 5	15	< 10	
8791		L76N-100E+75	< 5	< 15	< 10	
8792		L76N-101E+0	< 5	< 15	< 10	

PROCEDURE CODES: AL4APP

Certified By:

AL907-0135-07/27/2001 09:59 AM

ACCURASSAY LABORATORIES
A DIVISION OF ASSAY LABORATORY SERVICES INC.
1070 LITHIUM DRIVE, UNIT 2
THUNDER BAY, ONTARIO P7B 6G3
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 23, 2001

Job #200140355

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L72N-91E+0	<0.3	2.24	3	9	65	0.5	<5	0.20	<0.5	11	26	19	2.18	0.03	8	0.30
L72N-91E+25	<0.3	0.70	3	7	71	0.1	<5	0.15	<0.5	6	17	7	1.82	0.02	6	0.15
L72N-91E+50	<0.3	1.98	<2	10	49	0.5	<5	0.13	<0.5	9	24	12	2.57	0.03	8	0.25
L72N-91E+75	<0.3	2.06	<2	11	33	0.5	<5	0.20	<0.5	11	25	23	1.96	0.03	9	0.35
L72N-92E+0	<0.3	1.96	<2	10	55	0.5	<5	0.12	<0.5	9	24	15	2.51	0.03	8	0.23
L72N-92E+25	<0.3	1.17	<2	11	36	0.2	<5	0.21	<0.5	5	18	19	1.19	0.02	8	0.24
L72N-92E+50	<0.3	1.12	<2	12	47	0.2	<5	0.25	<0.5	9	17	18	1.38	0.02	9	0.28
L72N-92E+75	<0.3	2.23	<2	9	44	0.4	<5	0.21	<0.5	9	24	23	1.83	0.02	8	0.25
L72N-93E+0	<0.3	2.23	<2	9	42	0.6	<5	0.15	<0.5	10	24	13	2.38	0.03	7	0.26
L72N-93E+25	<0.3	2.28	<2	9	52	0.5	<5	0.16	<0.5	10	26	14	2.48	0.03	8	0.28
L74N-91E+0	<0.3	1.71	<2	7	42	0.4	<5	0.16	<0.5	8	21	19	1.78	0.03	7	0.26
L74N-91E+25	<0.3	1.36	<2	10	44	0.2	<5	0.26	<0.5	9	19	17	1.78	0.02	10	0.30
L74N-91E+50	<0.3	2.14	<2	11	47	0.4	<5	0.20	<0.5	11	33	23	1.95	0.03	10	0.36
L74N-91E+75	<0.3	1.72	<2	9	32	0.3	<5	0.19	<0.5	8	22	14	1.60	0.02	7	0.24
L74N-92E+0	<0.3	2.08	<2	8	39	0.4	<5	0.18	<0.5	8	25	21	2.15	0.02	9	0.32

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L72N-91E+0	134.8	1	0.03	21	633	6	0.02	<2	<5	0.01	<5	9	0.11	68	3	27
L72N-91E+25	192.4	<1	<0.01	10	560	7	0.02	<2	<5	0.02	<5	11	0.09	63	<2	29
L72N-91E+50	143.6	<1	0.01	17	677	7	0.02	<2	<5	0.02	<5	7	0.11	78	<2	36
L72N-91E+75	132.5	<1	0.03	21	467	12	0.02	<2	<5	<0.01	<5	10	0.12	69	<2	18
L72N-92E+0	105.2	<1	0.02	16	402	9	0.02	<2	<5	0.01	<5	7	0.13	78	<2	24
L72N-92E+25	80.6	<1	0.03	12	410	5	0.02	<2	<5	0.02	<5	11	0.11	50	<2	18
L72N-92E+50	111.4	<1	0.03	17	472	3	<0.01	<2	<5	0.01	<5	11	0.11	50	<2	22
L72N-92E+75	99.9	<1	0.03	19	445	5	0.02	<2	<5	0.01	<5	10	0.12	59	<2	19
L72N-93E+0	127.4	<1	0.02	18	530	6	0.02	<2	<5	<0.01	<5	8	0.11	71	<2	37
L72N-93E+25	111.4	<1	0.02	20	455	6	0.02	<2	<5	0.01	<5	8	0.13	79	<2	30
L74N-91E+0	122.4	<1	0.02	16	444	5	0.02	<2	<5	<0.01	<5	8	0.10	56	<2	26
L74N-91E+25	110.5	<1	0.04	18	431	5	<0.01	<2	<5	0.01	<5	13	0.11	65	<2	17
L74N-91E+50	123.6	<1	0.04	22	362	5	0.02	<2	<5	<0.01	<5	10	0.13	66	<2	34
L74N-91E+75	99.0	<1	0.03	16	376	3	0.02	<2	<5	<0.01	<5	9	0.11	58	<2	27
L74N-92E+0	100.7	<1	0.03	17	446	5	0.02	<2	<5	<0.01	<5	8	0.11	71	<2	18

Certified By:

ACCURASSAY LABORATORIES
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1070 LITHIUM DRIVE, UNIT 2
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Berland Resources
244 Camelot St., Suite 203
Thunder Bay, Ontario
P7A 4B1

October 23, 2001

Job #200140355

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L74N-92E+25	<0.3	1.62	<2	9	41	0.3	<5	0.12	<0.5	8	22	11	2.52	0.03	6	0.27
L74N-92E+50	<0.3	2.28	<2	9	38	0.5	<5	0.14	<0.5	9	26	15	2.52	0.03	7	0.27
L74N-92E+75	<0.3	1.42	<2	7	37	0.3	<5	0.23	<0.5	9	21	17	1.64	0.02	9	0.28
L74N-93E+0	<0.3	1.50	<2	10	63	0.4	<5	0.10	<0.5	7	22	10	2.37	0.03	6	0.17
L74N-93E+25	<0.3	2.17	<2	8	50	0.5	<5	0.20	<0.5	11	26	17	2.41	0.03	9	0.29
L74N-93E+50	<0.3	1.23	<2	8	36	0.2	<5	0.14	<0.5	5	21	16	1.77	0.02	7	0.17
L74N-93E+75	<0.3	0.94	<2	7	51	0.1	<5	0.42	<0.5	9	20	21	1.53	0.04	12	0.33
L74N-95E+25	<0.3	1.34	<2	7	44	0.2	<5	0.27	<0.5	8	25	16	1.75	0.04	12	0.36
L74N-95E+50	<0.3	2.10	<2	9	50	0.6	<5	0.14	<0.5	10	28	13	2.86	0.03	7	0.25
L74N-95E+75	<0.3	1.60	<2	9	64	0.4	<5	0.15	<0.5	8	22	10	2.08	0.03	7	0.19
L74N-96E+0	<0.3	2.61	<2	8	48	0.6	<5	0.16	<0.5	11	30	12	2.70	0.03	8	0.33
L74N-96E+25	<0.3	1.81	<2	11	46	0.4	<5	0.22	<0.5	8	22	13	1.96	0.03	8	0.42
L74N-96E+50	<0.3	1.58	<2	11	39	0.4	<5	0.21	<0.5	9	21	13	1.99	0.03	7	0.24
L74N-96E+75	<0.3	1.79	<2	11	40	0.4	<5	0.19	<0.5	9	24	12	1.97	0.02	8	0.25

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L74N-92E+25	89.3	<1	0.02	13	405	7	0.03	<2	<5	0.01	<5	8	0.13	82	<2	22
L74N-92E+50	99.2	<1	0.02	17	472	7	0.03	<2	<5	<0.01	<5	8	0.12	76	<2	28
L74N-92E+75	133.2	<1	0.03	19	564	4	0.01	<2	<5	0.01	<5	10	0.10	55	<2	25
L74N-93E+0	107.5	<1	0.01	12	393	8	0.01	<2	<5	<0.01	<5	8	0.12	76	<2	40
L74N-93E+25	157.6	<1	0.03	22	612	5	0.02	<2	<5	0.01	<5	10	0.13	76	<2	24
L74N-93E+50	64.1	<1	0.02	9	274	7	0.02	<2	<5	0.01	<5	10	0.12	64	<2	26
L74N-93E+75	138.7	<1	0.05	16	676	5	<0.01	<2	<5	0.01	<5	16	0.11	55	<2	29
L74N-95E+25	112.6	<1	0.03	20	444	4	<0.01	<2	<5	0.02	<5	12	0.12	48	<2	27
L74N-95E+50	109.6	<1	0.01	20	526	7	0.02	<2	<5	<0.01	<5	8	0.13	85	<2	28
L74N-95E+75	139.5	<1	0.02	16	1210	9	0.01	<2	<5	0.02	<5	10	0.10	67	<2	25
L74N-96E+0	127.7	<1	0.02	21	643	6	0.02	<2	<5	<0.01	<5	8	0.12	85	<2	33
L74N-96E+25	89.4	<1	0.03	16	336	5	0.01	<2	<5	0.01	<5	9	0.10	68	<2	13
L74N-96E+50	134.8	<1	0.02	17	619	7	0.02	<2	<5	0.01	<5	10	0.11	67	<2	35
L74N-96E+75	114.7	<1	0.02	17	382	5	0.01	<2	<5	<0.01	<5	9	0.11	65	<2	19

Certified By:

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Berland Resources
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October 23, 2001

Job #200140355

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L74N-98E+25	<0.3	1.42	<2	12	31	0.3	<5	0.15	<0.5	10	25	13	2.24	0.02	6	0.28
L74N-98E+50	<0.3	1.91	<2	11	36	0.4	<5	0.15	<0.5	12	25	17	1.99	0.02	8	0.34
L74N-98E+75	<0.3	1.35	<2	12	33	0.2	<5	0.22	<0.5	7	22	19	2.09	0.02	8	0.26
L74N-99E+0	<0.3	1.44	<2	9	35	0.3	<5	0.15	<0.5	7	18	15	1.52	0.02	10	0.21
L74N-99E+25	<0.3	1.66	<2	12	31	0.2	<5	0.26	<0.5	9	23	18	2.18	0.02	10	0.30
L74N-99E+50	<0.3	1.10	<2	9	46	0.2	<5	0.35	<0.5	10	19	19	1.67	0.03	10	0.31
L74N-99E+75	<0.3	1.72	<2	10	45	0.4	<5	0.19	<0.5	10	20	16	1.91	0.03	8	0.28
L74N-100E+0	<0.3	1.47	<2	10	35	0.3	<5	0.19	<0.5	9	20	25	1.83	0.02	8	0.25
L74N-100E+25	<0.3	2.01	<2	12	57	0.4	<5	0.16	<0.5	11	26	13	2.25	0.02	7	0.35
L74N-100E+50	<0.3	2.16	<2	12	42	0.5	<5	0.20	<0.5	10	25	17	2.15	0.03	9	0.33
L74N-100E+75	<0.3	1.27	<2	7	41	0.2	<5	0.11	<0.5	6	17	11	1.19	0.03	8	0.19
L74N-101E+0	<0.3	1.95	<2	9	50	0.4	<5	0.29	<0.5	10	22	19	1.69	0.03	10	0.27
L76N-91E+0	<0.3	1.13	<2	6	42	<0.1	<5	0.17	<0.5	6	17	15	1.00	0.02	9	0.23
L76N-91E+25	<0.3	1.31	<2	8	36	0.3	<5	0.27	<0.5	10	19	19	1.60	0.03	10	0.30

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L74N-98E+25	98.0	<1	0.02	19	300	4	0.02	<2	<5	0.01	<5	8	0.12	79	<2	27
L74N-98E+50	111.6	<1	0.02	21	325	4	0.02	<2	<5	0.01	<5	8	0.11	67	<2	29
L74N-98E+75	113.6	<1	0.03	12	515	7	0.02	<2	<5	<0.01	<5	9	0.13	84	<2	20
L74N-99E+0	80.2	<1	0.02	13	282	6	0.01	<2	<5	0.01	<5	8	0.11	55	<2	16
L74N-99E+25	125.9	<1	0.03	15	587	5	0.02	<2	<5	0.01	<5	11	0.13	78	<2	29
L74N-99E+50	123.0	<1	0.04	20	463	3	<0.01	<2	<5	0.02	<5	13	0.12	68	<2	17
L74N-99E+75	106.7	<1	0.02	17	353	6	0.01	<2	<5	0.01	<5	9	0.13	71	<2	29
L74N-100E+0	105.9	<1	0.03	21	394	6	0.01	<2	<5	0.01	<5	10	0.13	65	<2	25
L74N-100E+25	119.0	<1	0.01	18	269	5	0.01	<2	<5	0.01	<5	11	0.13	73	<2	35
L74N-100E+50	113.3	<1	0.03	19	500	5	0.02	<2	<5	<0.01	<5	9	0.12	70	<2	16
L74N-100E+75	72.4	<1	0.01	9	208	6	0.01	<2	<5	0.02	<5	7	0.13	45	<2	22
L74N-101E+0	124.7	<1	0.04	21	684	4	0.02	<2	<5	0.01	<5	12	0.12	55	<2	26
L76N-91E+0	82.4	<1	0.02	12	197	8	<0.01	<2	<5	0.01	<5	11	0.15	44	<2	18
L76N-91E+25	156.3	<1	0.04	19	506	4	<0.01	<2	<5	0.02	<5	11	0.12	60	<2	25

Certified By: ____________

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Berland Resources
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October 23, 2001

Job #200140355

Corrected Certificate

SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L76N-92E+0	<0.3	1.96	<2	12	37	0.4	<5	0.17	<0.5	11	25	16	2.31	0.03	10	0.35
L76N-92E+25	<0.3	1.40	<2	9	47	0.3	<5	0.25	<0.5	10	23	19	1.74	0.03	9	0.31
L76N-92E+50	<0.3	1.37	<2	13	60	0.4	<5	0.11	<0.5	7	22	7	2.59	0.03	7	0.18
L76N-92E+75	<0.3	2.51	3	13	49	0.7	<5	0.17	<0.5	11	27	12	2.62	0.03	8	0.39
L76N-93E+0	<0.3	1.53	<2	12	61	0.4	<5	0.13	<0.5	8	22	8	2.48	0.03	7	0.20
L76N-93E+25	<0.3	1.55	<2	11	73	0.4	<5	0.25	<0.5	9	23	16	2.20	0.04	7	0.30
L76N-93E+50	<0.3	2.13	<2	11	43	0.5	<5	0.21	<0.5	10	30	13	2.01	0.03	8	0.30
L76N-93E+75	<0.3	2.24	2	14	59	0.5	<5	0.25	<0.5	13	31	16	2.79	0.04	8	0.29
L76N-94E+0	<0.3	1.99	<2	10	36	0.4	<5	0.22	<0.5	9	25	17	1.95	0.02	11	0.27
L76N-94E+25	<0.3	1.52	<2	11	34	0.3	<5	0.14	<0.5	10	24	10	2.21	0.02	7	0.21
L76N-94E+50	<0.3	1.79	<2	11	76	0.5	<5	0.18	<0.5	9	26	11	2.25	0.03	8	0.23
L76N-94E+75	<0.3	1.29	<2	9	46	0.3	<5	0.16	<0.5	7	19	13	1.77	0.02	7	0.29
L76N-95E+0	<0.3	1.55	<2	11	47	0.3	<5	0.19	<0.5	9	23	14	2.07	0.03	8	0.28
L76N-95E+25	<0.3	1.51	<2	8	49	0.3	<5	0.21	<0.5	8	20	10	1.68	0.02	8	0.26

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L76N-92E+0	128.9	<1	0.02	19	356	6	0.02	<2	<5	0.01	<5	9	0.14	83	<2	28
L76N-92E+25	151.2	<1	0.03	21	635	5	0.01	<2	<5	0.02	<5	13	0.12	63	<2	28
L76N-92E+50	129.6	<1	<0.01	11	474	9	0.02	<2	<5	0.01	<5	9	0.12	91	<2	34
L76N-92E+75	128.4	<1	0.03	20	596	6	0.03	<2	<5	<0.01	<5	10	0.13	79	<2	35
L76N-93E+0	150.0	<1	0.01	13	623	8	0.01	<2	<5	0.01	<5	9	0.11	80	<2	40
L76N-93E+25	194.1	<1	0.01	15	829	7	0.02	<2	<5	0.02	<5	17	0.11	76	<2	30
L76N-93E+50	134.9	<1	0.03	22	796	6	0.02	<2	<5	<0.01	<5	12	0.11	61	<2	36
L76N-93E+75	361.8	<1	0.03	22	1303	9	0.02	<2	<5	0.01	<5	13	0.13	84	<2	36
L76N-94E+0	104.4	<1	0.03	19	483	5	0.02	<2	<5	<0.01	<5	12	0.12	84	<2	39
L76N-94E+25	99.3	<1	0.02	17	255	5	0.01	<2	<5	0.01	<5	12	0.12	65	<2	18
L76N-94E+50	147.9	<1	0.01	18	941	6	0.01	<2	<5	0.01	<5	10	0.13	77	<2	34
L76N-94E+75	105.5	<1	0.02	13	244	6	0.01	<2	<5	0.01	<5	14	0.11	71	<2	43
L76N-95E+0	135.4	<1	0.02	16	387	7	0.02	<2	<5	0.01	<5	9	0.13	68	<2	17
L76N-95E+25	77.4	<1	0.03	15	433	5	0.01	<2	<5	0.01	<5	11	0.12	74	<2	29

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SAMPLE #	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	La ppm	Mg %
L76N-95E+50	<0.3	1.70	<2	11	28	0.4	<5	0.20	<0.5	13	30	28	2.18	0.03	10	0.36
L76N-95E+75	<0.3	1.06	<2	5	33	0.2	<5	0.12	<0.5	7	45	13	0.77	0.02	6	0.32
L76N-96E+0	<0.3	2.45	<2	12	40	0.6	<5	0.19	<0.5	14	29	11	2.65	0.03	6	0.35
L76N-96E+25	<0.3	0.75	<2	10	39	0.1	<5	0.13	<0.5	6	22	8	2.04	0.03	6	0.16
L76N-96E+50	<0.3	1.52	<2	15	87	0.3	<5	0.14	<0.5	9	46	10	3.09	0.03	8	0.32
L76N-96E+75	<0.3	1.45	3	11	42	0.3	<5	0.25	<0.5	13	24	17	2.21	0.03	7	0.32
L76N-98E+75	<0.3	1.72	<2	10	30	0.3	<5	0.22	<0.5	9	26	15	2.21	0.02	8	0.23
L76N-99E+0	<0.3	1.70	<2	13	49	0.4	<5	0.13	<0.5	11	30	9	2.75	0.03	8	0.25
L76N-99E+25	<0.3	1.79	<2	11	31	0.4	<5	0.20	<0.5	9	23	16	2.38	0.02	9	0.30
L76N-99E+50	<0.3	1.96	<2	12	51	0.6	<5	0.17	<0.5	10	27	14	2.71	0.03	10	0.31
L76N-99E+75	<0.3	2.17	<2	11	46	0.5	<5	0.17	<0.5	11	28	16	2.50	0.03	9	0.37
L76N-100E+0	<0.3	1.88	<2	10	49	0.4	<5	0.22	<0.5	11	24	18	2.01	0.02	10	0.30
L76N-100E+75	<0.3	1.32	<2	11	58	0.3	<5	0.54	<0.5	15	25	30	2.41	0.04	17	0.47
L76N-101E+0	<0.3	1.13	<2	8	40	0.2	<5	0.21	<0.5	7	17	12	1.61	0.02	8	0.21

SAMPLE #	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti %	V ppm	W ppm	Zn ppm
L76N-95E+50	124.9	<1	0.03	25	278	5	0.02	<2	<5	0.01	<5	11	0.15	97	<2	43
L76N-95E+75	61.3	<1	0.01	22	241	7	0.03	<2	<5	0.01	<5	10	0.08	32	<2	25
L76N-96E+0	127.7	<1	0.03	26	702	5	0.02	<2	<5	<0.01	<5	8	0.13	85	<2	33
L76N-96E+25	98.4	<1	0.01	11	286	11	0.02	<2	<5	0.02	<5	10	0.13	87	<2	35
L76N-96E+50	155.5	<1	0.01	19	544	10	0.02	<2	<5	0.01	<5	11	0.16	97	<2	45
L76N-96E+75	227.9	<1	0.03	24	507	6	0.02	<2	<5	0.02	<5	13	0.13	80	<2	43
L76N-98E+75	106.3	<1	0.04	17	373	6	0.01	<2	<5	0.01	<5	10	0.14	81	<2	18
L76N-99E+0	124.0	<1	0.02	17	319	6	0.02	<2	<5	0.02	<5	10	0.16	97	<2	39
L76N-99E+25	120.6	<1	0.03	17	445	5	0.02	<2	<5	<0.01	<5	10	0.14	80	<2	22
L76N-99E+50	111.5	<1	0.02	17	502	7	0.02	<2	<5	0.01	<5	11	0.15	91	<2	40
L76N-99E+75	132.6	<1	0.03	19	366	7	0.02	<2	<5	0.01	<5	9	0.14	82	<2	25
L76N-100E+0	104.7	<1	0.03	20	425	5	0.02	<2	<5	0.01	<5	10	0.12	65	<2	16
L76N-100E+75	178.1	<1	0.07	25	558	5	<0.01	<2	<5	0.02	<5	20	0.14	90	<2	33
L76N-101E+0	75.5	<1	0.02	12	262	8	0.02	<2	<5	0.02	<5	13	0.12	61	<2	14

Certified By:

Work Report Summary

Transaction No: W0240.00167 **Status:** APPROVED (D)
Recording Date: 2002-FEB-01 **Work Done from:** 2001-JUN-01
Approval Date: 2002-MAY-02 **to:** 2001-OCT-15

Client(s):

303548 BERLAND RESOURCES LTD.

Survey Type(s):

ASSAY GEOL PROSP PSTRIP

Work Report Details:

Claim#	Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
TB 1240556	$1,430	$1,430	$3,600	$3,600	$0	0	$0	$0	2003-MAR-24
TB 1240557	$31,971	$31,971	$6,000	$6,000	$0	0	$25,971	$25,971	2004-MAR-24
TB 1240558	$1,534	$1,534	$6,400	$6,400	$0	0	$0	$0	2003-MAR-24
TB 1240559	$11,043	$11,043	$4,800	$4,800	$6,243	6,243	$0	$0	2004-MAR-24
TB 1240560	$0	$0	$6,000	$6,000	$0	0	$0	$0	2003-MAR-24
TB 1240561	$1,125	$1,125	$4,800	$4,800	$0	0	$0	$0	2003-MAR-24
TB 1240562	$0	$0	$6,400	$6,400	$0	0	$0	$0	2003-MAR-24
TB 1240563	$0	$0	$4,800	$4,800	$0	0	$0	$0	2003-MAR-24
TB 1241522	$15,278	$15,278	$6,400	$6,400	$8,878	8,878	$0	$0	2003-DEC-05
TB 1241523	$0	$0	$3,600	$3,600	$0	0	$0	$0	2003-DEC-05
TB 1241524	$23,009	$23,009	$6,000	$6,000	$16,390	16,390	$619	$619	2003-DEC-05
	$85,390	$85,390	$58,800	$58,800	$31,511	$31,511	$26,590	$26,590	

External Credits: $0

Reserve:

$26,590 Reserve of Work Report#: W0240.00167

$26,590 Total Remaining

Status of claim is based on information currently on record.

52H12NW2003 2.22861 GILLARD LAKE 900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

GEOSCIENCE ASSESSMENT OFFICE
933 RAMSEY LAKE ROAD, 6th FLOOR
SUDBURY, ONTARIO
P3E 6B5

Tel: (888) 415-9845
Fax:(877) 670-1555

Date: 2002-MAY-13

BERLAND RESOURCES LTD.
SUITE 906, 595 HOWE ST.
VANCOUVER, BRITISH COLUMBIA
V6C 2T5 CANADA

Submission Number: 2.22861
Transaction Number(s): W0240.00167

Dear Sir or Madam

Subject: Deemed Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s) as per 6(7) of the Assessment Work Regulation. Only eligible assessment work is deemed approved for assessment work credit. The attached Work Report Summary indicates the results of the approval.

NOTE: The report has not been reviewed for technical deficiencies and reported expenses were not evaluated based on the Industry Standard.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact BRUCE GATES by email at bruce.gates@ndm.gov.on.ca or by phone at (705) 670-5856.

Yours Sincerely,

Ron Gashinski
Senior Manager, Mining Lands Section

Cc: Resident Geologist

William Edward Mccrindle
(Agent)

Berland Resources Ltd.
(Assessment Office)

Assessment File Library

Berland Resources Ltd.
(Claim Holder)

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

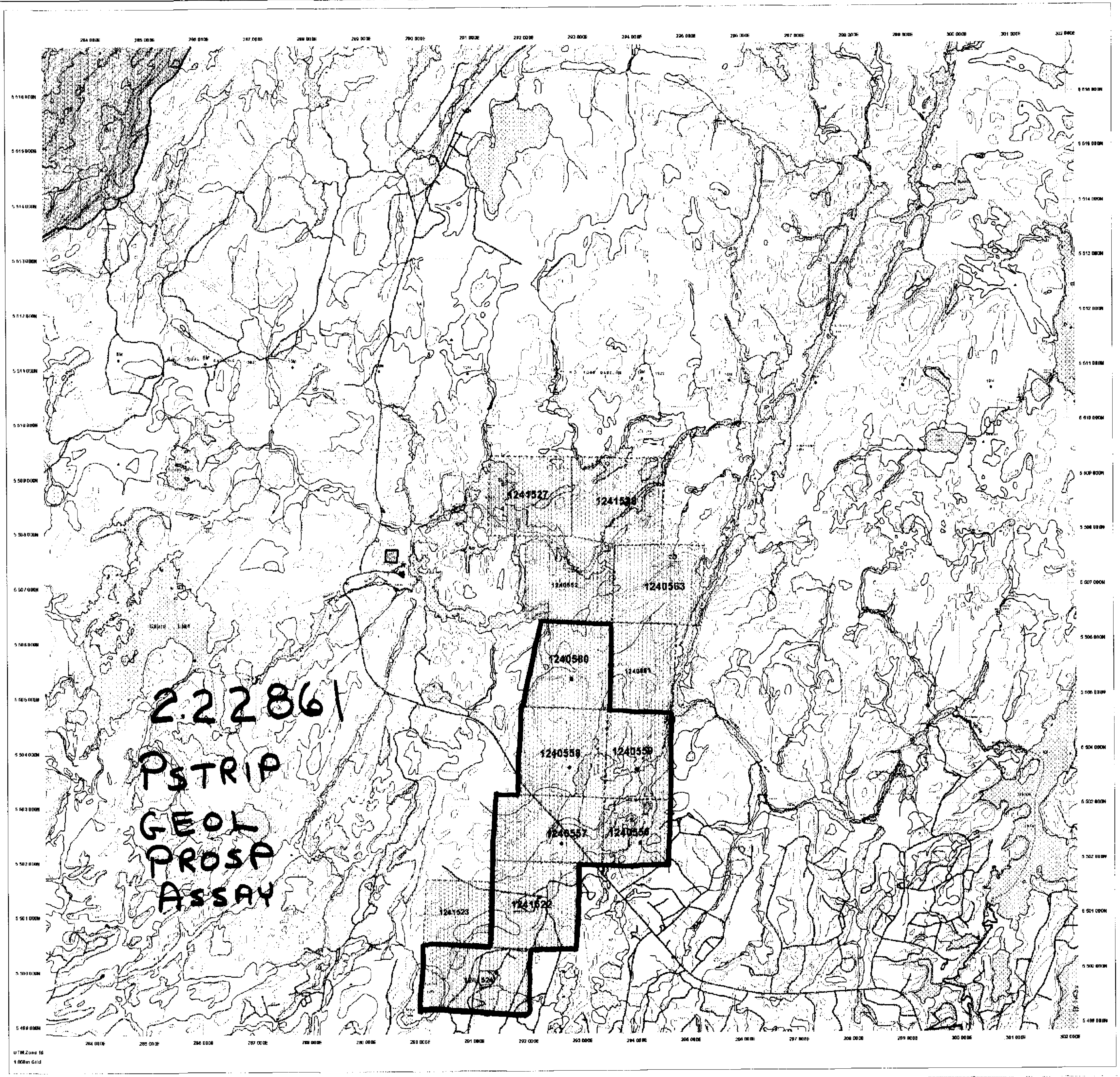
PROVINCIAL MINING RECORDER'S OFFICE

MINING LAND TENURE MAP

Date / Time of Issue	Apr 27 2001	09:08h Eastern
TOWNSHIP / AREA		**PLAN**
GILLARD LAKE AREA		**G-0722**

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Thunder Bay
Land Titles/Registry Division	THUNDER BAY
Ministry of Natural Resources District	THUNDER BAY



TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit and Pile
- Contour
- Contour - Approx. Auxiliary, Depression
- Shaft
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Hydro Line
- Communication Line
- Wooded Area
- Monument - Cadastral, Historical, Horiz. Control

LAND TENURE

Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Uses not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

- Land Use Permit
- Order in Council
- Water Power Lease Agreement
- Mining Claims

LAND TENURE WITHDRAWALS

Areas Withdrawn from Disposition

Mining Act Withdrawal Types
- Wsm Surface and Mining Rights Withdrawn
- Ws Surface Rights Only Withdrawn
- Wm Mining Rights Only Withdrawn

Order In Council Withdrawal Types
- W*sm Surface and Mining Rights Withdrawn
- W*s Surface Rights Only Withdrawn
- W*m Mining Rights Only Withdrawn

IMPORTANT NOTICES

0 Km — 5.0 Km

LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
[illegible]	Wsm	Jan 1 2001	S.R.O. WITHDRAWN ORDER W31/98 NCR
[illegible]	Wsm	Jan 1 2001	SURFACE RIGHTS ONLY WITHDRAWN FROM STAKING ORDER WNCR-20/00 WASTE DISPOSAL SITE DATED DEC 17/00
[illegible]	Wsm	Jan 1 2001	SURFACE AND MINING RIGHTS WITHDRAWN W-52/83 FILE 186512
W-LL-P2263	Wsm	May 17 1999	SEC 36 W-LL-P2263/99 ONT MAY 17/99 M+S (200 METRES FROM WATER'S EDGE IN DESIGNATED AREA'S)

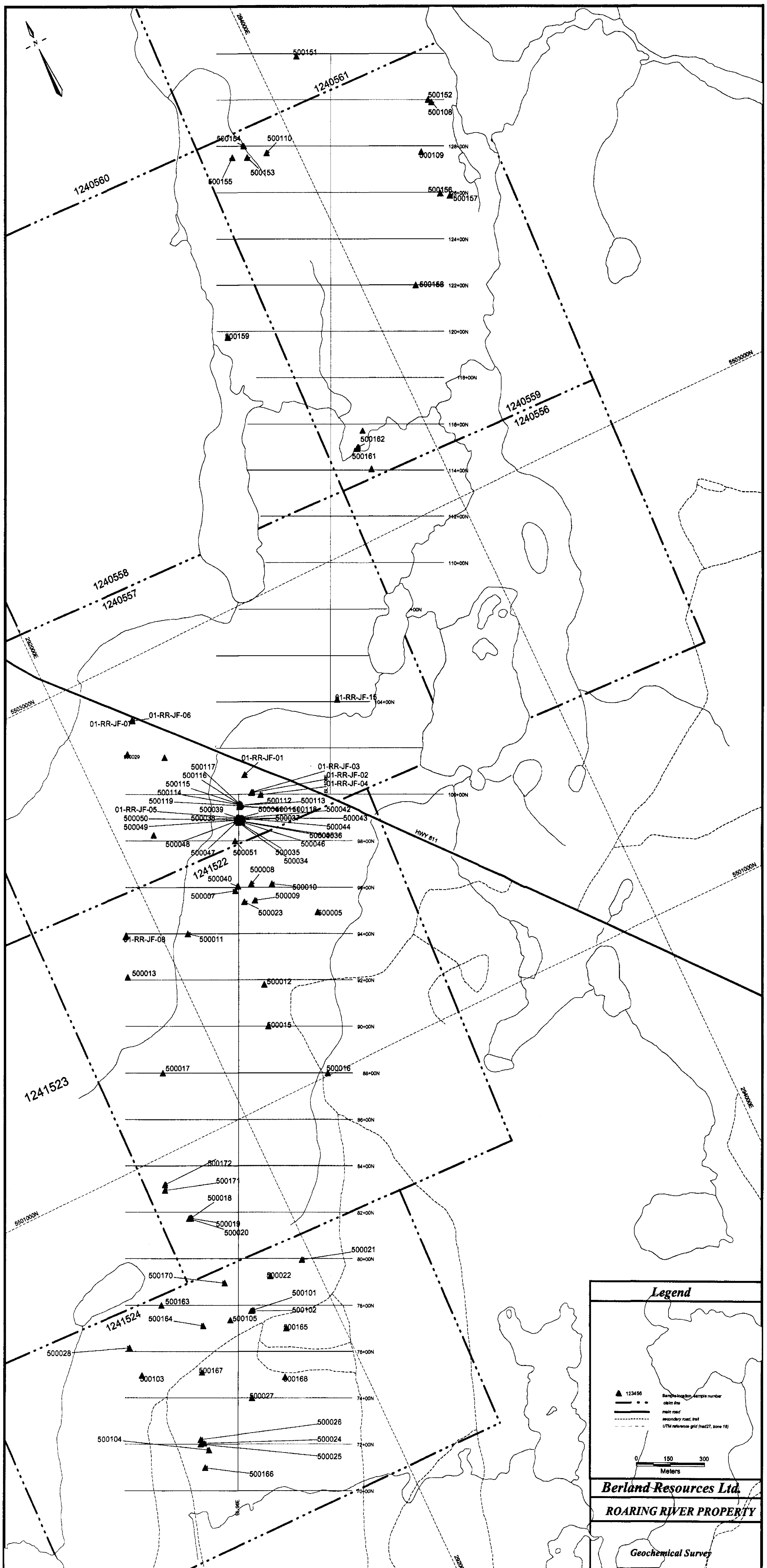
IMPORTANT NOTICES

Areas under which special regulations, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

General Information and Limitations

52H12NW2003 2.22861 GILLARD LAKE 200

L118N SHOWING
1098 ppb Pd 675 ppb Pt 158 ppb Au
294 ppm Ni 701 ppm Cu
L116N SHOWING
L102N SHOWING
MERE SHOWING
739 ppb Pd 231 ppb Pt 131 ppb Au
1249 ppm Ni 3150 ppm Cu
LEIGH NORTH SHOWING
LEIGH SHOWING
LEIGH SOUTH SHOWING
1240560
1240561
1240559
1240556
1240558
1240557
1241522
1241523
1241524
HWY 811
132+00N
130+00N
128+00N
126+00N
124+00N
122+00N
120+00N
118+00N
116+00N
114+00N
112+00N
110+00N
108+00N
106+00N
104+00N
102+00N
100+00N
98+00N
96+00N
94+00N
92+00N
90+00N
88+00N
86+00N
84+00N
82+00N
80+00N
78+00N
76+00N
74+00N
72+00N
70+00N
5503000N
5501000N
294000E
Legend
Lithology
8 - Diabase
7 - Granodiorite to monzodiorite
6 - Cgr-pegmatitic leuco-meso gabbro, locally brecciated. Strongly mtic
5 - Mgr-cgr leuco to mesogabbro with local melanogabbro/pegmatitic layers. strongly mtic.
4 - Cgr-pegmatitic melanogabbro to pyroxenite Strongly magnetic
3 - Mgr-cgr melanogabbro to pyroxenite Non to wkly magnetic
2 - Mixed melanogabbro and leuco-mesogabbro phases, local pegmatitic pods. Variably mtic.
1 - Fgr-mgr leucogabbro/diorite Non magnetic
boulder
LC - Leucocratic
MS - Mesocratic
ML - Melanocratic
PX - Pyroxenitic
PXITE - Pyroxenite
PEG - Pegmatite / Pegmatitic
MZ - Monzonite / Monzanitic
GD - Granodiorite / Granodioritic
QM - Quartz Monzonite
mt - magnetite
cpy - chalcopyrite
po - pyrrhotite
py - pyrite
ep - epidote
ksp - K Feldspar
geological contact
claim line (idealized)
swamp, swamp boundary
topographic slope direction
main road
secondary road, trail
UTM reference grid (nad27, zone 16)
2.22861
0 150 300
Meters
Berland Resources Ltd.
ROARING RIVER PROPERTY
GRID GEOLOGY MAP
Date: October, 2001
Scale: 1:5,000

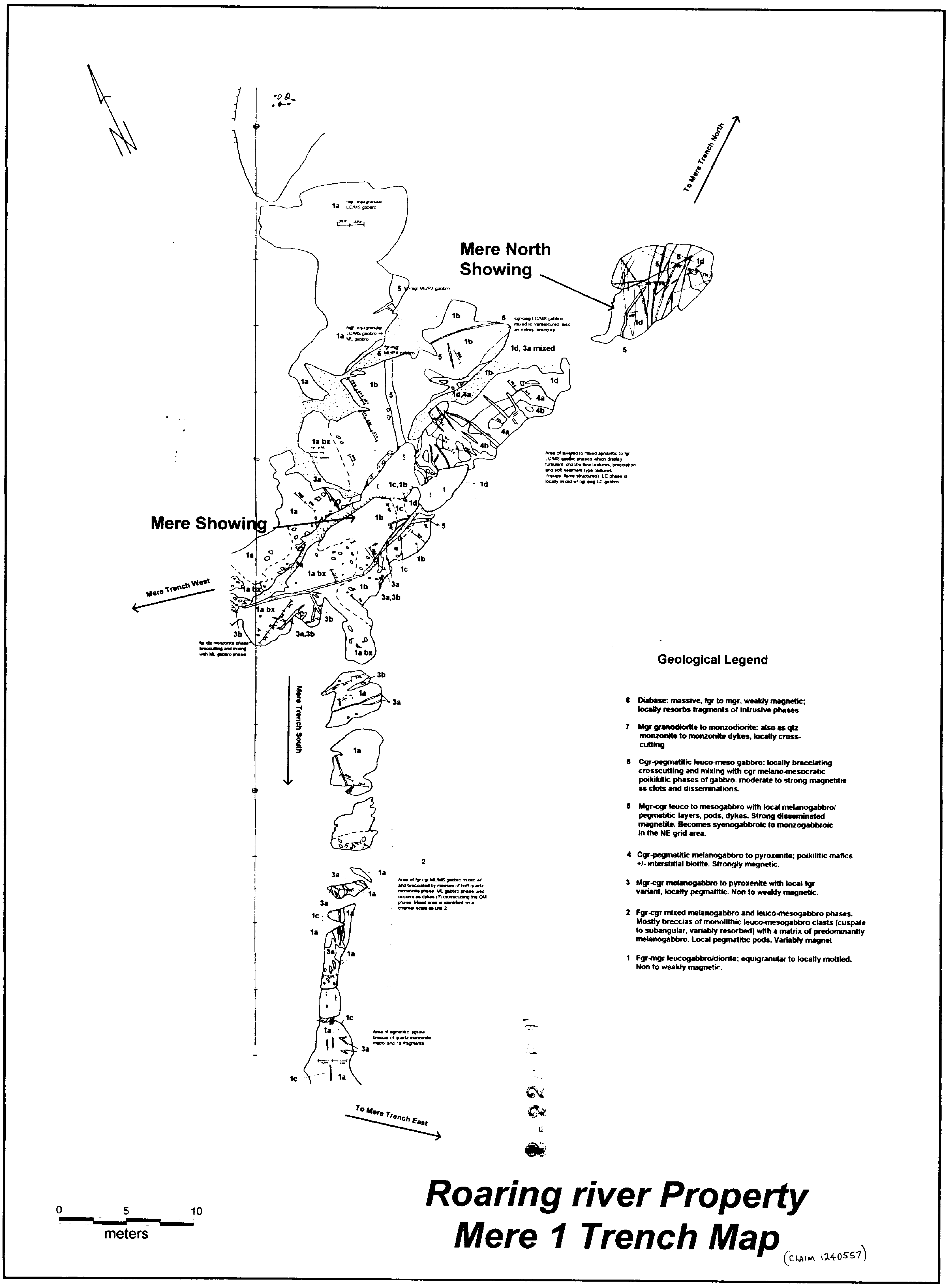


52H12NW2003 2.22861 GILLARD LAKE 220

1240561
1240560
1240559
1240556
1240558
1240557
1241522
1241523
1241524
132+00N
130+00N
128+00N
126+00N
124+00N
122+00N
120+00N
118+00N
116+00N
114+00N
112+00N
110+00N
108+00N
106+00N
104+00N
102+00N
100+00N
98+00N
96+00N
94+00N
92+00N
90+00N
88+00N
86+00N
84+00N
82+00N
80+00N
78+00N
76+00N
74+00N
72+00N
70+00N
10 18 19 24
19
18
15
23
10
18
21 24 12 15 16
HWY 811
BL 100E
5503000N
5501000N
Legend
Pd in Soils
(ppb Pd)
20 to 30
15 to 20
10 to 15
5 to 10
0 150 300
Meters
Berland Resources Ltd.
ROARING RIVER PROPERTY
Pd Soil
Geochemical Survey
2.22861
52H12NW2003 2.22861 GILLARD LAKE
230

1240561
1240560
1240559
1240556
1240558
1240557
1241522
1241523
1241524
HWY 811
Legend
Pt in Soils
(ppb Pt)
30 to 50
20 to 30
10 to 20
7.5 to 10
Meters
Berland Resources Ltd.
ROARING RIVER PROPERTY
Pt Soil
Geochemical Survey

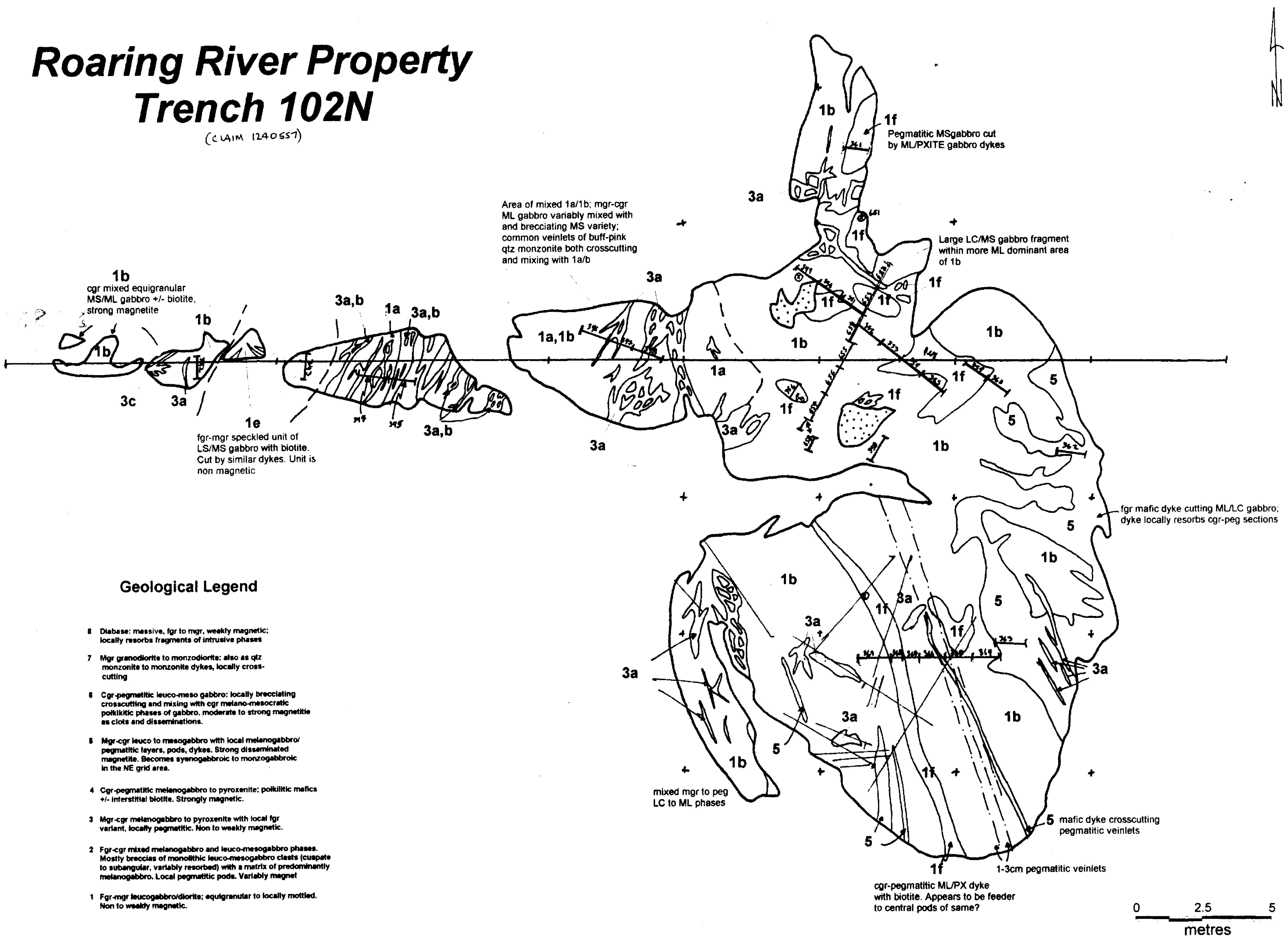
1240561
1240560
1240559
1240556
1240558
1240557
1241522
1241523
1241524
HWY 811
BL 100E
Legend
Cu in Soils
(ppm Cu)
100 to 200
50 to 100
25 to 50
0 to 25
claim line
main road
secondary road, trail
UTM reference grid (nad27, zone 10)
0
150
300
Meters
2.22861
Berland Resources Ltd.
ROARING RIVER PROPERTY
Cu Soil
Geochemical Survey
Date: October, 2001
Scale: 1:10,000
52H12NW2003 2.22861 GILLARD LAKE
250



52H12NW2003 2.22861 GILLARD LAKE 260

Roaring River Property
Trench 102N

(CLAIM 1240557)



Geological Legend

8 Diabase: massive, fgr to mgr, weekly magnetic; locally resorbs fragments of intrusive phases

7 Mgr granodiorite to monzodiorite; also as qtz monzonite to monzonite dykes, locally cross-cutting

6 Cgr-pegmatitic leuco-meso gabbro: locally brecciating crosscutting and mixing with cgr melano-mesocratic poikikitic phases of gabbro. moderate to strong magnetitie as clots and disseminations.

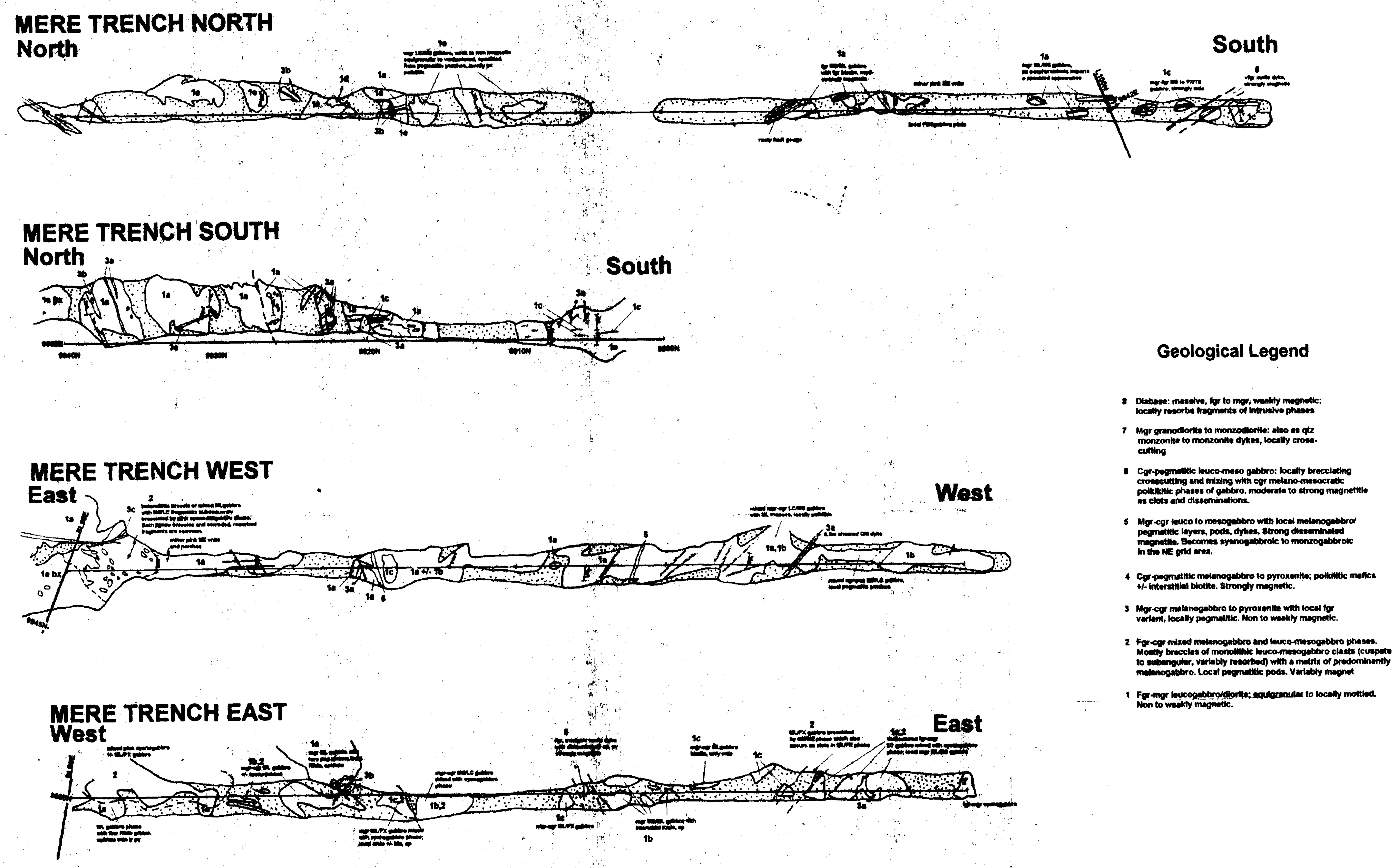
5 Mgr-cgr leuco to mesogabbro with local melanogabbro/ pegmatitic layers, pods, dykes. Strong disseminated magnetite. Becomes syenogabbroic to monzogabbroic in the NE grid area.

4 Cgr-pegmatitic melanogabbro to pyroxenite; poikilitic mafics +/- interstitial biotite. Strongly magnetic.

3 Mgr-cgr melanogabbro to pyroxenite with local fgr variant, locally pegmatitic. Non to weekly magnetic.

2 Fgr-cgr mixed melanogabbro and leuco-mesogabbro phases. Mostly breccias of monolithic leuco-mesogabbro clasts (cuspate to subangular, variably resorbed) with a matrix of predominantly melanogabbro. Local pegmatitic pods. Variably magnet

1 Fgr-mgr leucogabbro/diorite; equigranular to locally mottled. Non to weakly magnetic.



2.22861

Roaring River Property
Mere 2 Trench Map