



41009NW2004 2.19348 MALLARD

010

**REPORT ON A VLF-EM SURVEY  
PROSPECTING AND SOIL SAMPLING PROGRAM**

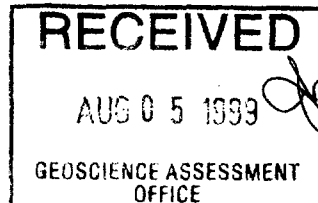
**MALLARD TOWNSHIP PROPERTY**

**MALLARD TOWNSHIP, PORCUPINE MINING DIVISION, ONT.**

**For**

**STERLINGMARC MINING LIMITED**

Submitted by: Steven D. Anderson  
March, 1999



*0:20am*

**2.19348**



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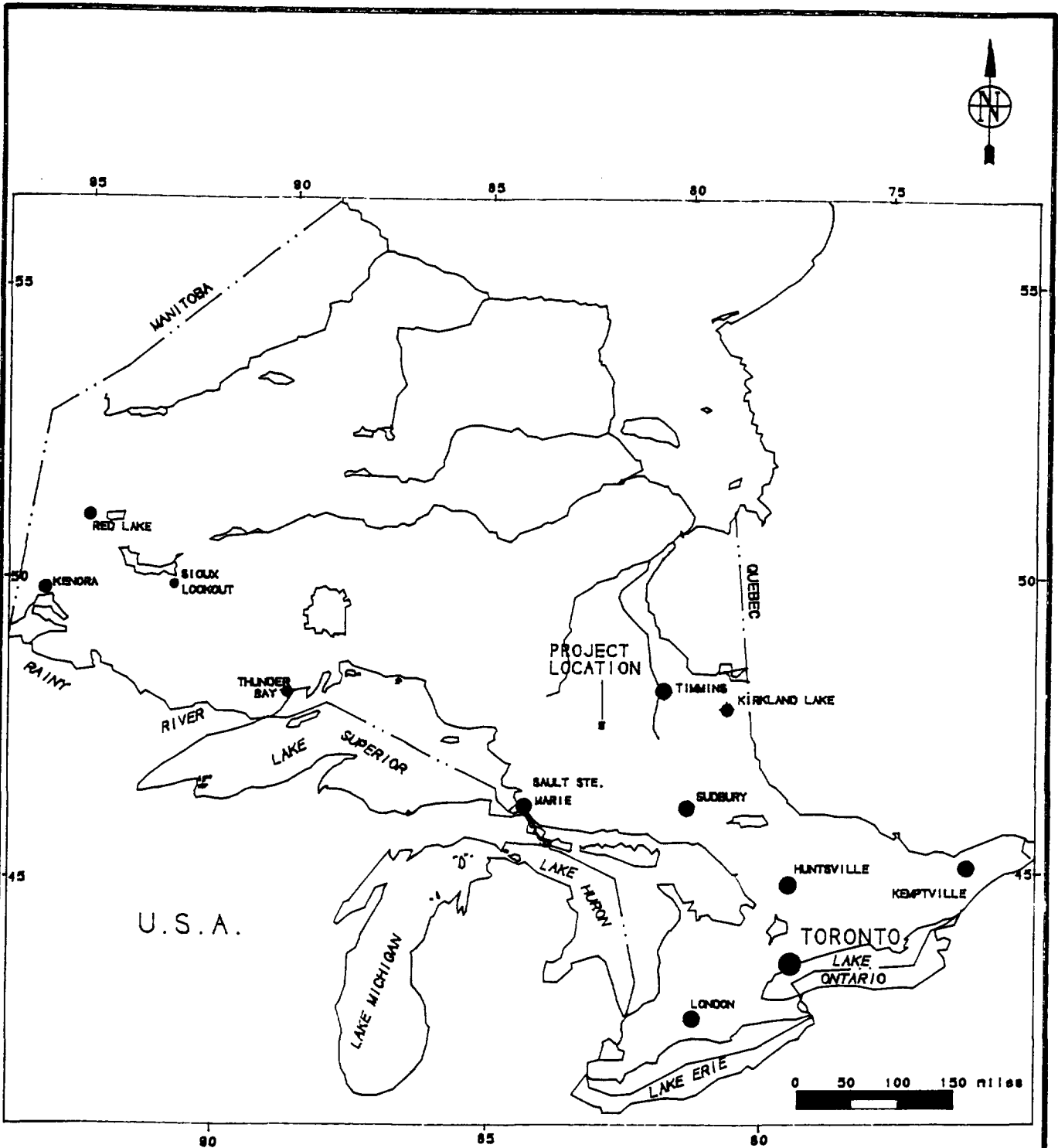
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## **INTRODUCTION**

This report deals with the logistics and results of a VLF-EM Survey as well as prospecting and soil sampling programs that were carried out on the Mallard Township Property for Sterlingmarc Mining Ltd. The claims are held by Steven D. Anderson, and are currently under option to Sterlingmarc Mining.


The purpose of this work program was to follow-up the results of a previously conducted Magnetometer Survey and Induced Polarization survey. The data from the VLF-EM method, when correlated with the other information available may reveal additional structural information. The focus of the prospecting and soils sampling was to attempt to explain a number of previously outlined Induced Polarization anomalies.

This work was carried out during the month of November 1998.



PROVINCE OF ONTARIO

FIG 5

Client: STERLINGMARC MINING LTD	
Property: MALLARD TWP PROPERTY	
Title: LOCATION MAP	
Prepared by: SDA	Checked by: SDA
Date: OCT/97	Project: MALLARD
Province: ONT	N.Y.S.: 410/NE
Scale: 1:250,000	Sheet: V6
 <b>VISION</b> <b>EXPLORATION</b> TIMMINS ONTARIO	

### LOCATION AND ACCESS

The Mallard Township property is located approximately 120km. southwest from the city of Timmins, Ontario. It is situated within the central portion of Mallard Twp. with the Opeepeesway River running through the north-eastern part of the block. The property is located in the Porcupine Mining Division, Ontario, NTS Sheet, Ridout, 410/NE, and UTM co-ordinates, 5285000mN, 403000mE.

Access to the property was gained by taking Hwy 144 south from Timmins for roughly 130km to the intersection of Hwy 144 and Hwy 667. Heading west on Hwy 667 from the junction of Hwy144 for about 45km will bring you to the where a major logging road crosses this Hwy in a north-south direction. Going north on this logging road for 23km will bring you to where the road crosses the Opeepeesway River. At this point you are about 2km. south of the block. Logging roads heading north from here provided access to the southern and northeastern portions of the block.

### CLAIM STATUS

The Mallard Township Property is comprised of 8 unpatented mining claims (59 units), held by S. Anderson. They are listed as follows:

1201578.....	9 units.....	Mallard Twp.
1201579.....	1 unit.....	Mallard Twp.
1181449.....	9 units.....	Mallard Twp.
1184445.....	10 units.....	Mallard Twp.
1201580.....	1 unit.....	Mallard Twp.
1222969.....	14 units.....	Mallard Twp.
1229298.....	4 units.....	Mallard Twp.
1222970.....	15 units.....	Mallard Twp.
1229294.....	6 units.....	Mallard Twp.
1229299.....	16 units.....	Mallard Twp.

Total = 10 claims (85 units)

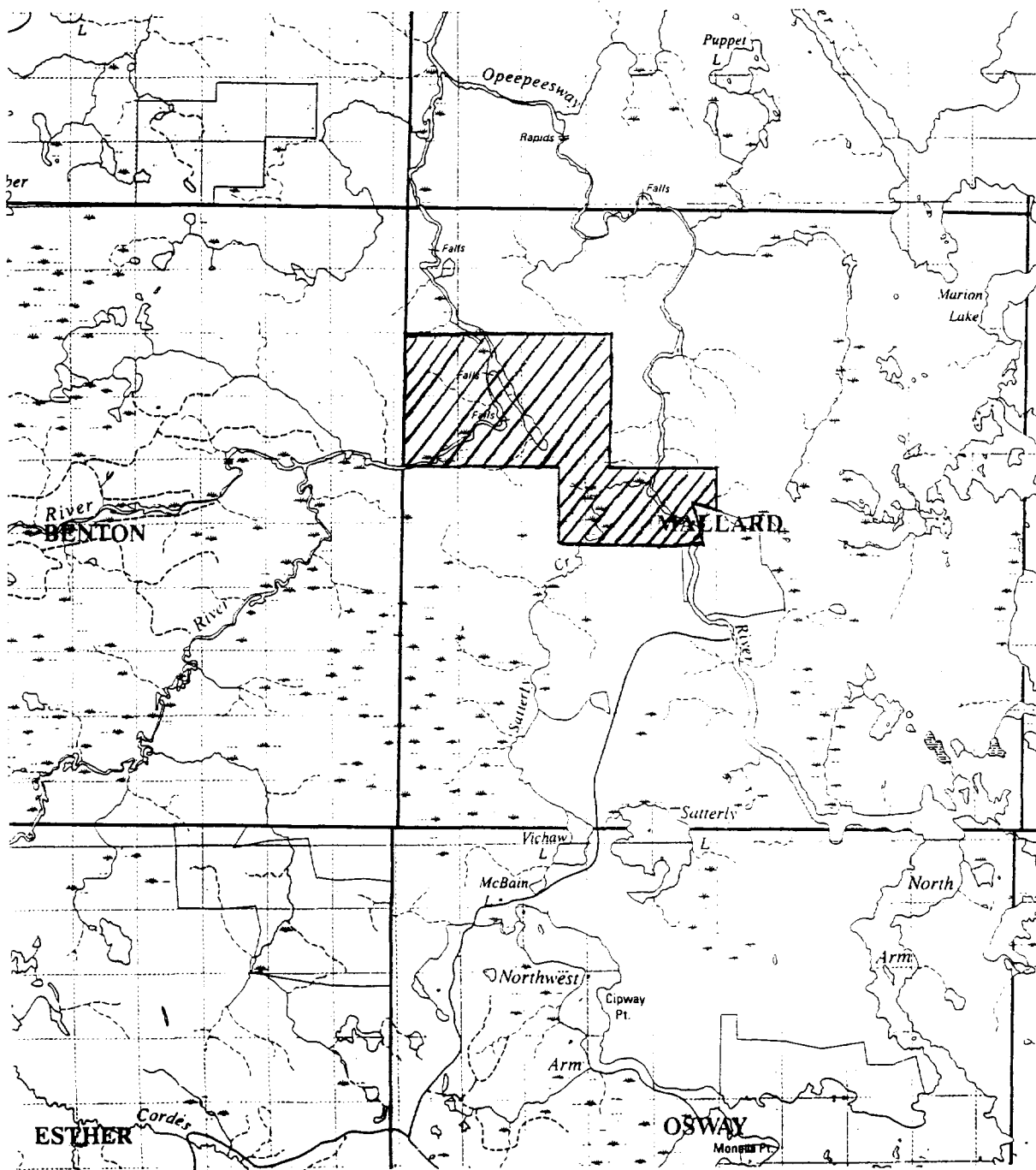


FIG 2

Client: STERLINGMARC MINING LTD  
Property: MALLARD TWP PROPERTY  
Title:  
REGIONAL LOCATION MAP

Prepared: SDA	Checked: SDA
Date: OCT/87	Project: MALLARD
Province: ONT	N.T.S.: 410/NE
Scale: 1:25000	Drawing: Y6

**VISION**  
**EXPLORATION**  
TIMMINS ONTARIO

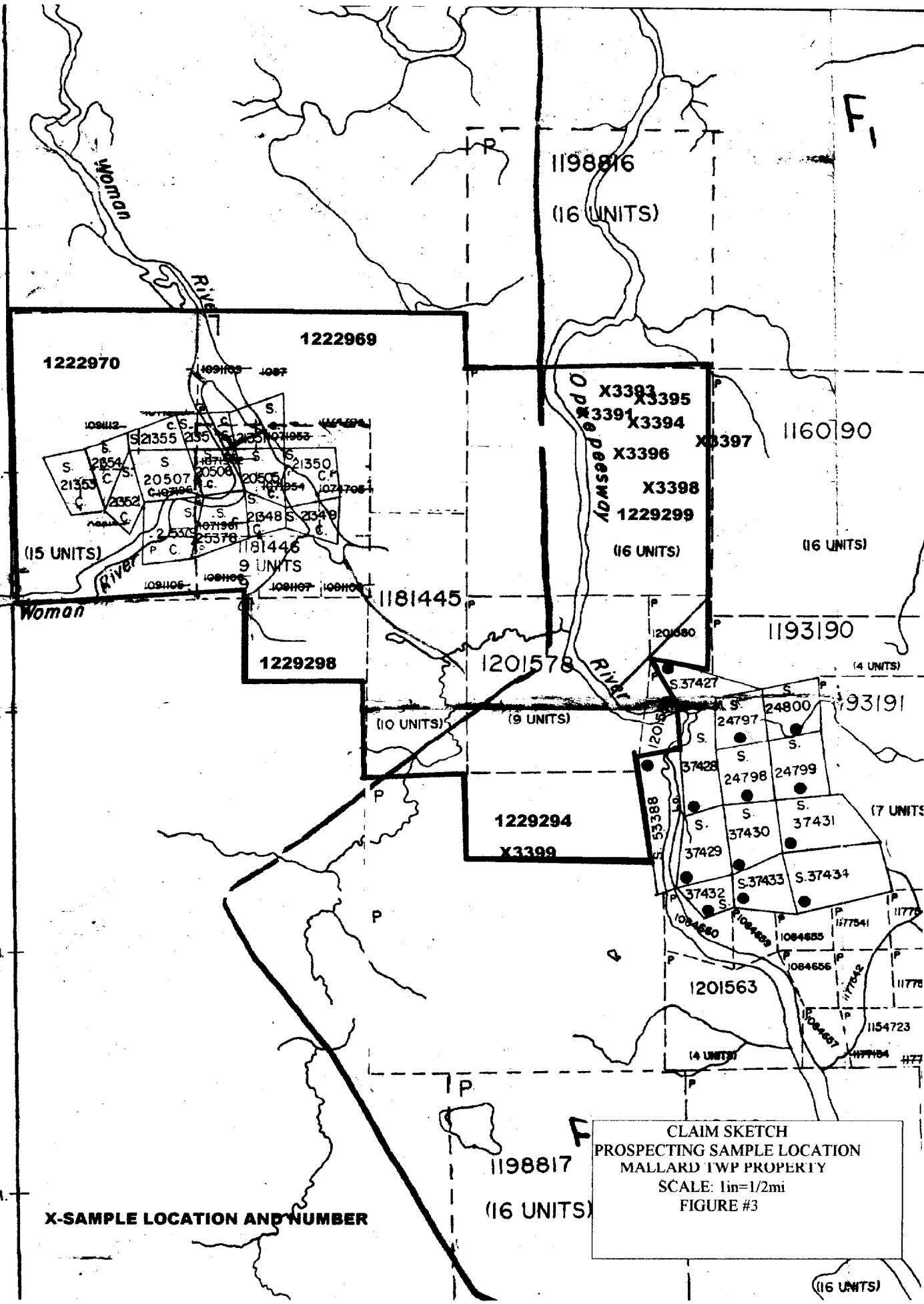
5M.

4M.

3M.

2M.

1M.



X-SAMPLE LOCATION AND NUMBER

CLAIM SKETCH  
 PROSPECTING SAMPLE LOCATION  
 MALLARD TWP PROPERTY  
 SCALE: 1in=1/2mi  
 FIGURE #3

(16 UNITS)

### PERSONNEL

The following personnel were directly involved with this program, which was carried out during November, 1998:

S. Anderson.....	Timmins, Ont.
L. Anderson.....	Timmins, Ont.
D. Brazeau.....	Timmins, Ont.
D. McKinnon.....	Timmins, Ont.

### PREVIOUS WORK

In 1974 Cominco held the northern portion of the block. The work conducted included AEM survey that was followed up by ground work. This took the form of a linecutting program, which was then covered with, magnetic and electromagnetic (Max-Min) surveys. These surveys did not cover the area of interest outlined in this report as they were focused on the search for base metals.

In 1983 Adeline International Mines Limited carried out a drill program in the south-east corner of the block. This consisted of 5 holes drilled to test areas of trenching as well as an EM (VLF) conductor.

In 1988 this company again drilled a series of 10 holes within this same area. A number of these drill holes reported very encouraging gold vales obtained from this area. Both of these drill programs focused primarily on the south-east corner of the block. As a result, the strike length of the zone remains for the most part untested.

In 1984-85, Noranda Exploration cut a grid covering the northwest part of the property, including the Woman River Showing and the Camp Zone. They carried out a Magnetic Survey and prospecting/mapping program on the grid. They channel sampled the Woman River Showing on both sides of the river and drilled 8 holes on the south side of the river. Four holes were drilled on the Camp Zone, which is parallel to and northeast of the Woman River Zone.

Since 1996, the claims have been worked by S. Anderson and are currently under option to Sterlingmarc mining Ltd. In this time various portions of the property have been worked. This work has taken the form of magnetometer, VLF-EM and Induced Polarization surveys. Prospecting and sampling programs were also carried out.



## **REGIONAL GEOLOGY**

The project area outlined lies within the Superior Province of the Canadian Precambrian Shield. More specifically, within the Swayze Greenstone Belt. This belt, which lies between Timmins and Sudbury, west of Hwy. 144 is made up of an assemblage of volcanics, sediments and younger intrusions.

Locally, the property is said to be situated over Mafic and ultramafic volcanic flows which strike at roughly north 55 degrees west and dip steeply north and south. Previous work done on the property has shown the area to host zones of quartz-veining as well as sulphide mineralization. Some of these zones are known to contain encouraging amounts of gold.

## **PROPERTY GEOLOGY**

The prospecting program conducted on the Mallard Township Property in 1995 showed the local geology to conform with that described above. The property was found to be underlain primarily by Mafic volcanics. The degree of shearing and quartz veining within this unit varies throughout the grid. The general strike direction is north 45 degrees west, with a dip of 80 degrees to the south.

The area around the Woman River Showing was found to host a number of shear zones, some of which are infilled by quartz-feldspar porphyry dikes. Pyritized, Quartz-carbonate veins within these shears seem to return the highest Au values.

## **WORK PROGRAM**

The work program carried out on the Mallard Twp Property in November 1998 took the form of a VLF-EM survey. A total of 15 km was surveyed. In addition to this a soils sampling program was conducted over a four day period (116 samples) and another 4 days was spent prospecting (12 samples). The focus of the soil sampling and prospecting programs was to cover I.P. anomalies previously outlined.

## VLF - EM Survey

A Geometrics EM-16 VLF instrument was used to survey the entire property. Both the In-phase (dip angle) and Quadrature values were recorded at 12.5m intervals.

While VLF stands for Very Low Frequency, it is for mineral exploration purposes a very high frequency compared to other commonly used Electromagnetic Surveys. The commonly used frequencies are in the order of 18-20 kilohertz. The VLF-EM technique employs fixed transmitter stations located at various places around the world to facilitate navigation. Because of this, one has a limited choice as to what transmitter station that can be used, depending on distance from and azimuth to the transmitter station.

For this survey, Cutler Maine (NAA) was used. It has an operating frequency of 24.0 kHz and an azimuth of approximately of 130 degrees TN from the property. Very briefly, the transmitting station emits a concentric, circular wave pattern, expanding about the transmitter dipole. Being thousands of miles away from the transmitter, we deal with the tangent of this wave pattern, which in this case would have a direction normal to the azimuth of 270 degrees. Thus any conductors having a general EW strike direction would be intersected by this signal which induces a signal in the conductor which in turn opposes the primary signal from the transmitter station. This elliptically polarizes the resultant field enabling detection of the conductor using a receiver coil to determine the attitude of the resultant field at various points along the grid lines.

The resultant field dips away from the conductor axis on both sides of the conductor producing a crossover on the conductor axis. For an EW conductor, a true crossover would occur where the field dips south and changes to a north dip as you progress from south to north. For this survey, a +/- system is used where a (+) dip angle means the field is dipping to the south (indicating anomaly is to north) and a (-) dip angle means the field is dipping to the north (indicating anomaly is to South). This is the case only if all readings were taken facing north as per this survey.

The quadrature values, while not useful alone, can help distinguish between bedrock conductors, which generally have a smaller out-of-phase response than overburden or short wavelength conductors can. Also, the polarity of the quadrature is diagnostic, i.e.; if the polarity follows or is the same sense as the In-phase it gives more credibility to the conductor. Reverse quadrature often indicates overburden responses.

The following parameters were employed for the survey:

Instrument - Geometrics EM-16 VLF

Transmitter Station - Cutler Maine (USA) - Call symbol NAA - 24.0 kHz.

Reading Direction - All reading taken facing north

Data Presentation - Plan, profiled map 1:5000

**SAMPLE DESCRIPTION**

3388	Felsic volcanic
3389	Felsic volcanic
3390	Mafic volcanic
3391	Mafic volcanic
3392	Mafic volcanic
3393	Mafic volcanic
3394	Mafic volcanic
3395	Mafic volcanic
3396	Mafic volcanic
3397	Mafic volcanic
3398	Mafic volcanic
3399	Mafic volcanic

### **SURVEY RESULTS**

The work program carried out on the Mallard Twp Property was successful in providing data to help further evaluate the property.

The soil sampling program showed weakly anomalous values in gold situated over previously outline Induced Polarization anomalies. The rock samples taken also showed weakly anomalous values in gold from samples taken in the area of L30W/212N.

The VLF-EM survey outlines several conductive zones, which have been marked, and labeled A through J. Conductor F is of particular interest as it occurs in the vicinity of the Woman River showing. This zones response may be marking the same structure in which the gold values from the Woman River showing are being obtained. Zones B and C are situated in the area where weakly anomalous rock samples were take during the prospecting portion of this work program.

### **CONCLUSIONS AND RECOMMENDATIONS**

The results from this work program are encouraging. These should be compiled with the previously obtained data. Any zones of interest should be tested with diamond drilling.

Also, the area west of the Woman River showing should be covered with the same types of work programs that have been carried out thus far on the reminder of the property.

**CERTIFICATION**

I, Steve Anderson of Timmins, Ontario hereby certify that:

1. I hold a three-year Technologist Diploma from Sir Sandford Fleming College, Lindsay, Ontario, obtained in May 1981.
2. I have been practising my profession since 1979 in Ontario, Quebec, Nova Scotia, New Brunswick, Newfoundland, NWT, Manitoba and Saskatchewan.
3. I have been employed directly with Asamera Oil Inc. Urangellschaft Canada Ltd.; Nanisivik Mines Ltd.; R.S. Middleton Exploration Services Ltd. and Rayan Exploration Ltd.
4. I am employed by Vision Exploration and have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience and on the results of the field work conducted on the property during 1998.

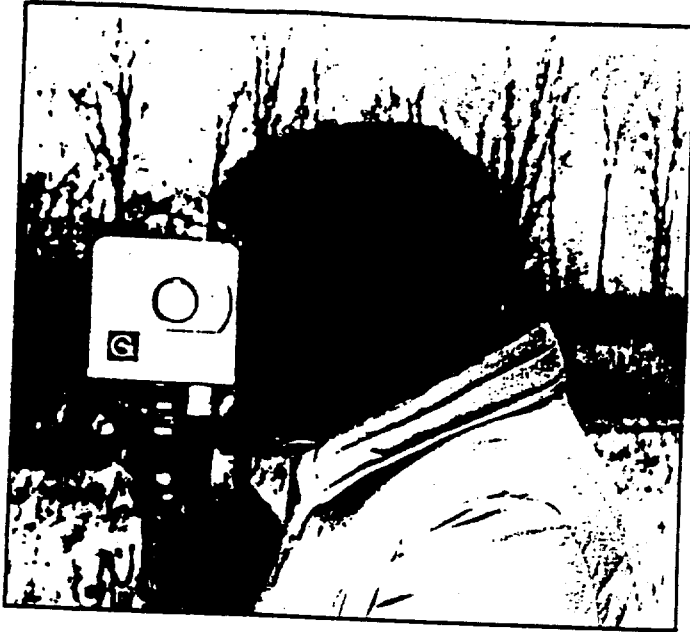
March 11, 1999



Steven D. Anderson

**APPENDIX A**  
**GEOMETRICS EM-16 VLF**

## VLF EM



### EM16

One of the most popular and widely used electromagnetic instruments, the EM16 VLF receiver makes the ideal reconnaissance EM. This can be attributed to its field reliability, operational simplicity, compactness and mutual compatibility with other reconnaissance instruments such as portable magnetometers and radiometric detectors.

The VLF method of EM surveying, pioneered by Geonics, has proven to be a simple economical means of mapping geological structure and fault tracing. The applications are many and varied, ranging from direct detection of massive sulphide conductors to the indirect detection of precious metals and radioactive deposits.

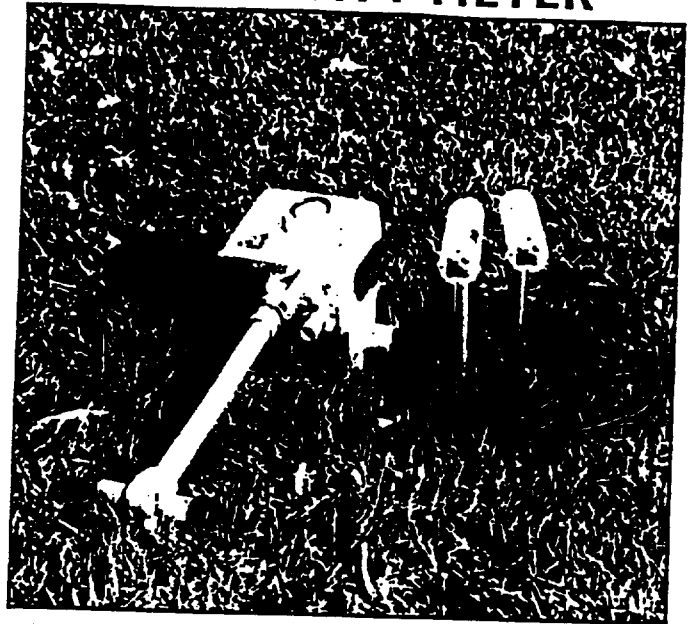
#### FEATURES

- The EM16 is the only VLF instrument that measures the quad-phase as well as the in-phase secondary field. This has the advantage of providing an additional piece of data for a more comprehensive interpretation and also allows a more accurate determination of the tilt angle.
- The secondary fields are measured as a ratio to the primary field making the measurement independent of absolute field strength.
- The EM16 is the only VLF receiver that can be adapted to measure VLF resistivity.

### Specifications

<b>MEASURED QUANTITY</b>	In-phase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity)
<b>SENSITIVITY</b>	In-phase : $\pm 150\%$ Quad-phase : $\pm 40\%$
<b>RESOLUTION</b>	$\pm 1\%$
<b>OUTPUT</b>	Nulling by audio tone. In-phase indication from mechanical inclinometer and quad-phase from a graduated dial.
<b>OPERATING FREQUENCY</b>	15-25 kHz VLF Radio Band. Station selection done by means of plug-in units.
<b>OPERATOR CONTROLS</b>	On/Off switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
<b>POWER SUPPLY</b>	6 disposable 'AA' cells
<b>DIMENSIONS</b>	42 x 14 x 9 cm
<b>WEIGHT</b>	Instrument: 1.8 kg Shipping : 5.5 kg

## VLF RESISTIVITY METER



### EM16/16R

The EM16R is a simple, button on attachment to the EM16 converting it to a direct reading terrain resistivity meter. The EM16R interfaces a pair of potential electrodes to the EM16 enabling the measurement of the ratio of, and the phase angle between, the horizontal electric and magnetic fields of the plane wave propagated by distant VLF radio transmitters.

The EM16R is direct reading in ohm-meters of apparent ground resistivity. If the phase angle is  $45^\circ$ , the resistivity reading is the true value and the earth is uniform to the depth of exploration (i.e. a skin depth). Any departure from  $45^\circ$  of phase indicates a layered earth. Two layer interpretation curves are supplied with each instrument to permit an interpretation based on a two layer earth model.

This highly portable resistivity meter makes an ideal tool for quick geological mapping and has been used successfully for a variety of applications.

- Detection of massive and disseminated sulphide deposits
- Overburden conductivity and thickness measurements
- Permafrost mapping
- Detection and delineation of industrial mineral deposits
- Aquifer mapping

### Specifications

EM16R ATTACHMENT

<b>MEASURED QUANTITY</b>	<ul style="list-style-type: none"> <li>• Apparent Resistivity of the ground in ohm-meters</li> <li>• Phase angle between <math>E_x</math> and <math>H_y</math> in degrees</li> </ul>
<b>RESISTIVITY RANGES</b>	<ul style="list-style-type: none"> <li>• 10 — 300 ohm-meters</li> <li>• 100 — 3000 ohm-meters</li> <li>• 1000 — 30000 ohm-meters</li> </ul>
<b>PHASE RANGE</b>	0-90 degrees
<b>RESOLUTION</b>	<ul style="list-style-type: none"> <li>• Resistivity : <math>\pm 2\%</math> full scale</li> <li>• Phase : <math>\pm 0.5^\circ</math></li> </ul>
<b>OUTPUT</b>	Null by audio tone. Resistivity and phase angle read from graduated dials.
<b>OPERATING FREQUENCY</b>	15-25 kHz VLF Radio Band. Station selection by means of rotary switch.
<b>INTERPROBE SPACING</b>	10 meters
<b>PROBE INPUT IMPEDANCE</b>	100 M $\Omega$ in parallel with 0.5 picofarads
<b>DIMENSIONS</b>	19 x 11.5 x 10 cm. (attached to side of EM16)
<b>WEIGHT</b>	1.5 kg (Including probes and cable)

**APPENDIX B**  
**ASSAY CERTIFICATES**





Established 1928

# Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

## Assay Certificate

9W-0359-RA1

Company: **VISION EXPLORATION**  
 Project: **Mallard**  
 Ann: **D. McKinnon**

Date: FEB-22-99

We hereby certify the following Assay of 16 Rock samples  
 submitted FEB-17-99 by .

Sample Number	Au g/tonne	Au Check g/tonne
3388	0.06	-
3389	0.57	0.69
3390	0.01	-
3391	Nil	-
3392	0.01	-
3393	0.01	-
3394	0.02	-
3395	0.06	-
3396	Nil	-
3397	Nil	-
3398	0.03	0.03
3399	0.02	-
3951	Nil	-
3952	0.02	-
3953	Nil	-
3954	0.02	-

One assay ton portion used.

Certified by \_\_\_\_\_

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0  
 Telephone (705)642-3244 Fax (705)642-3300



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Page 1 of 2

## Geochemical Analysis Certificate

9W-0361-SG1

Company: **VISION EXPLORATION**

Date: FEB-24-99

Project: Mallard

Attn: D. McKinnon

We hereby certify the following Geochemical Analysis of 60 Soil samples submitted FEB-17-99 by .

Sample Number	Au PPB	Au Check PPB
L-5W	5	3
L-5W 0+25N	2	-
L-5W 0+50N	2	-
L-5W 0+75N	Nil	-
L-5W 1+00N	Nil	-
L-5W 1+25N	3	-
L-5W 0+25S	Nil	-
L-5W 0+50S	Nil	-
L-5W 4+25S	Nil	-
L-5W 4+50S	Nil	-
L-5W 4+75S	2	-
L-5W 5+00S	2	-
L-7W 0+00	Nil	-
L-7W 0+25N	2	-
L-7W 0+50N	3	-
L-7W 0+75N	5	-
L-7W 0+25S	3	5
L-7W 0+50S	2	-
L-7W 0+75S	Nil	-
L-7W 1+00S	3	-
L-7W 1+25S	2	-
L-7W 1+50S	Nil	-
L-7W 1+75S	Nil	-
L-7W 3+50S	2	-
L-7W 3+75S	3	-
L-7W 4+00S	2	-
L-7W 4+25S	Nil	-
L-7W 4+50S	5	3
L-9W 0+00	2	-
L-9W 25N	Nil	-

Certified by



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Page 2 of 2

## Geochemical Analysis Certificate

9W-0361-SG1

Company: **VISION EXPLORATION**  
Project: Mallard  
Attn: D. McKinnon

Date: FEB-24-99

We hereby certify the following Geochemical Analysis of 60 Soil samples submitted FEB-17-99 by .

Sample Number	Au PPB	Au Check PPB
L-9W 50N	3	3
L-9W 75N	2	-
L-9W 1+00N	Nil	-
L-9W 25S	2	-
L-9W 50S	Nil	-
L-9W 3+00S	Nil	-
L-9W 3+25S	Nil	-
L-9W 3+50S	2	-
L-9W 3+75S	3	-
L-9W 4+00S	3	-
L-3IW 2+25N	Nil	-
L-3IW 2+50N	Nil	-
L-3IW 2+75N	2	-
L-3IW 3+00N	Nil	-
L-3IW 3+25N	Nil	-
L-3IW 3+50N	3	5
L-3IW 3+75N	Nil	-
L-3IW 4+00N	Nil	-
L-3IW 5+25S	Nil	-
L-3IW 5+50S	Nil	-
L-3IW 5+75S	Nil	-
L-3IW 6+00S	Nil	-
L-3IW 6+25S	Nil	-
L-3IW 6+50S	3	-
L-3IW 6+75S	9	5
L-33W 2+50N	Nil	-
L-33W 2+75N	Nil	-
L-33W 3+00N	Nil	-
L-33W 3+25N	Nil	-
L-33W 3+50N	3	-

Certified by



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Page 1 of 2

## Geochemical Analysis Certificate

9W-0362-SG1

Company: **VISION EXPLORATION**  
Project: **Mallard**  
Attn: **D. McKinnon**

Date: FEB-24-99

We hereby certify the following Geochemical Analysis of 56 Soil samples submitted FEB-17-99 by .

Sample Number	Au PPB	Au Check PPB
L-33W 3+75N	3	-
L-33W 4+00N	2	-
L-33W 4+75S	Nil	-
L-33W 5+00S	3	-
L-33W 5+25S	Nil	-
L-33W 5+50S	2	-
L-33W 5+75S	Nil	-
L-33W 6+00S	3	-
L-34W 2+00S	Nil	-
L-34W 2+25S	Nil	-
L-34W 2+50S	7	3
L-34W 2+75S	Nil	-
L-34W 3+00S	3	-
L-34W 3+25S	Nil	-
L-34W 3+50S	Nil	-
L-34W 3+75S	Nil	-
L-34W 4+00S	Nil	-
L-34W 4+25S	3	2
L-35W 0+50N	Nil	-
L-35W 0+75N	Nil	-
L-35W 1+00N	3	-
L-35W 1+25N	2	-
L-35W 1+50N	Nil	-
L-35W 1+75N	Nil	-
L-35W 2+00N	Nil	-
L-37W 2+00N	Nil	-
L-37W 2+25N	Nil	-
L-37W 2+50N	Nil	-
L-37W 2+75N	Nil	Nil
L-37W 3+00N	Nil	-

Certified by \_\_\_\_\_



Established 1928

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Page 2 of 2

9W-0362-SG1

Date: FEB-24-99

## Geochemical Analysis Certificate

Company: **VISION EXPLORATION**  
Project: Mallard  
Attn: D. McKinnon

We hereby certify the following Geochemical Analysis of 56 Soil samples submitted FEB-17-99 by .

Sample Number	Au PPB	Au Check PPB
L-37W 1+50S	Nil	-
L-37W 1+75S	Nil	-
L-37W 2+00S	Nil	-
L-37W 2+25S	3	7
L-37W 2+50S	Nil	-
L-37W 2+75S	2	-
L-39W 1+75N	Nil	-
L-39W 2+00N	2	-
L-39W 2+25N	Nil	-
L-39W 2+50N	3	-
L-39W 2+75N	Nil	-
L-39W 3+00N	Nil	-
L-39W 3+25N	Nil	-
L-39W 75S	2	3
L-39W 1+00S	3	-
L-39W 1+25S	2	-
L-39W 1+50S	3	-
L-39W 1+75S	Nil	-
L-40W 1+75N	Nil	-
L-40W 2+00N	Nil	-
L-40W 2+50N	2	-
L-40W 2+75N	5	3
L-40W 3+00N	Nil	-
L-40W 0+50S	Nil	-
L-40W 0+75S	Nil	-
L-40W 1+00S	Nil	-

Certified by \_\_\_\_\_



Ministry of Northern Development and Mines

**Declaration of Assessment Work Performed on Mining Land**

Transaction Number (office use)  
 W2960.00114  
 Assessment Files Research Imaging

Section 65(2) and 66(3), R.S.O. 1990

Authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Act to review the assessment work and correspond with the mining land holder. Mining Recorder, Ministry of Northern Development and Mines, 6th Floor.

*FINAL REVISED*



41009NW2004 2.19348 MALLARD 900

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.  
 - Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name <i>Steve Anderson</i>	Client Number <i>102430</i>
Address <i>170 Second Ave, Timmins, Ont</i>	Telephone Number <i>705-360-7722</i>
<i>P4N-161</i>	Fax Number <i>705-360-7733</i>
Name	Client Number
Address	Telephone Number
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)     Physical: drilling, stripping, trenching and associated assays     Rehabilitation

Work Type <i>Soil Samples Prospecting VLF-EM Report</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>\$ 5700</i>
Dates Work Performed From <i>20 11 98</i> To <i>30 11 98</i>	NTS Reference
Global Positioning System Data (if available)	Mining Division <i>Porcupine</i>
Township/Area <i>Mallard Twp.</i>	Resident Geologist District <i>Timmins</i>
M or G-Plan Number <i>G-1171</i>	

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
 - provide proper notice to surface rights holders before starting work;  
 - complete and attach a Statement of Costs, form 0212;  
 - provide a map showing contiguous mining lands that are linked for assigning work;  
 - include two copies of your technical report.

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3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <i>Steve Anderson</i>	Telephone Number <i>705-360-7722</i>
Address <i>170 Second Ave Timmins Ont P4N-161</i>	Fax Number <i>705-360-7733</i>
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

*Deemed June 10/99*

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 C  
 PORCUPINE MINING DIVISION

4. Certification by Recorded Holder or Agent

I, *Steve Anderson* (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>[Signature]</i>	Date <i>March 12/99</i>
Agent's Address <i>170 Second Ave Timmins Ont P4N-161</i>	Telephone Number <i>705-360-7722</i>
	Fax Number <i>705-360-7733</i>

2.19348

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjacent) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W990.00114 **REVISED**

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	18 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$ 8,892	\$ 4,000	0	\$4,892
1 1729299	16	400		400	
2 1229298	4	300		300	
3 1201578	9	500		500	
4 1181449	9	2250	\$34,05200		
5 1222969	14	2250		2250	
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		5700	5700	3450	3450

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I, Steve Anderson (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 8/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: March 12/99

5. Instructions for cutting back credits that are not approved.  
Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

**For Office Use Only**

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)		

2 19348



Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use) W960.0014

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6S5.

Table with 4 columns: Work Type, Units of Work, Cost Per Unit of work, Total Cost. Rows include VLF-EM, Soil Sampling, Prospecting Report, Assay Cost, Associated Costs, Transportation Costs, Food and Lodging Costs, and Total Value of Assessment Work (5700).

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Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work. 2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit. - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification.

Certification verifying costs:

I, Steve Anderson, do hereby certify, that the amounts shown are as accurate as may reasonably be determined, and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work for...

RECEIVED MAR 12 1999 3:10 PM PORCUPINE MINING DIVISION

Signature Date

2.19348



Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (877) 670-1555

August 12, 1999

STEVEN DEAN ANDERSON  
170 Second Avenue  
TIMMINS, ONTARIO  
P4N 1G1

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.19348

**Status**

**Subject: Transaction Number(s):** W9960.00114 Approval After Notice

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

**Submission Number:** 2.19348

**Date Correspondence Sent:** August 12, 1999

**Assessor:** Bruce Gates

**General Comment:**

Future prospecting submissions will require more details in the report describing the observations made during the performance of the work and the exact dates the work was performed. The maps should show character of overburden and forest cover particularly in areas of no outcrop.

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9960.00114	1229299	MALLARD	Approval After Notice	July 26, 1999

**Section:**

14 Geophysical VLF  
9 Prospecting PROSP  
17 Assays ASSAY

The revisions outlined in the Notice dated June 10, 1999, have been in part corrected. Accordingly, assessment work credit has been approved as outlined on the Declaration of Assessment Work Form accompanying this submission.

**Correspondence to:**

Resident Geologist  
South Porcupine, ON

**Recorded Holder(s) and/or Agent(s):**

STEVEN DEAN ANDERSON  
TIMMINS, ONTARIO

Assessment Files Library  
Sudbury, ON

---

**DISPOSITION OF CROWN LANDS**

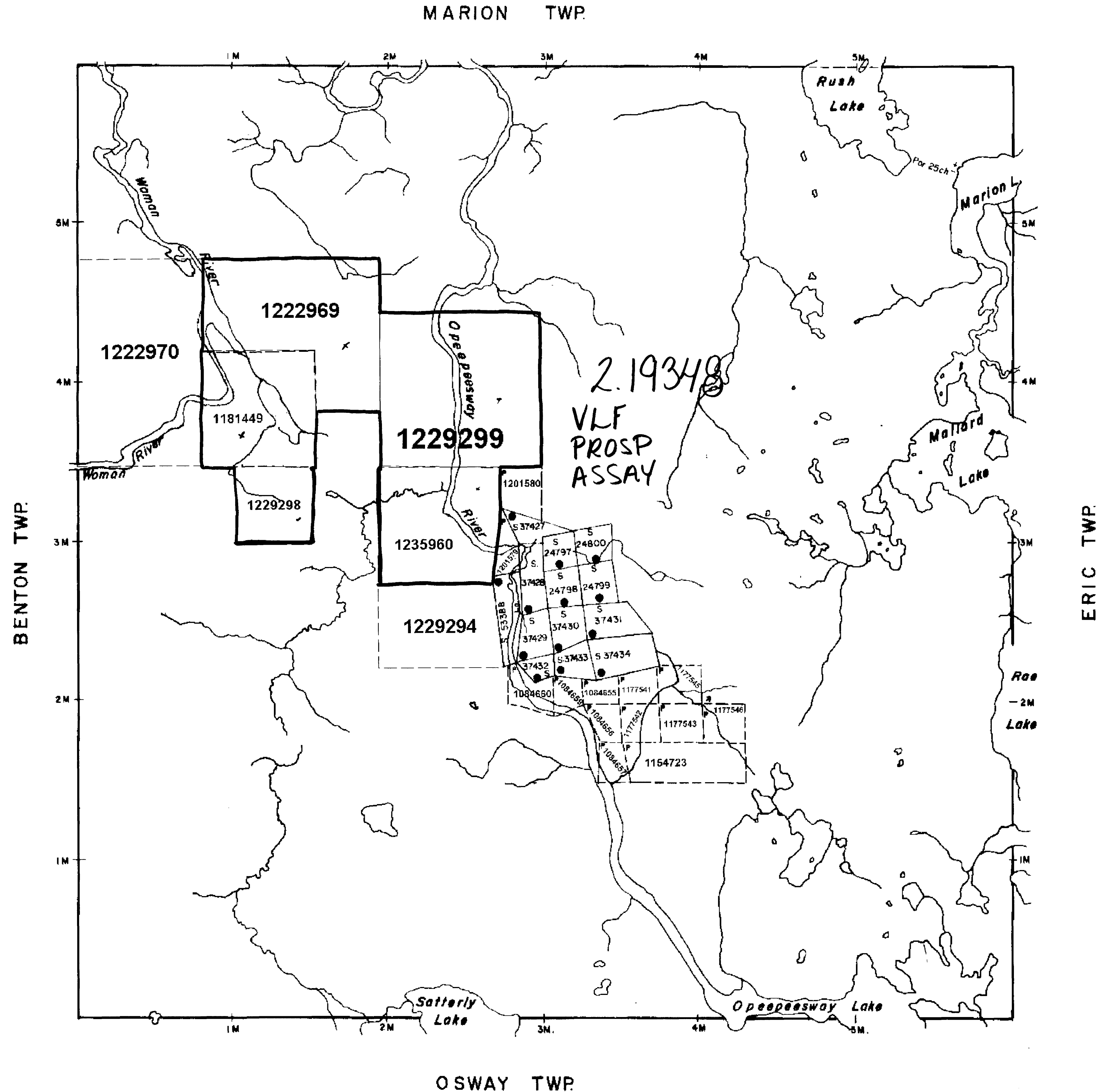
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	○
" , MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	◑
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	OC
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○
LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 5, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

**AREAS WITHDRAWN FROM DISPOSITION**

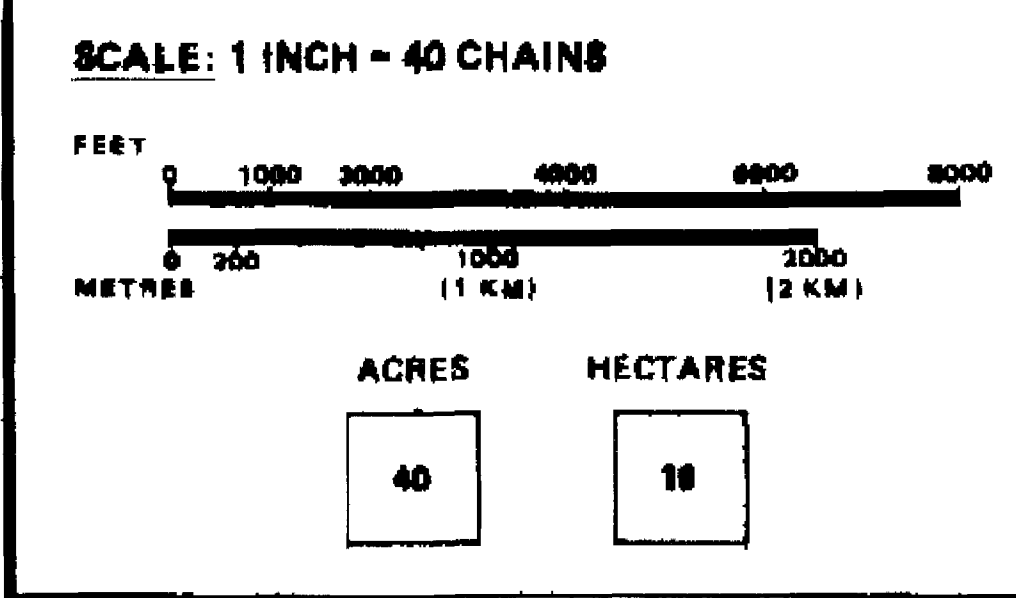
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
<p><i>T<sub>1</sub> - SUBJECT TO FORESTRY ACTIVITY IN 1994/95, 1995/96</i></p>				



**LEGEND**

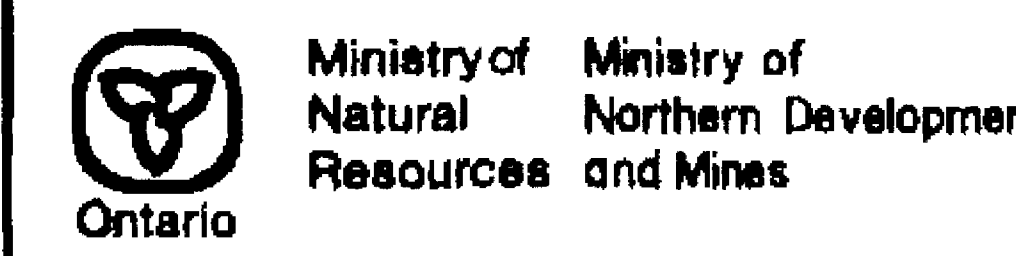
HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	



TOWNSHIP OF  
**MALLARD**

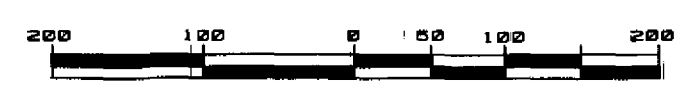
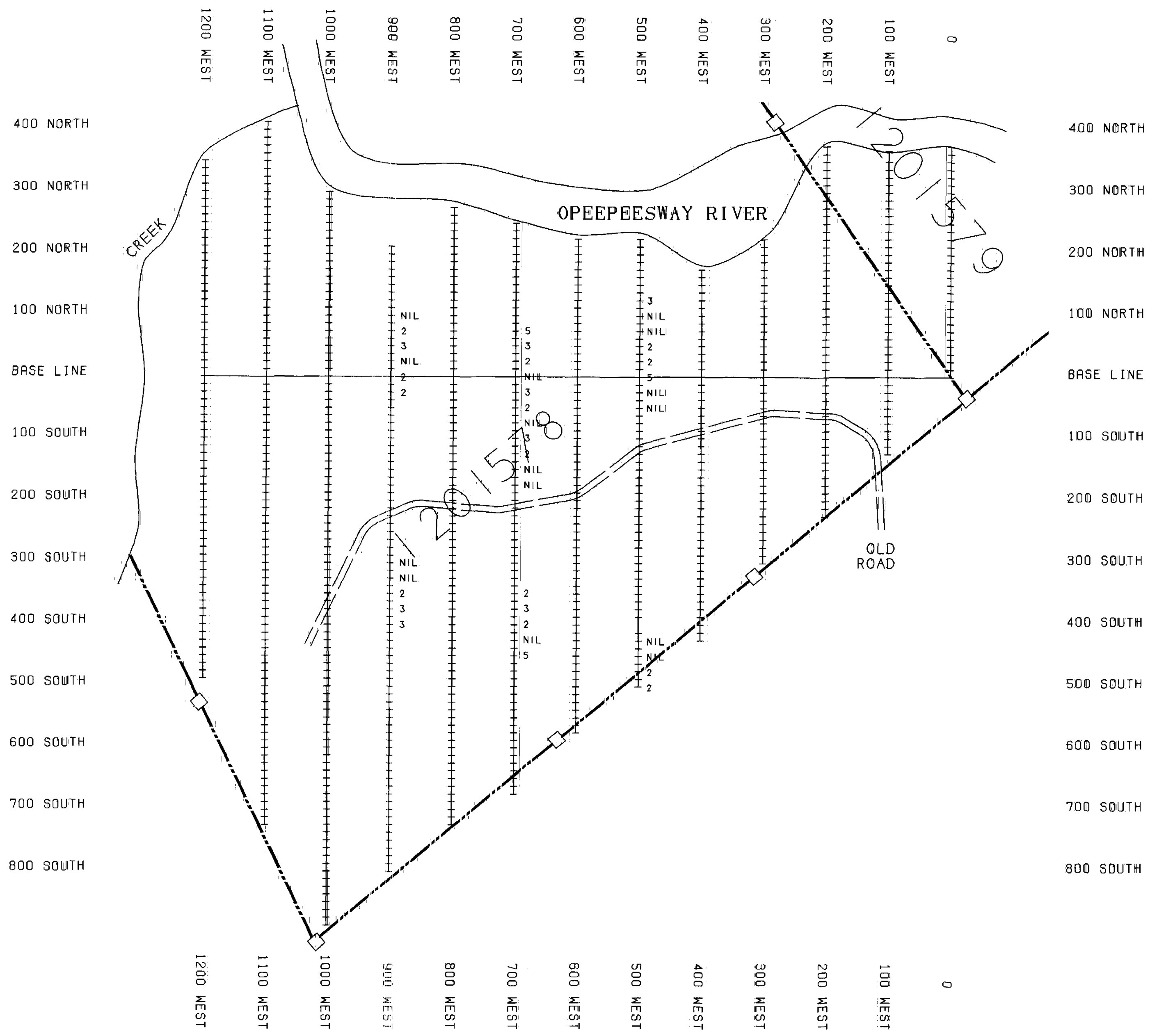
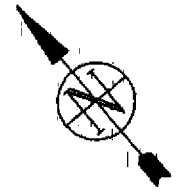
DISTRICT OF  
**SUDBURY**

MINING DIVISION  
**PORCUPINE**



Date	JULY 1986	Plan No.	G-1171
National Topographic Series		ACTIVATED 24-MAR-86	

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN

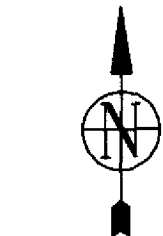
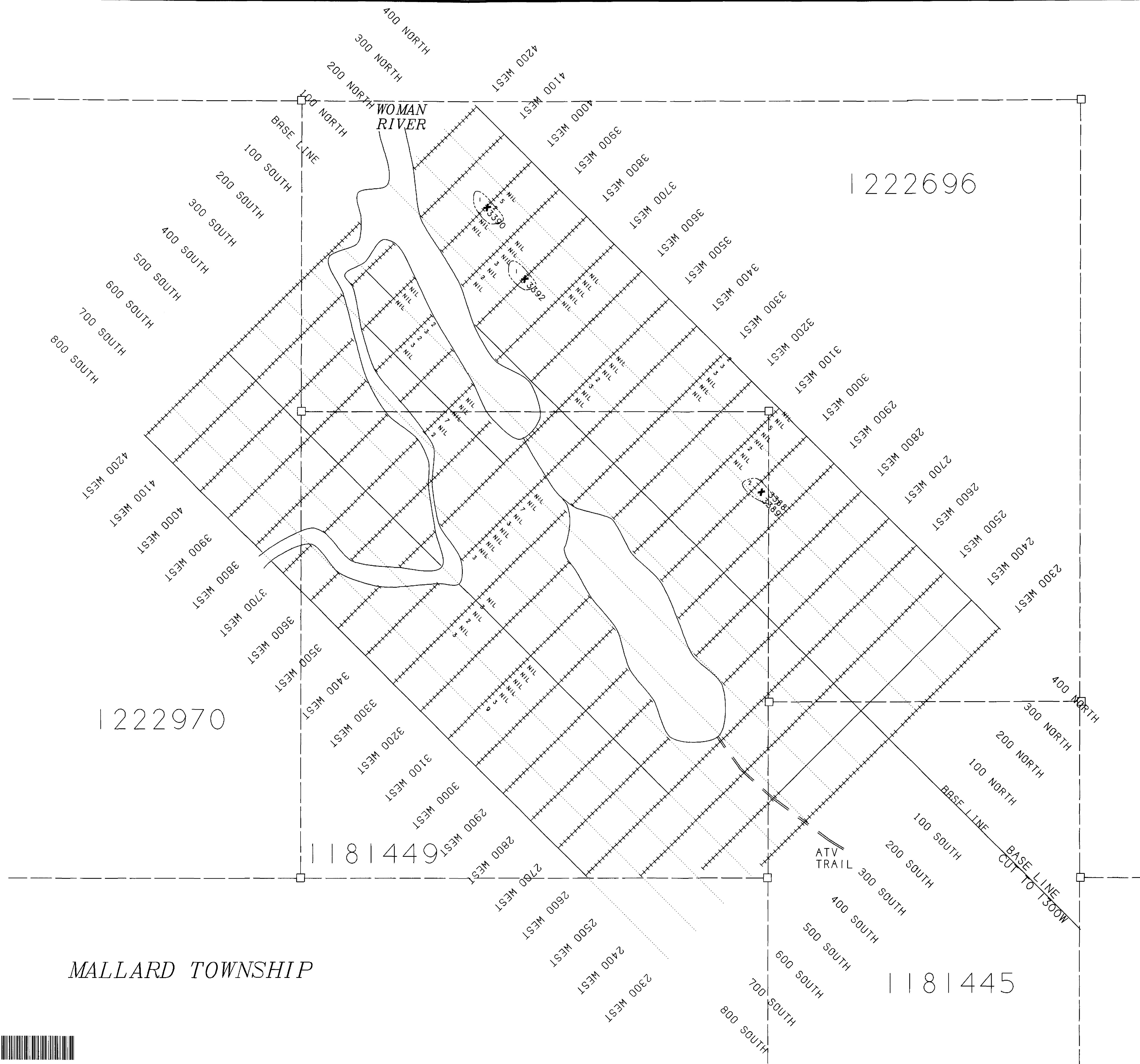


**TOPO LEGEND**

- Claim Line
- Claim Post
- Old Road

Client: STERLINGMARC MINING LIMITED	
Property: MALLARD TOWNSHIP PROPERTY	
Title: SOIL SAMPLE LOCATION MAP Au PPB	
Processed: SDA	Checked: SDA
Date: MARCH/99	Township: MALLARD
Province: ONTARIO	N.T.S.: 410/NE
Scale: 1:5000	Drawing: V-6



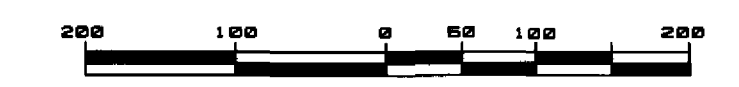


**LEGEND**

- SOIL SAMPLE (Au ppb)
- ROCK SAMPLE LOCATION
- OUTCROP
- 1 MAFIC METAVOLCANICS
- 2 FELSIC METAVOLCANICS

**TOPO LEGEND**

- SHORE LINE
- ROAD
- CLAIM POST ASSUMED
- CLAIM LINE



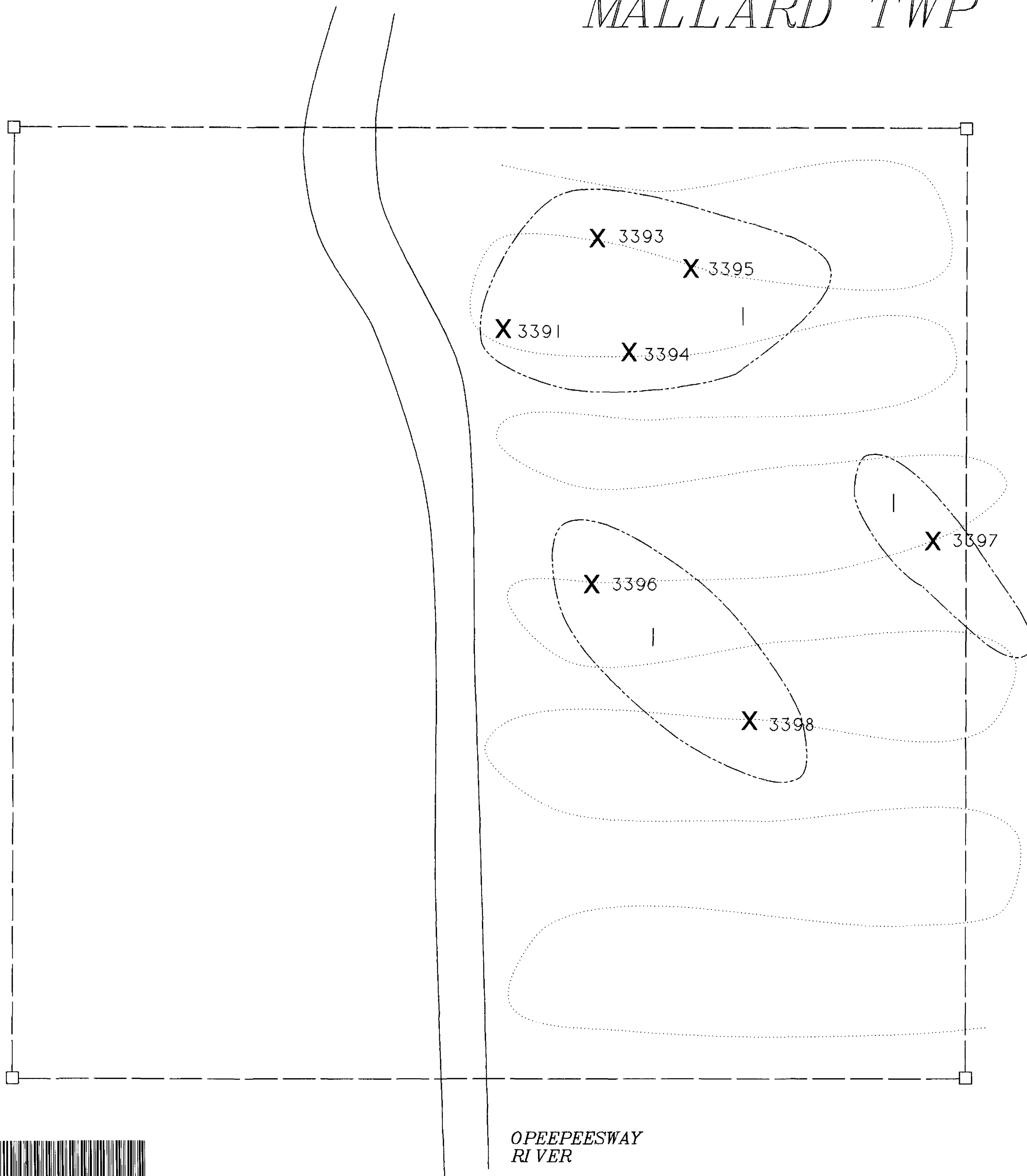
Client: <b>STERLINGMARC MINING LTD</b>	
Property: <b>MALLARD TWP PROPERTY</b>	
Title: <b>SOIL SAMPLES (Au ppb) ROCK SAMPLE LOCATIONS</b>	
Processed: SDA	Checked: SDA
Date: NOVEMBER 1998	Township: MALLARD
Province: ONT.	N.T.S.: 410/NE
Scale: 1:5,000	Drawing: V6SOIL



MALLARD TOWNSHIP



# MALLARD TWP



OPEEPEESWAY  
RIVER



## LEGEND

- X 3390 — ROCK SAMPLE LOCATION
- OUTCROP
- - - MAFIC METAVOLCANICS
- ..... PROSPECTING TRAVERSE

## TOPO LEGEND

- SHORE LINE
- ==== ROAD
- CLAIM POST ASSUMED
- - - CLAIM LINE



Client: STERLINGMARC MINING LTD

Property: MALLARD TWP PROPERTY

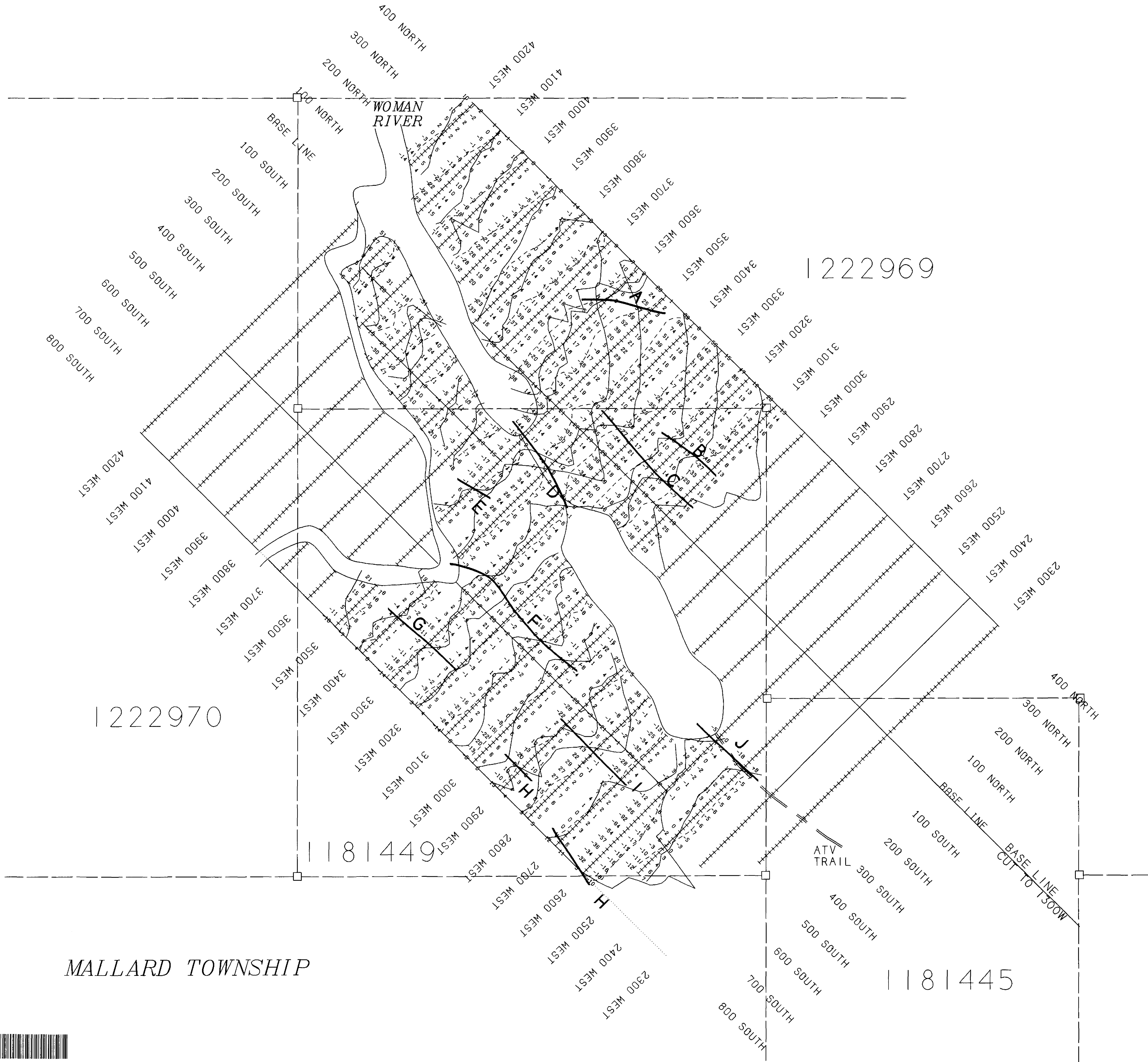
Title: ROCK SAMPLE LOCATIONS  
CLAIM # 1229299

Processed: SDA	Checked: SDA
Date: NOVEMBER 1998	Township: MALLARD
Province: ONT.	N.T.S.: 410/NE
Scale: 1:5,000	Drawing: V6S01L

**VISION**  
EXPLORATION  
TIMMINS ONTARIO

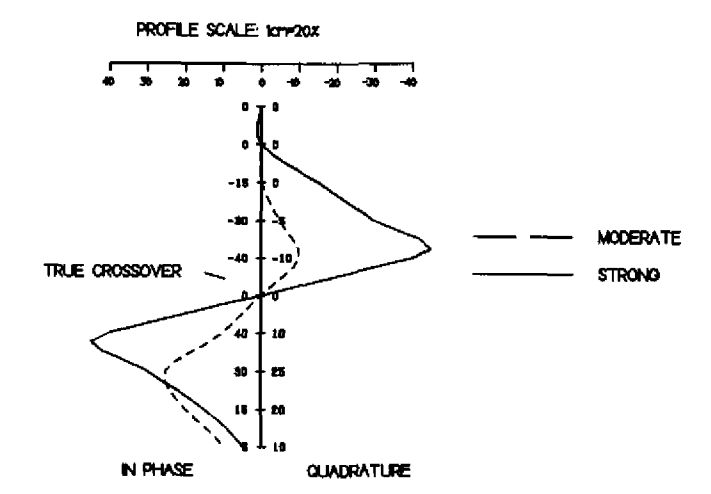
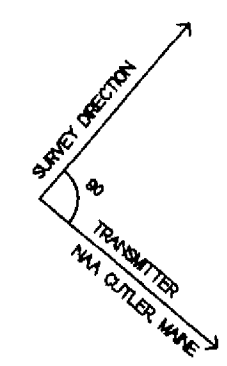






**LEGEND**

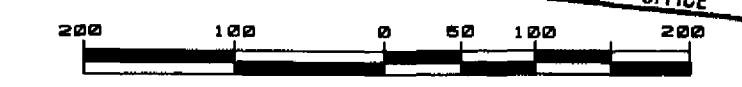
INSTRUMENT: GEOMETRICS EM-16 VLF  
 PARAMETERS MEASURED: IN-PHASE AND QUADRATURE  
 READING INTERVAL: 25M  
 PROFILE SCALE: 1cm = 20%  
 STATION: CUTLER MAINE NAA-24.0 KHZ.



**TOPO LEGEND**

- SHORE LINE
- ==== ROAD
- CLAIM POST ASSUMED
- - - - CLAIM LINE

**RECEIVED**  
 MAR 29 1999  
 GEOSCIENCE ASSESSMENT  
 OFFICE



MALLARD TOWNSHIP

Client: STERLINGMARC MINING LTD  
 Property: MALLARD TWP PROPERTY  
 Title: POSTED AND PROFILED  
 VLF-EM SURVEY - CUTLER NAA

Processed: SDA	Checked: SDA
Date: MARCH 1999	Township: MALLARD
Province: ONT.	N.T.S.: 410/NE
Scale: 1:5,000	Drawing: V6VLF

**VISION**  
 EXPLORATION  
 TIMMINS ONTARIO

