A Report

On the

Magnetic and Geological Survey

Carried out on the

Musher Lake Property

2.30682

Wabikoba Lake Sheet

Thunder Bay Mining Division

UTM
5409500N
587000E

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Consulting Geologist
Atikokan, Ontario

August 22, 2005

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Summary

An exploration program consisting of a magnetic survey, geological mapping and prospecting and was carried out over a cut grid on the Musher Lake property between June 28 and July 3, 2005 by Raymond A. Bernatchez, P. Eng. and Consulting Geologist.

The property consists of two mining claims, numbered 4204985 and 4204986 consisting of 6 and 6 units respectively. The recorded holder is Harold T Griggs of Marathon, Ontario. The northern edge of the grid is located 6 km NE from Highway 614. The access road from 614 is located 12.5 km north from its junction with Hwy 17. The Hemlo Gold Camp is located 3 km east of this junction. The town of Manitouwadge is located 43 km to the north on Hwy 614 from the logging access road. This logging road is an all weather access road and leads directly to the northern portion of line 16+00E at 5+75N.

Government assessment files indicate that property and area has been explored for its copper, zinc, gold, silver potential since the early 1960s.

The geology of the area forms part of the Schreiber-Manitouwadge Greenstone Belt. The geology of the area was mapped by W.G Milne in 1968 for the Ontario Department of Mines, Geological Report 72, Geology of the Black River Area. The Ontario Geological Survey produced Map 2614, Geological Compilation, Eastern Half of the Schreiber-Hemlo Greenstone Belt in 2000 at a scale of 1:50 000. The Ontario Geological Survey also carried out an airborne geophysical magnetic and electromagnetic survey of the area, Map 60036, and released in 2001 at a scale of 1:50 000.

The magnetic survey has revealed a series of east-southeast linear magnetic highs and lows which may be caused by sulphide mineralization consisting of pyrrhotite or magnetite or both contained in felsic and/or mafic volcanic rocks.

Geological reconnaissance mapping and prospecting by the author has identifies a number of mineralized zones. This mineralization is contained within a number of rock types. These rocks consist of Mafic and felsic volcanic rocks. These rocks are intruded to the south by the musher lake pluton.

Sulphide mineralization was noted at several locations within the grid area. This mineralization was found in a disseminated, seam and semi massive sulphide form. The sulphides present consisted of pyrite, chalcopyrite, pyrrhotite, bornite and minor fero-molybdate (a secondary weathering of molybdenite-MoS2). Quartz veining containing pyrite and chalcopyrite were also noted near the southeast corner of the grid.

The most significant sulphide mineralization observed was found on line 15+00E and 16+00E from 4+00N to 4+50N. The sulphide mineralization is contained within highly altered felsic volcanic rocks that strike east-southeast through the upper half of the grid. Mafic volcanic rocks were observed along the road just north of the grid. These rocks have a massive texture and in some places are pillowed. The rocks in the lower half of the grid were more intensely altered and in several places, garnets were observed in the

rocks. The rocks in some places, based on the log description of previous drilling and some field observations, have been altered to chlorite, sericite and garnet schist. The felsic volcanic rocks in this area, consists of tuff, lapilli tuff and agglomerates, quartz crystal tuff, massive rhyolite flows. These rocks have been sericitized chloritized and moderately silicified.

Previous mineral exploration has shown that the area has potential for the discovery copper-zinc and copper-nickel with significant quantities of silver and gold.

The author has concluded that the full potential of these copper-zinc base metal horizons, have not been thoroughly evaluated. The area has limited amount of drilling. The ground magnetic survey has identified a number of significant magnetic high anomalies on the surveyed grid. The OGS 2001 airborne magnetic-electromagnetic survey of this area has also identified this magnetic trend. The conductive anomalies identified in the airborne survey, also coincides with the mafic-felsic volcanic contact that is host to the copper-zinc mineralization observed at showing #4.

The trend associated with the contact between the mafic volcanic rocks in the northern portion of the grid and the felsic volcanic rocks to the south has not been thoroughly tested by drilling. The mafic-felsic volcanic contact identified on the adjacent property continues eastward onto this property. The geology of this area is also very favourable for hosting base metal copper-zinc and/or gold deposits.

There appears to be more than one favourable sulphide horizon capable of hosting base metal and gold mineralization. The mineral molybdenite (MoS2) has been noted in some drill holes and in some trenches. The author did note the presence of fero-molybdate (yellow powder), a weathered product of molybdenite during its field investigation in the southeast portion of the grid. There is also noted molybdenite in a trench near line 10+00E around 5+00N.

Further work is recommended along the mafic-felsic volcanic contact. The 2005 magnetic survey has identified a number of high magnetic anomalies. These magnetic anomalies should be investigated to determine the cause.

Molybdenite has been notes in trenches and in drill core in the area. The source of this molybdenite may have originated from the Musher Lake Pluton. One should look for copper and gold associated with this style of mineralization.

Property Ownership

The Musher Lake property is 100% own by Harold T. Griggs client # 400501 client # 400501. The property consists of two mining claims numbered 4204985 and 4204986, 68 and 6 units respectively located on the Wabikoba Claim sheet (G-620) in the Thunder Bay Mining Division. The property is located between UTM coordinate 587000E and 589000E and 5409000N and 5410000N.

Physical Property Description and Grid Orientation

The grid and magnetic survey was performed in the west half of claim 4204985. The grid consists of a total of 5.5 km of cut baseline and picket lines with stations at every 25 meter intervals in an N-S and E-W orientation. A base line was established at 2+00N which is the easterly extension of a base line located on claim 4204984. North-south picket lines were established at 100 meter intervals perpendicular to the base line from 9+00E to 16+00E. All picket lines were cut 600 meters long, 200 meters south of the base line and 400 meters north of the base line.

The area consists of rolling hills with relief of up to 50+ meters from its lowest point near the southwest corner of the grid where a creek drains southwesterly. The grid area has two prominent hills, one near lines 9+00E and 10+00E north of the base line and the second in the eastern portion and centrally located within the grid between line 11+00E and 16+00E

The northwest corner of the grid at line 16+00E is located about 6 km from Hwy 614. This logging road is located 12 km north on Hwy 614 from its junction with Hwy 17 2 km west of the Hemlo Gold Camp.

The grid area has low outcrop exposure (about 5%). And consists of silty and clay till and coarse tillite. The vegetation in the grid area consists of a near mature forest consisting of jack pine, white pine, poplar, birch, cedar and low underbrush.

The grids were contracted out to Danny Thibeault, from Rouyn, Quebec.

Access to the Property

The property is accessible via an all-weather one lane gravel based logging road. A short portion of the road has been washed out but is still passable. The entrance point of this road is located 12 km north on Hwy 614 from its junction with Hwy 17, 1 km east of the Hemlo Gold Camp.

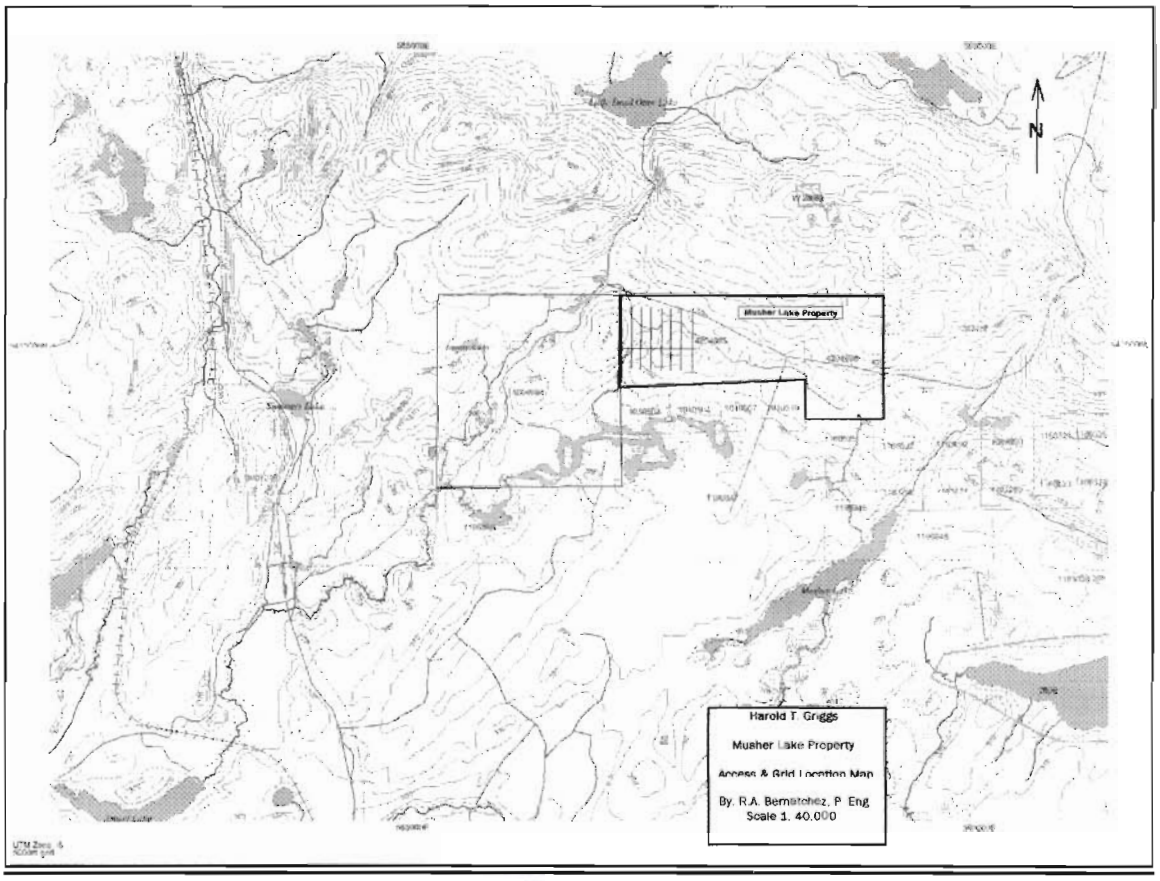

Figure 1 Map showing property and grid location and road access.

Exploration History

The mineral potential of the property and area was explored by the following companies:

1962 – Fifty two claim were staked by prospector Cecil von Klein.

1962-1964 – The property was option by MacIntyre Porcupine Mines Limited. The company carried out a program of line cutting, geological mapping, geophysical surveys, and diamond drilling. A sulphide zone was discovered near line 16+00E around 5+00N. This sulphide zone (Zone C) was tested with one drill hole. No information was available to the author on the results of this drill hole.

In 1985-86, Noranda Exploration Limited carried out geological mapping in this area. A long north-south trench is shown one the geology map between line 9+00E and 10+00E between 3+00N and 6+00N. The author was unsuccessful in locating this trench.

Regional Geology

The property is located within the Eastern Half of the Schreiber-Hemlo Greenstone Belt. This greenstone belt forms part of the Wawa Sub province of the Precambrian Shield. All rocks of the area are neoarchean of age.

The property is located within the south limb of an east-west striking antiform. The property is located at the apex of the fold structure. The rocks to the east swing southward and strike at an azimuth of about 110 degrees. The rock to the west of the property swing to the southwest at an azimuth of about 230 degrees.

The area is underlain with mafic, intermediate and felsic volcanic rocks and sedimentary rocks.
The mafic volcanic rocks consist of massive plagioclase phyric, amygdaloidal and pillowed flows with minor interbedded tuff and tuff breccia, amphibolite.

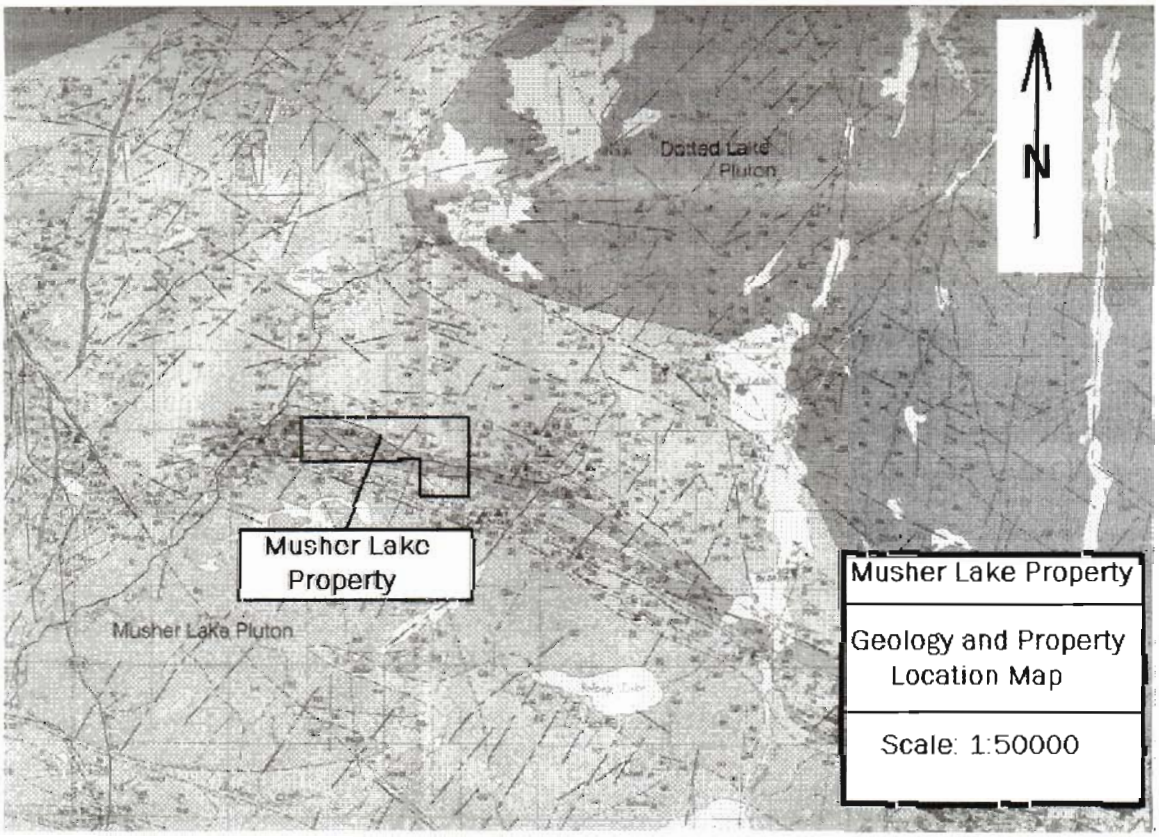

Figure 2 Map of Regional Geology

The intermediate to felsic volcanic rocks consists of massive rhyodacite, rhyolite, quartz/feldspar porphyry flows with interbedded crystal tuff.

The sedimentary rocks consist of conglomerate,+/- lithic wacke +/- lithic arenites, shale, graphitic shale.

The above rocks have been intruded by the Musher Lake Pluton located to the south.

Local Geology

The outcrop exposure of the grid area is low (about 5%) most of the grid is in low swampy terrain drained by narrow and shallow creeks. Rock exposures were found mainly on or near the road and on the higher grounds.

The claim is underlain by a sequence of mafic, intermediated and felsic volcanic rocks, sedimentary, mafic, and intermediate to felsic intrusive rocks.

The author used Milne's 1968 report, "Geology Report 72, geology of the Black River Area" for rock descriptions.

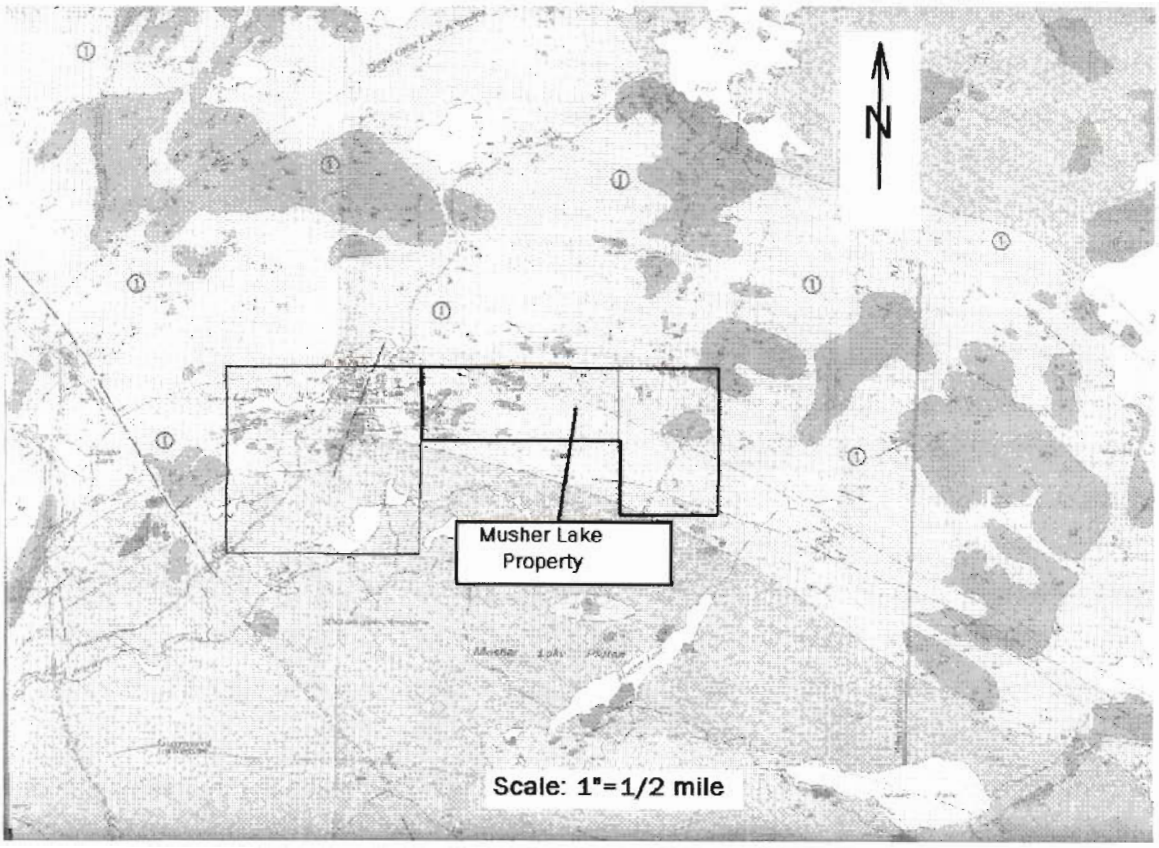

Figure 3 Map of local Geology

The upper 100 meter portion of the claim is underlain by fine to medium grained, massive mafic volcanic rocks. These rock types were observed in the northern 100 to 200 meters portions of lines 15+00E and 16+00E along the road ant lines.

The above rocks are in contact with intermediate to felsic volcanic rocks to the south. This sequence is about 600 meters thick and strikes east southeast and dip steeply north at about 80 to 85 degrees. These rocks consists of rhyolite, rhyolite breccia, welded tuff, and interflow breccia, agglomerate, tuff, greywacke, iron formation and migmatite.

These rocks have been sericitized, and silicified. They are moderately to strongly sheared in some places.

The above rock types have been intruded by early and late silicic plutonic rocks. Narrow dark grey hornblende feldspar porphyry dykes intrude the volcanic The Musher Lake Stock intrudes the above rock types and is located to the south 100 to 200 metres south of the claim boundary of claim 4204985. This rock type was not observed in the grid area.

Magnetic Survey

A total of 222 readings were taken over a distance of 5.45 kilometers grid lines.

The magnetic readings range from a low of 56,626 nT to a high of 59,831 nT, a differential gradient of 3,205 nT. A reading of 57,000 nT was used as a background value. The reading were plotted on a plan map at a scale of 1:2500 and contoured at 100 nT intervals with values ranging from -374 nT to +2831 nT from 57,000 nT.

The resultant contour map shows a prominent east southeast trend to the magnetic contours. The magnetic readings were taken by R. O'Connor from Manitouwadge, Ontario.

The survey was carried out using a GSM-19 Overhauser Magnetometer /Gradiometer / VLF System, Version 5. The instrument has a resolution of 0.01 nT, relative sensitivity of 0.02 nT, absolute accuracy of 0.2 nT, range from 20000 to 120000 nT. The unit was used as a walking magnetometer with readings taken and recorded automatically at each station. (See index in the back of the report for more detail on the magnetometer).

Interpretation of the Magnetic Survey

The contoured map of the magnetic reading has a general east-west orientation with. The contouring revealed several local magnetic highs in both the north and south portion of the grid. A total of 3 distinctive and magnetic high anomaly trends were identified from the contouring of the magnetic values. These magnetic trends have an east southeasterly strike mainly through the central portion of the grid. These magnetic anomalies are probably caused by the presence of pyrrhotite and/or magnetite present as bedded sulphides within the felsic volcaniclastic rocks.

Note: See Appendix B and Folder in back of report for maps

Mineralization

The mineralization observed consists of mainly stringer and disseminated sulphide. No massive sulphide mineralization was observed, but Noranda Exploration exposed a zone of massive pyrrhotite east of the grid area about 150 meters north of baseline 2+00N between 6+00E and 8+00E. This mineralized horizon appears to strike northwest to the #4 showing.

The map below shows the location of the trenches and sulphide zones of mineralization and drill holes discovered by previous exploration in the area. The map also shows some of the mineralized zones discovered by the author during this survey.

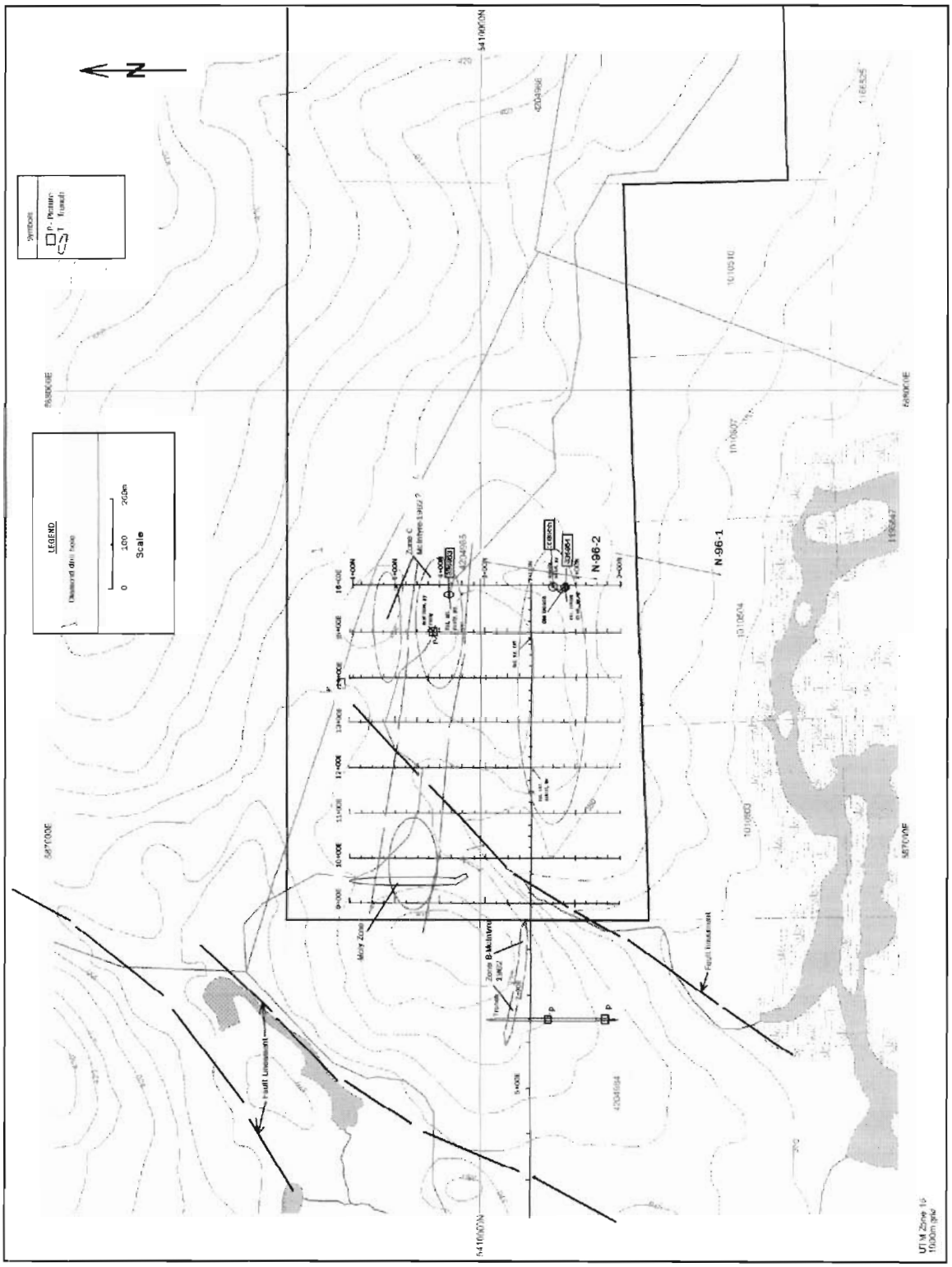

Figure 5 Map of grid, showings and location of drill holes and trenches.

Conclusions

The property has potential for the discovery of base metal copper-zinc massive sulphide deposits, gold and molybdenite mineralization. Molybdenite mineralization was noted by others in the long trench between lines 9+00E and 10+00E near 4+00N.

The magnetic anomaly along the base line and to the north may be the easterly extension Of the magnetic trend identified on the Lunny Lake property to the west on claim 4204984. Strong base metal values were discovered by drilling on the Lunny Lake property around showing #4 on adjacent claim # 4204984 to the west.

The ground magnetic high anomaly trends identified on the Musher Lake grid in this survey coincides with a 2km long east-west airborne magnetic and electromagnetic trend identified by the 2001 OGS airborne geophysical survey of the area.

The magnetic and electromagnetic anomaly trend is located at the mafic-felsic volcaniclastic contact It is this contact that is hosting the base metal copper, zinc and lead mineralization at showing #4.

The rocks at this contact have been altered to chlorite and garnet schist, a favourable foot wall alteration associated with massive sulphide deposits. Most of the drill holes in this area encountered stringer mineralization, a mineral setting usually associated with the foot wall of a massive sulphide deposit.

There are several magnetic high anomalies that have not been drill tested and may lead to stronger mineralization like massive sulphides. Pyrrhotite is one of the main sulphides hosting the base metal mineralization at showing #4.

There appears to be more that one sulphide horizon located within the surveyed area.

Gold mineralization has been discovered to the east southeast of the grid area on Beaufield's property in felsic volcanic rocks similar to the rocks identified in this survey on the south portion of the grid. Brian Fowler reported identifying fucsite bearing felsic volcanic rocks in the southwest portion of the grid. Gold soil anomalies were identified in a survey by Battle Mountain to the south. The gold potential of this area should be explored.

Recommendation

The following program is recommended on this property. Extend the grid to cover the mafic-felsic volcanic sequence.

The grid should be extended to the east to trace out the magnetic trend.

Carry out a VLF-EM survey over the present and new grid.

Map the geology of this area.

Carry out a soil geochemical survey over this grid.

A drilling program should be conducted over any new electromagnetic and magnetic anomalies and/or coincident soil geochemical anomalies.

Budget Estimate

Phase I

Line Cutting

14.4 km @ $400.00/km ..... $ 5,760.00

Magnetic survey

14.4 km @ $125.00/km .....$ 1,800.00

VLF-EM Survey

19.7 km @ $125.00/km .....$ 2462.50

Geological Mapping

19.7 km – 10 days @ $450.00/day .....$ 4,500.00

Mechanical Stripping

6 days @ $ 1,000.00/day .....$ 6,000.00

Channel Sampling

6 days @ $ 300.00/day .....$ 1,800.00

Assaying

50 samples @ $40.00/sample .....$ 2,000.00

Drilling

1500 metres @ $100.00/m.....$ 150,000.00

References

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Londry, John W. – 1994 - Hemlo Gold Mines Ltd., 1993 Report of work, Fowler #1 Property, Musher Lake Option, N.T.S. 42C/13, Prepared by Noranda Exploration company, Limited, West Precambrian District.

Milne, V.G - 1968 - Ontario Department of Mines , Geology report 72, Geology of The Black River Area, map 2147.

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MacIntyre Porcupine Mines Limited - 1962 – Geology maps, diamond drill logs, Report on a ground magnetic and horizontal loop electromagnetic

Ontario Geological Survey - 2001 – Airborne magnetic and electromagnetic surveys, Total magnetic field and electromagnetic anomalies, Hemlo area, Map 60 036, scale 1: 50 000. Survey.

Noranda Exploration Co. Ltd, Winnipeg -1985 – (file # 2.13561) Prime Option North, Logs of diamond drill holes of PN1, PN2, PN3, PN 7 and PN8, map of Trench L202+00E, map of soil geochemical survey, geology map 1987, scale 1:5000.

Skrecky A. 1962 – Report of the Geological mapping, von Klein Option, Wabikoba Lake area, Prot Arthur Mining division, Ontario.

Schultz, Dale – 1996 – Hemlo Gold Mines Inc., Report on Exploration Activities, Fowler 1&2

Schultz, Dale - 1997 – Battle Mountain Canada Ltd., report on Diamond Drilling, North Limb Property, N.T.S. 42C13, Eastern Canada.

Wierzbicki, V. 1964 – Report on Pulfa group of Claims, Port Arthur Mining division, Ontario, Canada, for Caravelle Mines Limited.

Statement of Qualifications and Consent

I, Raymond A. Bernatchez, of the town of Atikokan, in the Province of Ontario

I am a geologist, operating as a geological consultant and reside at 126 Willow Road in the town of Atikokan, Ontario.

I graduated from the South Dakota School of Mines in Rapid City, South Dakota, USA and received my Bachelor of Science Degree, in Geological Engineering in 1972.

I Graduated from the Haileybury School of Mines in Haileybury, Ontario with a diploma (3 years) in Mining Technology in 1969

I have practiced continuously as an exploration and mine geologist from graduation to the present.

I have no interest, either directly or indirectly, in the subject property or the client company.

This report is based on a study of personal supervision of the drilling program and on a number of written articles obtained from the government resident geologist for the Ministry of Northern development & Mines in Red Lake.

I personally surveyed and mapped the geology and wrote this report from June 30 to August 26, 2005.

Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liabilities arising out of its use or circulation. While I stand by my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.

I consent to the use of this report in its entirety in a prospectus or Statement of Material Facts for the purpose of a private or public financing, or for other such suitable purposes. My written permission is required for the release of any summary or other excerpt

Dated in Atikokan, Ontario this 26 day of August, 2005

Raymond A Bernatchez, P. Eng.
Consulting Geologist

APPENDIX A

Assay Certificate

Bernstchez, Raymond A.
Date Created: 05-08-04 09:41 AM
Job Number: 200541151
Date Recieved: 7/21/2005
Number of Samples: 10
Type of Sample: Rock
Date Completed: 7/26/2005
Project ID:

* The results included on this report relate only to the items tested
* This Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.
*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
80987	336951	19	<1		0.64	<3	36	41	<1	0.26	<10	8	310	21	3.94	0.16	3	0.3	834	2	0.02	11	282	7	<10	<5	0.03	<10	6	940	<1	6	<10	2	628
80988	336952	68		2	0.76	<3	53	6	<1	0.42	<10	31	89	>5,000	7.64	0.06	10	0.7	240	2	0.05	54	467	12	<10	<5	0.02	21	7	588	<1	9	<10	3	490
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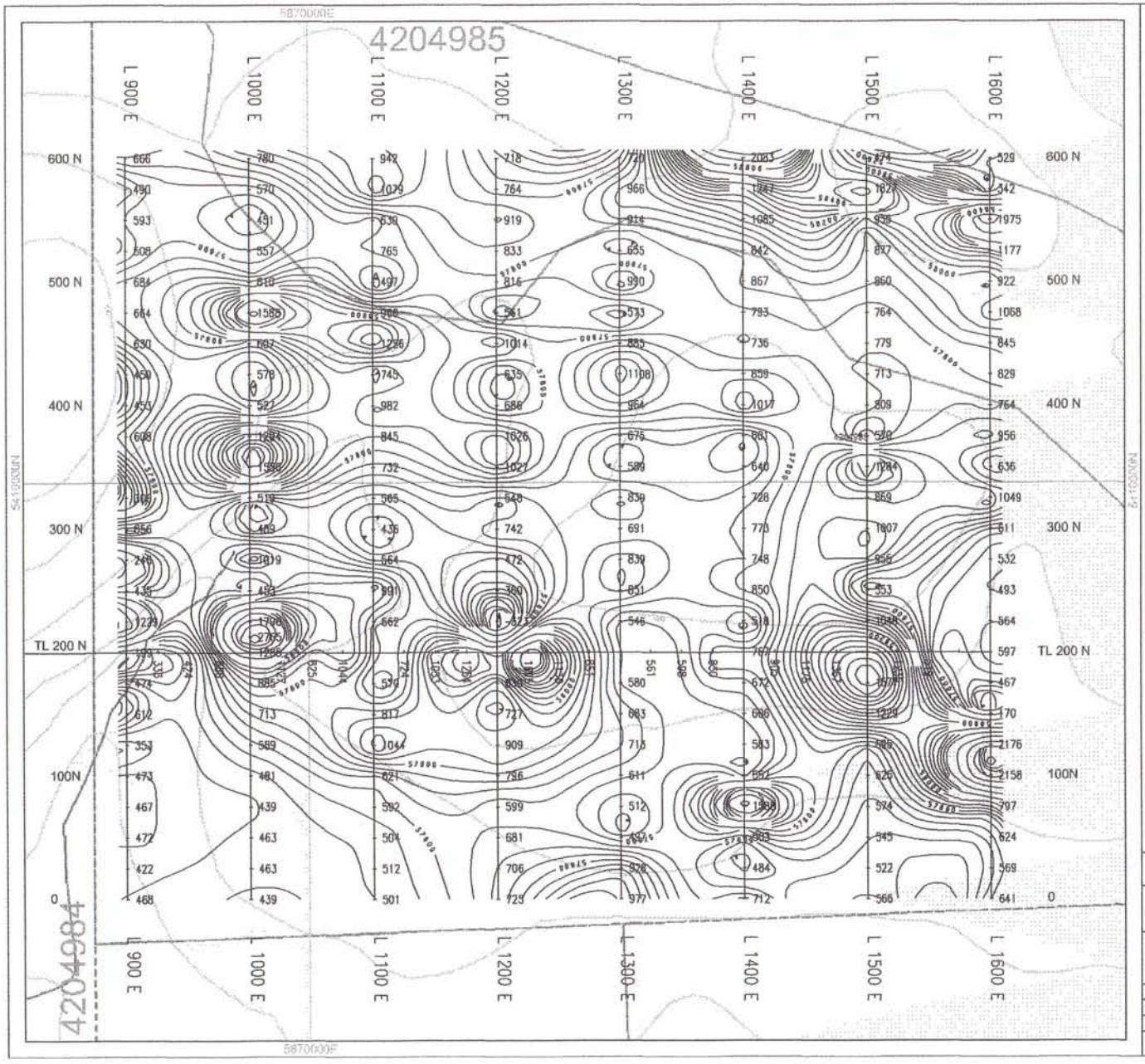
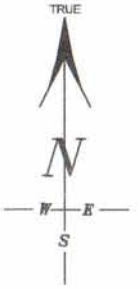
80991	336955	10	<1		0.78	<3	26	56	<1	0.14	<10	12	130	11	2.31	0.19	20	0.59	221	2	0.04	12	508	1	<10	<5	0.02	<10	19	190	<1	5	<10	3	82
80992	336956	34	<1		0.59	<3	57	15	<1	0.12	<10	45	158	376	7.66	0.04	9	0.56	153	<1	0.02	390	311	10	<10	<5	0.02	24	<5	529	<1	4	<10	4	60
80993	336957	20	<1		0.52	<3	35	11	<1	1.05	<10	26	139	111	4.27	0.06	<1	0.29	348	3	0.11	13	1374	4	<10	<5	0.02	<10	7	2418	<1	50	<10	18	119
80994	336958	11			Not Requested for ICP Scan																														
80995	336959	13			Not Requested for ICP Scan																														
80996	No Tag	9	<1		0.63	<3	27	56	<1	0.49	<10	18	288	16	2.33	0.21	11	0.68	266	<1	0.03	185	440	4	<10	<5	0.01	<10	22	561	<1	20	<10	3	62
80997	No Tag	8	<1		0.63	<3	22	57	<1	0.5	<10	19	292	16	2.34	0.21	11	0.68	269	<1	0.03	187	438	2	<10	<5	0.01	<10	23	590	<1	20	<10	3	41

APPENDIX B

Total Magnetic Field

Map





GEOPHYSICAL LEGEND

DATUM: 57000 nT

INSTRUMENT: GEM GSM-19

CONTOUR INTERVAL: 50 GAMMAS

MAGNETIC LOW:

HAROLD T. GRIGGS

MUSHER LAKE PROPERTY

WABIKOBA LAKE AREA - THUNDER BAY MINING DIVISION

TOTAL FIELD MAGNETIC MAP

NAD - 83 ZONE 16	Survey by R.A. Bernatchez, P. Eng. Consulting Geologist Box 1378, 126 Willow Road Atikokan, Ontario, P0T-1C0
G-0620	
AUG 2005	

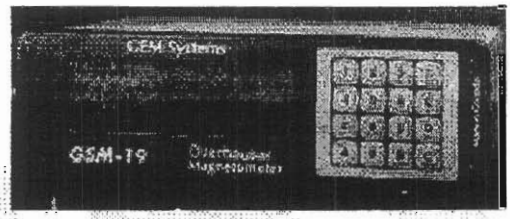
CLARK EXPLORATION CONSULTING

Appendix C

Specifications on the

GSM-19 Overhauser Magnetometer

GSM-19 Overhauser Magnetometer / Gradiometer / VLF System
Version 5



Features

- Sensitivity = 0.02 nT
- Absolute Accuracy = 0.2 nT
- Sample Rates up to 5 Hz
- Low Power Consumption

General

"Overhauser" Once you experience it, you'll never go back to proton. Overhauser technology brings you sensitivities one to two orders of magnitude better than proton, yet in a light weight package. This is because the overhauser magnetometer consumes an order of magnitude less power than proton magnetometer, allowing a lighter weight for batteries.

What is the Overhauser technique? The Overhauser sensor contains the electrons' fluid that has been added to a hydrogen rich in the form of "free radial". The resulting mixture yields a sensor with 5000 times gain in proton polarization. Since the Overhauser polarization effect does not require static magnetic fields, but uses radio frequency fields transparent to protons, measurement can be done concurrently with polarization. The result is a sensor with much greater sensitivity, that can be sampled much more rapidly than the standard proton sensor.

Overhauser magnetometer systems therefore maximize resolution while minimizing power consumption. Even with Walking Gradiometer systems, sampling at rates of once per second or betterare posible; Even in cold temperatures of minus 40 zero degrees Celsius and greater, the internal rechargeable battery can still be relied on for a 10 hour day, or longer.

The GSM-19 Overhauser magnetometer is thus truly a State-of-the-Art Magnetometer / VLF system. The GSM-19 offers the data quality, reliability, and extensive list of capabilities, and options, that allow it to meet a very wide spectrum of applications.

Standard Features

The GSM-19 magnetometer console features a real time graphic display of the current profile. In addition digital display of the current reading, current position, and warning messages are provided. The console design, with internal rechargeable battery pack, allows the unit to be completely sealed against the elements. With the built in heater for the display the GSM-19 magnetometer is ready to go wherever your surveys may take you.

Tuning is automatic worldwide, with provision for manual override. In high gradient conditions the GSM-19 magnetometer monitors the signal decay rate and displays a warning message when the gradient becomes too great. Filters for rejection of 50 or 60 Hz noise are provided.

Diurnal corrections may be done in traditional fashion with one magnetometer unit as a base station and a second unit used as the mobile field unit. At the end of the survey the two units are connected and the field unit creates a corrected data file (which still includes the raw data file) based on the temporal drift recorded by the base station.

As a standard feature GSM-19 magnetometer also offer the capability of making tie point measurements for automatic diurnal corrections. To use this feature the operator records a base value and then loops back to this point periodically during the survey to record another measurement, and thus build a file of the drift. In this way a single instrument may be used to make diurnal corrections.

The RS-232 port on the GSM-19 magnetometer will output data as it is collected. This allows interface to GPS loggers that will accept RS232 data. The standard GSM-19 magnetometer may be operated in a remote mode via computer. Memory storage is 512 K in the standard unit, and may be upgraded to 2 MB.

Grid coordinates are stored with either numeric or compass designations. A seven digit number may be used to designate lines and positions. Line and position spacing is entered so that with every reading the position may be automatically updated. An End of Line feature allows the next line to be quickly selected, plus changes the sign on the position spacing. If the previous line had been adding positions as the operator moved, then on the next line, positions will be subtracted as the operator moves. The operator may also easily manually enter his grid position for cases where gaps in the line are necessary.

Equatorial Sensor

In equatorial regions, generally 30 degrees north or south of the equator, magnetic fields reach a nearly horizontal angle with the earth's surface. This requires a conventional proton sensor to be used in an inverted position, and requires the operator to collect data only on east/west lines to maximize the magnetic signal. This is a problem that is a magnitude worse for cesium magnetometers.

The Overhauser technique allows design of an optional sensor completely free of this problem, a sensor that requires no orientation no matter what the latitude of your

exploration. This can be a major advantage when working in diverse areas around the world, and when needing to train local operators whose first language may not be your own.

"Walking Mag Option"

The GSM-19 magnetometer is the first to offer the "Walking Mag" concept. The reason for this is the outstanding advantage the Overhauser sensor has in this application. With the "Walking Mag" option the operator may select a sample rate of up to two samples per second. At this rate Overhauser technology can still deliver a noise level that is quite acceptable, about 0.1 nT, and the lower power consumption means that a full day of surveying can still be done with just the internal rechargeable battery.

As shown in Figure 1 the near continuous data from the "Walking Mag" technique provides increased definition for any type of survey. For surveys with densely spaced grids, such as archaeological or environmental surveys, field productivity is markedly improved, typically by a factor of five.

When in the Walking Mag mode the operator still presets his line and station spacing. When a known station is passed a grid update key is pressed and the current reading is tagged with this station. Readings taken between these marked positions are then linearly interpolated for their grid position when data is transferred to a computer.

A further refinement of the Walking Mag concept is the Hip Chain Option. This option uses a hip chain to trigger the magnetometer to take a reading at discrete intervals. A Hip Chain consists of an optical encoder that records revolutions of a wheel wound with disposable cotton string. The string is tied off at the beginning of a line, and as the operator walks the string is pulled out, and the magnetometer is automatically triggered. With the Hip Chain option sample rates up to five samples per second are supported.

Omnidirectional VLF

The GSM-19 VLF features a three coil design, with new larger coils in 1997, to achieve a non orientation capability with excellent sensitivity. Up to three VLF stations may be recorded, along with the magnetic reading, with the pressing of a single key.

As each VLF station is read the total field strength is displayed. This value may be used to determine if a station's signal is strong enough to obtain useful data. At the end of each reading the in phase, out of phase, and horizontal components are displayed and recorded for each station.

To determine what stations are available the Scan feature may be used. The entire VLF spectrum is scanned and stations with their corresponding signal strength are displayed. Automatic tilt compensation is provided up to ten degrees. Beyond this a warning message appears with display of the amount of tilt in each direction, enabling the operator to correct his position and take the reading again.

For Walking Mag applications a Walking VLF option is also available. With this option a single VLF station may be measured at sampling rates up to once per second. In this mode both magnetic and VLF readings may be collected at the one hertz rate.

Simultaneous Gradiometer

Many mining, environmental, and archaeological applications may benefit from using the gradient measurement. For near surface anomalies, generally twenty meters depth or less, the gradient anomaly will be larger, and narrower, than the total field anomaly. This permits the more accurate location of the target, and gives better sensitivity. The gradient measurement has the added value of being free from diurnal drift.

The most accurate gradient measurements are made when both sensors are polarized and measured at precisely the same time. In this way any slight movement of the sensor staff pole will not affect the reading. With the GSM-19 Gradiometer Option the pressing of a single key will initiate measurement of both the total field and gradient. Both readings are displayed and stored.

Integrated DGPS

With the GPS Log Option the GSM-19 magnetometer will display and store GPS data using standard NMEA format. Position accuracy is dependant on the user's DGPS system.

Also offered is an internally mounted GPS board that may be integrated with radio modem for DGPS mode. A range of GPS boards may be offered to meet customer specified accuracy. These are quoted on a case by case basis to take advantage of current technology. Complete systems, with base station, and DGPS software are provided.

Extended Remote Control

As an option the GSM-19 magnetometer may be completely controlled through the RS232 interface. This option includes all controls available from the keypad, such as power on/off, tuning. etc. This option is most useful for observatory applications.

Marine Magnetometer

The Overhauser effect is a major benefit in marine applications. The GSM-19 has been developed into two marine models; the GSM-19M for shallow tow applications with cable lengths of up to 100 meters; and the standard GSM-19 for tow applications with cable lengths of 30 meters.

A standard GSM-19 magnetometer may be used with a marine sensor with up to a 30 meter cable. In this way the same console may be used for both land and marine applications. Users considering this option may want to focus on also including the Walking Mag option so that they will have sample rates that are more appropriate for marine applications.

Specifications

Overhauser Performance

Resolution: 0.01 nT

Relative Sensitivity: 0.02 nT

Absolute Accuracy: 0.2nT

Range: 20,000 to 120,000 nT

Gradient Tolerance: Over 10,000nT/m

Operating Temperature: -40°C to +60°C

Operation Modes

Manual: Coordinates, time, date and reading stored automatically at min. 3 second interval.

Base Station: Time, date and reading stored at 3 to 60 second intervals.

Walking Mag: Time, date and reading stored at coordinates of fiducial.

Remote Control: Optional remote control using RS-232 interface.

Input/Output: RS-232 or analog (optional) output using 6-pin weatherproof connector.

Operating Parameters

Power Consumption: Only 2Ws per reading. Operates continuously for 45 hours on standby.

Power Source: 12V 2.6Ah sealed lead acid battery standard, other batteries available

Operating Temperature: -50°C to +60°C

Storage Capacity

Manual Operation: 29,000 readings standard, with up to 116,000 optional. With 3 VLF stations: 12,000 standard and up to 48,000 optional.

Base Station: 105,000 readings standard, with up to 419,000 optional (88 hours or 14 days uninterrupted operation with 3 sec. intervals)

Gradiometer: 25,000 readings standard, with up to 100,000 optional. With 3 VLF stations: 12,000, with up to 45,000 optional.

Omnidirectional VLF

Performance Parameters: Resolution 0.5% and range to ±200% of total field. Frequency 15 to 30 kHz.

Measured Parameters: Vertical in-phase & out-of-phase, 2 horizontal components, total field coordinates, date, and time.

Features: Up to 3 stations measured automatically, in-field data review, displays station field strength continuously, and tilt correction for up to ±10° tilts.

Dimensions and Weights: 93 x 143 x 150mm and weighs only 1.0kg.

Dimensions and Weights

Dimensions:

Console: 223 x 69 x 240mm

Sensor: 170 x 71mm diameter cylinder

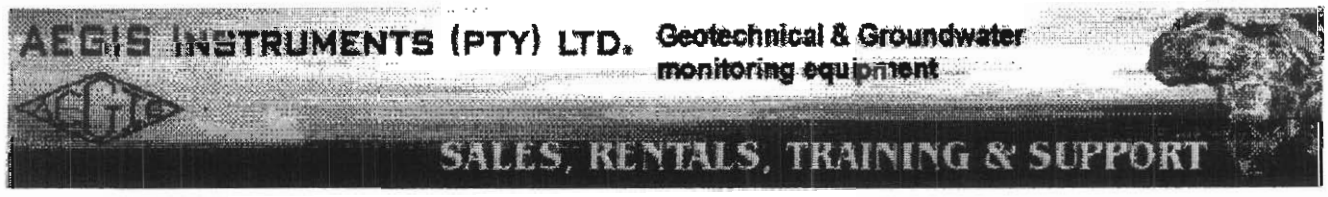
Weight:

Console: 2.1kg

Sensor and Staff Assembly: 2.0kg

Standard Components

GSM-19 magnetometer console, harness, battery charger, shipping case, sensor with cable, staff, instruction manual, data transfer cable and software.



Cell:+(267)-72178079 Tel: +(267)-330 954 Fax: +(267)-330 963

contact webmaster

Claim Abstract

Ontario

Ministry of Northern Development and Mines

Mining Claim Abstract
| Main Menu | Back |

THUNDER BAY - Division 40		Claim No: TB 4204986		Status: ACTIVE
Due Date:	2007-Feb-11	**Recorded:**	2005-Feb-11	
Work Required:	$ 2,400	**Staked:**		
Total Work:	$ 0	**Township/Area:**	WABIKOBA LAKE (G-0620)	
Total Reserve:	$ 0	**Lot Description:**		
Present Work Assignment:	$ 0	**Claim Units:**	6	
Claim Bank:	$ 0			

Claim Holders

Recorded Holder(s) Percentage	Client Number
GRIGGS, HAROLD THOMAS (100.00 %)	400501

Transaction Listing

Type	Date Applied	Description	Performed	Number
STAKER	2005-Feb-11	RECORDED BY FORBES, JIM HAROLD (K18275)		R0540.00449
STAKER	2005-Feb-11	FORBES, JIM HAROLD (132578) RECORDS 100.00 % IN THE NAME OF GRIGGS, HAROLD THOMAS (400501)		R0540.00450

Claim Reservations

01 400' surface rights reservation around all lakes and rivers
02 Sand and gravel reserved
03 Peat reserved
04 Other reservations under the Mining Act may apply
05 Including land under water
06 Excluding road

Last modified: d/m/y 25/02/2005

Ontario

9+00E
10+00E
11+00E
12+00E
13+00E
14+00E
15+00E
16+00E
6+00N
5+00N
4+00N
3+00N
2+00N
1+00N
0+00N
BL 2+00N
old road
No o/c
1b
1a
2c
Sul
Road
1c, sul
old trail
1a, py
1c, py
1c
Sul, carb
1a, sul,
2c, gossan, q.v.
2c, py, grn.
q.v.
2c, py, ser, schist)
tr.
2a, q.v. cp, py

N

LEGEND

MAFIC VOLCANICS

1a - Massive flows
1b - Pillowed flows
1c - Tuff

FELSIC VOLCANICS

2a - Rhyolite flow
2c - Tuff, sericite schist.

SYMBOLS

- Outcrop boundary.
- Sul - Sulphides
- py - pyrite
- cp - chalcopyrite
- q.v. - quartz vein
- tr. - Trench

Scale

0 50 100 150m

2.30682

REGISTERED PROFESSIONAL ENGINEER
J. A. R BERNATCHEZ
PROVINCE OF ONTARIO
R. Bernatchez P.Eng.

HAROLD GRIGGS

Musher Lake Property
Geology Map

Scale: 1:2500
By: R.A. Bernatchez, P.Eng.
August 10, 2005

5870000E

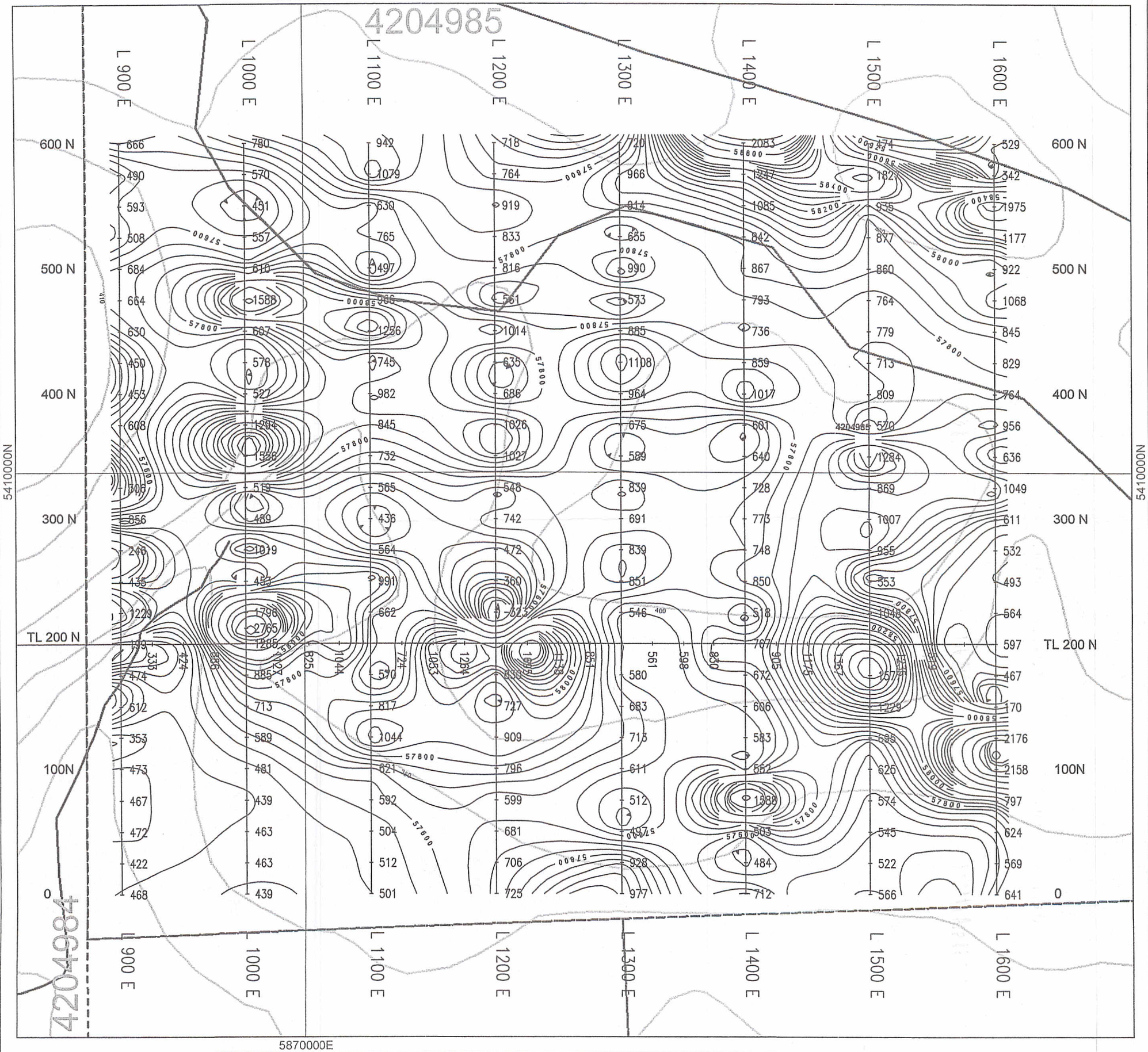
4204985

L 900 E
L 1000 E
L 1100 E
L 1200 E
L 1300 E
L 1400 E
L 1500 E
L 1600 E

600 N
500 N
400 N
300 N
TL 200 N
100N
0

5410000N

4204984



5870000E

5410000N

TRUE

N

W E

S

GEOPHYSICAL LEGEND

DATUM: 57000 nT

INSTRUMENT: GEM GSM-19

CONTOUR INTERVAL: 50 GAMMAS

MAGNETIC LOW:

2.30682

0 50m 100m

SCALE 1 : 2500

HAROLD T. GRIGGS

MUSHER LAKE PROPERTY

WABIKOBA LAKE AREA - THUNDER BAY MINING DIVISION

TOTAL FIELD MAGNETIC MAP

NAD - 83 ZONE 16	Survey by R.A. Bernatchez, P. Eng Consulting Geologist Box 1376, 126 Willow Road Atikokan, Ontario, P0T-1C0
G-0620	
AUG 2005	

CLARK EXPLORATION CONSULTING

2.30682

Musher Lake Property

· List of Figures (Bernatchez Report)

Figure 1 Property Access and Grid Location

Figure 2 Regional Geology Map

Figure 3 Local Geology Map

Figure 4 Map of grid, showings & location of drill holes & trenches

· Sample Locations, Descriptions and Assay Results (Bernatchez samples)

· Assays & Invoice (Bernatchez)

· Assays (Fowler)

· Geology Map showing sample locations (including Bernatchez samples)

N

W 28/83

Musher Lake Property

9+00E 11+00E 13+00E 16+00E

6+00N

BL 2+00N

0+00

4204985

4204986

4204984

1242486

1010503 1010504 1010507 1010510

1166525 1166522

1153692 1099990

1183292 1183291 1183290

1196847 1196846 1196845 1196848

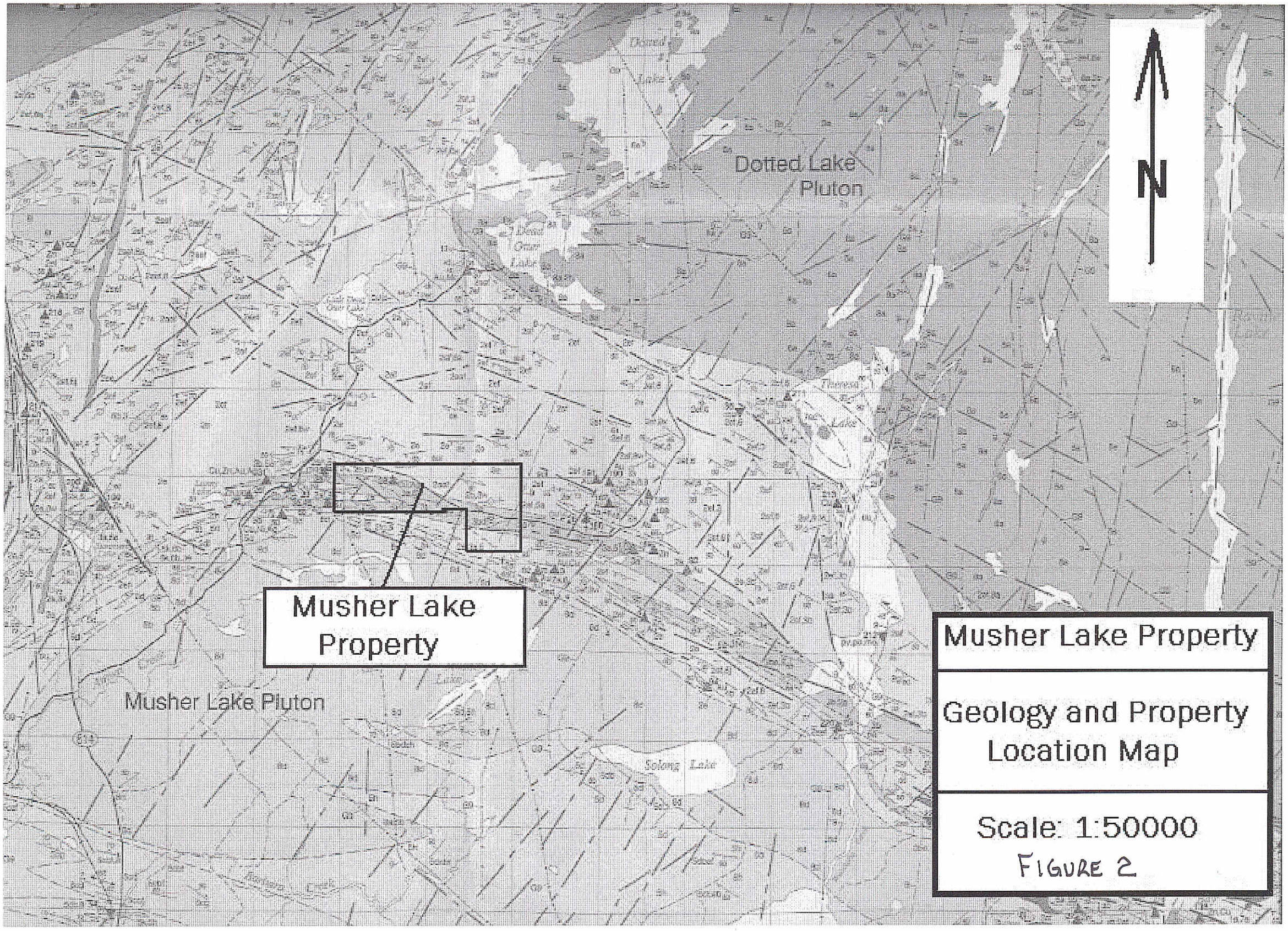
1183039

5411000N 5410000N 5409000N

FIGURE 1

Harold Griggs
Musher Lake Property Wabikoba Lake (G-0620) Thunder Bay Mining Division
Scale:1:20000 By: RAB-04/08/05

2.30682



Musher Lake Property

Geology and Property Location Map

Scale: 1:50000

FIGURE 2

2.30682

Musher Lake Property

Scale (metres)

0 400 800 1200

Musher Lake Property

Local Geology Map

FIGURE 3

By: Milne

Scale

2.30682

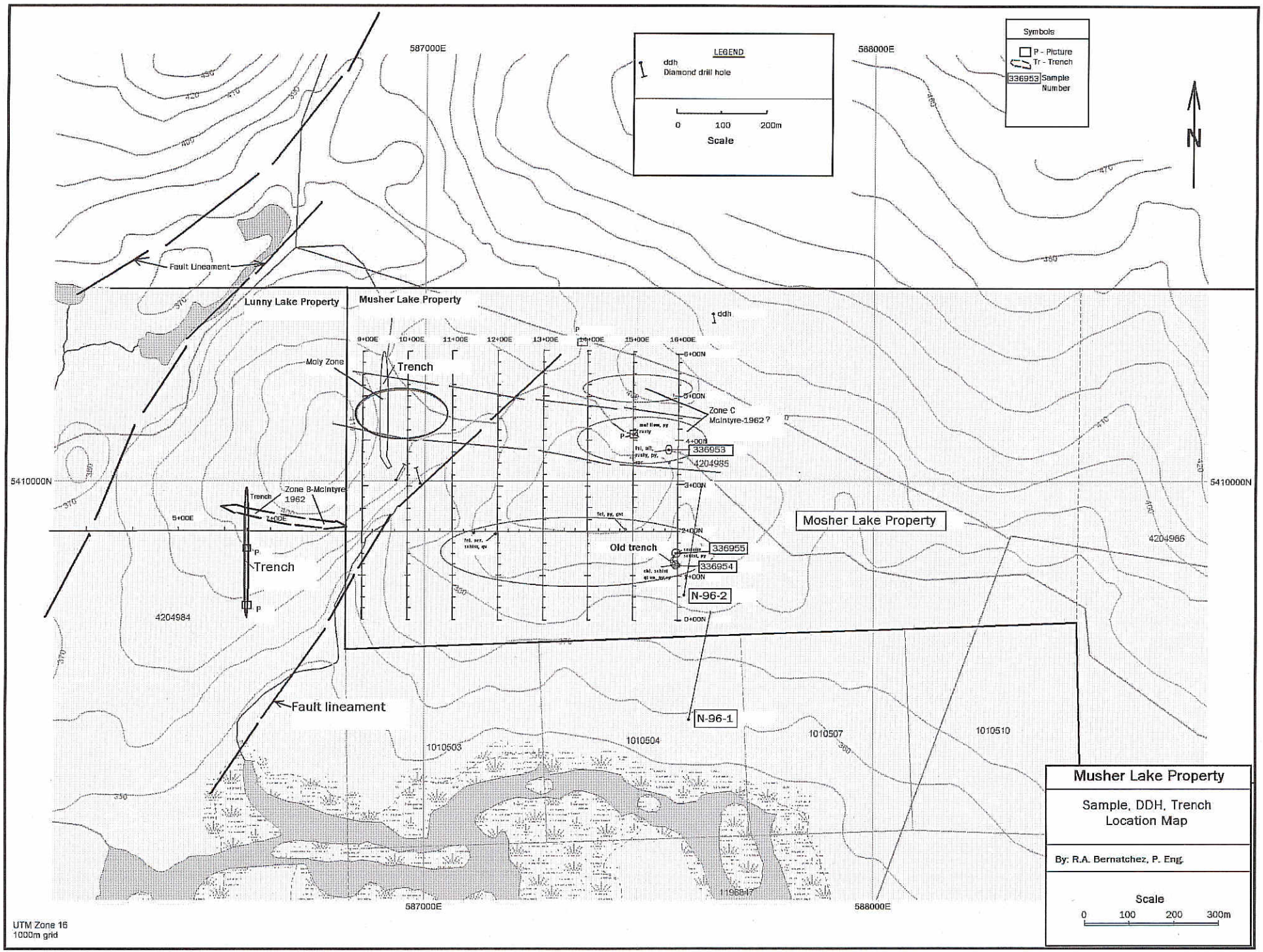


FIGURE 4

Musher Lake Samples (Bernatchez)

Sample Number	UTM Easting	Northing	Grid Location	Description	Au	Ag	Cu	Ni	Pb	Zn
336953	587534	5410039	16+00E, 4+00N	Mafic vol. pyrite	67	<1	111	9	3	150
336954			16+00E, 1+25N	q.v. py,cp	17	<1	229	53	2	91
336955			16+00E, 1+50N	Sericite schist, py	10	<1	11	12	1	82
336957			Old tr. east end musher property	Quartz vein, epidote pyrite	9	<1	111	13	4	119
336958			Old trenches East of Musher property	Mafic volcanic flows pyrite pyrrhotite	11					
Lab No 80996 (duplicate 80997)			Old trenches east of Musher property	Mafic volcanic flow, pyrite pyrrhotite	9	<1	18	165	2	41

Accurassay Laboratories Mineral Assay Division of Assay Laboratory Services Inc.

1046 GORHAM STREET THUNDER BAY, ONTARIO P7B 5X5 PHONE: (807) 626-1630 FAX: (807) 622-7571 EMAIL: assay@accurassay.com WEB: www.accurassay.com

Certificate of Analysis

Wednesday, July 27, 2005

Bernatchez, Raymond A.
P.O. Box 1376, 126 Willow Road
Atikokan, ON, CA
P0T1C0
Ph#: (807) 597-4526
Fax#: (807) 597-4636
Email raybernatchez@nwon.com

Date Received : 21-Jul-05
Date Completed : 26-Jul-05
Job # 200541151
Reference :
Sample #: 10 Rock

Accurassay #	Client Id	Au ppb	Au oz/t	Au g/t (ppm)
80987	336951	19	<0.001	0.019
80988	336952	66	0.002	0.066
80989	336953	67	0.002	0.067
80990	336954	17	<0.001	0.017
80991	336955	10	<0.001	0.010
80992	336956	34	<0.001	0.034
80993	336957	20	<0.001	0.020
80994	336958	11	<0.001	0.011
80995	336959	13	<0.001	0.013
80996	No Tag	9	<0.001	0.009
80997 Check	No Tag	8	<0.001	0.008

PROCEDURE CODES: AL4Au3, AL4ICPAR

Certified By:
Derek Demianiuk H.Bsc., Laboratory Manager

Accurassay Laboratories Mineral Assay Division of Assay Laboratory Services Inc.

1046 GORHAM STREET THUNDER BAY, ONTARIO P7B 5X5 PHONE: (807) 626-1630 FAX: (807) 623-6820 EMAIL: assay@accurassay.com WEB: www.accurassay.com

Bernatchez, Raymond A.
Date Created: 05-08-04 09:41 AM
Job Number: 200541151
Date Recieved: 7/21/2005
Number of Samples: 10
Type of Sample: Rock
Date Completed: 7/26/2005
Project ID:

* The results included on this report relate only to the items tested
* This Certificate of Analysis should not be reproduced except in full, without the written approval of the laboratory.
*The methods used for these analysis are not accredited under ISO/IEC 17025

Accur. #	Client Tag	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Si %	Sn ppm	Sr ppm	Ti ppm	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm
80987	336951	<1	0.64	<3	36	41	<1	0.28	<10	6	310	21	3.94	0.16	3	0.30	834	2	0.02	11	282	7	<10	<5	0.03	<10	8	940	<1	6	<10	2	628
80988	336952	2	0.78	<3	53	8	<1	0.42	<10	31	69	>5,000	7.64	0.06	10	0.70	240	2	0.05	54	467	12	<10	<5	0.02	21	7	589	<1	9	<10	3	490
80989	336953	<1	0.82	45	38	137	<1	0.27	<10	59	322	111	4.26	0.30	12	0.54	238	3	0.09	9	374	3	<10	<5	0.03	<10	25	682	<1	19	<10	2	150
80990	336954	<1	0.84	<3	39	31	<1	0.92	<10	49	188	229	4.31	0.08	9	0.51	391	2	0.06	53	521	2	<10	<5	0.03	<10	25	753	<1	17	<10	4	91
80991	336955	<1	0.76	<3	26	56	<1	0.14	<10	12	130	11	2.31	0.19	20	0.59	221	2	0.04	12	508	1	<10	<5	0.02	<10	19	190	<1	5	<10	3	82
80992	336956	<1	0.59	<3	57	15	<1	0.12	<10	45	158	378	7.86	0.04	9	0.56	153	<1	0.02	390	311	10	<10	<5	0.02	24	<5	529	<1	4	<10	4	60
80993	336957	<1	0.52	<3	35	11	<1	1.05	<10	28	139	111	4.27	0.06	<1	0.29	348	3	0.11	13	1274	4	<10	<5	0.02	<10	7	2416	<1	50	<10	18	119
80996	No Tag	<1	0.63	<3	27	56	<1	0.49	<10	18	285	18	2.33	0.21	11	0.68	266	<1	0.03	165	440	4	<10	<5	0.01	<10	22	581	<1	20	<10	3	62
80997	No Tag	<1	0.63	<3	22	57	<1	0.50	<10	19	292	16	2.34	0.21	11	0.68	269	<1	0.03	167	438	2	<10	<5	0.01	<10	23	590	<1	20	<10	3	41

Certified By: _____
Derek Demianiuk, H.Bsc.

Accurassay Laboratories

1070 Lithium Drive, Unit 2, Thunder Bay, Ontario, P7B 6G3
Ph: (807) 626-1630 Fx: (807) 623-6820 Email: assay@accurassay.com

INVOICE

Invoice No.: 86683
Date: August 29, 2005
Page: 1

Bill To:

Bernatchez, Raymond A.
P.O Box 1376
126 Willow Road
Atikokan, Ontario P0T 1C0
Canada

Analyzed for:

Bernatchez, Raymond A.
P.O Box 1376
126 Willow Road
Atikokan, Ontario P0T 1C0
Canada

Business No.: 10029 4768 **Due Date:** **August 29, 2005**

Code	Qty	Unit	Description	Unit Price	Amount
			Job# 200541151		
ALP1	10	ea.	Sample Prep	5.75	57.50
ALFA2	10	ea	Gold FA/AA (30g)	10.00	100.00
ALIAR1	4	ea	ICP Aqua Regia Full Scan	9.00	36.00

Lunny Lake Project
RMBernatchez

Paid via chq # 5
Sept 28/05.

Comments

Subtotal	193.50
GST	13.55
Total Amount	207.05

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
212 Brooksbank Avenue
North Vancouver BC V7J 2C1
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **FOWLER, BRIAN**
PO BOX 2174
APT 19, 3 HELMO DR
MARATHON ON P0T 2E0

Finalized Date: 3-SEP-2005
Account: KBS

Project: LUNNY LAKE

CERTIFICATE OF ANALYSIS TB05070633

Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
L1		0.59	1.5	0.65	28	<10	10	<0.5	<2	0.87	0.9	16	366	431	11.50	<10
L2		0.30	0.9	0.45	3	<10	60	<0.5	<2	0.01	<0.5	5	6	65	11.00	<10
L3		0.39	0.6	0.27	13	<10	10	<0.5	<2	0.07	4.6	12	12	102	1.67	<10
L4		0.44	0.4	1.84	6	<10	90	<0.5	<2	1.92	<0.5	18	53	40	3.95	<10
L5		0.74	0.3	2.44	<2	<10	40	<0.5	<2	1.30	2.1	16	58	138	4.16	10
L6		0.57	0.4	3.75	<2	<10	10	<0.5	<2	0.34	<0.5	19	28	1420	8.15	10
L7		0.92	0.8	3.48	<2	<10	10	<0.5	<2	0.35	<0.5	17	24	3810	6.09	10
L8		0.81	3.1	5.86	3	<10	110	<0.5	3	2.74	3.0	12	99	2070	6.67	20

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
	LOR	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	0.01
L1		<1	0.04	<10	0.50	260	1	0.05	122	820	<2	2.73	<2	4	23	0.06
L2		<1	0.25	<10	0.02	37	1	0.01	4	240	11	0.79	<2	1	10	0.03
L3		<1	0.07	<10	0.14	116	1	0.01	15	80	18	0.76	<2	1	3	0.02
L4		<1	0.22	<10	1.07	553	<1	0.14	40	720	2	0.36	<2	9	21	0.33
L5		1	0.43	10	1.29	261	<1	0.07	62	650	5	1.90	<2	4	29	0.17
L6		<1	0.07	10	3.29	447	3	0.03	46	690	<2	2.14	<2	5	5	0.13
L7		<1	0.06	<10	3.08	338	<1	0.05	43	790	<2	0.79	<2	4	7	0.09
L8		<1	0.93	10	1.76	593	<1	0.31	40	720	313	1.00	<2	17	94	0.23

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Finalized Date: 3-SEP-2005
Account: KBS

Project: LUNNY LAKE

CERTIFICATE OF ANALYSIS TB05070633

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
	Analyte	Tl	U	V	W	Zn	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	10	10	1	10	2	0.001
L1		<10	<10	67	<10	630	0.088
L2		<10	<10	13	<10	173	0.102
L3		<10	<10	8	<10	1290	0.027
L4		<10	<10	83	<10	98	0.007
L5		<10	<10	73	<10	1540	0.003
L6		<10	<10	105	<10	222	0.001
L7		<10	<10	92	<10	66	0.011
L8		<10	<10	138	<10	799	0.064

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MARATHON ON P0T 2E0

Finalized Date: 20-SEP-2005
Account: KBS

Project: LUNNY LAKE

CERTIFICATE OF ANALYSIS TB05075186

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
L9		0.37	0.004	<0.2	0.59	<2	<10	50	<0.5	<2	0.08	<0.5	1	22	7	0.73
L10		0.54	0.004	<0.2	0.41	2	<10	50	<0.5	<2	0.05	<0.5	1	22	4	0.83
L11		0.62	0.001	0.2	0.50	4	<10	60	<0.5	<2	0.07	<0.5	5	19	9	0.69
L12		0.43	0.004	<0.2	0.71	<2	<10	70	<0.5	<2	0.05	<0.5	2	29	5	0.99
L13		0.67	0.002	<0.2	0.58	<2	<10	60	<0.5	<2	0.26	<0.5	3	19	6	0.74
L14		0.35	0.001	<0.2	1.28	2	<10	100	<0.5	<2	0.11	<0.5	2	32	5	1.40
L15		0.60	0.005	<0.2	4.25	5	<10	130	<0.5	<2	1.75	<0.5	12	71	70	5.41
L16		0.48	0.015	0.3	0.36	<2	<10	10	<0.5	<2	0.33	<0.5	2	74	23	3.00
L17		0.49	0.026	0.8	0.09	6	<10	10	<0.5	<2	0.28	<0.5	5	6	96	28.6
L18		0.19	0.084	2.0	0.18	7	<10	<10	<0.5	<2	0.33	<0.5	19	50	159	11.55

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Project: LUNNY LAKE

CERTIFICATE OF ANALYSIS TB05075186

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
L9		<10	1	0.22	10	0.33	149	1	0.03	3	200	129	0.02	<2	<1	5
L10		<10	<1	0.21	<10	0.12	76	<1	0.02	2	210	<2	0.28	<2	<1	3
L11		<10	<1	0.28	<10	0.19	107	1	0.02	12	210	<2	0.42	<2	<1	5
L12		<10	<1	0.36	<10	0.47	275	<1	0.03	8	210	<2	0.14	<2	<1	4
L13		<10	<1	0.22	<10	0.16	84	1	0.03	5	200	8	0.24	<2	<1	8
L14		10	1	0.87	<10	1.07	443	15	0.06	6	200	3	0.03	<2	2	7
L15		10	1	0.96	10	1.05	344	9	0.38	48	450	<2	1.34	<2	12	152
L16		<10	1	0.02	<10	0.16	1620	1	0.02	10	10	<2	1.31	<2	1	7
L17		<10	1	0.01	<10	0.10	966	2	0.01	21	20	12	6.11	<2	<1	4
L18		<10	1	0.01	<10	0.13	490	1	0.01	45	40	4	7.60	<2	<1	12

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Project: LUNNY LAKE

CERTIFICATE OF ANALYSIS TB05075186

Sample Description	Method / Analyte / Units / LOR	ME-ICP41 Ti % 0.01	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2
L9		0.03	<10	<10	7	<10	25
L10		0.01	<10	<10	2	<10	7
L11		0.01	<10	<10	3	<10	19
L12		0.03	<10	<10	6	<10	42
L13		0.02	<10	<10	5	<10	8
L14		0.12	<10	<10	23	<10	43
L15		0.19	<10	<10	138	<10	68
L16		<0.01	<10	<10	10	<10	15
L17		0.01	<10	<10	27	<10	52
L18		<0.01	<10	<10	18	<10	50

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Project: MUSHER LAKE

CERTIFICATE OF ANALYSIS TB05076904

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
L19		0.33	0.002	<0.2	0.37	<2	<10	40	<0.5	<2	0.25	<0.5	4	39	20	3.48
L20		0.63	0.008	0.4	4.23	<2	<10	70	0.6	<2	0.96	<0.5	9	50	33	8.84
L21		0.83	0.001	<0.2	1.53	3	<10	40	<0.5	<2	1.58	<0.5	7	39	10	1.00
L22		0.65	0.002	<0.2	0.99	<2	<10	50	<0.5	<2	0.59	<0.5	22	33	29	1.72
L23		0.38	0.002	<0.2	1.64	2	<10	50	<0.5	<2	0.97	<0.5	21	31	72	1.91
L24		0.67	0.036	0.2	2.25	10	<10	80	<0.5	<2	0.62	<0.5	9	31	9	2.38
L25		0.48	0.156	0.5	1.60	19	<10	50	<0.5	<2	0.56	<0.5	12	24	31	2.58
L26		0.71	0.003	<0.2	3.37	2	<10	40	<0.5	<2	2.22	<0.5	17	69	37	7.49
L27		0.35	<0.001	<0.2	0.64	2	<10	20	<0.5	<2	0.03	<0.5	2	27	2	1.96

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Project: MUSHER LAKE

CERTIFICATE OF ANALYSIS TB05076904

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
L19		<10	<1	0.07	<10	0.22	736	<1	0.03	10	430	4	1.18	3	1	12
L20		10	1	0.29	10	1.96	1300	4	0.09	28	740	8	1.46	4	9	47
L21		<10	1	0.16	10	0.37	195	2	0.04	30	720	2	0.13	<2	2	29
L22		<10	<1	0.23	10	0.47	136	3	0.03	48	760	3	0.80	<2	2	15
L23		<10	<1	0.22	10	0.52	186	3	0.09	42	720	<2	0.91	2	2	43
L24		10	1	1.05	10	1.11	569	<1	0.20	10	580	<2	0.56	2	8	42
L25		<10	<1	0.57	10	0.70	438	1	0.11	12	520	<2	2.08	<2	4	44
L26		10	<1	0.07	10	0.45	615	<1	0.35	22	840	<2	1.96	<2	7	146
L27		<10	<1	0.06	10	0.37	215	<1	0.06	4	100	<2	0.01	<2	1	7

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CERTIFICATE OF ANALYSIS TB05076904

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
L19		0.02	<10	<10	12	<10	45
L20		0.10	<10	<10	83	<10	235
L21		0.11	<10	<10	29	<10	23
L22		0.09	<10	<10	22	<10	39
L23		0.09	<10	<10	26	<10	25
L24		0.20	<10	<10	80	<10	45
L25		0.09	<10	<10	37	<10	168
L26		0.07	<10	<10	100	<10	27
L27		0.03	<10	<10	18	<10	16

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Account: KBS

Project: MUSHER LAKE

CERTIFICATE OF ANALYSIS TB05077399

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
L28		0.40	0.007	0.2	1.38	<2	<10	210	<0.5	<2	0.16	<0.5	4	37	29	3.17
L29		0.57	0.003	<0.2	0.88	5	10	10	<0.5	<2	1.02	<0.5	6	39	18	1.12
L30		0.42	0.012	<0.2	1.12	7	<10	40	<0.5	<2	0.64	<0.5	12	27	62	2.94
L31		0.39	0.013	<0.2	1.22	<2	<10	80	<0.5	<2	0.88	<0.5	11	31	21	4.85
L32		0.54	0.012	<0.2	0.95	<2	<10	40	<0.5	<2	1.42	<0.5	9	31	7	1.88
L33		0.35	0.012	<0.2	1.62	2	10	30	<0.5	<2	1.90	<0.5	25	49	18	2.93
L34		0.43	0.003	<0.2	1.50	2	<10	250	<0.5	<2	1.29	<0.5	6	28	68	1.38
L35		0.93	<0.001	<0.2	1.07	<2	<10	90	<0.5	<2	0.14	<0.5	5	37	7	0.55
L36		0.41	<0.001	<0.2	0.44	<2	<10	90	<0.5	<2	0.03	<0.5	1	28	17	1.51
L37		0.63	0.002	<0.2	2.11	<2	<10	60	<0.5	<2	0.07	<0.5	23	43	8	8.86

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CERTIFICATE OF ANALYSIS TB05077399

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
L28		10	<1	0.82	<10	0.73	221	1	0.09	6	490	<2	0.72	<2	7	11
L29		<10	<1	0.09	<10	0.21	133	14	0.02	6	510	3	0.26	<2	1	37
L30		<10	<1	0.23	10	0.43	172	2	0.05	13	580	5	1.64	<2	2	19
L31		10	<1	0.28	10	0.45	175	1	0.05	23	450	4	2.59	<2	3	64
L32		<10	<1	0.06	<10	0.15	87	1	0.03	35	630	<2	0.82	<2	2	59
L33		<10	1	0.18	10	0.40	162	3	0.08	74	710	4	2.51	<2	3	57
L34		10	<1	0.09	<10	0.52	93	20	0.06	6	240	2	0.87	<2	1	20
L35		<10	<1	0.18	10	0.17	50	1	0.06	10	450	<2	0.01	<2	2	18
L36		<10	<1	0.18	10	0.10	27	11	0.03	2	330	2	0.12	<2	<1	14
L37		10	<1	0.49	<10	0.95	571	<1	0.02	48	240	2	0.12	<2	6	7

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CERTIFICATE OF ANALYSIS TB05077399

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
L28		0.17	<10	<10	64	<10	19
L29		0.08	<10	<10	20	<10	8
L30		0.12	<10	<10	33	<10	28
L31		0.06	<10	<10	40	<10	8
L32		0.19	<10	<10	26	<10	5
L33		0.08	<10	<10	36	<10	19
L34		0.06	<10	<10	14	<10	8
L35		<0.01	<10	<10	23	<10	7
L36		<0.01	<10	<10	7	<10	5
L37		0.11	<10	<10	112	<10	102

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Project: LUNNY LAKE

CERTIFICATE OF ANALYSIS TB05084282

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
L38		0.41	0.023	1.1	3.38	<2	<10	10	<0.5	<2	0.27	<0.5	115	16	1130	13.55
L39		0.62	0.008	0.3	1.31	2	<10	20	<0.5	<2	0.92	<0.5	48	7	163	6.85
L40		0.63	0.136	4.4	2.85	<2	<10	40	<0.5	<2	1.42	22.8	20	67	4650	6.63
L41		0.66	0.082	8.9	2.17	<2	<10	40	<0.5	16	0.79	26.6	13	58	9440	5.50

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CERTIFICATE OF ANALYSIS TB05084282

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
L38		10	1	0.04	<10	2.77	409	6	0.04	53	470	10	8.18	<2	3	3
L39		<10	<1	0.17	10	0.28	222	2	0.05	126	640	6	6.26	<2	2	8
L40		10	<1	0.44	10	0.92	461	4	0.13	62	540	136	2.35	<2	8	40
L41		10	<1	0.36	<10	0.95	355	1	0.10	26	570	176	1.48	<2	10	30

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CERTIFICATE OF ANALYSIS TB05084282

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	10	10	1	10	2
L38		0.06	<10	<10	65	<10	112
L39		0.08	<10	<10	18	<10	43
L40		0.12	<10	<10	81	<10	2470
L41		0.12	<10	<10	85	<10	1500