

TLC RESOURCES INC.

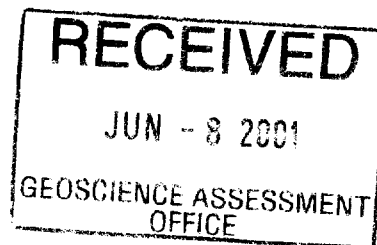
**LANGDON GOLD PROPERTY
HAWKINS TOWNSHIP
SAULT Ste MARIE MINING DIVISION
NORTHERN ONTARIO**

**REPORT ON MAGNETIC, VLF ELECTROMAGNETIC
AND SOIL GEOCHEMICAL SURVEYS**

- by -

C. R. Bowdidge, M.A., Ph.D.

May 2001



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INTRODUCTION

This report describes the results of magnetic, VLF-electromagnetic and soil geochemical surveys carried out during the winter and spring of 2000 on the Langdon gold property by TLC Resources Inc. Recommendations are made for further exploration.

PROPERTY, LOCATION AND ACCESS

The Langdon property consists of six mining claims comprising 87 claim units; details are given in Table I.

Claim No.	Units/ha	Date recorded	Required	Applied	Reserve	Due date
SSM1205056	10/160	Apr. 13, 2000	\$4000	\$0	\$0	Apr. 13, 2002
SSM1205058	16/256	Apr. 13, 2000	\$6400	\$0	\$0	Apr. 13, 2002
SSM1205059	16/256	Apr. 13, 2000	\$6400	\$0	\$0	Apr. 13, 2002
SSM1205080	15/240	Jun. 9, 1999	\$6000	\$0	\$0	Jun. 9, 2001
SSM1205081	15/240	Jun. 9, 1999	\$6000	\$0	\$0	Jun. 9, 2001
SSM1205090	15/240	Jun. 9, 1999	\$6000	\$0	\$0	Jun. 9, 2001

The Langdon Property is located in Hawkins Township, along the Algoma Central Railway line, approximately 8 km south of the town of Oba (Figure 1). Oba is located approximately 90 kilometres south of Hearst, at the intersection of the Canadian National Railway and Algoma Central Railway lines. The property is within NTS block 42C 16NE and is centred on UTM 710600E, 5428800N. The property is easily accessed from the town of Hearst on the Trans-Canada Highway (Highway 11), via Highway 533 south for 10 km, then south-southeast for approximately 110 km by gravel logging roads.

Hearst is a full service town that provides man power, support and supplies to an active forestry industry. The town hosts rail, electrical power and a natural gas pipeline.

The property is traversed by a number of logging roads (see fig. 2).



TLC RESOURCES INC.
 LANGDON GOLD PROPERTY
 LOCATION MAP

Figure 1

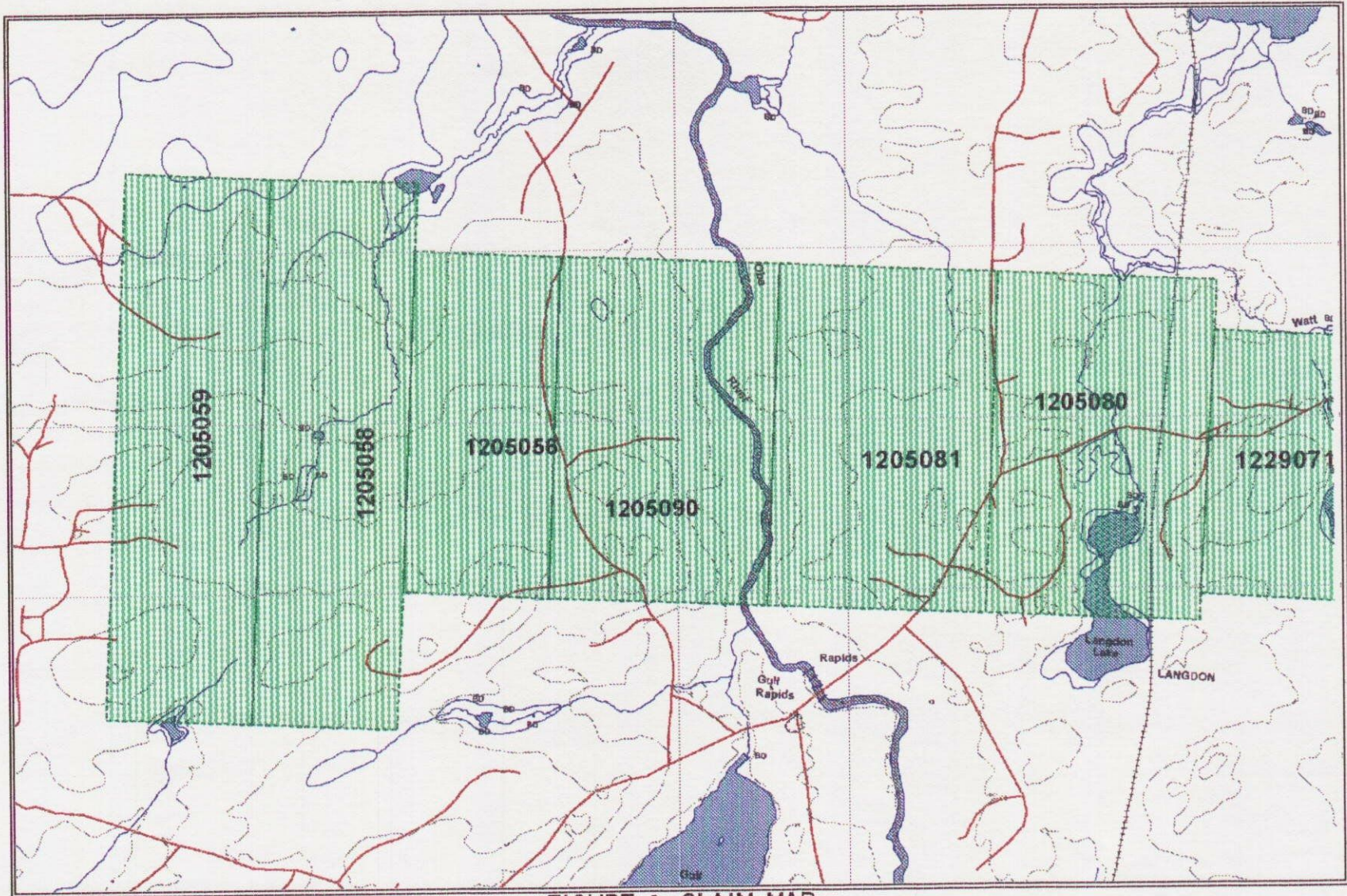


FIGURE 2: CLAIM MAP

HISTORY AND PREVIOUS WORK

The area of the Langdon Property has been explored since the discovery of gold in the 1920's. The proximity of the Algoma Central Railway has provided access to the area and most of the early showings were located near the railway. The advent of a good network of logging roads has opened up the area to further explorers. The earliest government mapping of Hawkins township dates to reconnaissance mapping by Tanton (1917). Further work from the 1920's to the early 1990's has not completed a detailed map for the township (Gledhill 1927, Wilson 1993). Recently the work by Wilson (1993) has documented the gold showings.

Previous exploration recorded in the Assessment Files (housed in Timmins) and within various government reports for the Langdon property and area is:

1923: G. Taylor discovered gold east of the present Langdon claims while prospecting.

1925-1945: Shenango Mining Co. intermittently completed exploration and development in the area, primarily on the Shenango Gold Mine to the east of the property. Two shafts were sunk, workings driven and diamond drilling completed. A 50 ton per day mill was erected in 1936. Gold production is not well documented but a resource of 41,600 tons grading 0.14 ounces gold per ton is estimated for the area of the No. 1 Shaft (Wilson 1993)

1925-1945: Two large pits and two shafts just north of Langdon Lake are believed to date from this period (Wilson 1993). The main shaft is located at 400W/010S on the 2000 grid.

1980: A. MacDonnell drilled and blasted some new pits and cleaned out the old pits and shafts north of Langdon Lake. No assay data is filed with the assessment work.

1983-1985: Falconbridge Ltd. acquired a large land package covering the Shenango shafts, the Taylor occurrence and the Langdon pits and shafts. The exploration program was completed over the eastern quarter of the present property. The work comprised regional reconnaissance rock and humus geochemistry in 1983, followed by an induced polarization survey and subsequent diamond drilling in 1984. Extensive outcrop stripping followed in 1985 using a

backhoe and shallow blasting. Work completed on the present Langdon Property comprised limited humus sampling, rock geochemistry, induced polarization, three short stripped areas and a single diamond drill hole. The soil sampling indicated an anomalous gold zone sub-parallel to the Langdon - Shenango gold trend. The induced polarization trends delineate the Langdon - Shenango gold trend on the present property. The trenches failed to locate anomalous gold mineralization. The diamond drill hole (GO-03)(233 feet) was completed to the east of the Langdon pits and shafts near the Algoma Central Railway. The diamond drill hole intersected layered amphibolite and felsic metavolcanics with minor pyritic zones (7 to 20 centimetres). The assays were all nil or trace gold except for two 1.5 metre sections of 40 ppb gold per ton.

1987-1989: Goldfields Canadian Mining acquired a 261 claim block in Hawkins Township. Preliminary work consisted of prospecting, sampling and stripping which resulted in the discovery of a new gold showing west of the present property. The zone assayed up to 51 grams per ton gold over 1 metre widths. Aurlot Resources signed an agreement with Goldfields in 1989 and conducted a more comprehensive exploration program. The property partially covered the west central portion of the Langdon Property. The program was designed to follow the western extension of the Shenango- Langdon gold trend. The program comprised line-cutting, geological surveys, geological mapping, prospecting, soil geochemistry, trenching, and limited diamond drilling. The program focused on the showing located by Goldfields and attempted to follow the zone east and west. The results of the program on the Langdon portion of the property indicated induced polarization trends on strike to the induced polarization trends defined by Falconbridge near the Langdon pits and shafts. Diamond drilling was restricted to the Goldfields showing area.

1999: D. McKinnon drilled one hole to 217 metres on claims to the east of the property on the Langdon-Shenango gold trend.

GEOLOGY

The rock underlying the Langdon property is part of the Kabinakagami Lake Greenstone Belt (Wilson 1993). The property is dominantly underlain by moderately to strongly foliated mafic and felsic metavolcanics. The southern portion of the property is underlain by sheared tonalite.

The foliation and bedding trend east-west in the eastern portion of the property and southwest-northeast in the western portion of the property. All dips are steep to the north. The foliation and bedding parallel the contact of the sheared tonalite to the south.

The property covers approximately 5 kilometres of strike length of the mafic-felsic metavolcanic / sheared tonalite contact zone. This contact zone hosts the Langdon - Shenango gold trend, located parallel to and to the north of, the sheared tonalite contact. The gold mineralization is hosted by east-west trending, steep northerly dipping, sulphide-bearing quartz veins (Wilson 1993). The general location of the mineralized veins north of the sheared tonalite is similar to the location of the Goldfields gold occurrence. The gold mineralization at the Goldfields gold occurrence is associated with pyrrhotite and minor chalcopyrite bearing, silicified felsic tuff/schist and or felsic intrusive (Lahti 1989). Gold values from channel sampling assayed up to 51 grams over 1.0 metres (Lahti 1989).

The gold mineralization at the Langdon shafts and pits is hosted within a 750 metre wide zone of sheared mafic and felsic volcanic and deformed felsic intrusive rocks (Wilson 1993). A continuous quartz vein (15 to 30 centimetres) is exposed in the four main pits and shafts north of Langdon Lake (150 - 180 metres). The quartz vein is glassy with numerous partings of chlorite, sericite and sulphides. The sulphide are comprised of trace to 3% pyrite > chalcopyrite >> galena and sphalerite.

2000 EXPLORATION PROGRAM

Line Cutting

An east-west base line 5800 metres long was laid out along the length of the property. North-south lines were laid out at 100 metre intervals for the easternmost 1000 metres, and three widely spaced reconnaissance lines were cut in the western part of the property.

Magnetic and VLF-electromagnetic Surveys

Geophysical surveys were carried out using an EDA Omni Plus magnetometer/VLF system. This instrument combines two magnetometer sensors on a single staff, and records both total field and vertical gradient. It also includes a VLF receiver which consists of three mutually

orthogonal coils and a tilt-meter. Signal strength is measured in the three coils and synthesized into readings of in-phase tilt (in percent gradient), quadrature, total field strength and horizontal field direction. The instrument stores the readings taken in a day's survey together with line and station numbers, and allows the operator to dump the data to a computer each evening. A recording magnetic base station is also connected during the magnetometer dump, at which time diurnal corrections are performed automatically. VLF transmitter NAA (Cutler, Maine 24.0 KHz) was used for the survey. Readings were taken at intervals of 12.5 metres throughout the survey area.

The geophysical survey data were processed by the writer using the geophysical software package of Geosoft Inc. which allows maps to be generated directly from the digital data. The following maps are appended to this report at a scale of 1:5000 - Plate 1, total magnetic field postings (corrected readings); Plate 2, total magnetic field profiles; Plate 3, VLF in-phase and quadrature postings; Plate 4, VLF in-phase and quadrature profiles.

Soil Geochemical Survey

Soil samples were collected from "B" horizon material where soil was developed on till. Soils developed on outwash and in swampy areas were not sampled. The sampling medium was chosen because till is likely to reflect the composition of bedrock within a short distance up-ice from the sampling site, and because hydromorphic processes operating in the oxidizing environment of the "B" horizon are likely to homogenize the distribution of gold in the host material. Samples were typically collected at depths between 15 and 45 cm below surface. Samples were sent to Swastika Laboratories Ltd. for analysis by fire assay with atomic absorption finish. Analytical certificates are presented in Appendix 1. Plate 5 shows the geochemical survey data as postings and sized symbols.

Personnel

The following personnel were engaged in the program:

Frank Houghton	Beardmore, ON	Line cutting, soil sampling
Philip Houghton	Beardmore, ON	Line cutting
Richard Kindla	Geraldton, ON	Line cutting
Dusan Dmitrovic	Mississauga, ON	Geophysical operator, soil sampling
Colin Bowdidge	Toronto, ON	Supervision

Statistical Summary

Table II gives a summary of the surveys carried out.

TABLE II STATISTICAL SUMMARY OF SURVEY DATA		
Survey	Quantity	Units
Line cutting	28.425	kilometres
Magnetic	22.625	kilometres
VLF-electromagnetic	22.625	kilometres
Geochemical	210	samples

SURVEY RESULTS

Magnetic Survey

The magnetic survey reveals numerous anomalies in the northern part of the survey area, believed to be underlain by mafic metavolcanics. In the detailed grid area, these magnetic anomalies are linear and obviously formational units. Most of the magnetic anomalies are less than 2500 nT in amplitude, with a single spike of 10,000 nT at 4400W/575N. The lack of flanking negative anomalies, and the relative consistency of the magnetic responses is suggestive of steeply dipping magnetite-bearing units rather than pyrrhotite.

VLF-EM Survey

Table III gives a summary of the VLF conductors outlined by the survey. In many cases, the lack of geological and topographic data means that a provisional interpretation cannot be made.

**TABLE III
INTERPRETATION OF VLF ANOMALIES**

Cond No.	Length (m)	Amplitude	Conductivity	Comments (magnetic correlation, geochem, etc.)	Possible explanation for the conductor
A	na	H	G	poor profile, elevated Au	?
B	na	H	G	direct mag, high Au to N	magnetite-sulphide zone
C	na	L	W		?
D	na	M	VG	direct mag	sulphide-magnetite zone
E	na	M	G	poor profile	?
F	na	L	W-M		?
G	na	M	W-M		?
H	na	L	W		?
I	na	M	G	poor profile	?
J	na	L	G		?
K	na	VL	?		overburden
L	na	L	VG?	wide	deep overburden
M	na	M	G	direct mag	sulphide-magnetite zone
N	na	L	W	very strong mag	iron formation
O	na	M-H	M		?
P	na	L	VG?		?
Q	na	L	VG?	wide	deep overburden
R	na	L	W	wide	overburden
S	na	L-M	G		?
T	na	M	G		sulphide zone
U	na	L	M		?
V	na	L	M	weak mag	?
W	na	M	VG		graphite or msv sulphide
X	na	M	VG		graphite or msv sulphide
Y	na	L	M		?
Z	na	H	G	flanks mag	mag/sulphide zone
AA	na	H	M-G	wide, associated with mag	sulphide zones?
AB	na	H	M-G	wide	overburden
AC	na	L	G		?
AD	na	M	M		?
AE	na	M	M-G		massive sulphide

TABLE III (continued)

Cond No.	Length (m)	Amplitude	Conductivity	Comments (magnetic correlation, geochem, etc.)	Possible explanation for the conductor
1	>200	M	G		?
2	>100	H	G-VG	direct mag, anomalous Au	mineralized zone
3	>500	H-VH	G-VG	direct mag	magnetite-sulphide zone
4	>200	M-H	M-G	flanks mag	Sulphides
5	>300	L	W-M	mag on L500W only	?
6	>200	M-H	M-G	strike not conformable	mineralized fault
7	>100	L-H	W		overburden
8	short	L	W		?
9	short	H	M		overburden?
10	short	L	G		?
11	200	L-M	M	flanks mag	sulphides
12	200±	L-M	M		?
13	100	L-M	M	between mags	sulphides?
14	100	L-M	W	high Au in soil, old trenches	mineralized zone
15	short	M	G	mag low	?
16	short	M	M		?
17	>400	H	M	flanks mag, high Au to S	mineralized zone
18	100	L-H	M	direct mag	magnetite-sulphide zone
19	>400	H	VG	direct mag	magnetite-sulphide zone
20	100	L	W		?
21	>100	H	W-M		may be continuation of 7
22	>100	L-M	W-M		?
23	>300	L	M-G	direct mag, high Au	mineralized zone
24	>300	L-M	M		?
25	>300	L-M	M	flanks weak mag	?
26	100	L	W		?
27	>200	L-M	W-M	strike not conformable	mineralized fault? may be continuation of 6
28	>200	L-M	W		?

TABLE III (contd.)

Abbreviations:

Amplitude:	VL	Very low (<5% peak-to-peak in-phase)
	L	Low (generally 5-15%)
	M	Moderate (generally 15-30%)
	H	High (generally over 30%)
Conductivity:	VW	Very weak (sympathetic quadrature, quadrature/in-phase ratio generally > 0.8)
	W	Weak (sympathetic quadrature, quadrature/in-phase ratio generally 0.2 to 0.8)
	M	Moderate (weakly sympathetic to neutral quadrature)
	G	Good (neutral to reverse quadrature)
	VG	Very good (strongly reverse quadrature)

The VLF survey on the three widely spaced lines in the western part of the property outlined 31 separate conductive responses. The lines are too widely spaced to allow line-to-line correlation of these anomalies, and Table III lists them individually.

On the detailed grid, 28 conductors were outlined, and are summarized in Table III. Again, the lack of geological data means that provisional interpretation is not always possible.

Important anomalies from the perspective of gold exploration are: (1) **conductor 6/27** which has a strike direction of 105° as opposed to the normal strike of $080-085^\circ$. This divergence from the normal trend and the fact that it passes close to the Langdon shaft and associated gold mineralization suggests that it might be related to a cross-cutting structure. (2) **conductors 17 and 23** which are associated with high gold values in soils. (3) **conductor 14** which is also associated with anomalous gold values in soils. Old trenches were noted in the immediate vicinity of this anomaly. (4) **conductor 2** which has an anomalous gold value just south of it.

Soil Geochemical Survey

Figure 3 is a logarithmic-probability plot of the gold contents of the 210 analysed samples (repeat analyses were averaged). It clearly shows a single lognormally distributed population. In the absence of a second population, the anomalous threshold is taken at the 97.5% level, or 8.5 ppb. Using this value, there are six anomalous samples forming five anomalies:

- (1) At 4400W/1075S is a single sample with 9.5 ppb Au. No other information is available about this location.
- (2) There is a group of anomalous and sub-anomalous samples in the northeastern part of the detailed grid: 200E/800N (11 ppb); 100E/630N (10 ppb); 200E/675N (7 ppb); and 200E/600N (8 ppb). This area has been referred to above with reference to VLF conductors 17 and 23.
- (3) At 300W/290N is a single anomalous sample with 9.5 ppb. This sample has been described above under VLF conductor 14 and the associated old trenches.

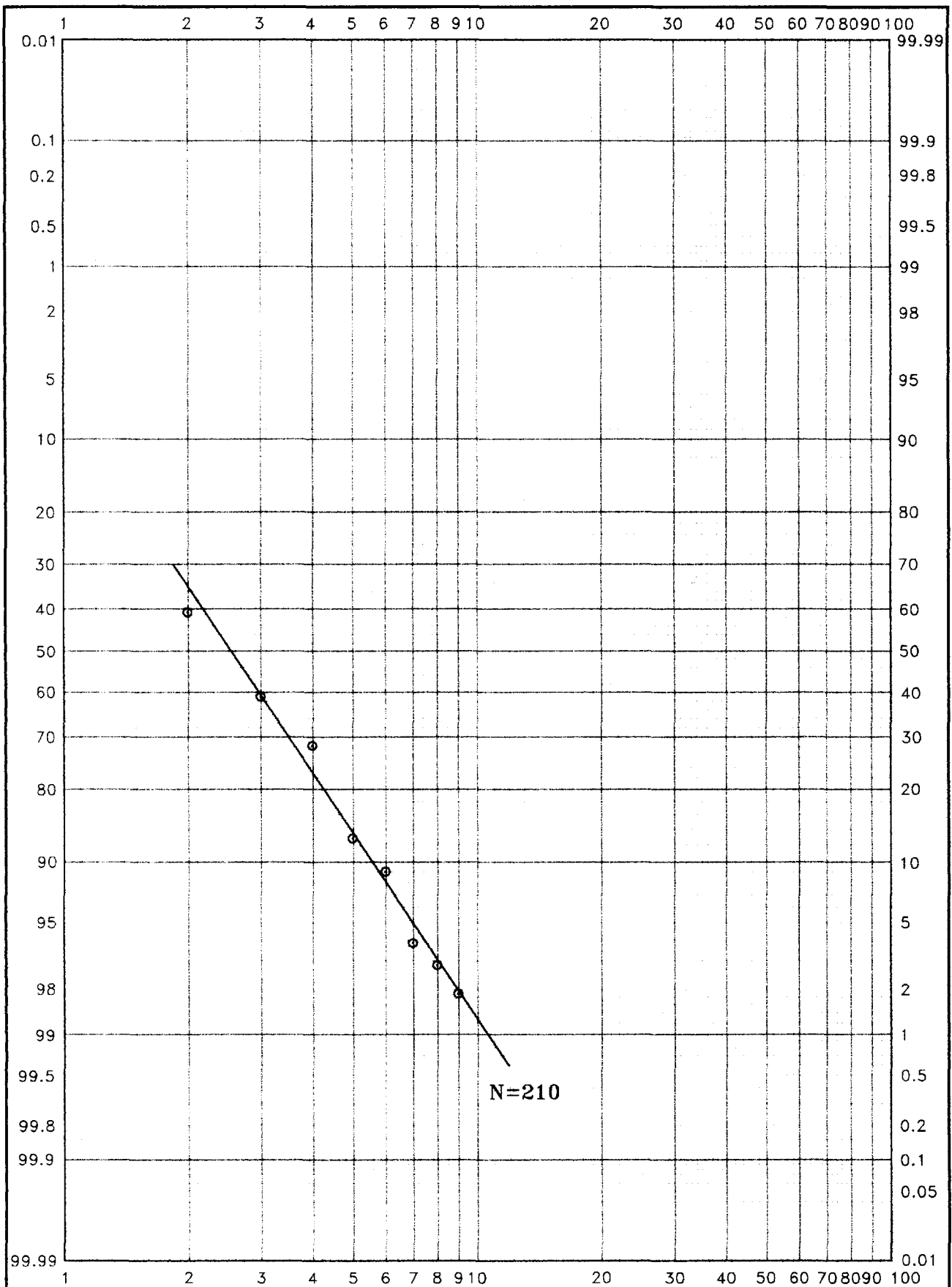


Figure 3: Log-probability plot of gold (in ppb) in soils
Langdon gold project, 2000 survey

- (4) At 700W/340S is a single anomalous sample with 9 ppb. No other information is available about this site.
- (5) At 800W/700N is another single-point anomaly with 9 ppb Au. It is just down-ice of VLF conductor 2 and is more or less on strike with the group of gold anomalies on lines 100E and 200E.

CONCLUSIONS AND RECOMMENDATIONS

The survey data in the detail grid indicate several targets that suggest the continuation of gold mineralization from the Shenango trend on adjoining claims to the east. In addition, there is the possibility of other parallel mineralized trends to the north. The first of these is VLF conductor 14 and the associated old trenches and soil gold anomalies; the second is VLF conductors 17, 23 and 2, and the associated soil gold anomalies. Also, the VLF data (conductors 6 and 27) suggest the presence of a low-angle cross-structure that may be associated with gold mineralization at the Langdon prospect.

It is recommended that the area of the detailed grid should be further explored by (a) geological mapping and prospecting and (b) power stripping and washing of selected targets. Depending on the results of this initial program, it may become desirable to extend the detailed grid over the western part of the property. The initial geophysical results on the three widely spaced lines in this area indicate that the same lithologies and structures present in the detailed grid area are likely to extend over the whole width of the property.

Following is a recommended budget for the first phase of exploration on the detailed grid area:

Geological mapping:

Geologist, 10 days @ \$450	4,500
Prospector, 10 days @ \$200	2,000
Food & accommodation, 20 man days @ \$60	1,200
Transport, 3000 km @ \$0.35	1,050

Power Stripping:

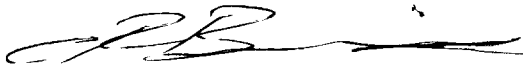
Backhoe mobilization & demob	2,000
Backhoe, 120 hours @ \$85	10,200
Prospector, 20 days @ \$175	3,500
Geologist, 20 days @ \$450	9,000
Washing technician, 20 days @ \$150	3,000
Pump & saw rental	1,800
Consumables	1,200
Food & accommodation 80 man days @ \$60	4,800
Assays, 100 @ \$14	1,400
Report, drafting	<u>5,000</u>

TOTAL 50,650

Contingencies 5,065

GRAND TOTAL \$ 55,715

Respectfully submitted,



C. R. Bowdidge, Ph.D.

May 2001

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APPENDIX 1

ANALYTICAL CERTIFICATES



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

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Geochemical Analysis Certificate

0W-0771-SG1

Company: **TLC RESOURCES INC**

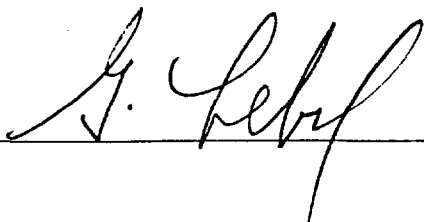
Date: MAR-21-00

Project:

Attn: **C. Bowdidge**

We hereby certify the following Geochemical Analysis of 66 Soil samples submitted MAR-13-00 by .

Sample Number	Au PPB	Au Check PPB
L300W 805N	1	-
L300W 870N	2	-
L300W 900N	2	-
L800W 927N	2	-
L300W 950N	4	-
L300W 975N	1	-
L300W 1000N	1	1
L400W 942N	1	-
L400W 925N	2	-
L400W 887N Not Recd	-	-
L400W 875N	1	-
L400W 850N	2	-
L400W 825N	2	-
L400W 800N	4	-
L400W 775N	<1	1
L400W 675N	<1	-
L400W 485N	2	-
L400W 475N	4	-
L400W 450N	<1	-
L400W 425N	4	-
L200W 850N	4	-
L200W 300N	1	-
L200W 200N	4	-
BL 185W	1	-
175W 100S	4	-
175W 225S	9	4
200W 400S	1	-
180W 500S	2	-
L100W 832N	4	-
L100W 475N	2	-

Certified by 



Established 1928

Swastika Laboratories Ltd

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Page 2 of 3

Geochemical Analysis Certificate

0W-0771-SG1

Company: **TLC RESOURCES INC**

Date: MAR-21-00

Project:

Attn: C. Bowdidge

We hereby certify the following Geochemical Analysis of 66 Soil samples submitted MAR-13-00 by .

Sample Number	Au PPB	Au Check PPB
L100W 400N	1	-
L100W 50N	2	-
L100W 50S	4	-
L100W 150S	2	-
L100W 250S	4	-
L100W 475S	2	-
L100W 350S	2	-
L500W 800N	4	2
L500W 775N	2	-
L500W 725N	2	-
L500W 675N	4	-
L500W 650N	4	-
L500W 625N	1	-
L500W 600N	1	-
L500W 450N	4	-
L500W 425N	6	-
L500W 375N	1	-
L500W 325N	2	-
L500W 300N	8	2
L500W 225N	1	-
L500W 200N	2	-
L500W 175N	2	-
L500W 150N	6	-
L500W 125N	2	-
L500W 100N	1	-
L500W 065N	3	8
L500W 025N	2	-
L500W BL00 5+05W	4	-
L300W 175N	2	-
L300W 200N	1	-

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Page 3 of 3

Geochemical Analysis Certificate

0W-0771-SG1

Company: **TLC RESOURCES INC**

Date: MAR-21-00

Project:

Attn: **C. Bowdidge**

We hereby certify the following Geochemical Analysis of 66 Soil samples submitted MAR-13-00 by .

Sample Number	Au PPB	Au Check PPB
L300W 250N	2	-
L300W 267N	3	6
L300W 325N	2	-
L300W 350N	4	-
L300W 375N	6	-
L300W 400N	4	-
L400W 885N	2	-

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Geochemical Analysis Certificate

0W-0951-SG1

Company: **TLC RESOURCES INC**

Date: APR-03-00

Project:

Attn: **C. Bowdidge**

We hereby certify the following Geochemical Analysis of 53 Soil samples submitted MAR-22-00 by .

Sample Number	Au PPB	Au Check PPB
L100E 470N	3	-
L100E 630N	10	-
L100E 775N	2	3
L100E 850N	5	-
L100E 250N	3	-
L100E 050N	2	5
L100E 065S	2	-
L100E 1+75S	5	-
L100E 2+55S	3	-
L200E 230S Not Recd	-	-
L200E 225S	3	-
L200E 112S	2	-
L200E 040S	Nil	-
L200E 057N	Nil	-
L200E 175N	3	-
L200E 475N	2	-
L200E 400N	2	-
L200E 600N	7	9
L200E 900N	3	-
L200E 680N	7	-
L200E 800N	14	7
L200E 975N	3	-
L500W 032S	2	-
L500W 070N	2	-
L500W 150N	2	2
L500W 235N	Nil	-
L600W 410S	2	-
L600W 287S	2	-
L600W 375N	Nil	-
L400W 355N	Nil	-

Certified by



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Page 2 of 2

Geochemical Analysis Certificate

0W-0951-SG1

Company: **TLC RESOURCES INC**


Date: APR-03-00

Project:

Attn: C. Bowdidge

We hereby certify the following Geochemical Analysis of 53 Soil samples submitted MAR-22-00 by .

Sample Number	Au PPB	Au Check PPB
L400W 100N	2	-
L400W 040S	5	7
L700W 165N	2	-
L700W 075N	2	-
L700W 030S	5	-
L700W 125S	2	-
L700W 225S	3	-
L700W 342S	9	-
L700W 400N	2	-
L800W 500S	9	5
L800W 400S	2	-
L800W 270S	7	-
L800W 115S	5	-
L800W 100N	2	-
L800W 250N	3	-
L800W 350N	2	-
L800W 600N	5	-
L800W 700N	9	-
L0+00 840N	3	-
L0+00 300N	3	7
L0+00 050N	5	-
L0+00 0+55S	3	-
L0+00 150S	3	-
L0+00 250S	3	-

Certified by 



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Geochemical Analysis Certificate

0W-1197-RG1

Company: **TLC RESOURCES INC**

Date: APR-19-00

Project:

Attn: C. Bowdidge

We hereby certify the following Geochemical Analysis of 28 Soil samples submitted APR-13-00 by .

Sample Number	Au PPB	Au Check PPB
L3+00W 2+90N	10	9
L36+00W 1+00North	2	-
L36+00W 2+00N	7	-
L36+00W 3+00N	5	-
L36+00W 4+00N	5	-
L36+00W 4+25N	2	-
L36+00W 5+25N	3	-
L36+00W 6+00N	3	-
L36+00W 6+40N	2	-
L42+00W 7+00S	2	-
L42+00W 8+00S	Nil	-
L43+00W 7+00S	7	-
L43+00W 8+50S	7	7
L44+00W 0+75South	2	-
L44+00W 2+25South	3	-
L44+00W 3+00S	5	-
L44+00W 3+50S	2	-
L44+00W B40+00	3	-
L44+00W 4+65S	2	-
L44+00W 6+25S	3	-
L44+00W 6+60S	5	7
L44+00W 7+00S	3	-
L44+00W 8+00S	5	-
L44+00W 9+00S	Nil	-
L44+00W 10+00S	5	-
L44+00W 10+80S	10	9
L44+00W 16+25S	3	-
L44+50W 3+50SS	3	-

Certified by Denis Chantre



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 2

Geochemical Analysis Certificate

0W-1198-RG1

Company: **TLC RESOURCES INC**

Date: APR-19-00

Project:

Attn: **C. Bowdidge**

We hereby certify the following Geochemical Analysis of 35 Soil samples submitted APR-13-00 by .

Sample Number	Au PPB	Au Check PPB
L0+80E 0+25S	3	-
L1+00E 1+40S	2	-
L1+00E 1+60S	3	-
L1+75E 0+40S	5	-
L2+00E 0+40S	3	-
L52+00W 0+00 Red	Nil	-
L52+00W 0+50 North	9	5
L52+00W 1+00 South	3	-
L52+00W 1+25 North	5	-
L52+00W 2+00 South	3	-
L52+00W 2+60 South	2	-
L52+00W 3+15 North	Nil	-
L52+00W 3+25 South	2	-
L52+00W 4+00N	5	5
L52+00W 4+75N	3	-
L52+00W 5+00 South	5	-
L52+00W 5+75 North	2	-
L52+00W 6+00 South	Nil	-
L52+00W 7+00 N	9	7
L52+00W 7+00 S	Nil	-
L52+00W 7+00S Brown	Nil	-
L52+00W 7+75 N	2	-
L52+00W 8+00 S	3	-
L52+00W 8+50 N	3	-
L52+00W 9+00 S	Nil	-
L52+00W 10+00 N	7	5
L52+00W 10+00 S	3	-
L52+00W 11+00 S	5	-
L52+00W 12+00 S	2	-
L52+00W 13+15 S	5	-

Certified by Denis Chantre



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Certificate

0W-1198-RG1

Company: **TLC RESOURCES INC**

Date: APR-19-00

Project:

Attn: **C. Bowdidge**

We hereby certify the following Geochemical Analysis of 35 Soil samples submitted APR-13-00 by .

Sample Number	Au PPB	Au Check PPB
L52+00W 14+00 N	2	-
L52+00W 14+00 S	3	-
L52+00W 15+00 S	Nil	-
L52+00W 16+00 S	5	-
L52+00W 16+50 S	7	5

Certified by Denis Chantre



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 2

Geochemical Analysis Certificate

0W-1199-RG1

Company: **TLC RESOURCES INC**

Date: APR-24-00

Project:

Attn: C. Bowdidge

We hereby certify the following Geochemical Analysis of 35 Soil samples submitted APR-13-00 by .

Sample Number	Au PPB	Au Check PPB
B/L 36+00W 0+00	3	-
L 36+00W 1+00 S	3	-
L 36+00W 2+35 South	5	-
L 36+00W 3+00 South	5	3
L 36+00W 4+00 South	2	-
L 36+00W 5+00 South	5	-
L 36+00W 6+00 South	3	-
L 36+00W 7+00 South	5	-
L 36+00W 8+00 South	7	-
L 36+00W 9+00 South	3	5
L 36+00W 10+00 S	3	-
L36+00W 10+50 S	7	5
B/L 38+00W	5	-
B/L 39+00W 0+00	5	-
B/L 40+00W 0+00	2	-
B/L 41+00W 0+00	5	-
L 41+00W 0+65 South	3	-
L 41+00W 1+00 North	3	-
B/L 42+00W 0+00	5	-
B/L 43+00W 0+00	3	-
L43+00W 8+00S	3	-
B/L 44+00W 0+00	5	5
L 44+00W 2+25N	3	-
L 44+00W 3+00N	5	-
L 44+00W 7+00N	5	-
L 44+00W 8+00N	3	-
L 44+00W 8+75N	5	-
L 44+00W 9+50N	3	-
L 44+00W 10+50N	5	-
L 44+00W 11+00S	3	-

Certified by 



Established 1928

Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Certificate

0W-1199-RG1

Company: **TLC RESOURCES INC**

Date: APR-24-00

Project:

Attn: **C. Bowdidge**

We hereby certify the following Geochemical Analysis of 35 Soil samples submitted APR-13-00 by .

Sample Number	Au PPB	Au Check PPB
L44+00 W 12+00 N	3	-
L44+00 W 13+00 N	3	-
L44+00 W 14+00 N	5	-
L44+00 W 17+15 S	5	-
L44+00 W 18+00 S	7	7

Certified by _____

Date: 2001-OCT-16

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

FRANKLIN ALFRED HOUGHTON
BOX 164
BEARDMORE, ONTARIO
P0T 1G0 CANADA

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

Submission Number: 2.21550
Transaction Number(s): W0150.30257

Dear Sir or Madam

Subject: Approval of Assessment Work

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

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.

The 45 days outlined in the Notice dated August 30, 2001 have passed. Assessment work credit has been approved as outlined on the attached Work Report Summary. The assessment credit is being reduced by \$13,480.00. The TOTAL VALUE of assessment credit that will be allowed, based on the information provided in this submission, is \$18,933.00.

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
Supervisor, Geoscience Assessment Office

Cc: Resident Geologist

Franklin Alfred Houghton
(Claim Holder)

Assessment File Library

Franklin Alfred Houghton
(Assessment Office)

Date / Time of Issue Jul 31 2001 11:37h Eastern

TOWNSHIP / AREA PLAN
HAWKINS G-2316

ADMINISTRATIVE DISTRICTS / DIVISIONS
Mining Division Sault Ste. Marie
Land Titles/Registry Division ALGOMA
Ministry of Natural Resources District WAWA

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Private Park
- Open Reserve
- CRP, PA and Pile
- Contour
- Common - Approp. Authority/Description
- Shed
- Mine Headframe
- Manure
- Pond
- Tail
- Medical Gas Pipeline
- Hydro Line
- Communication Line
- Wooded Area
- Manure - Commercial, Industrial, Home, Crystal

LAND TENURE

Freehold Plans

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Plans

- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation

- License of Occupancy
- Surface and Mining Rights
- Surface Rights Only
- Mining Rights Only

LAND TENURE WITHDRAWALS

- Area Withdrawn From Disposition
- Mining Act Withdrawal by OMC
- Surface Rights Only Withdrawal
- Mining Rights Only Withdrawal
- Order In Council Withdrawal Types
- Surface Rights Only Withdrawal
- Mining Rights Only Withdrawal

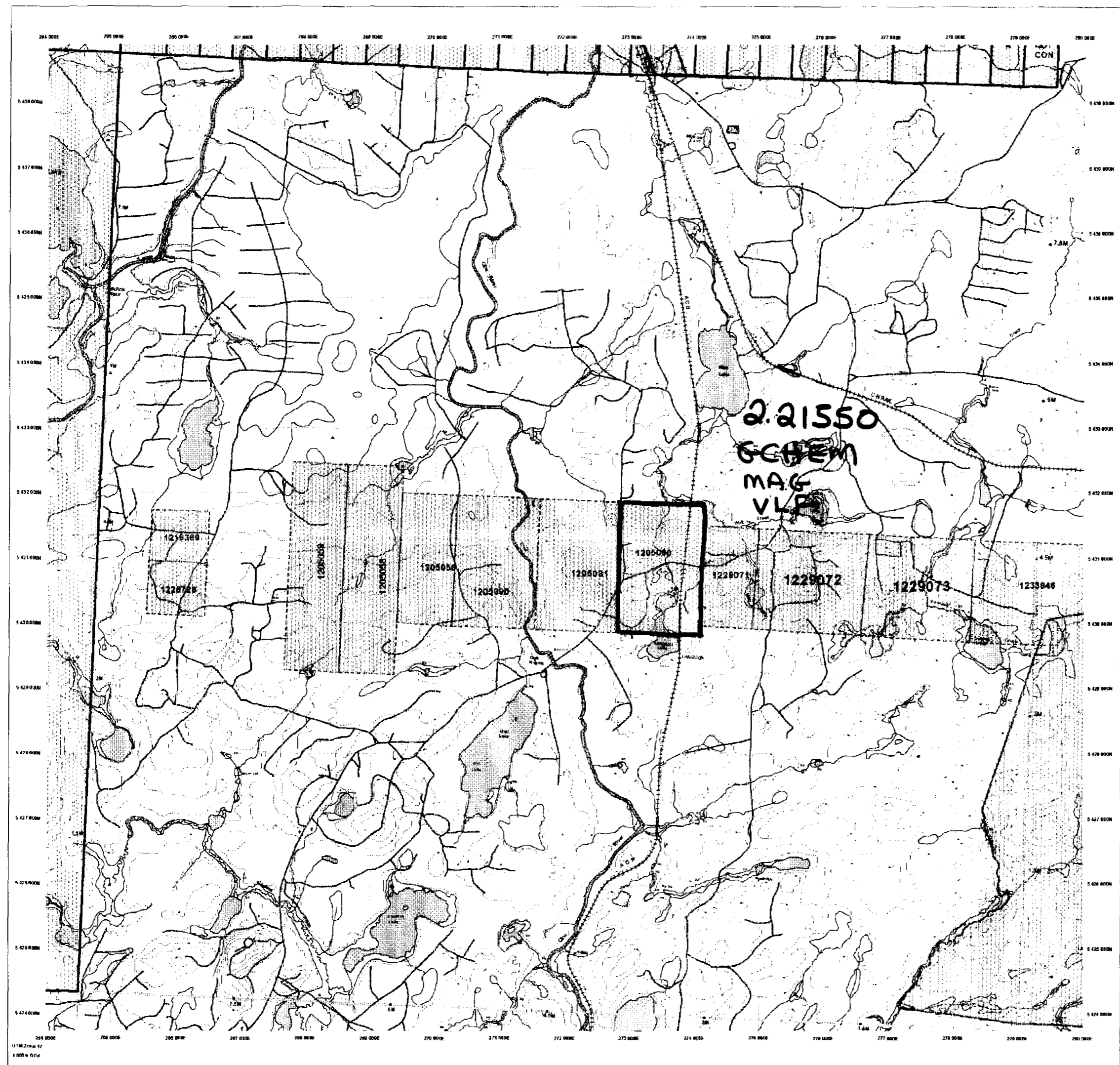
IMPORTANT NOTICES



LAND TENURE WITHDRAWAL DESCRIPTIONS

Mineral	Type	Date	Description
2474	WMA	Jul 1 2001	43-419-02-64880 VOL 1
WALL 11532	WMA	Mar 16 1988	SEC. 35 WALL - P 153689 ONT. MAY 16 1988

IMPORTANT NOTICES
Areas under which special regulations, conditions or conditions under which affect normal development, mining and mineral development activities.



42C1GNE2005 2.21550 HAWKINS
 200
 117M Zone 17
 1:80000 Grid

These notices to establish mining claims should consult with the Provincial Mining Registrar, Office of the Ministry of Northern Development and Mines for additional information on the nature of a notice shown herein. This map is not intended for navigation, survey, or legal title and should be used only for reference purposes. No disclaimer shown on this map is complete. For more details, contact the Provincial Mining Registrar, Office of the Ministry of Northern Development and Mines for more information. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

General Information and Limitations

Contact Information:
 Province of Ontario, Ministry of Northern Development and Mines
 223 University Avenue, 10th Floor
 Toronto, Ontario M5G 1S2
 Tel: 416-325-1500
 Fax: 416-325-1544
 Home Page: www.gov.on.ca/nrd/nrdm/nrdm.htm

Map Datum: NAD 83
 Projection: UTM (Zone 18N)
 Spheroid: Clarke 1866
 Mining and Lands Sector, Provincial Mining Registrar's Office

This map may not show unregistered land tenure and interests in land including oil and gas rights, easements, rights of way, flooding rights, riparian rights, or other forms of disposition of rights and interests from the Crown. Also certain land tenure and land uses that are not shown on this map may not be shown on this map.



MINISTRY OF
NORTHERN DEVELOPMENT
AND MINES
PROVINCIAL MINING
RECORDER'S OFFICE

**MINING LAND TENURE
MAP**

Date / Time of Issue Jul 31 2001 11:37h Eastern
TOWNSHIP / AREA PLAN
HAWKINS G-2316

ADMINISTRATIVE DISTRICTS / DIVISIONS
Mining Division Sault Ste. Marie
Land Titles/Registry Division ALGOMA
Ministry of Natural Resources District WAWA

TOPOGRAPHIC

- Administrative Boundaries
- Topography
- Concession Lot
- Provisional Park
- Indian Reserves
- City, P.E. and P.S.
- Contour
- Control - Approval/Author/Approver
- Thick
- Mine Footprints
- Railways
- Road
- Tier
- Metropolitan Police
- Hydro Line
- Communication Line
- Processed Area
- Metropolitan/Castell Historical Park/Conserv.

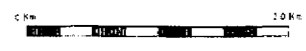
LAND TENURE

- 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**
 - Local Section
 - Surface And Mining Rights
 - Surface Rights Only
 - Mining Rights Only
- Land Use Permit**
- Open to Crown**
- Water Power Lease Agreement**
- Mining Claim**

LAND TENURE WITHDRAWALS

- 1254** Areas Withdrawn from Disposition
Mining Act Withdrawal Types
- Wm Surface and Mining Rights Withdrawal
- Wm Surface Rights Only Withdrawal
- Wm Mining Rights Only Withdrawal
- Order to Cancel White and Types
- Wm Surface and Mining Rights Withdrawal
- Wm Surface Rights Only Withdrawal
- Wm Mining Rights Only Withdrawal

IMPORTANT NOTICES

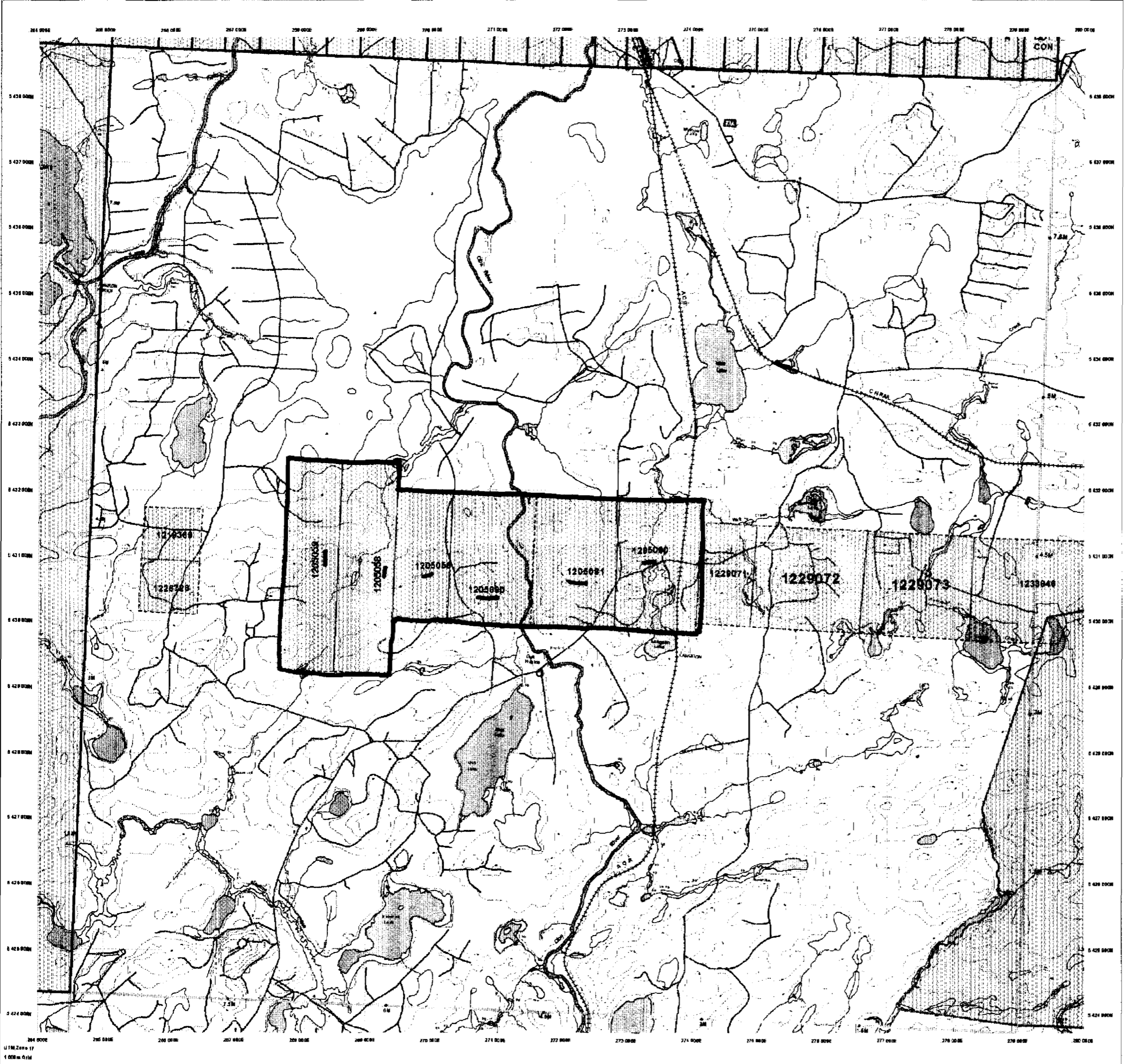


LAND TENURE WITHDRAWAL DESCRIPTIONS

Module	Type	Date	Description
2471	Wm	Jul 1 2001	43 1/2/02 8439 VOL 2
WALL P/02	Wm	May 14 1989	SEC. 35 WALL P/152809 ONT MAY 1989 SWS

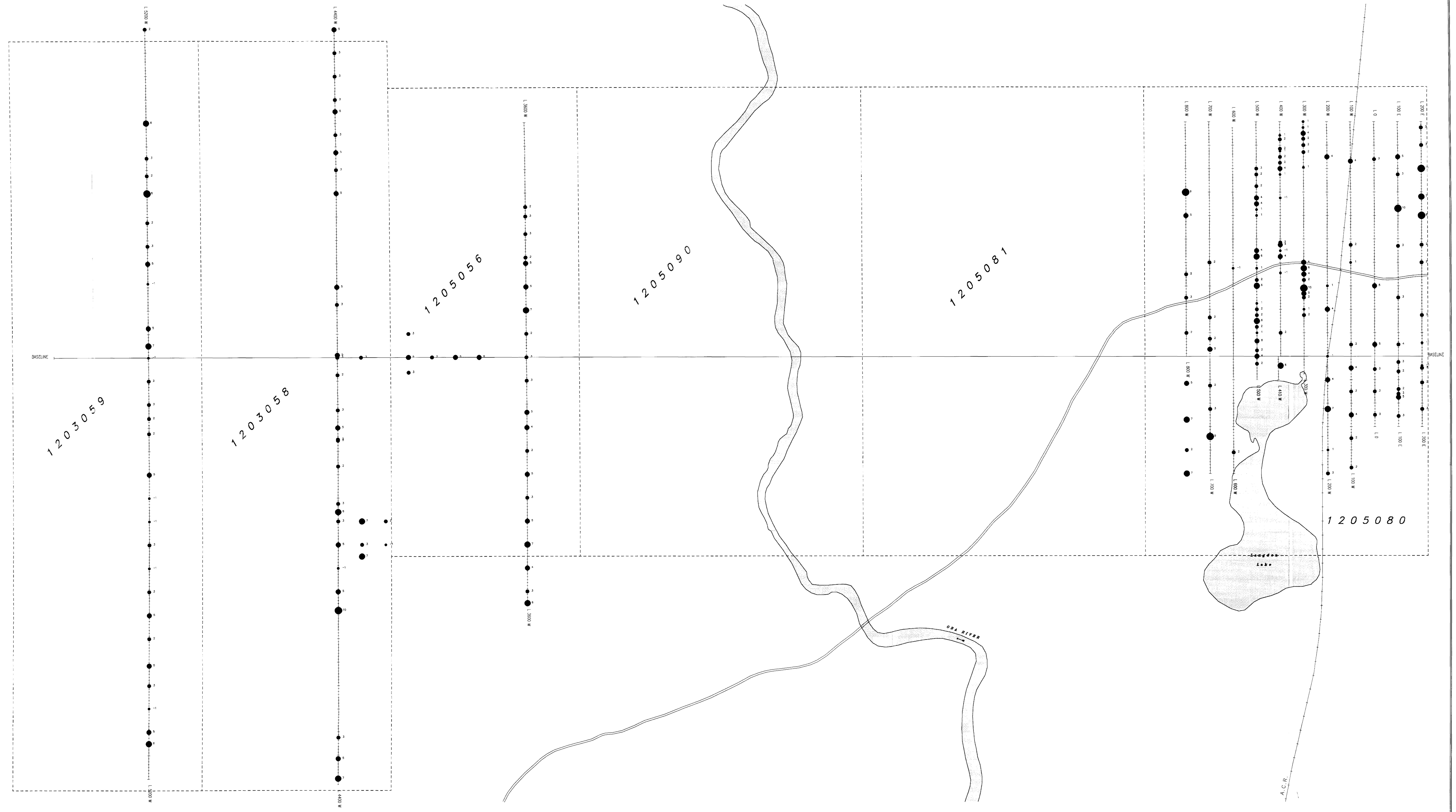
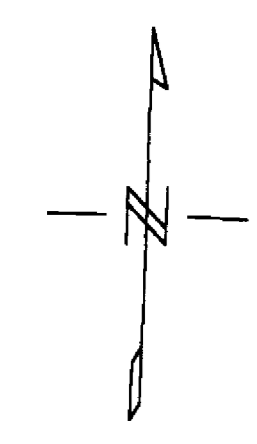
IMPORTANT NOTICES

Areas under which special regulations, and plans or conditions may be of effect mineral prospecting, staking and general development activities.



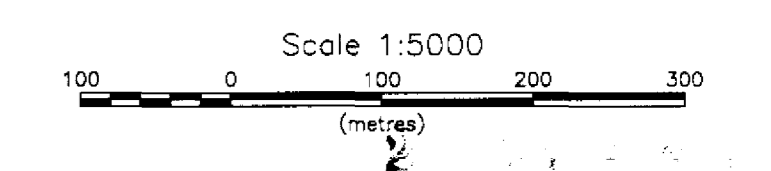
42C16N2005 2.21550 HAWKINS 210

General Information and Limitations
 This map is a public document and its contents are not to be used for any purpose other than that for which it was prepared. The Ministry of Northern Development and Mines is not responsible for any errors or omissions in this map. The user of this map is advised to verify the information contained herein with the appropriate authorities. The Ministry of Northern Development and Mines is not responsible for any damage or loss resulting from the use of this map. The Ministry of Northern Development and Mines is not responsible for any damage or loss resulting from the use of this map. The Ministry of Northern Development and Mines is not responsible for any damage or loss resulting from the use of this map.

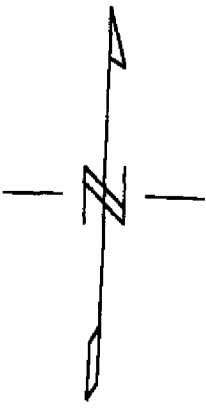


.....
 L E G E N D

 Postings: Au (ppb) in 18" horizon soil
 Note: - means < 1 ppb
 SYMBOLS:
 • < 2 ppb
 • 2-4 ppb
 • 4-6 ppb
 • 6-8 ppb
 • > 8 ppb



TLC RESOURCES INC.
 LANGDON GOLD PROPERTY
 HAWKINS TOWNSHIP
 NORTHERN ONTARIO
 SOIL GEOCHEMICAL SURVEY
 GOLD IN B HORIZON
 POSTINGS AND SYMBOLS
 Bowdidge PLATE 5 2001

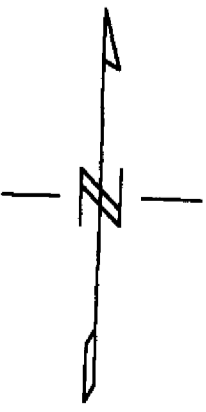


 L E G E N D
 Instrument: EDA Omni Plus
 Operator: D. Dimitrova
 Transmitter: NAA 24.0 KHz
 In-Phase: Solid line
 Quadrature: Dotted line
 Positive Direction: left
 Facing Direction: North

○ Individual conductive response
 - - - - - Conductor call

Scale 1:5000
(metres)

TLC RESOURCES INC.
 LANGDON GOLD PROPERTY
 HAWKINS TOWNSHIP
 NORTHERN ONTARIO
 VLF ELECTROMAGNETIC SURVEY
 IN-PHASE AND QUADRATURE PROFILES
 Bowdidge PLATE 4 2001



BASELINE

1203059

1203058

1205056

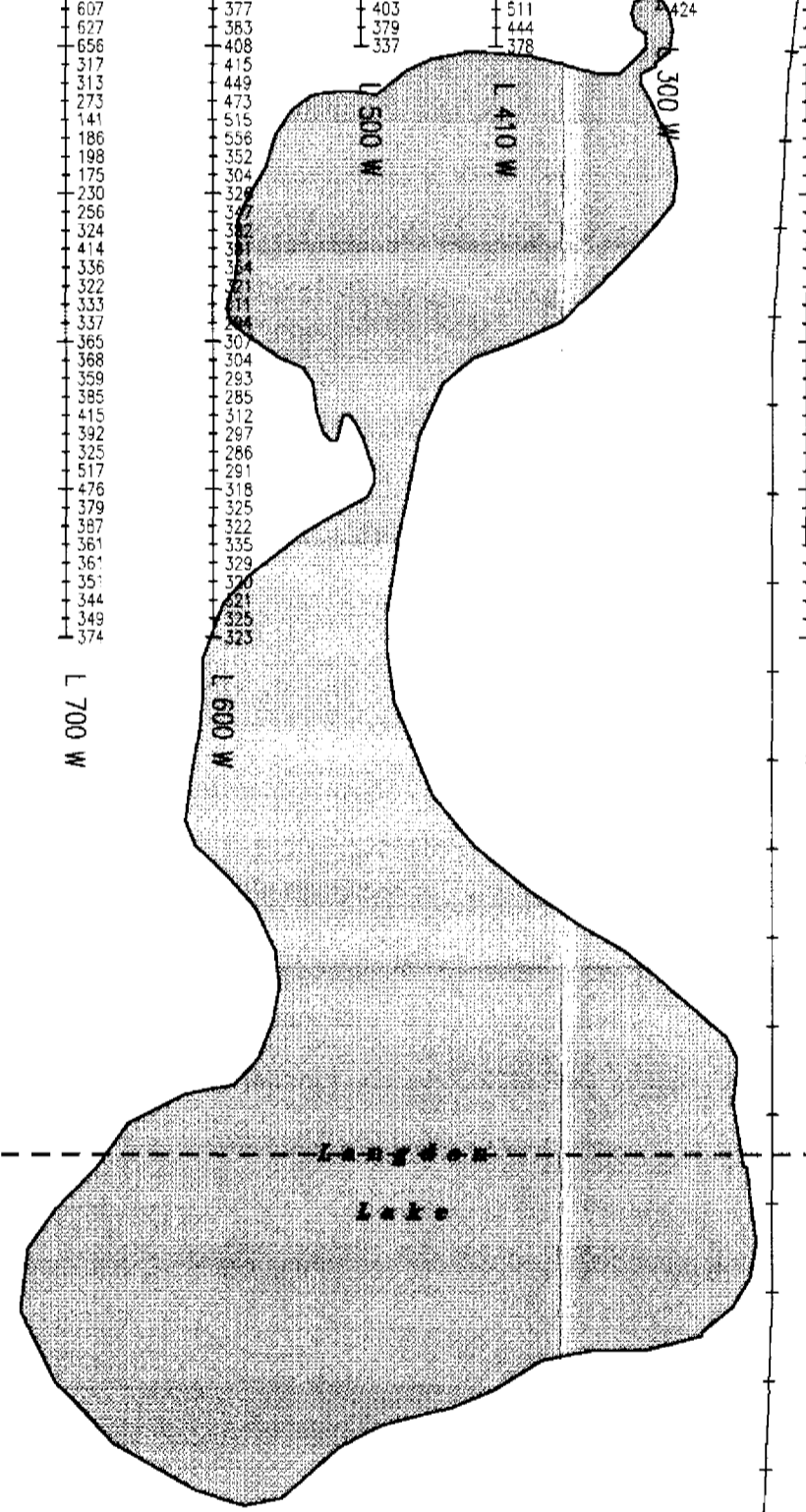
1205090

1205081

1205080



OSA RIVER



Langdon Lake

A.C.R.

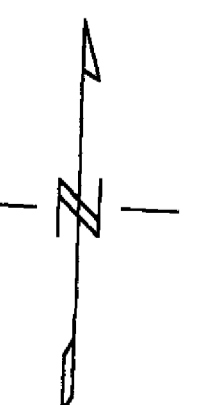
LEGEND

 Instrument: EDA Omni Plus
 Operator: D. Dimitrov
 Parameter: Total Field in nT
 Posting Date: 07/06/01
 Diurnal Correction: Base Station

Scale 1:5000

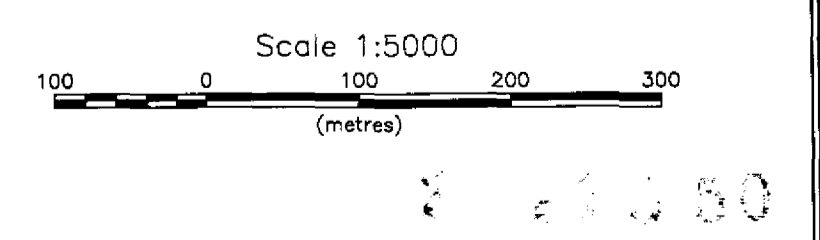


TLC RESOURCES INC.
 LANGDON GOLD PROPERTY
 LAWING TOWNSHIP
 NORTHERN ONTARIO
 MAGNETOMETER SURVEY
 TOTAL FIELD POSTINGS
 Bowdidge 2001
 PLATE 1



 L E G E N D

 Instrument: EDA Omni Plus
 Operator: D. Dimitrova
 Parameter: Total Field in nT
 Profile Scale: 1cm = 1000 nT
 Profile Base: 57500 nT
 Diurnal Correction: Same Station



TLC RESOURCES INC.
LANGDON GOLD PROPERTY
NORTHERN ONTARIO
MAGNETOMETER SURVEY
TOTAL FIELD PROFILES
Bowdidge
PLATE 2
2001