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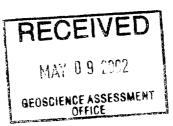
NTS 31 M/4

# **GROUND GEOPHYSICAL SURVEYS Magnetometer and VLF-EM**

Milestone Project- Teck Claims

TEMEX RESOURCES CORP. April 18, 2002

April 18, 2002.



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### 1.0 **SUMMARY:**

From April 5, to April 12, 2002, a program of grid establishment and geophysical surveying was carried out on the Teck claims held by Temex Resources Corp., of Unit 100 - 4307 Kerry Drive, Burlington, Ontario L7L 1V8. The objective of the work was to test areas of interest using magnetic and electromagnetic methods with the goal of identifying drill targets.

The grid preparation and geophysical surveying was done by David Laronde, Real Gauthier and Stephane Coulombe all of Meegwich Consultants Inc. P.O. Box 482, Temagami, Ontario POH 2HO. David Laronde was the field supervisor and reported on the work. A total of 17.739 km of line was flagged and surveyed. Note: Lines were flagged and chained only. There was no cutting of trees as per skyline regulations. Pickets were removed from the lake also.

### 2.0 PROPERTY:

The Teck Claims consist of 5 contiguous claims (88 hectares) numbered as follows:

T 47000 T 46929 T46998 T47113 T47114

### 3.0 LOCATION AND ACCESS:

The property is situated some three kilometers southwest of the town of Temagami and accessed by a gravel road or the Strathcona Access Road which runs along the north boundary of claims. The claims are two kilometers from Hwy 11.

Sudbury Mining Division

NTS: 31 M/4

### **4.0 MAGNETOMETER SURVEY:**

17.739 km of line was surveyed for a total of 1400 readings taken at 12.5 meter intervals. Quality control was monitored by surveying the baseline and then comparing the readings at the same station when the cross lines were surveyed. This cross referencing technique confirms good data and checked out well on this survey.

- 4.1 Instrumentation: A Gem Systems GSM-19 overhauser magnetometer serial no. 58479 was used for the survey in mobile mode. These units have an accuracy of +/- 1/100th of a gamma. Readings were taken at 12.5 meter intervals. An EDA Omni IV base station was used to monitor and correct for the diurnal variation during the course of the survey. This instrument reads to 1/10<sup>th</sup> of a gamma resolution. The base station cycled at 20 second intervals.
- 4.2 Survey Results: The results are presented in contour format on plans at 1:2500 scale.

The northwestern portion of the surveyed area, which is underlain primarily by water, shows as a partially covered massive magnetic high. The intensity is 100 to 200 nT over a background of 57,100 nT. From this feature there is a gradual decrease in intensity from north to south with near background values along the southern limits. Toward the middle of the survey on claim 47113 and 47114 a somewhat circular feature is found between 950 and 1150 E and bewteen 1550 N and 1750 N. A series of highs take off to the northeast from here. Flanking these highs is a magnetic low area that is 0 to 100 nT below background.

A few isolated magnetic highs trend across the centre of the grid in an east-west direction. Most of these are small being confined to one or two stations.

#### 5.0 VLF-EM SURVEY:

17.739 km of line was surveyed for a total of 700 readings read at 25 meters intervals with the operator facing north at each station.

5.1 Instrumentation: A Geonics EM-16 VLF receiver was used for the VLF surveys to record in-phase and quadrature components of 1 VLF transmitting station: Cutler, Maine NAA transmitting at 24.0 kHz. The measured quantities are the in-phase and quadrature components of the vertical magnetic field measured as a percentage of horizontal primary field (read to a resolution of +/- 1%).

5.2 Survey Results: The results of the survey are presented in profile form on plans at 1:2500 scale.

The survey picked up a conductive horizon trending north-easterly across the central portion of the surveyed area. The west part of this horizon, conductor B, is coincident with a topographic low which forms a long narrow bay while the east part (conductor A) is on land with the same trend only with magnetic association. Other than this response there is a weak response found on L 100 and 200 E at 1600 N.

### 6.0 CONCLUSIONS AND RECOMMENDATIONS:

The somewhat circular feature located at the northeast corner of claim 47114 and the series of isolated highs to the east seem to be indicating the metadiorite as mapped by L. Shaff (1966). There is a sharp contrast in magnetic values coincident with the contact between the metadiorite and the rhyolite. Having said that, this contact marks the location of the chloritic horizon bearing the sulphide mineralization, which is prospective for copper and nickel.

The conductive horizon on land, conductor A (L 850 to 1150) has magnetic association for a distance of 300 meters. It also occurs along the north contact of the metadiorite and the rhyolite. Conductor B also seems to have some magnetic association on L 650 and 750 N.

#### Further work:

- 1. Additional exploration work should be considered to follow-up the source of firstly conductor A and secondly B for sulphide mineralization.
- 2. The east extension of the metadiorite and rhyolite contact can be examined further to follow the sulphide bearing chlorite horizon.

Geological mapping and prospecting is recommended in conjunction with geophysical surveying with detailed I.P. or a more advanced EM system. In addition 50 meter line coverage of the magnetic and VLF-EM surveys is recommended to identify these targets between lines prior to geological work.

### References

Bennett, G 1978 Geology of the Northeast Temagami Area, Ontario Geological Survey - Geologic Report 163

Shaff, Louis 1966 Geology of the O'Connor Property Report No. 504T

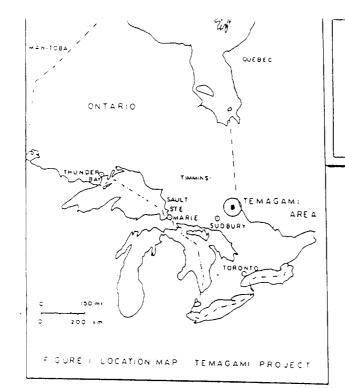
### CERTIFICATE OF AUTHOR

- I. David Laronde of the town of Temagami, Ontario hereby certify:
  - 1. That I am a geology technologist and have been engaged in mineral exploration for the past 22 years.
  - 2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.
  - 3. That my knowledge of the property described herein was acquired by field work and documentation.

Respectfully submitted,

David Laronde

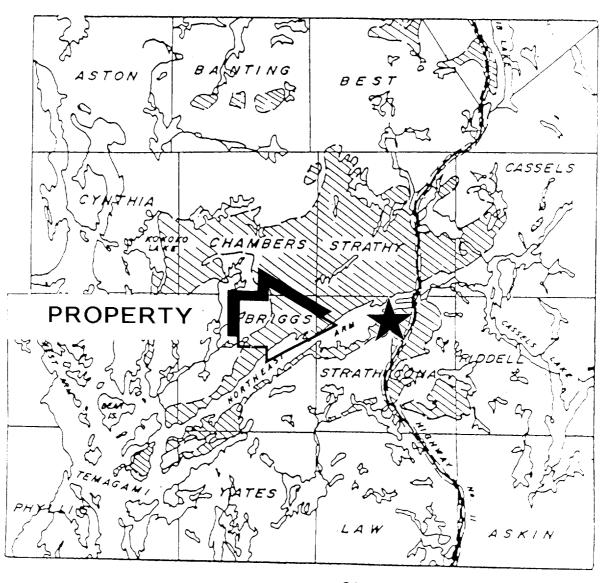
Dated at Temagami this 18th day of April 18, 2002.

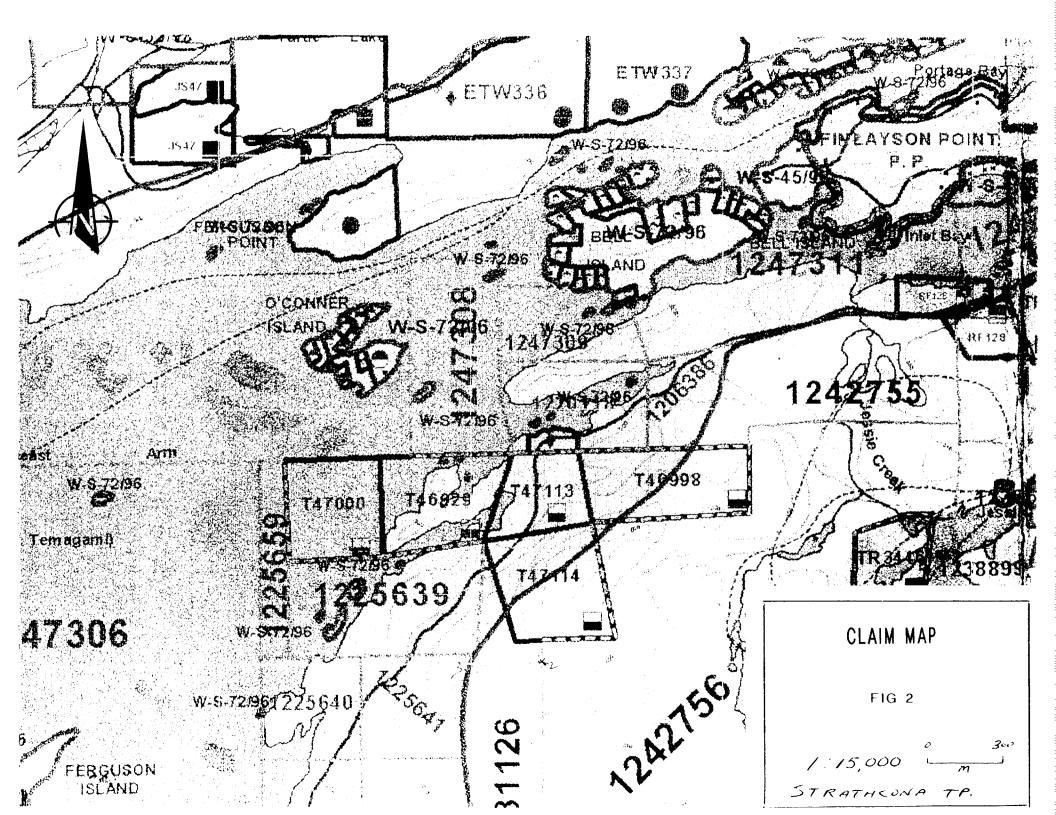


# **PROPERTY**

LOCATION MAP





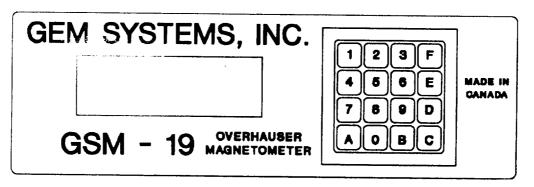


# APPENDIX I

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# GEM SYSTEMS GSM-19

# OVERHAUSER MEMORY MAGNETOMETER GRADIOMETER



#### **SPECIFICATIONS** Absolute Accuracy: Gradient Tolerance: **OPERATING MODES:** .Automatic storage of label, time and date, Manual: magnetic field, 3 sec. minimum interval. .3 to 60 sec. intervals standard, others optional time, date, magnetic field stored. .The same as manual but controlled through Remote Control: RS232C interface. STORAGE CAPACITY: .3,800 standard, 30,000 optional; with 3 VLF Manual Operation: stations 1,850 standard, 3,700 optional. .21,800 standard, 174,000 optional (24hr Base Station: operation at 0.5 sec. interval). .3,200 standard, 26,000 optional; with 3 VLF Gradiometer: stations 1,700 standard, 3,400 optional. .2 Ws per reading, up to 0.5W standby, less Power Consumption: than 0.4mW when off. .12V 1.9Ah sealed lead acid battery standard, Power Source: others optional. . . . .-40 to +60°C Operating Temperature: . . . . , . .-70 to +65<sup>0</sup>C. Storage Temperature: .6 pin weatherproof connector, RS-232C, and Input/output: (optional) analog output. .Console 223 X 69 X 240mm Dimensions: Sensor staff 4 X 450mm sections Sensor 170 X 71mm dia .Console 2.1kg Staff 0.9 kg Sensor 1.1kg .Console with batteries, harness Standard Package: Sensor with cable, connector; Staff Standard accessories: Charger, manual.case.

## VLF-EM GEONICS

### EM16 SPECIFICATIONS

MEASURED QUANTITY Inphase and quad-phase components

of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt

angle and ellipticity).

SENSITIVITY Inphase: ±150%

Quad-phase: ± 40%

RESOLUTION ±1%

OUTPUT Nulling by audio tone. Inphase in-

dication from mechanical inclinometer and quadphase from a graduated dial.

OPERATING FREQUENCY 15-25 kHz (15-30 kHz optional) VLF

Radio Band. Station selection done by

means of plug-in units.

OPERATOR CONTROLS ON/OFF switch, battery test push

button, station selector switch,

audio volume control, quadrature dial,

inclinometer.

POWER SUPPLY 6 disposable 'AA' cells.

DIMENSIONS 53 x 21.5 x 28 cm

WEIGHT Instrument: 1.8 kg

Shipping: 8.35 kg

### CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°c. Warranty does not cover inclinometers damaged by such exposure.



# **Work Report Summary**

Transaction No:

W0270.00843

Status: APPROVED

Recording Date:

2002-MAY-09

Work Done from: 2002-APR-05

Approval Date:

2002-JUN-03

to: 2002-APR-18

Client(s):

117874

CHITARONI, GINO PAUL

137227

GODDARD, DOUGLAS LOCKHART

149868

JONES, DAVID V.

200408

TECK COMINCO LIMITED

303055

TEMEX RESOURCES LTD.

Survey Type(s):

LC

MAG

VLF

Work Report Details:										
Claim#		Perform	Perform Approve	Applied	Applied Approve	Assign	Assign Approve	Reserve	Reserve Approve	Due Date
G	7000148	\$1,264	\$1,264	\$0	\$0	\$1,264	1,264	\$0	\$0	
G	7000149	\$1,501	\$1,501	\$0	\$0	\$1,501	1,501	\$0	\$0	
G	7000160	\$1,659	\$1,659	\$0	\$0	\$1,659	1,659	\$0	\$0	
G	7070025	\$1,185	\$1,185	\$0	\$0	\$0	0	\$1,185	\$1,185	
G	7070026	\$1,580	\$1,580	\$0	\$0	\$0	0	\$1,580	\$1,580	
S	1225639	\$713	\$713	\$0	\$0	\$713	713	\$0	\$0	2004-NOV-17
S	1231124	\$0	\$0	\$1,200	\$1,200	\$0	0	\$0	\$0	2003-JUN-21
S	1231125	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2003-JUN-21
S	1231126	\$0	\$0	\$1,200	\$1,200	\$0	0	\$0	\$0	2007-JUN-21
S	1231133	\$0	\$0	\$1,600	\$1,600	\$0	0	\$0	\$0	2003-JUN-21
S	1231433	\$0	\$0	\$337	\$337	\$0	0	\$0	\$0	2003-JUN-01
S	1238899	\$0	\$0	\$400	\$400	\$0	0	\$0	\$0	2003-JUL-21
		\$7,902	\$7,902	\$5,137	\$5,137	\$5,137	\$5,137	\$2,765	\$2,765	-

**External Credits:** 

\$0

Reserve:

\$2,765

Reserve of Work Report#: W0270.00843

\$2,765

**Total Remaining** 

Status of claim is based on information currently on record.

31M04SW2053 2.23562

STRATHCONA

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Date: 2002-JUN-27



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

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

Submission Number: 2.23562 Transaction Number(s): W0270.00843

TEMEX RESOURCES LTD. 4307 KERRY DRIVE, SUITE 100 **BURLINGTON, ONTARIO** CANADA L7L 1V8

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.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at steve.beneteau@ndm.gov.on.ca or by phone at (705) 670-5855.

Yours Sincerely,

Ron Gashinski

Senior Manager, Mining Lands Section

Zncodal.

Cc: Resident Geologist

Gino Paul Chitaroni (Claim Holder)

David V. Jones (Claim Holder)

Temex Resources Ltd.

(Claim Holder)

Assessment File Library

Douglas Lockhart Goddard

(Claim Holder)

**Teck Cominco Limited** 

(Claim Holder)

Temex Resources Ltd. (Assessment Office)

General Information and Limitations



MINING LAND TENURE

Date / Time of Issue Jun 10 2002

TOWNSHIP / AREA

PLAN

STRATHCONA

G-3450

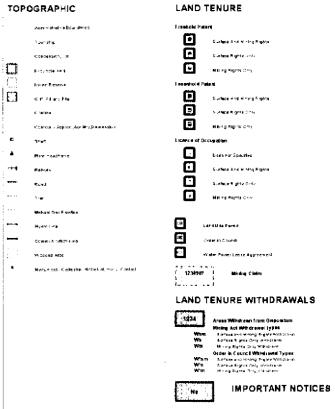
10:45h Eastern

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division Land Titles/Registry Division

NIPISSING

Ministry of Natural Resources District NORTH BAY



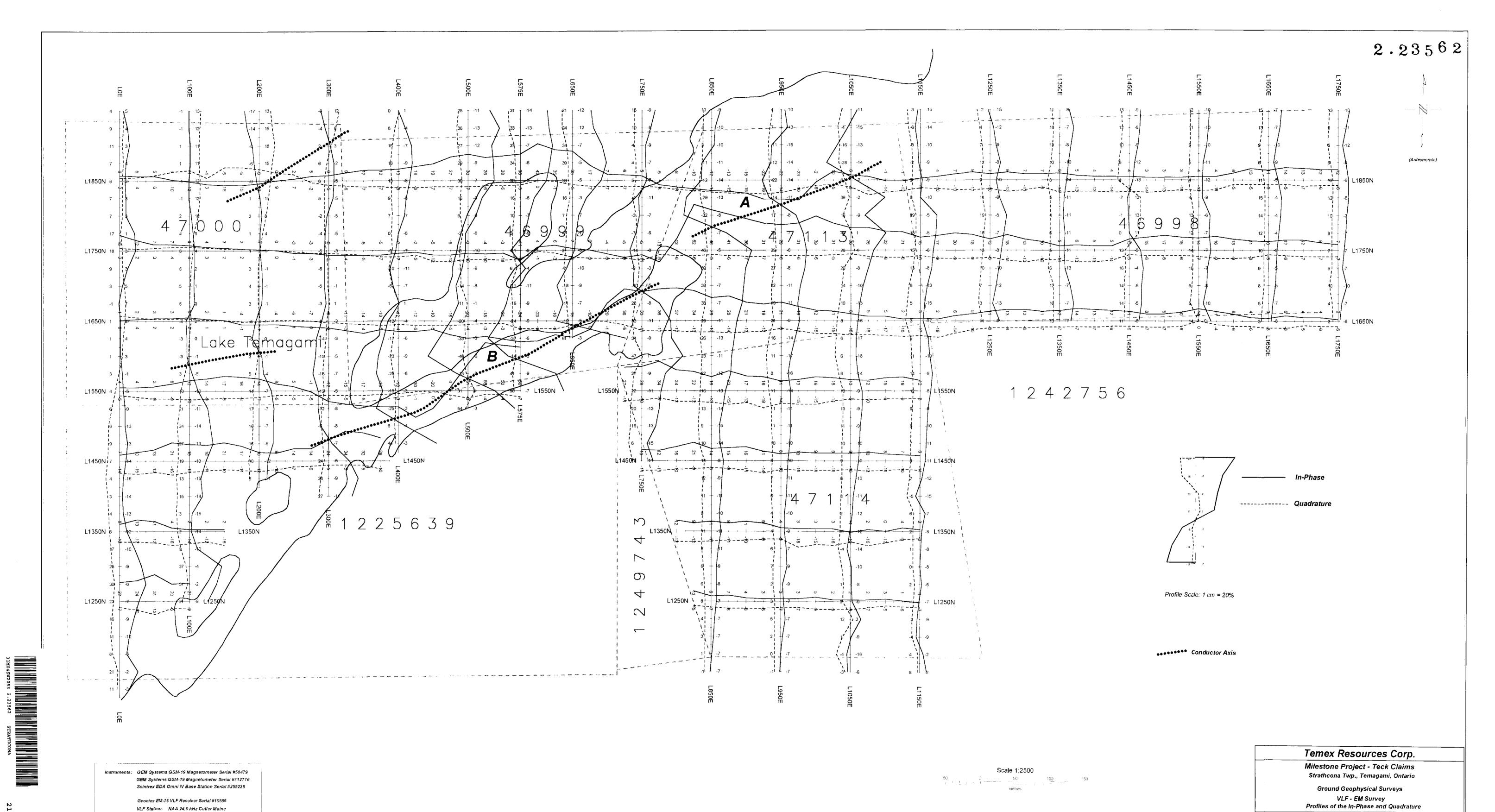
## LAND TENURE WITHDRAWAL DESCRIPTIONS

decirin	Jyps	U ALC	GARCHING
9074	Www	Jan 1 2001	FEMAGAMITOWNSITE.
9876	Wam	Ján 1 2081	"FEMADAMITOWN SITE"
46.00	Warr	Jan 1 2001	PENDING DISPOSITION UNDER THE PUBLIC LANDS ACT LAND NOT OPEN FOR STAXING
			SUB-SECTION 30(B) OF THE MINING ACT R.S.O. 1990 NOTICE RECEIVED 92/JAN 106
48 68	War	Jen 1 2001	BALLASY DITS ALONG ONTARIO MORTHLAND RAILWAY COVERED
			BY ORDER IN COUNCIL 24 JAN. 1808 FILT: 3170/04
4868	Your	Jan 1 2001	BALLEST PHIS ALONG ONTARIO NORTHLAND RAIL WAY COVENED
			BY CHIDER HJ.COUNCE, 24 JAN-1900 FILE: 3170:06
94 (II	With	Jan 1 2001	MOTORER FOR STAKING CONSERVATION
			RESERVE SECTION FOR THE MINING ACT
8411	Wen	Jen 1 2001	NOT OPEN FOR STANING - CONSLAVATION
			RESERVE SECTION FOR THE MINING ACT
EH 13	West1	Jan 1 2001	PENGING DISPOSITION MAR MOT OPEN FOR STAKING
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W 8.468H	Wite	DOT 23 1999	SEC.35 W/S-45.00 NER 23/18/98 MAS 405/168
W-5-4578	West	Oct. 10 1998	SEC.35 W.S.45.00 NER 73/10/98 N&S 195155
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			LAME TEMADAMI WITHORAWA FROM PROSPECTING AND STAKING OUT)
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			LAKE TEMAGANI WITH PRAWN FROM PROSPECTING AND, STAKING OUT)
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			LAME TEMAGAMI WITH PRAWN FROM PROSPECTING AND, STAKING QUIT)
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			LAKE TEMAGAMI WAHDRAWN FHOM PHOSPECTING AND STAKING OUT)
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			LAKE TEMAGANI WITHORAWN FROM PROSPECTING AND STAHING OUT)
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			LAKE TEMAGAMI WITHDRAWN FROM PROSPECTING AND STARING OUT)
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SEC. 55 W S J2 96 NER SEP179 dM & S 196150 (ALL ISLAMUS IN LAKE TEMISSAM WITHOR AWAI FROM PROSPECTING AND STAHING OUT)



The information shown is derived from digital data layelable to the Provincial Manag Recorder at Office at the time of downloading train the Ministry of Northern Development, and Management and Research

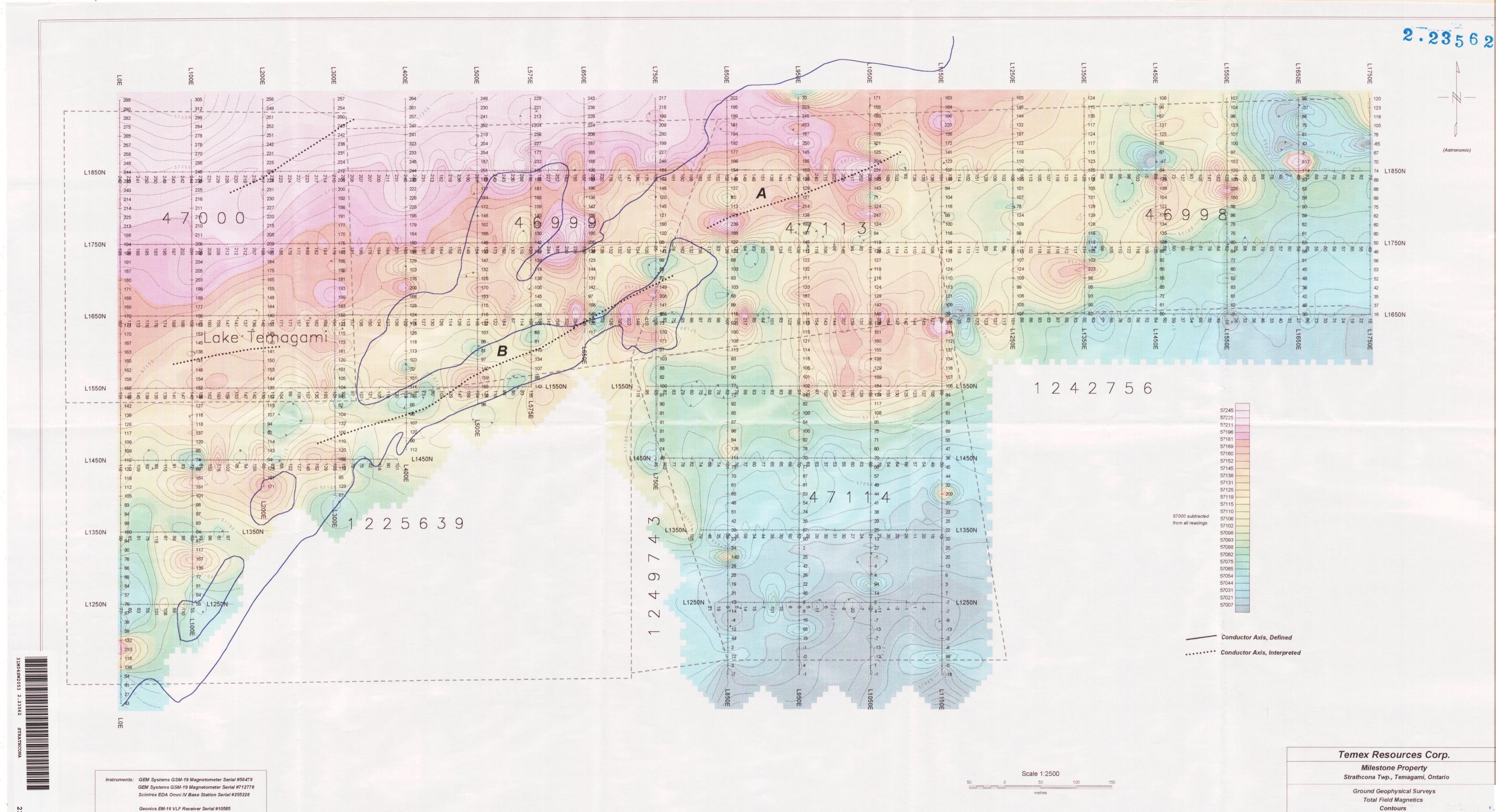


Data Processing and Interpretation by: Scale 1:2500

Meegwich Consultants Inc.

NTS 31 M/4

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VLF Station: NAA 24.0 kHz Cutler Maine

Data Processing and Interpretation by: Scale 1:2500

Meegwich Consultants Inc. April 2002