2.48107

REPORT

ON

SOIL STUDY
MMI SAMPLING

(December 2010)

Eby West Property.

Eby Township
Larder Lake Mining Division
North-eastern Ontario

NTS
42A/1

UTM
Grid Zone 17
Nad 83
0557650mE, 5324700mN

For

Douglas & Betty Robinson

by

Douglas Robinson P. Eng.
Doug Robinson Consulting
P.O. Box 218
Swastika, Ontario
P0K 1T0
Telephone: 705 642-9153

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Line 7650E MMI Profiles 1 cm = 50m (humus samples marked by "**X**")
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Page 3: Cu ppb, Mn ppb
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Assay Certificates
GS Certificate TO113567 13 pages (samples 27170-195 and 27204-250)
GS Certificate TO113568 13 pages (samples 27253-300)

1.0 SUMMARY

The Eby West property is located in Eby Township 16 km west-southwest of Kirkland Lake Ontario. The property is at the south edge of the Larder Lake Deformation zone.

This exploration program was intended to test lineaments that appear to be structurally controlled and possibly a source of gold mineralization. Two targets were selected and tested by MMI Soil sampling. The west target was successfully tested and three MMI responses established.

Deep organic soil was encountered over the east target. Valid MMI results were not rendered from this organic soil. A Cu-Mo-W anomaly was encountered in the first four samples north of the invalid samples. This multi-element anomaly verifies the validity of the original target. Three other MMI anomalies were identified north and south of the east target.

2.0 LOCATION AND ACCESS

The property locations referenced in this report and appendices are identified using Nad 83 UTM coordinates. The design origin of the grid is located at UTM coordinates 0557650mE, 5324700mN on NTS map sheet 42A/1.

To access the property proceed 14 km west from Kirkland Lake on Highway 66 to the intersection with Highway 11. From this intersection continue 4 km south on Highway 66 to the Eby West Road. Proceed 2 km west to the top of the hill. At this location, a forest access road proceeds north 2 km to within 100m of the grid origin. This forest access road proceeds north to the north claim line of the property.

3.0 THE PROPERTY

The property consists of eight claims totalling 16 claim units in North-west quarter of Eby Township (Plan M-0345) as follows:

Claim	units	Description
1199832	1	SE1/4 of S1/2 Lot 8, Con 5 Eby Tp.
1199848	1	SW1/4 of S1/2 Lot 8, Con 5 Eby Tp.
1199849	1	SE1/4 of S1/2 Lot 9, Con 5, Eby Tp.
1199850	1	SW1/4 of S1/2 Lot 9, Con 5, Eby Tp.
1199851	4	N1/2 of N1/2 Lot 8 Con 4 and N1/2 of N1/2 Lot 9 Con 4
1199852	2	N1/2 of N1/2 Lot 7, Con 4

1199854	2	N1/2 of N1/2 Lot 10, Con 4
1199853	4	N1/2 of S1/2 Lot 8, Con5 and N1/2 of S1/2 Lot 9 Con 5
Total	16	

4.0 PHYSIOGRAPHY AND VEGETATION

The property has moderate outcrop relief with jack pine, on the outcrop areas, poplar on dry flat areas, and black spruce and tamarack in wet and swampy areas. The wet black spruce and tamarack bush commonly form lineaments. Land at the south east part, south central part and northeast part of the property have been recently clear cut.

5.0 REGIONAL & PROPERTY GEOLOGY AND EXPLORATION HISTORY

The property is located within the broad Larder Lake - Cadillac Deformation Zone 12 km west-southwest of Kirkland Lake Gold's Macassa Mine workings.

The Larder Lake Cadillac Deformation Zone consists of a series of East-West trending deformation/fault/alteration zones and cross faults. 23,292,472 Troy ounces of gold were produced from nine mines along the Kirkland Lake break. The following table reports this production.

Tons	Grade	Troy Oz Au	Mines (on the Kirkland Lake Break)
6,496	0.07	483	Hudson Rand
3,140,283	0.37	1,172,955	Kirkland Lake
4,230	0.45	1,921	Kirkland Townsite
17,117,923	0.50	8,573,246	Lakeshore
6,305,835	**0.44**	**2,768,097**	**Macassa**
5,049,536	0.33	1,674,808	Sylvanite
9,565,302	0.38	3,709,007	Teck Hughes
1,186,316	0.48	570,659	Toburn
9,934,327	0.49	4,821,296	Wright Hargreaves
52,310,248	0.45	23,292,472	Troy Oz Au

The property is also located 2½ kilometres east-southeast of the Gateford (Golden Gate) Mine at Swastika.

Tons	Grade	Troy Oz Au	Mines (on the Kirkland Lake Break)
103,684	**0.29**	**30,068**	**Gateford (Swastika)** Also known as Golden Gate Mine

6.0 MMI SAMPLING PROGRAM

Planning, logistics, field work, data processing and report preparation were performed by and under the direction of Douglas Robinson, P. Eng and Qualified Person under National Instrument 43-101.

In Eby township and neighbouring Otto township the favourable gold style alteration occurs in lineaments marked by swamps and low lying ground. Two North-South line locations were selected to test east-west and east-northeast trending lineaments that match other lineaments that are known to host favourable alteration/structural patterns similar to those in the Kirkland Lake mining camp. One North-South line was selected at UTM 0557075 mE and the other at 0557650 mE. The priority target areas were **4700-5060N of line 7075E** and **4600-4800N of line 7650E**. The lines were designed to extend past the target areas. Line 7650E was designed to test background areas to 600 m outside the target areas to assure background values were tested. These background values were necessary to verify the validity of any anomalous MMI anomalies encountered.

December 16, 19 and 23rd , the property logistics and grid cutting was performed by this author. On December 28, 29 and 30th the grid was completed, the sampling performed and sample preparation was performed by this author and David Robinson.

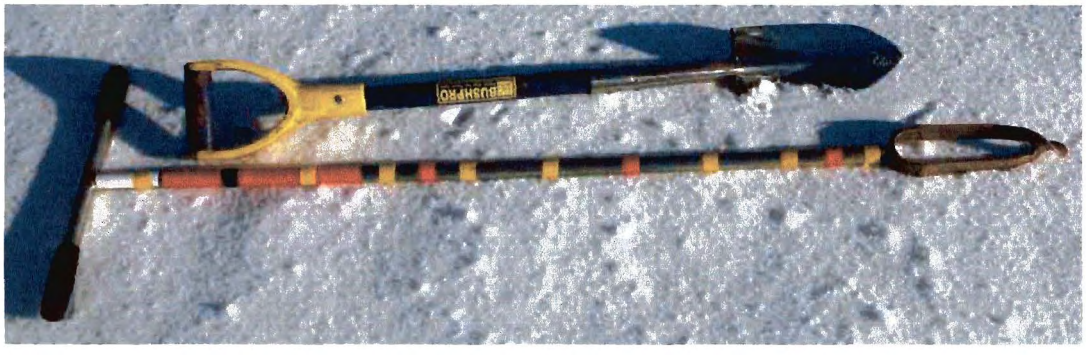
The field locations of these two lines were identified using a Garmin Rino GPS. The grid lines were laid out by compass, cut and picketed by the author. The lines were cut with pickets at 25 meter intervals.

Snow cover was light and posed no problems. Snow was shovelled and scraped to expose the ground. At sample sites having a deep organic soil profile, extra snow was moved to allow the auger handles to reach to ground level. Most locations were frost free. Where the soil was frozen, or frozen water was encountered, the crust was broken by shovel.

The soil sampling was performed using a tree planting shovel and a soil sampling auger. A short handled shovel was used for snow removal from the sample sites. The snow cover over the sample location was shovelled and scrapped exposing the soil. The sample sites were within a few meters of the picket locations, taking advantage of the lowest surface point. The sample holes were hand augered using the auger pictured below. The soil profile was augered in 10-15 cm increments until mineral soil was encountered. The upper 10 cm of mineral soil were discarded. The soil 10-25 cm below the top of the organic soil, mineral soil interface was collected,

described, then bagged in zip lock bags with a sample tag. Each bagged sample was left at its sample site and collected later in the day.

Sample Collecting Gear



A sample depth of 10-25 cm below the organic-mineral soil interface was selected. Some holes rendered insufficient sample. From these holes the auger was raised above the sample interval and an inclined hole or holes were then extended to produce an adequate sample weight. Some holes were deemed inappropriate and a second or third hole was augered to collect an appropriate sample. The most common problem encountered, was passing the optimal sample depth without collecting a sample.

Sample tags from the series 27001 to 27100 were used in the field. A single sample tag was placed with the sample in the bag. A felt pen was used to mark the sample number on each sample bag to back up the sample identification.

Many of the sample holes filled with water as the samples were being collected. Some of the holes had standing water at the soil surface. The samples were typically wet to very wet with some samples being fluid.

Mineral soil samples were collected 10-25 cm below the interface of organic soil. The organic soil was commonly reported as humus and the terms are used interchangeably in the reporting. The depth of organic soil was frequently a function of surface elevation more than elevation of humus-mineral soil interface. The lowest surface point was sampled to maximize the probability of recovering the desired mineral soil sample.

In the field, the samples were single bagged with zip lock, plastic bags. The bagged samples were rolled and sealed to eliminate most air. This was done to prevent air and water from venting, thus breaking seal during shipment from the field to the office and from the office to the laboratory. Water was decanted from the bagged samples and/or squeezed from the bagged samples. This was done at the time of collection and later during sample logging/sample preparation for shipping. The

seals generally functioned well, but did not consistently seal. Those samples in bags that did not seal well and very wet samples were double bagging for secure transport.

Field notes describing the samples and soil profiles were made at the sample sites. The sample notes were augmented during sample shipment preparation. Each bag was opened, examined, supplementally logged, water was decanted and squeezed from the sample (as required), the sample weighed and the sample double (occasionally triple) bagged for shipment. The compiled soil profile notes and sample notes are included in the appendices of this report. The samples were systematically packed in heavy cardboard boxes for shipping.

The sample tags in the original bags were in heavily damaged by mud and water. Sample tags from the series 27201 to 27300 were substituted for the field tags as recorded in the log notes included in this report. Only one tag was completely destroyed to the point of not being recoverable. The sample number was determined from the felt pen sample notation on the sample bag.

The samples were packed in shipping boxes, then sent to SGS by Purolator from Kirkland Lake.

Within the priority target area located at 4600-4800N of line 7650E; the depth of the organic soil at six sample sites exceeded the maximum depth achievable with the auger (120 cm). Organic samples were collected from the bottom of these six holes which are located between 4650 and 4712 inclusive. It was recognized these samples were not from the acceptable mineral soil horizon.

Subsequent sampling of line 7075E indicated this line had soil profiles similar to the deep organic soils over the primary target area of line 7650E. The sample sites consistently provided acceptable mineral soil samples beneath deep organic soil. A field decision was made to conduct an orientation survey to test both the mineral soil and overlying organic soil of this line to verify the confidence level to assign to the organic samples collected along Line 7650E. The sample books provided duplicate sample tags. The samples were collected and the duplicate tag was placed in the organic samples collected at the equivalent mineral soil sample site. The identification of the organic soil and mineral soil sample was easily done during sample preparation and logging.

The mineral soil sample and the organic soil samples at each site were assigned identical tags as they were collected. During subsequent sample preparation, and logging the samples types were identified and new unique sample number tags were assigned and the sample log included in this report records only the new numbers.

Both the original sample numbers and the assigned sample numbers are reported in the soil profile – sample description logs provided in this report.

The elements **Ag, Au, As, Ba, Cu, Mo, Rb, Sb, Te and W** were targeted as the primary elements of interest. The elements B, CO2, S and Se, although of significant interest were not included in the analysis package.

The MMI data was plotted as 1 cm =50 m profiles for a wide range of elements including Au, Ag, Cu, Mn, Cu, Zn, Pb, Mo, W, As, Ba, Sr, Ba, Sr, Ca, Rb, Ti, Al, U and Th. It was recognized that Ca, Ti, Al, U and Th are not recognized indicators of gold mineralization, but it was also recognized they might provide information on the validity of the MMI process, particularly relating to soil type, drainage and proximity to outcrop/soil depth. Each section distinguishes mineral soil and organic soils.

7.0 OBSERVATIONS AND RESULTS

General Soil Characteristics

Sample sites were within a few meters of the picket locations, taking advantage of the lowest surface point. The organic soil depth appears to be more a function of surface elevation than elevation of the surface of the mineral soil. Some organic samples were taken as deep as 120 cm. For deep organic samples, a sample depth of 100 cm was eventually deemed the practical limit to sample depth.

Field notes focused on the depth of the organic-mineral soil interface, sample depth and brief descriptions of the soil profile, all of which are included in the appendices of this report. Sand and silt were identified by visual observation and by feel. When rubbed gently between the thumb and fingers, sand was identified by a distinctly gritty texture and silt by a weak gritty texture. Clay and decomposed organics felt smooth, without texture. Some clay and highly decomposed organic samples were similar in general appearance, commonly breaking with a fine, rough surface texture perpendicular to the sample surface (no directional texture). Some highly compacted (dense) clay samples had strong cohesion, stretching and necking before breaking. Some clay profiles were black and possibly graded into organic soil. No evidence of varves were observed in the clays observed.

Some samples appeared to have mixed particle size. For example, some fine clay or silt samples with a smooth or weak gritty feeling had sand size granules that rolled when rubbed between the finger and thumb.

Sampling in dry summer conditions might render an apparent shift from clay to silt descriptions

MMI Observation and Anomalies

Six anomalies were identified, three high priority, one moderate priority and two low priority anomalies. These are tabulated in the chart below. Anomaly B is divided into B1 and B2 (both in the eastern high priority target area). B1 is the portion of the survey rendered invalid due to organic soils not responding to most of the significant pathfinder elements. Anomaly B2 is directly north of the invalid organic soil sample, and appears to be an anomaly truncated at the north edge of the invalid reading to the south.

Line 7650E

Moderate Priority	A	L7650E	4525 - 4550N	Cu-W-(Mo-As)	
			4525 - 4550N	Cu	3 samples
			4525N	W	I sample weak
			4525N	As	I sample weak
			4562N	Mo	I sample weak
High Priority	B1	L7650E	4650 - 4712N	Mo	6 organic samples
High Priority	B2	L7650E	4712 - 4750N	Cu-Mo-W	
			4712 - 4762N	Cu	4 samples
			4712 - 4750N	Mo	4 samples
			4712 - 4750N	W	3 samples
Moderate Priority	C	L7650E	4850 - 4887N	Cu	4 samples
Low Priority	D	L7650E	5050 - 5075N	W-As-(Mo)	
			5050 - 5075N	W	2 samples
			5050 - 5075N	(Mo)	1 sample (weak)

Line 7075E

High Priority	E	L7075E	4887 - 4912N	W-Mo-Cu	4887 - 4912N (4937Cu)
			4862 - 4912N	W	4 sample
			4887 - 4912N	Mo	3 samples
			4887 - 4937N	Cu	5 samples
High Priority	F	L7075E	5025N	Mo-W-Cu-(Ag)	
			5025N	Mo	1 sample
			5025N	W	1 sample

	5025N	Cu	1 sample
	5025N	(Ag)	1 sample elevated
Low Priority G L7075E	5087N	Au-(Mo)	1 sample
	5087N	Au	1 sample
	5087N	(Mo)	1 sample weak peak

Validity of Organic Soil Samples

The orientation data verified **Au, Ag, W**, and **Rb** MMI responses are not valid for organic soil samples. **The MMI analysis of these key pathfinder element was invalid for the prime targeted area at L7650 4650-4712N.**

The data is sufficient to verify MMI surveys of **Au, Ag, W**, and **Rb** are not valid for organic soil samples of the type tested on the by Eby West Property. **The MMI analysis of these key pathfinder element was invalid for the prime targeted area at L7650 4650-4712N.**

Molybdenum **(Mo)** appears to have a potentially valid response in organic soils that merits statistical follow up from a larger data set. A visual examination of the profile data of line 7075E indicates mineral soils and organic soils could have similar response ratios between anomalous and non-anomalous samples. Visual examination also indicates mineral soils may have statistically 5 to 10 times stronger Mo response than equivalent organic samples. These two apparent observations are not statistically proven, but merit follow up study if future work involves significant swampy terrain.

Uranium (**U**) may have a valid response in organic soils and would deserve follow up if looking for Uranium. Thorium appears to have a reverse response of uncertain significance. Uranium responses in this survey are valid targets for field mapping to identify intrusive rocks, particularly syenites that may impact placement of gold mineralization.

The metals barium (**Ba**) and strontium (**Sr**) may have a modest but useful correlation for equivalent organic soil and mineral soil samples. This possible correlation was not followed up.

The relative response of MMI organic soil and MMI mineral soil responses of zinc (**Zn**) and lead (**Pb**) appear irrational or possibly an inverse correlation with organic soils tending to higher overall average metal values.

Mn Impacts on MMI Metal Content

In traditional soil geochemistry, soils with high manganese (**Mn**) content are typically preferentially enriched in target metals and pathfinder elements. This enrichment cause false anomalies that require a statistical correction. No apparent

enrichment of metals was observed in the survey data. Statistical follow up might identify a reverse relationship exists between Mn and some metals.

Uranium Responses

Uranium (**U**) responses in this survey are valid targets for field mapping to identify intrusive rocks, particularly syenites that may impact placement of gold mineralization.

As and Soil Drainage/Outcrop areas.

Arsenic (**As**) appears to only have an MMI response in well drained soil in thin overburden. It is uncertain if this observation relates to the well drained soil or to very close proximity to the outcrop/sub-crop. Arsenic appears to not be of little value as a MMI prospecting tool.

8.0 RECOMMENDATIONS

Anomalies **B1-B2** a Cu-Mo-W anomaly at Line7650E from 4650 to 4750N, anomaly **E** a W-Mo-Cu anomaly located at Line 7075E from 4887 – 4912N and anomaly **F** an Mo-W-Cu anomaly at Line F 5025N are high priority anomalies that warrant drill holes based on the MMI survey and the apparent structural features hosting the anomalies.

An MMI surveys on 100 meter spaced lines at a 12.5 m interval is warranted using an auger with extension steel.

9.0 REFERENCES

MERQ-OGS

1983: Lithostratigraphic map of the Abitibi Subprovince; Ontario Geological Survey/Ministry de l'Energie et des Ressources, Quebec; 1:5000 000; catalogued as "Map 2484" in Ontario and "DV 83-16" in Quebec.

2000 Ayer, J.A., and Trowell, N.F. 2000. Geological compilation of the Kirkland Lake Area, Abitibi greenstone belt: Ontario Geological Survey, Preliminary Map P.3425, scale 1:100000.

2005: Ayer, J.A., Berger, B.R., Hall, L.A.F., Houle, M.G., Johns, G.W., Josey, S., Madon, Z., Rainsford, D., Trowell, N.F. and Vaillancourt, C. 2005. Geological compilation of the central Abitibi greenstone belt: Kapuskasing Structural Zone to the Quebec border; Ontario Geological Survey, Preliminary Map P.3565, scale 1:250000.

1972: Lovell H.L. Geology of the Eby and Otto area, District of Timiskaming, Ontario Ministry of Northern Development and Mines, Ontario Geological Survey Report 99

CERTIFICATE OF QUALIFICATIONS

I, Douglas Robinson, of 24 Victoria Avenue, Swastika, Ontario hereby certify that:

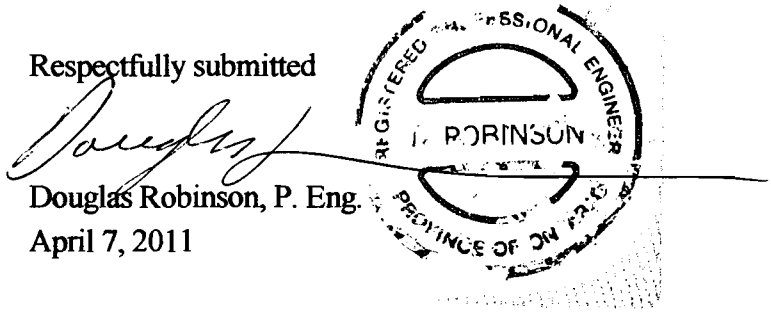
1. I am a registered professional Engineer of the province of Ontario, No. 39322011.

2. I am a graduate of Queen's University in Kingston Ontario with an Honours Bachelor of Science, Geological Engineering 1975, and
Northern College, School of Mines in Haileybury, Ontario, 1970.

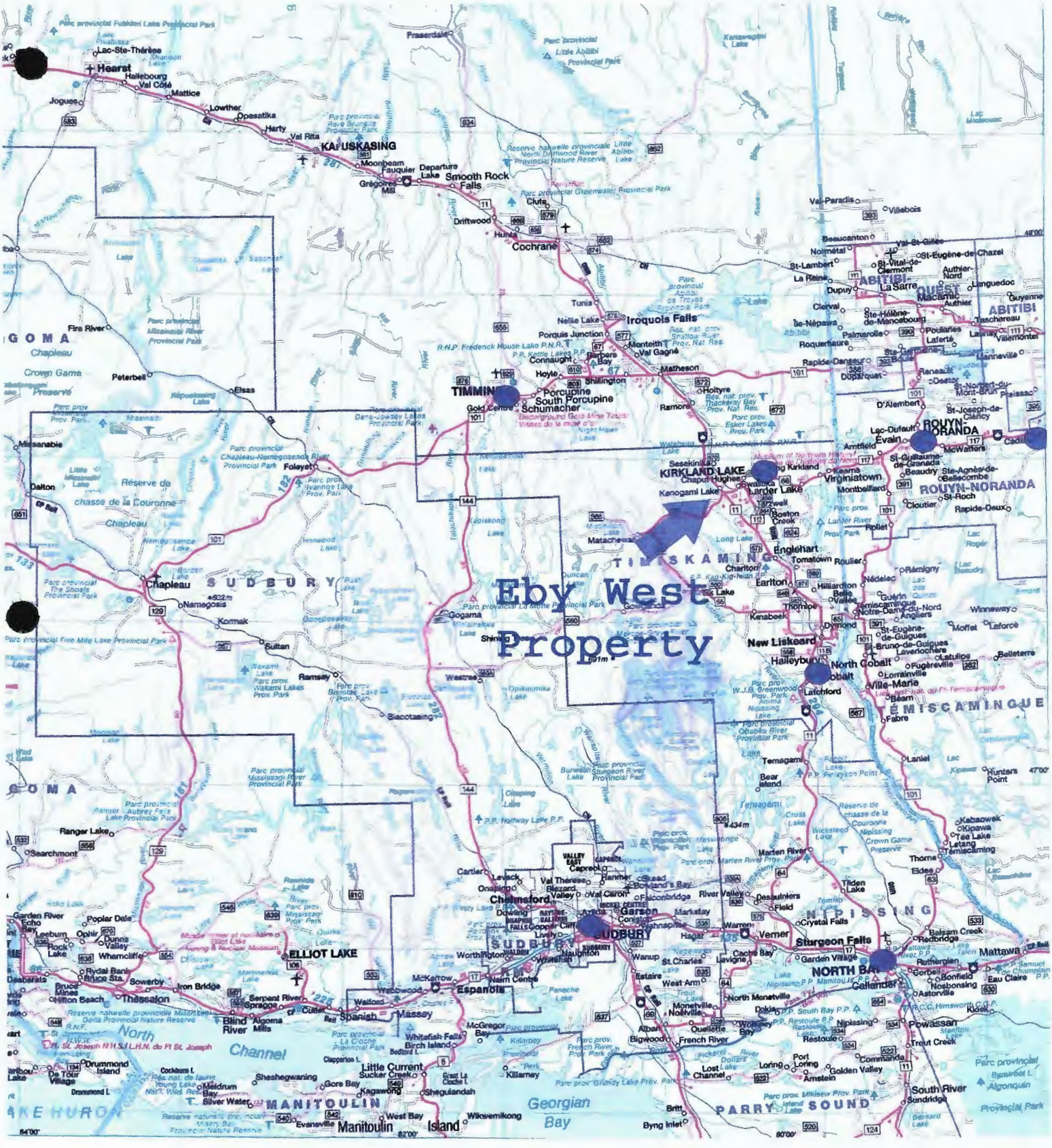
3. I have been practising my profession since graduation.

4. The information contained in this report is the result of work done by myself and the references cited.

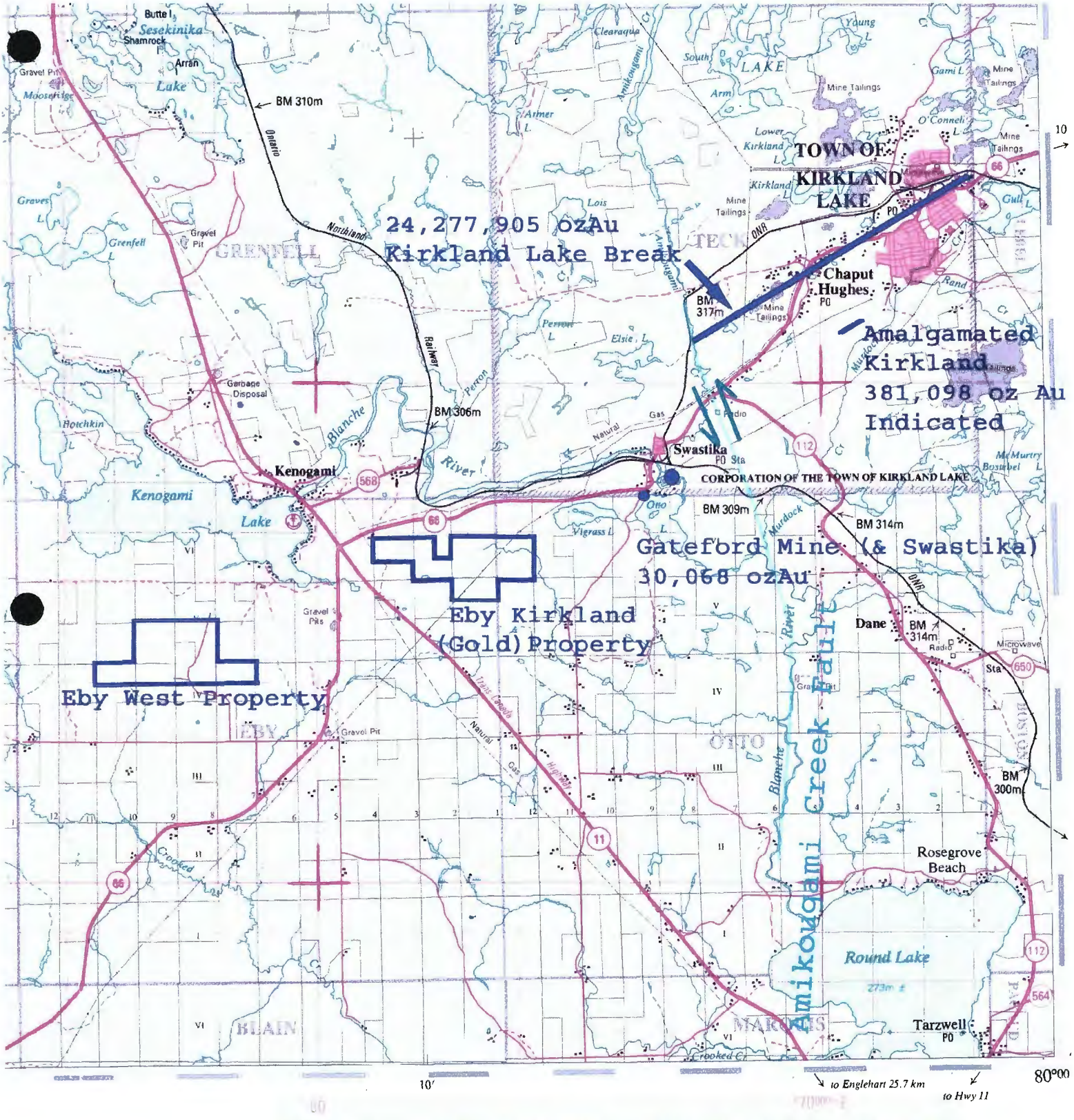
Respectfully submitted



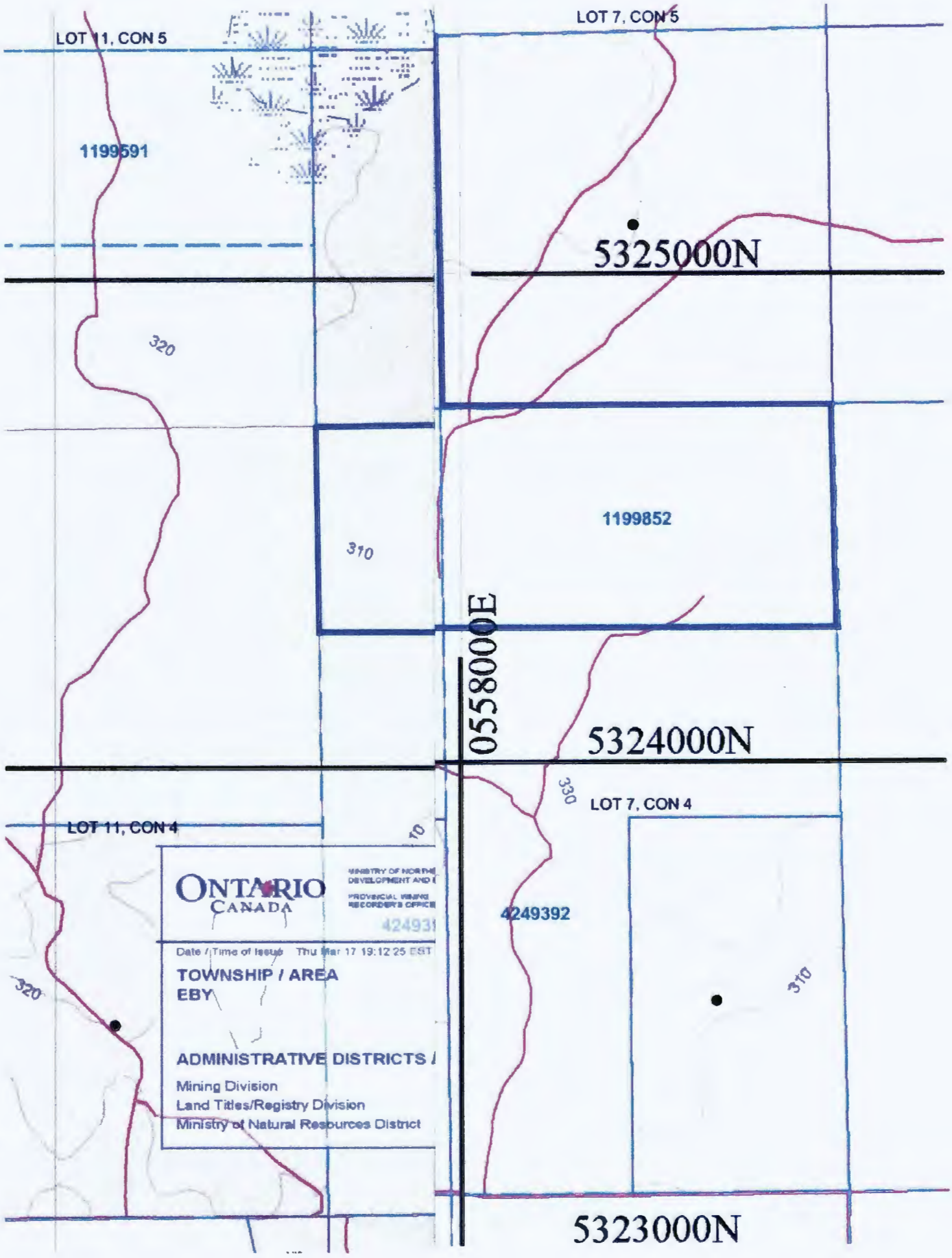
Douglas Robinson, P. Eng.
April 7, 2011

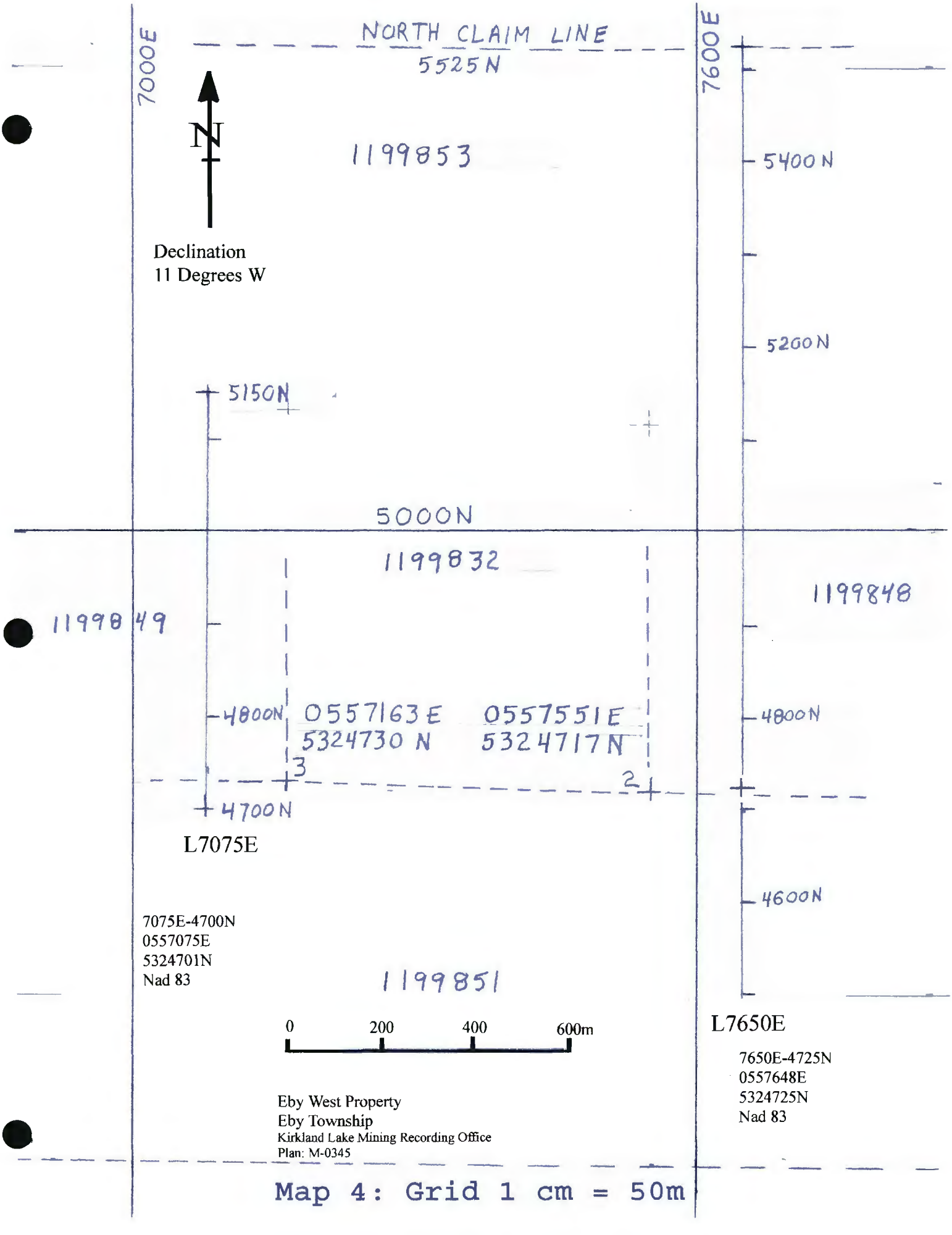


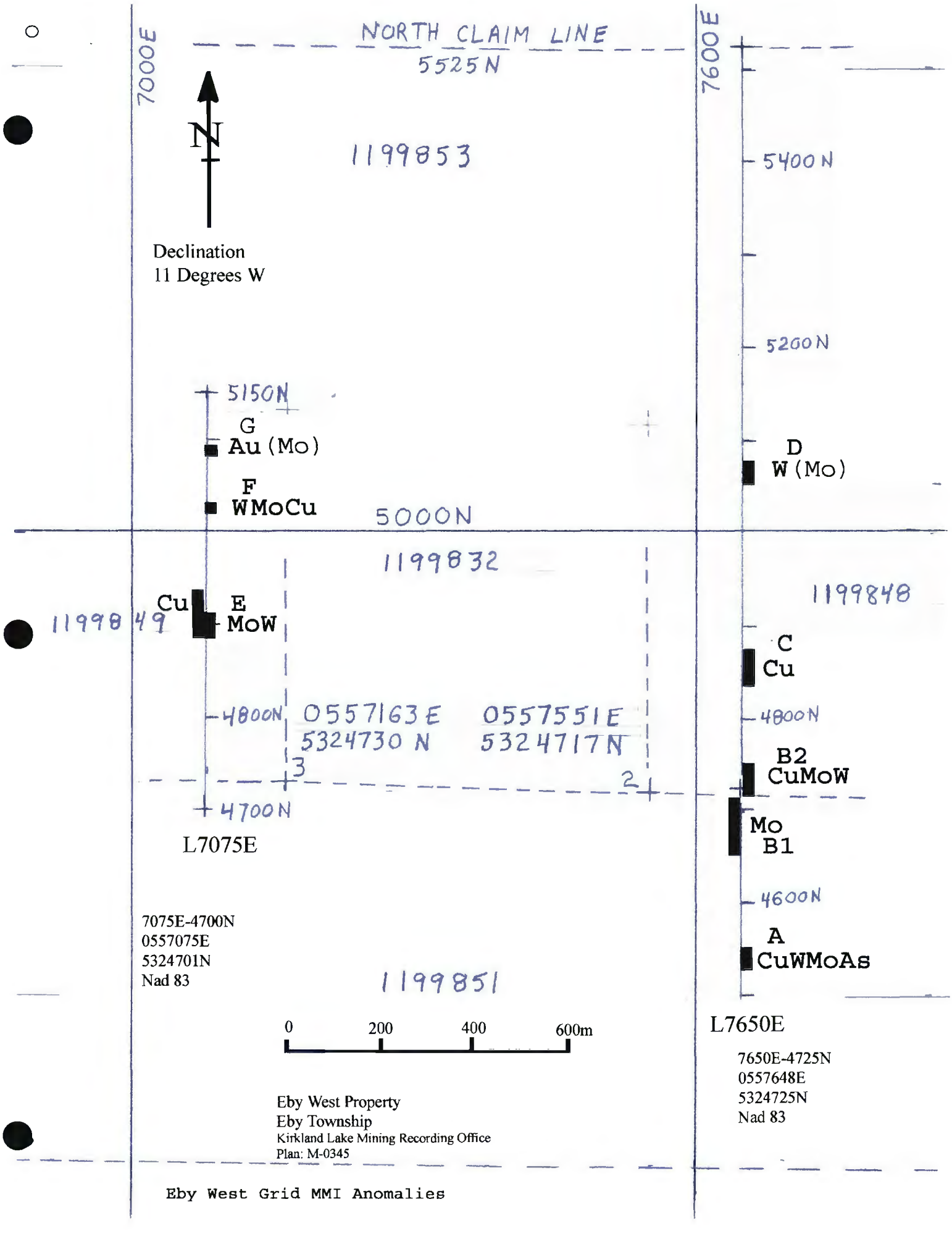
Map:1 Location - Access: Eby West Property



Map:2 Local Access - Production Detail


LOT 11, CON 5
LOT 7, CON 5
1199591
5325000N
320
1199852
310
0558000E
5324000N
330
LOT 7, CON 4
LOT 11, CON 4
10
ONTARIO
CANADA
4249392
320
310
TOWNSHIP / AREA
EBY
ADMINISTRATIVE DISTRICTS /
Mining Division
Land Titles/Registry Division
Ministry of Natural Resources District
5323000N


NORTH CLAIM LINE
5525N
7000E
7600E
N
1199853
5400N
5200N
Declination
11 Degrees W
5150N
5000N
1199832
1199849
1199848
4800N
0557163E
5324730N
0557551E
5324717N
3
2
4700N
L7075E
4800N
4600N
7075E-4700N
0557075E
5324701N
Nad 83
1199851
0
200
400
600m
L7650E
7650E-4725N
0557648E
5324725N
Nad 83
Eby West Property
Eby Township
Kirkland Lake Mining Recording Office
Plan: M-0345
Map 4: Grid 1 cm = 50m


NORTH CLAIM LINE
5525N
7000E
7600E
N
1199853
Declination
11 Degrees W
5400N
5200N
5150N
G
Au (Mo)
F
WMoCu
D
W (Mo)
5000N
1199832
1199848
1199849
Cu
E
MoW
C
Cu
4800N
0557163E
5324730 N
0557551E
5324717N
3
2
B2
CuMoW
4700N
Mo
B1
L7075E
4600N
A
CuWMoAs
7075E-4700N
0557075E
5324701N
Nad 83
1199851
0
200
400
600m
L7650E
7650E-4725N
0557648E
5324725N
Nad 83
Eby West Property
Eby Township
Kirkland Lake Mining Recording Office
Plan: M-0345
Eby West Grid MMI Anomalies

East Line (7650E)-4725 is UTM Nad 0557648 mE, 5324725 mN, elevation 324 by Garmin Rino GPS in averaging mode.
Line sampled from 4600N-5412N

	Old #	New #	Line #	Northing		Depth Organics	Mineral Sample		Organic Sample	Sample Grams	Soil Type	Sample Description
	27001	**27201**				cm.	cm.		cm.	Damp		No Sample. Used as cover
	27002	**27202**										No Sample. Used as cover
	27003	**27203**										No Sample. Used as cover
M	27004	**27204**	East	4600.0	N	0	0-15			438	Grey C	0-15 disturbed clay and silt with rock chips.
M	27005	**27205**	East	4612.5	N	0	20-35			598	Grey C	To 15 cm silt, 20-35 clay sample.. Possibly disturbed.
M	27006	**27206**	East	4625.0	N	0	15-30			351	Red B	Brown sand.
M	27007	**27207**	East	4637.5	N	10	20-35			414	Grey C	10 cm debris. Sample brown silt.
H	27008	**27208**	East	4650.0	N	70			50-70	526	Black A	Humus with un-decomposed fibre, very wet (sample above outcrop at 70 cm).
H	27009	**27209**	East	4662.5	N	110+			95-110	490	Black A	Humus with un-decomposed wood. Very wet
H	27010	**27210**	East	4675.0	N	110+			95-110	464	Black A	Humus with un-decomposed plant fibre. Very wet
H	27011	**27211**	East	4687.5	N	120+			105-120	311	Black A	Humus with un-decomposed plant fibre. Very wet
H	27012	**27212**	East	4700.0	N	100+			85-100	387	Black A	Humus with un-decomposed wood. Wet
H	27013	**27213**	East	4712.0	N	120+			105-120	195	Black A	Humus with un-decomposed plant fibre. Wet
M	27014	**27214**	East	4725.0	N	90+	75-90			344	Dark grey clay	Dark grey clay
M	27015	**27215**	East	4737.5	N	90	90-105			316	Medium grey clay	Medium grey clay
M	27016	**27216**	East	4750.0	N	60	70-85			234	Dark grey clay	Dark grey clay
M	27017	**27217**	East	4762.5	N	50	60-75			418	Medium grey clay	Dense medium grey clay
M	27018	**27218**	East	4775.0	N	20	30-45			355	Light grey	Light brownish grey clay. Transitional to silt?
M	27019	**27219**	East	**4580.0**	N	10	20-35			474	Grey C	Light brownish grey clay.

M	27020	**27220**	East	4562.5	N	10	20-35			593	Grey C	Light grey clay-silt with pebbles.
M	27021	**27221**	East	4550.0	N	20	30-45			448	Grey C	Dense light grey clay, silt and pebbles.
M	27022	**27222**	East	4532.0	N	30	45-60			505	Grey C	light grey clay, silt pebbles
M	27023	**27223**	East	4525.0	N	10	15-30			367	Light brown B	Light brown silt, sand pebbles. Very wet, soupy
M	27024	**27224**	East	4500.0	N	25	35-50			575	Grey C	Light grey clay. Dense
M	27025	**27225**	East	4800.0	N	10	20-35			535	Light brown B	Silt, sand pebbles and minor small roots. Sample taken 8 m N of forest access road (~~5 m east of line~~).
M	27026	**27226**	East	4812.5	N	10	20-35			511	Light brown B	Brown silt, sand and pebbles.
M	27027	**27227**	East	4825.0	N	30	40-55			711	Grey C	Silt, sand and pebbles. Very wet. Sample taken 5 m east of line.
M	27028	**27228**	East	4837.5	N	25	35-50			478	Grey C	Sand to gravel. Very wet. Balsam fir. Flat
M	27029	**27229**	East	4850.0	N	30	45-55			460	Light Grey C	Clay, silt and sand. Compacted, dense.. Balsam fir. Flat
M	27030	**27230**	East	4862.5	N	40	50-65			380	Light Grey C	Clay, not dense.. Balsam fir. Flat
M	27031	**27231**	East	4875.0	N	35	40-55			369	Light Grey C	Light grey clay. Moderately dense.
M	27032	**27232**	East	4887.5	N	25	35-50			443	Light Grey C	Grey silt. Very wet, soupy.,. Balsam fir
M	27033	**27233**	East	4900.0	N	20	30-45			498	light brown grey B	Silt, sand and angular pebbles. Very wet, soupy. Balsam fir.
M	27034	**27234**	East	4912.5	N	5	15-30			360	Medium brown B	Silt, sand and angular pebbles.. Very wet, soupy
M	27035	**27235**	East	4925.0	N	5	15-30			275	Medium brown B	Brown silt, minor sand.
M	27036	**27236**	East	4937.5	N	5	15-30			331	Medium brown B	Silt, sand and angular pebbles. Reforested Jack pine
M	27037	**27237**	East	4950.0	N	5	15-30			352	Pale yellow grey C	Silt, sand. Very wet, soupy. Reforested Jack pine
M	27038	**27238**	East	4975.0	N	5	15-30			392	Grey C	Silt, sand sub rounded pebbles.. Jack pine

M	27039	**27239**	East	5000.0	N	5	15-30			402	Medium brown B	Silt, sand and sub-rounded pebbles.
M	27040	**27240**	East	5025.0	N	5	15-30			310	Medium brown B	Silt, sand and angular pebbles. Reforested Jack pine
M	27041	**27241**	East	5050.0	N	0	10-25			343	Light brown B	Coarse sand and angular pebbles. At north edge of outcrop. Jack pine. Flat
M	27042	**27242**	East	**5078.0**	N	20	30-45			490	Light grey C	Compact clay, silt, sand sub-rounded pebbles. E-W forest access road at 5075. Jack pine .
M	27043	**27243**	East	5100.0	N	5	15-30			248	Medium red B	Silt and angular pebbles. Jack pine
M	27044	**27244**	East	5125.0	N	10	20-35			340	Dark red B	Sub-rounded pebbles, sand. Very wet. Jack pine
M	27045	**27245**	East	5150.0	N	5	15-30			195	Light brown B	Silt, fine sand and angular pebbles[. Jack pine
M	27046	**27246**	East	**5172.0**	N	0	0-10			386	Light grey brown B	Silt and angular pebbles. 10 m west of line
M	27047	**27247**	East	5200.0	N	5	15-30			213	Medium brown B	Silt and very fine sand.
M	No sample		East	5225.0	N							5225 no sample
M	27048	**27248**	East	5250.0	N	10	20-35			269	Medium brown B	Silt-sand and angular pebbles from among boulders.
M	27049	**27249**	East	5275.0	N	10	20-35			345	Dark brown B	Silt, sand and pebbles from base of hill (outcrop?).
M	27050	**27250**	East	5287.5	N	15	25-40			423	Medium grey C	Silt from among boulders
M	27051	**27251**	East	Not used	N							Samples 27051 & 052 not used to create cover to sample book
M	27052	**27252**	East	Not used	N							Samples 27051 & 052 not used to create cover to sample book
H	27053	**27253**	East	5300.0	N	50		35-50		174	Black A	Humus with un-decomposed organic fibre. Boulder and humus
M	27054	**27254**	East	5312.5	N	40	50-65			336	dark grey C	Dark grey clay? Very dense. Flat
M	27055	**27255**	East	5325.0	N	20	30-45			402	Medium grey C	Medium grey clay. Dense. Flat

M	27056	**27256**	East	5337.5	N	40	50-65			365	Medium grey C	Medium grey clay. Dense, putty like. Flat
M	27057	**27257**	East	5350.0	N	20	30-45			448	dark grey C	Dark grey clay. Dense putty like. Black spruce. Flat
H	27058	**27258**	East	5362.5	N	100+		85-100		233	Black A	Humus with minor un-decomposed organic fibre. Flat
M	27059	**27259**	East	5375.0	N	25	35-50			449	light grey C	Light grey clay, dense putty like. Black spruce. Flat.
M	27060	**27260**	East	5387.5	N	25	35-50			422	light grey C	Light grey clay, Dense. South edge of outcrop. Spruce black
M	27061	**27261**	East	5400.0	N	25	35-50			410	light grey C	Light grey clay, dense putty like. Tamarack, spruce black. Flat
M	27062	**27262**	East	5412.5	N	10	20-35			289	Light brown B	Pale brown silt and sand from boulders at south edge of outcrop. Jack pine

East Line (7650E)-5525N is UTM Nad 83 is 0557666mE, 5325523 mN by Garmin Rino GPS in averaging mode. Line sampled 4600N-5412N.

West Line (7075E)-4700N is UTM Nad 83, '0557075mE, 5324701,elevation 324m by Garmin Rino GPS in averaging mode. Line sampled 4725N-5200N.

	Old #	New #	Line #	Northing	Depth Organics	Mineral Sample	Organic Sample	Sample Grams	Soil Type	Sample Description
M	NA		West	4700.0	N					No Sample. Outcrop. Slope N.
M	NA		West	4712.5	N					No Sample. Outcrop. Slope NW
M	27063	**27263**	West	4725.0	N 5	15-30		433	Light brown B	Brown sand with sub-rounded pebbles[. Wet. Spruce, pine. Slope WNW
M	27064	**27264**	West	4737.5	N 10	20-25		308	light grey C	Light grey sand & angular pebbles. Black spruce. Slope SW
M	27065	**27265**	West	1750.0	N 10	20-35		351	light brownish grey C	Silt, sand and sub-rounded pebbles. Black spruce. Slope W
M	27066	**27266**	West	1762.5	N 10	20-35		290	Dark red B	Fine sand to sub-rounded pebbles. Black spruce. Slope WNW.
M	27067	**27267**	West	1775.0	N 10	20-35		332	Light greyish brown B	Fine sand. Black spruce. Slope WNW.
M	27068	**27268**	West	1787.5	N 10	20-35		364	light grey C	Silt, fine sand and & tiny angular pebbles from among boulders. Black spruce. Slope WNW.
M	27069	**27269**	West	4800.0	N 20	30-35		440	Medium red B	sand and small pebbles from among boulders. Bottom of slope. Slope flat
M	27070	**27270**	West	4812.5	N 25	35-50		485	light grey C	Clay, dense. Black spruce. Flat
H	NA	**27170**		4812.5	N		10-25	255	Dark brown A	Much un-decomposed organic fibre with plus humus.
M	27071	**27271**	West	4825.0	N 30	40-55		519	light grey C	Clay, dense. Black spruce, tamarack. Slope flat.
H	NA	**27171**		4825.0	N		5-20	168		Humus with much un-decomposed organic fibre. Drained /wet weight =168/267.
M	27072	**27272**	West	4837.5	N 35	45-60		426	dark grey C	Dark grey clay? With minor un-decomposed organic. Has consistency of clay but less compact than normal . Black spruce, tamarack. Flat.

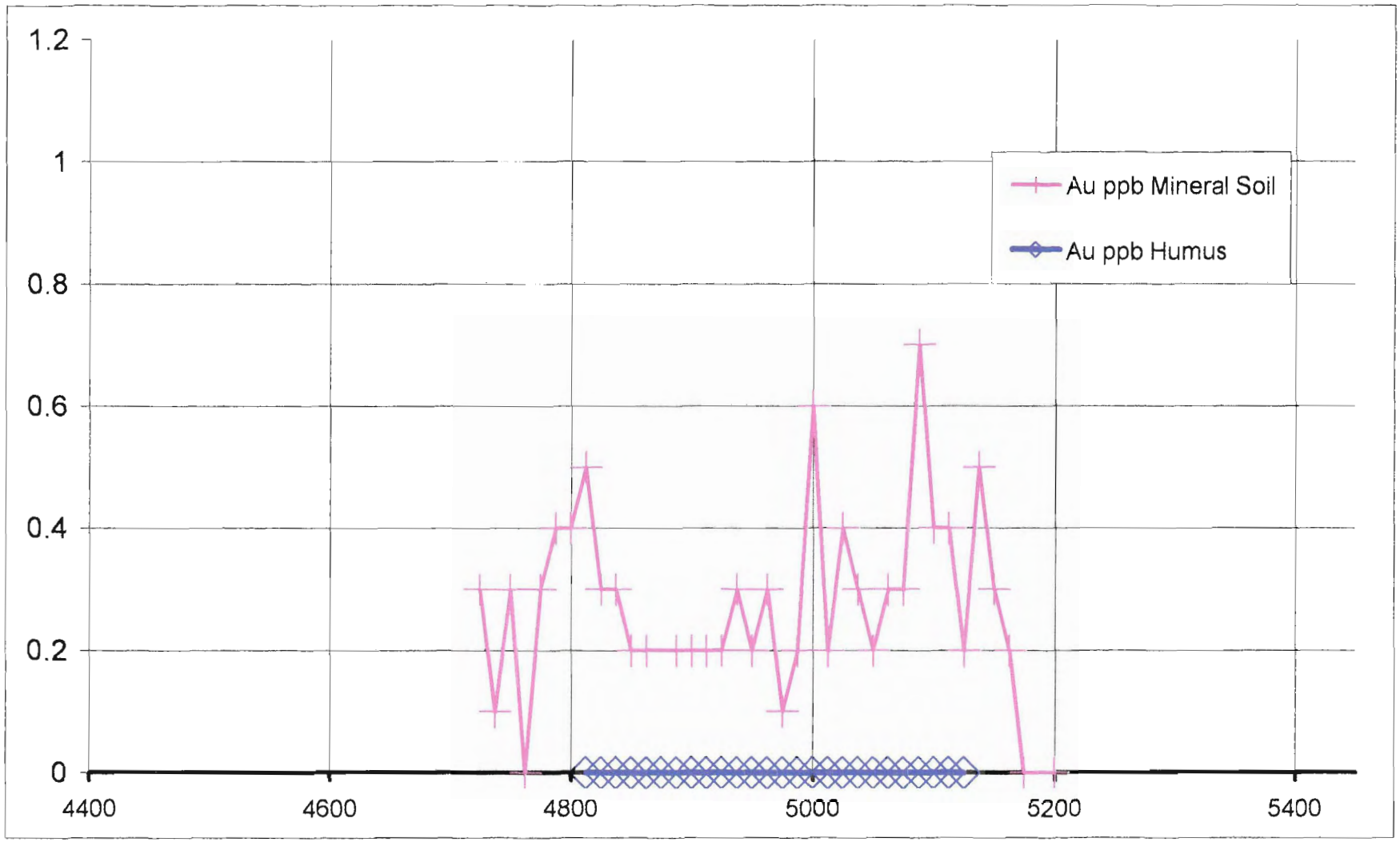
H	NA	**27172**		4837.5	N			10-25	319	Very dark brown A	Humus with un-decomposed organic fibre and wood. Very wet. High humus content prevented decantation of water. 299/319
M	27073	**27273**	West	4850.0	N	25	35-50		360	dark grey C	Dark grey clay? With minor un-decomposed organic. Has consistency of clay but less compact than normal . Black spruce, tamarack. Flat.
H	NA	**27173**		4850.0	N			5-20	381	Black A	**Humus with un-decomposed organic fibre**
M	27074	**27274**	West	4862.5	N	70	80-95	45-60	328	dark grey C	Dark grey compact humus? with significant un-decomposed organic. Has consistency of clay but less compact than normal . Black spruce, tamarack. Flat
H	NA	**27174**		4862.5	N			**45-60**	**280**	**Black A**	**Humus with much un-decomposed organic fibre, dense packed with earthy break and wood. Very wet. High humus content prevented decantation of water.**
H	27075	**27275**	West	4875.0	N	105+		95-110	354	Black A	Dense humus with much un-decomposed organic fibre. Logged as clay during sampling. Black spruce, tamarack. Much humus with un-decomposed organic fibre. Flat
H	NA	**27175**		4875.0	N			80-95	263	Black A	Humus with un-decomposed organic fibre
M	27076	**27276**	West	4887.5	N	75	85-100	50-65	555	light grey C	Clay, wet putty like. . Black spruce, tamarack Flat.
H	NA	**27176**		4887.5	N			50-65	502	Black A	Humus with un-decomposed organic fibre
M	27077	**27277**	West	4900.0	N	80	90-105		339	Medium grey C	Clay, putty like. Black spruce, tamarack. Flat.
H	NA	**27177**		4900.0	N			55-70	452	Black A	Humus with un-decomposed organic fibre and wood.
M	27078	**27278**	West	4912.5	N	80	90-105		463	Medium grey C	Clay, putty like. Black spruce, tamarack. Flat.
H	NA	**27178**		4912.5	N			55-70	406	Black A	Humus with modest un-decomposed organic fibre and wood.
M	27079	**27279**	West	4925.0	N	50	60-75		525	Medium grey C	Clay, putty like. Black spruce, tamarack. Flat.
H	NA	**27179**		4925.0	N			40-50	282	Black A	Humus with modest un-decomposed organic fibre.
M	27080	**27280**	West	4937.5	N	40	50-65		423	Medium grey C	Clay, putty like, no sand felt. Black spruce, tamarack. Flat.
H	NA	**27180**		4937.5	N			25-40	481	Black A	Humus with un-decomposed organic fibre. Wet but not decantable.

M	27081	**27281**	West	4950.0	N	55	65-80		523	Medium brown C	Clay with 0.5 mm sand grains. Black spruce, tamarack. Flat.
H	NA	**27181**		4950.0	N			35-50	274	Black A	Humus with un-decomposed organic fibre and wood chips. Very wet. Not able to decant water
M	27082	**27282**	West	4962.5	N	35	45-50		369	Medium grey C	Clay, putty like. Black spruce, tamarack. Flat.
H	NA	**27182**		4962.5	N			20-35	292	Black A	Humus with un-decomposed organic fibre. Decanted weight/original weight = 292/369 g.
M	27083	**27283**	West	4975.0	N	45	55-70		410	Dark grey C	Clay, putty like (with minor fine sand felt?). Black spruce, tamarack. Flat.
H	NA	**27183**		4975.0	N			25-40	276	Black A	Humus with un-decomposed organic fibre and wood chips. Decanted weight/original weight = 230/276 g.
M	27084	**27284**	West	4987.5	N	55	65-80		414	Medium grey C	Clay, putty like, no sand felt. Black spruce, tamarack. Flat.
H	NA	**27184**		4987.5	N			35-50	410	Black A	Humus with un-decomposed organic fibre. Wet but not decantable.
M	27085	**27285**	West	5000.0	N	50	60-75		333	Dark grey C	Clay, putty like with fine grit felt. Black spruce, tamarack. Flat.
H	NA	**27185**		5000.0	N			35-50	274	Black A	Humus with un-decomposed organic fibre.
M	27086	**27286**	West	5012.5	N	50	60-75		446	Dark grey C	Clay, putty like, extremely fine grit felt. Black spruce, tamarack. Flat..
H	NA	**27186**		5012.5	N			35-50	446	Black A	Humus with un-decomposed organic fibre. Wet but not decantable. Triple bagged.
M	27087	**27287**	West	5025.0	N	70	70-80		427	Dark grey C	Clay, putty like, no grit felt. Black spruce, tamarack Flat.
H	NA	**27187**		5025.0	N			40-55	124	Black A	124/301, still too wet after decanting water. Quadruple bagged with paper towels added.
M	27088	**27288**	West	5037.5	N	55	65-80		509	light yellow grey C	Clay, very dense with extremely fine grit felt. Black spruce, tamarack. Flat.
H	NA	**27188**		5037.5	N			35-50	326	Black A	Humus with un-decomposed organic fibre and wood chips. Decanted weight/original weight = 326/351g.
M	27089	**27289**	West	5050.0	N	35	45-60		438	light yellow grey C	Clay, very dense with extremely fine grit felt. Black spruce, tamarack. Flat.

H	NA	**27189**		5050.0	N			20-35	254	Black A	Humus with un-decomposed organic fibre and wood chips.
M	27090	**27290**	West	5062.5	N	**35**	45-65		390	C	**NB anomalous profile. 0-20 humus, 20-27 clay, 27-35 hard packed humus 45-65 clay. Sample very dense, dark grey clay, no grit felt but by hand lens appears to have minor extremely fine silt/sand component defined by tiny reflections. Black spruce, tamarack. Flat.**
H	NA	**27190**		5062.5	N			27-35	260	Black A	Humus with un-decomposed organic fibre.
M	27091	**27291**	West	5075.0	N	40	50-65		484	Medium grey C	Clay, very dense with extremely fine grit felt. Black spruce, tamarack. Some notes illegible. Flat.
H	NA	**27191**		5075.0	N			'20-35	348	Black A	Un-decomposed organic fibre and humus..
M	27092	**27292**	West	5087.5	N	25	35-50		516	Light grey C	Clay, very dense, possibly fine minor grit felt. Black spruce, tamarack. Flat.
H	NA	**27192**		5087.5	N			15-25	311	Black A	Humus with un-decomposed organic fibre. More un-decomposed organic fibre than normal, but <50%.
M	27093	**27293**	West	5100.0	N	25	35-50		443	Light grey C	Clay, dense with fine minor grit felt. Black spruce, tamarack. Flat.
H	NA	**27193**		5100.0	N			10-25	311	Black A	Humus with un-decomposed organic fibre and wood chips. Decanted weight/original weight = 311/352 g.
M	27094	**27294**	West	5112.5	N	40	50-75		414	Light grey C	Sample Light grey clay, dense, no grit felt. (40-50cm black clay). Black spruce, tamarack
H	NA	**27194**		5112.5	N			25-40	358	Black A	Humus with un-decomposed organic fibre. More un-decomposed organic fibre than normal, but <50%.
M	27095	**27295**	West	5125.0	N	15	25-40		466	Medium grey C	Clay, putty like, necks when pulled, trace fine grit felt. (15-25 black clay). Black spruce, tamarack. Flat.
H	NA	**27195**		5125.0	N			0-15	412	Black A	Humus with un-decomposed roots (and possibly branches. Humus >50%. 412/466 g.
M	27096	**27296**	West	5137.5	N	10	25-40		411	Light grey C	Clay with minor, distinct fine sandy grit felt. Flat.
M	27097	**27297**	West	5150.0	N	5	15-30		293	Light grey C	Clay, silt with distinct very fine grit felt. Dense with earthy break.
M	27098	**27298**	West	5162.5	N	5	15-30		429	Light to medium red B	Silt, to coarse sand with angular pebbles to sub-rounded pebbles. Loose soil. Black spruce. Slope S.

	Old #	New #	E-W	Northing	Depth Organi	Mineral Soil	Organic Soil	Sample Grams	Soil Type	Sample Description
M	27099	**27299**	West	5175.0	N 10	20-25		336	Medium red B	Fine to coarse sand with <5% sub-rounded pebbles. Black spruce. Slope S.
M	27100	**27300**	West	5200.0	N 10	20-35		269	Medium red B	Fine to coarse sand with <5% sub-rounded pebbles. Small roots in sample. Black spruce. Slope S.

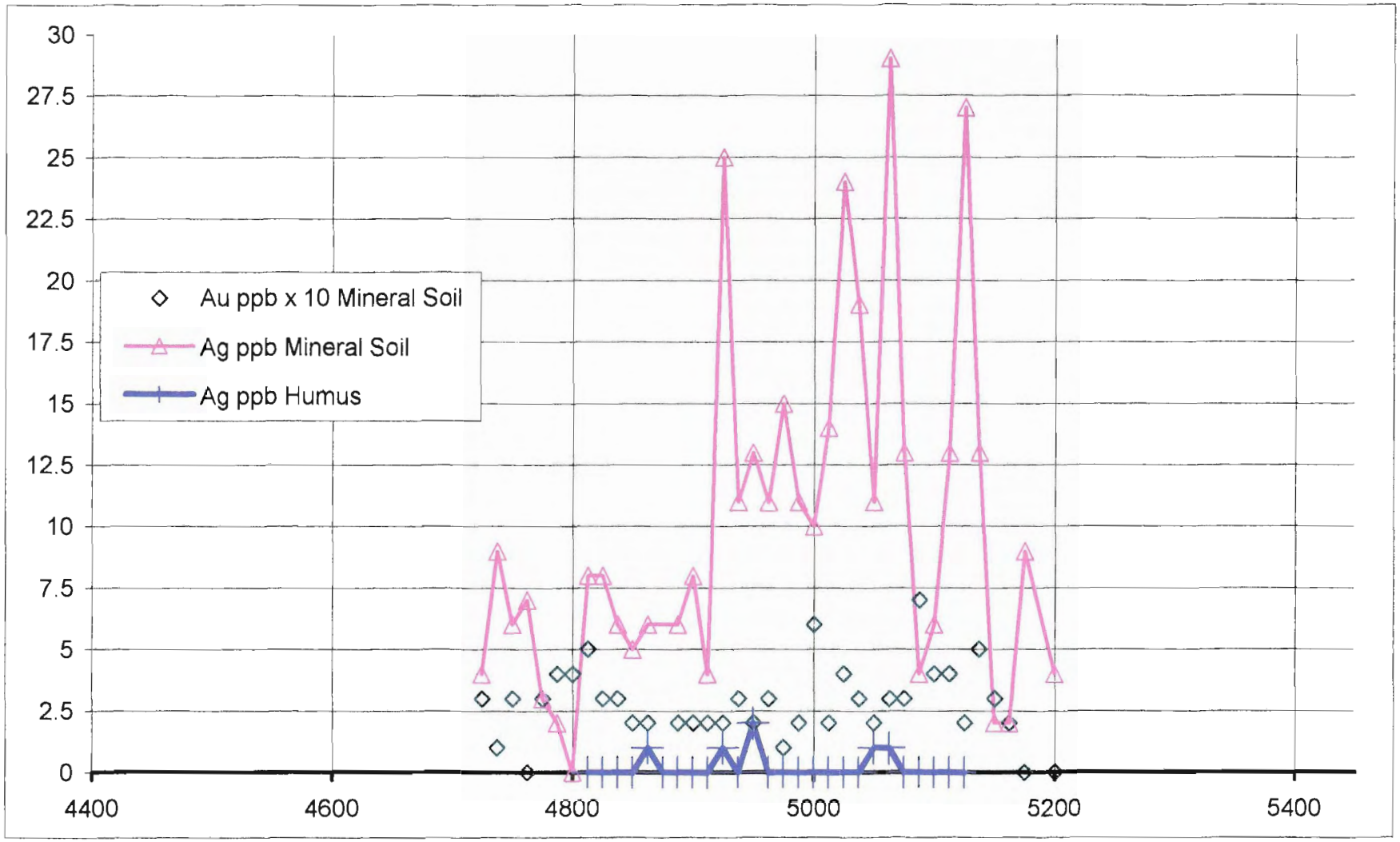
West Line (7075E)-5150N is UTM Nad 83, 0557080 mE, 5325150 mN, elevation 320m by Garmin Rino GPS in averaging mode. Line sampled 4725N-5200N.



Eby West Property: Eby Tp in Northeastern Ontario

West Line (0557075E)

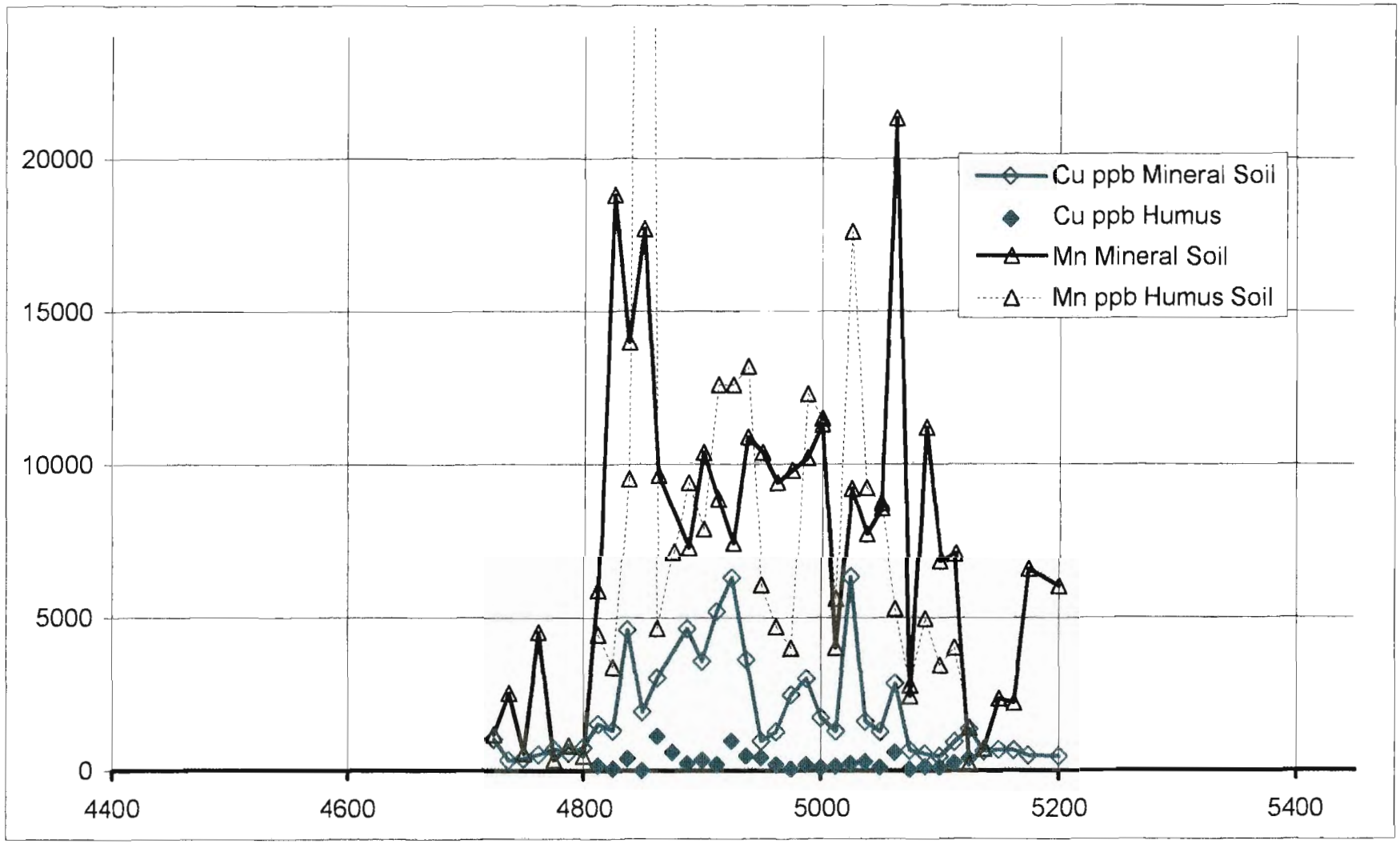
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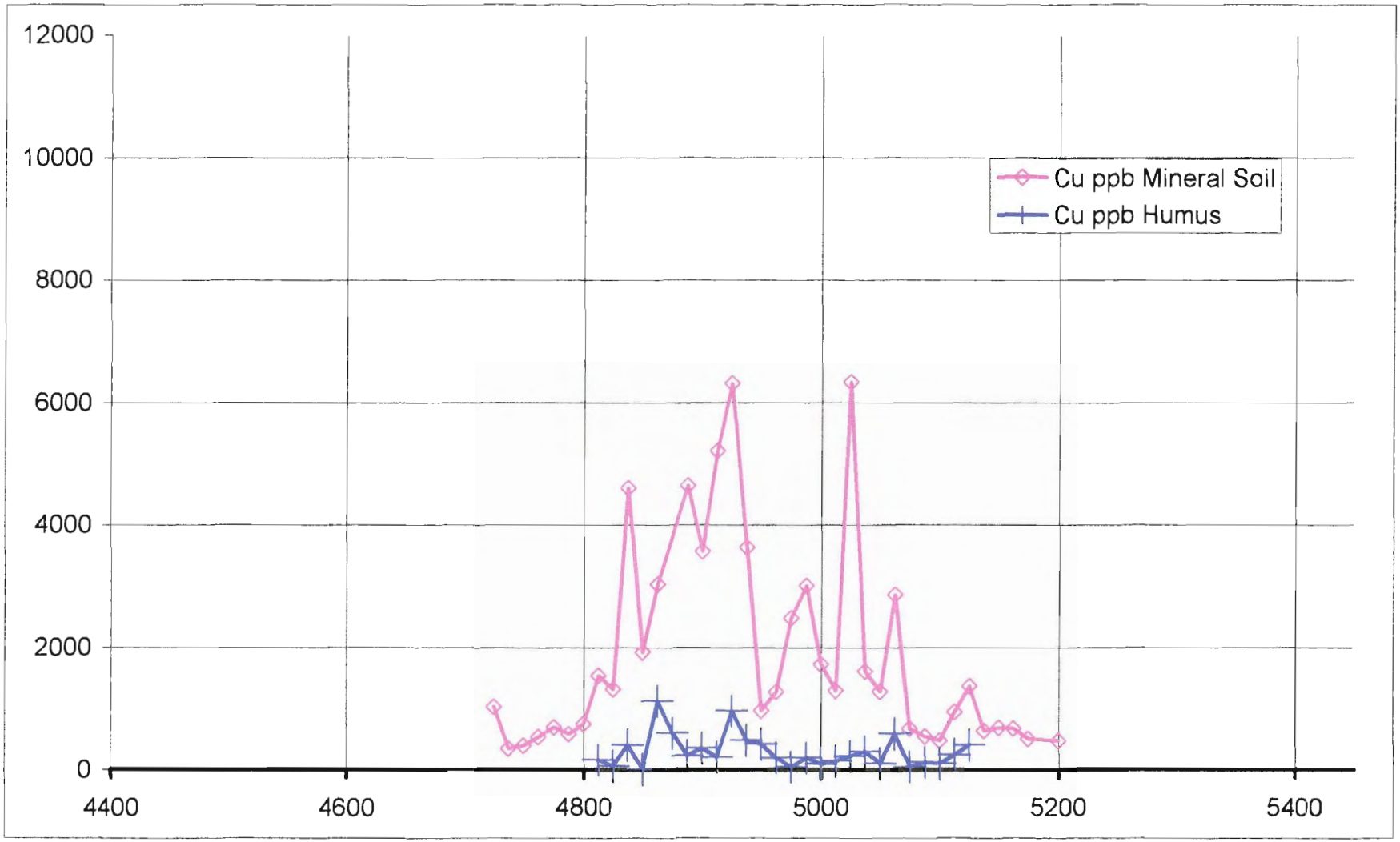
Eby West Property: Eby Tp in Northeastern Ontario

West Line (0557075E)

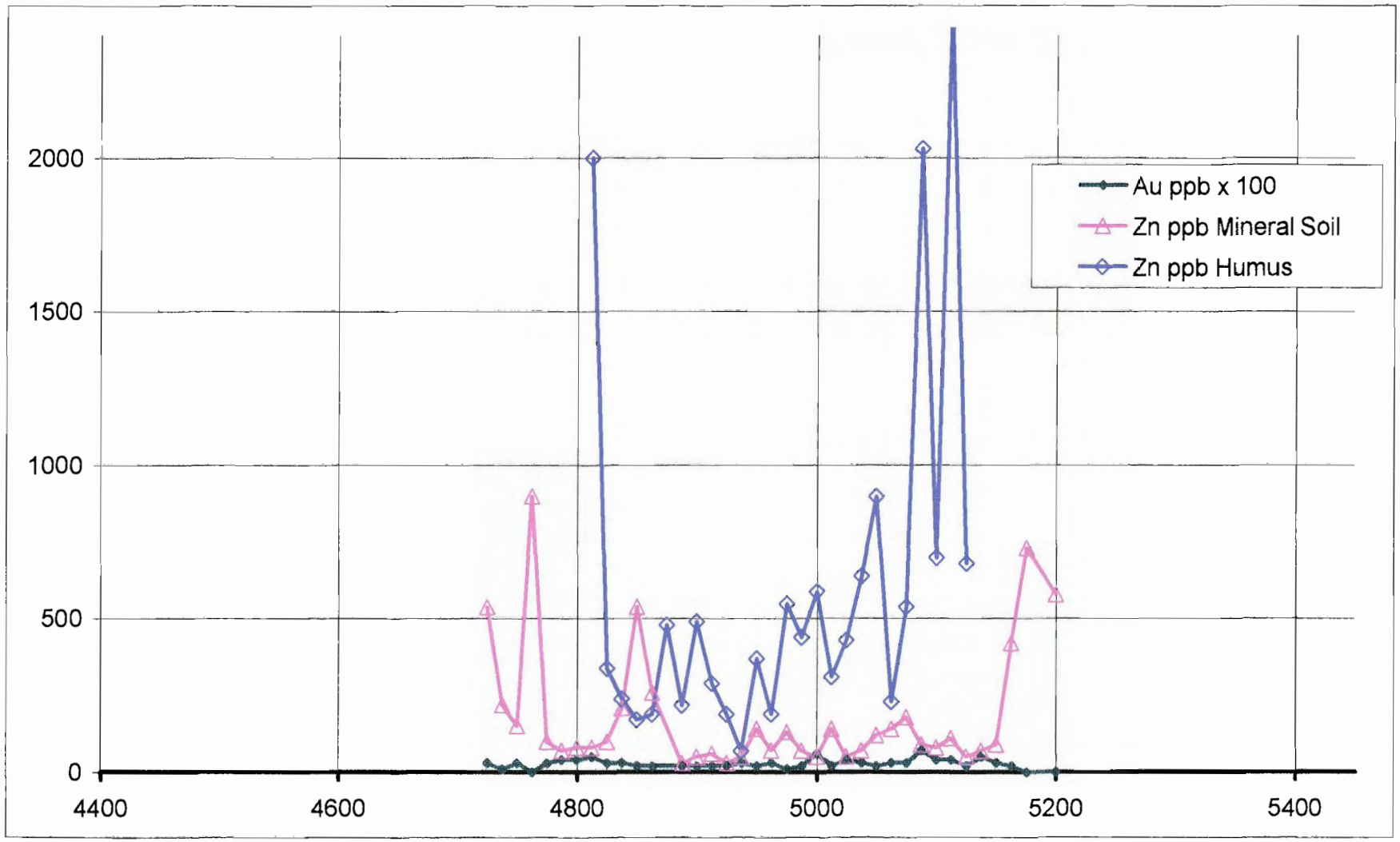
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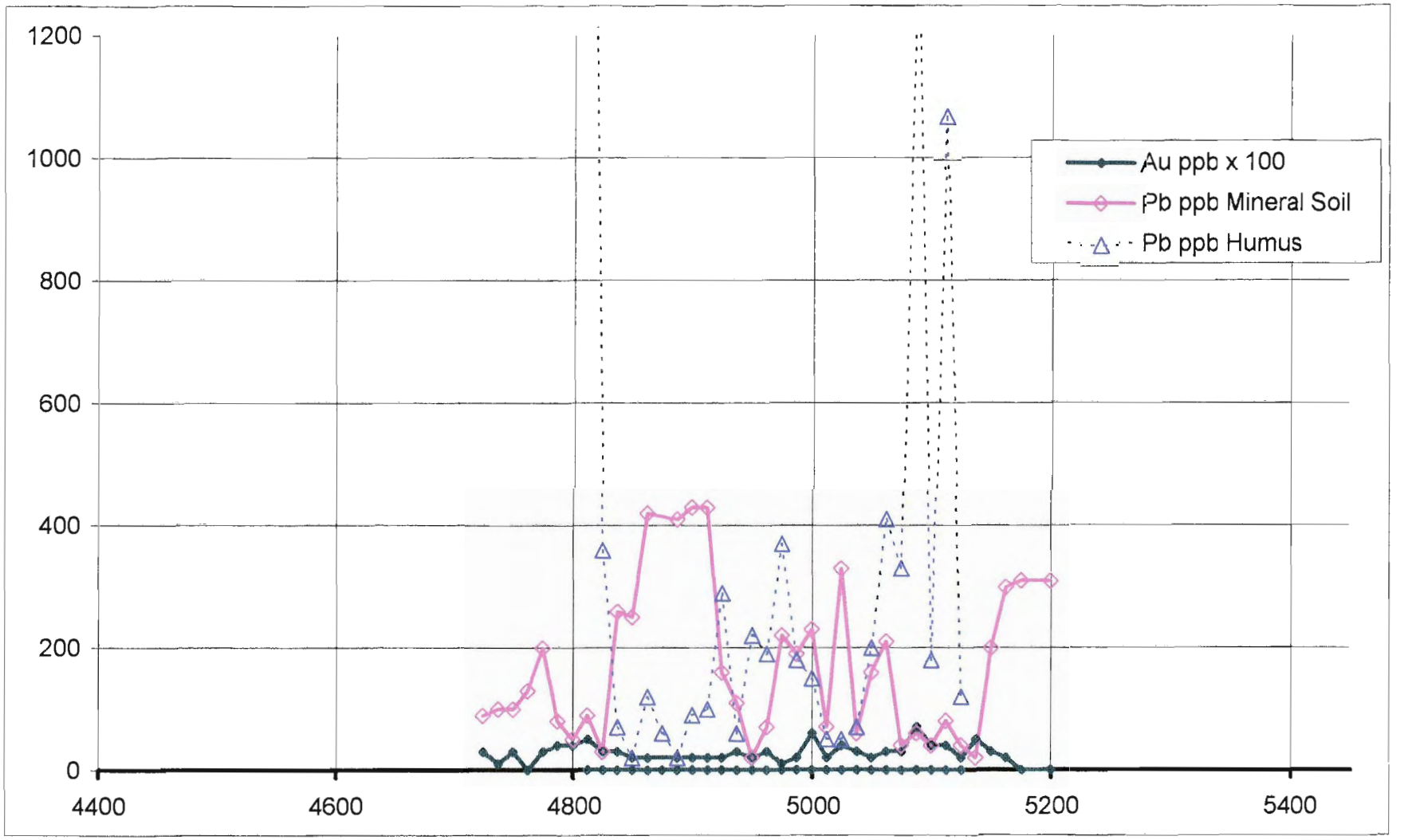
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



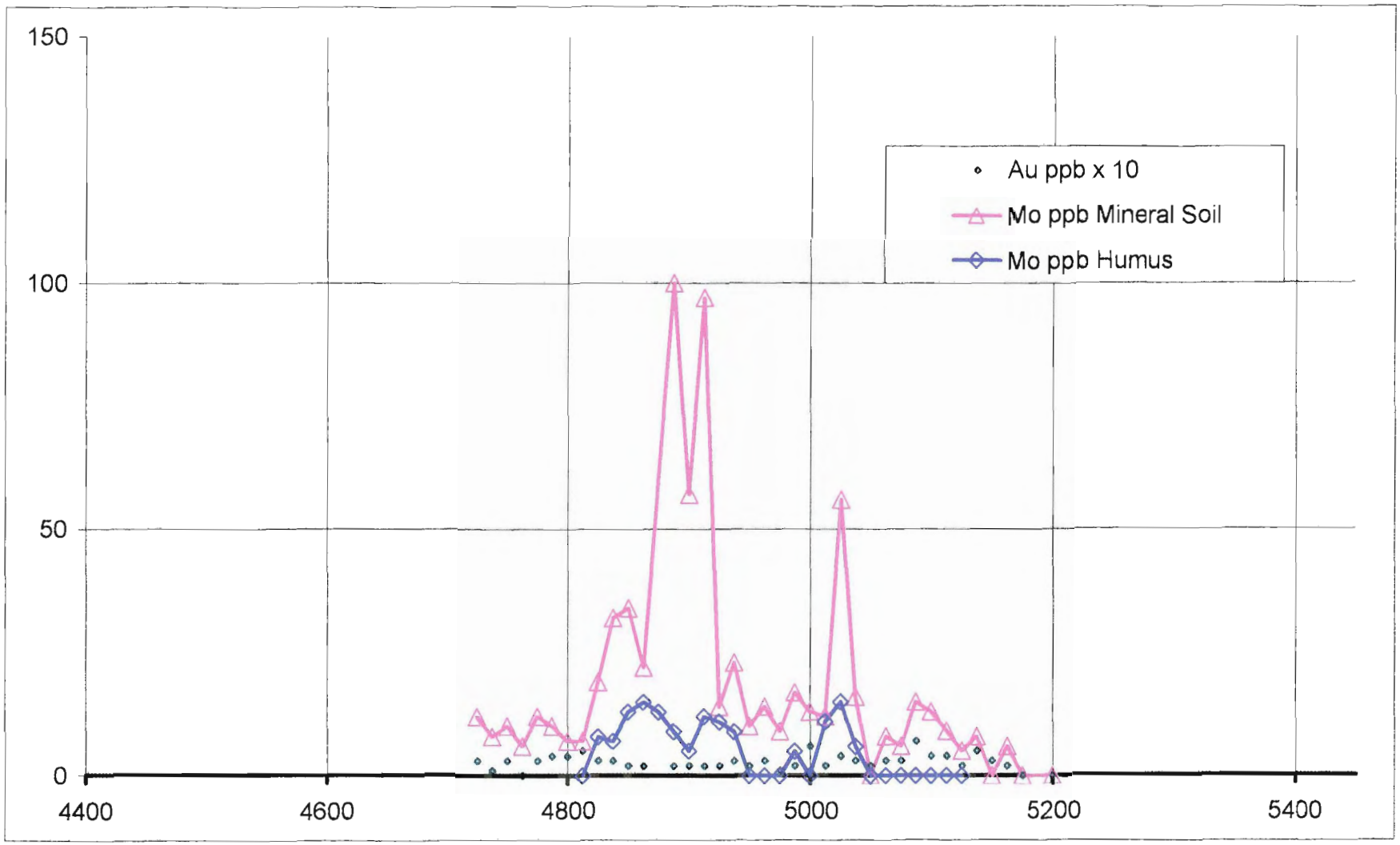
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



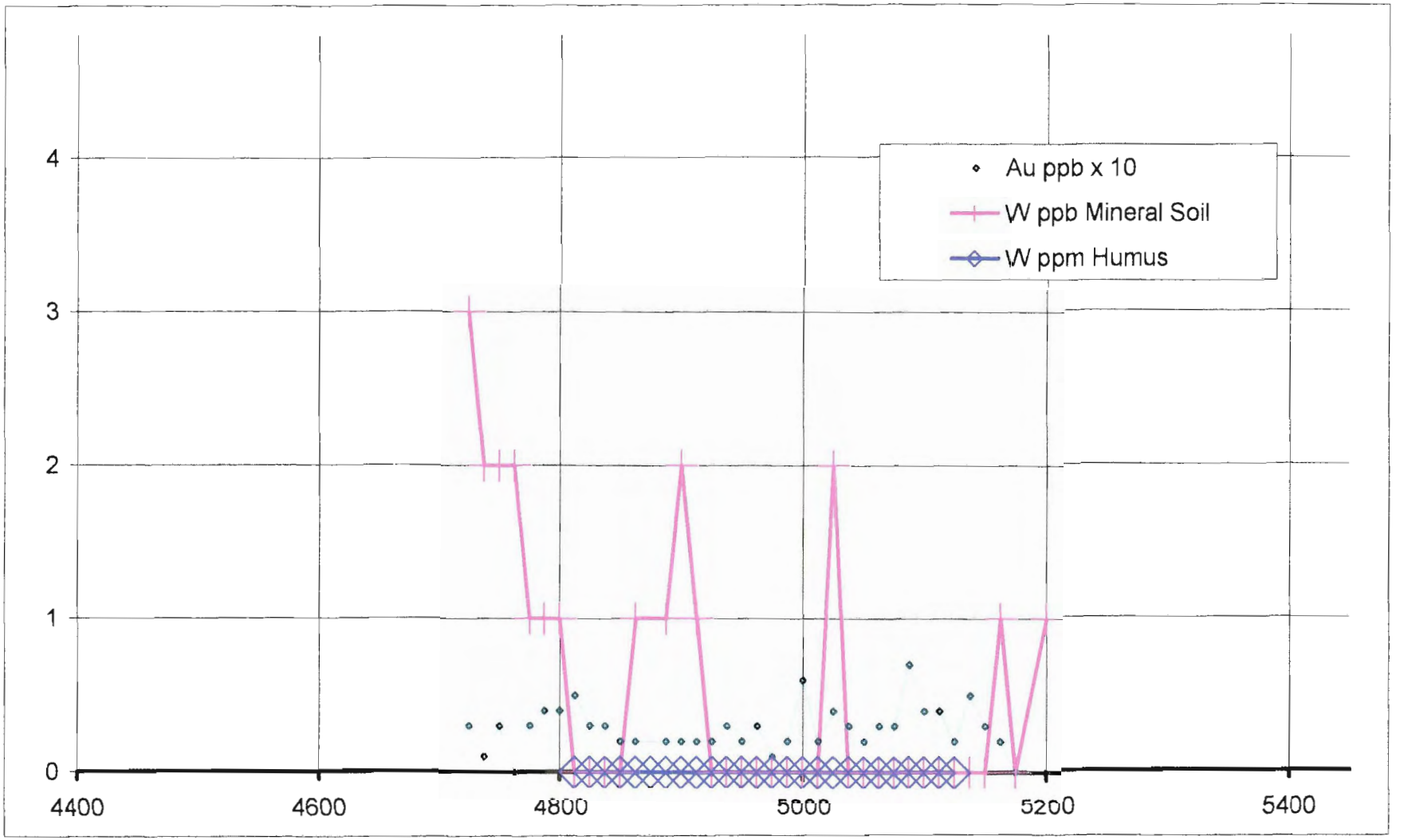
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



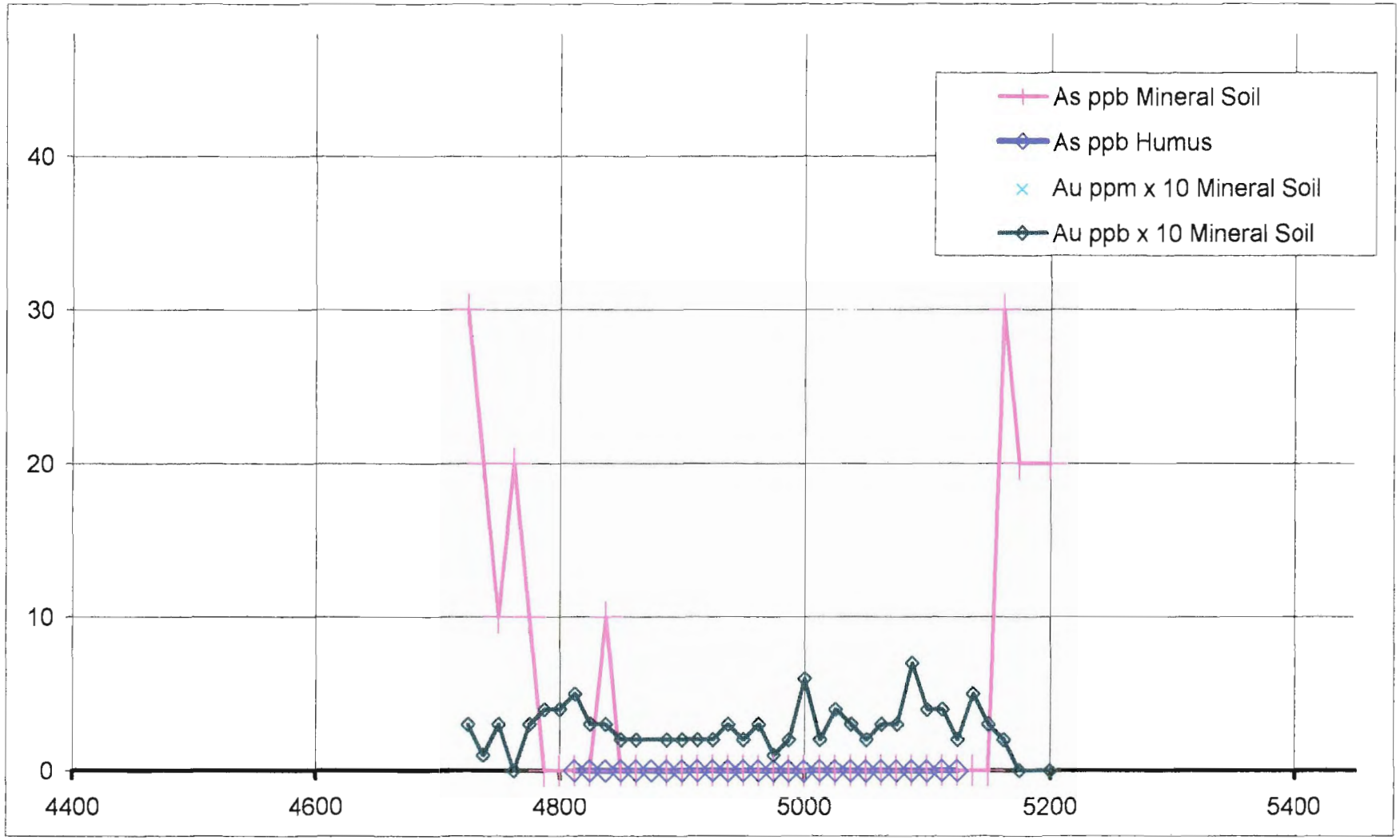
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557080E)
1 cm = 50m



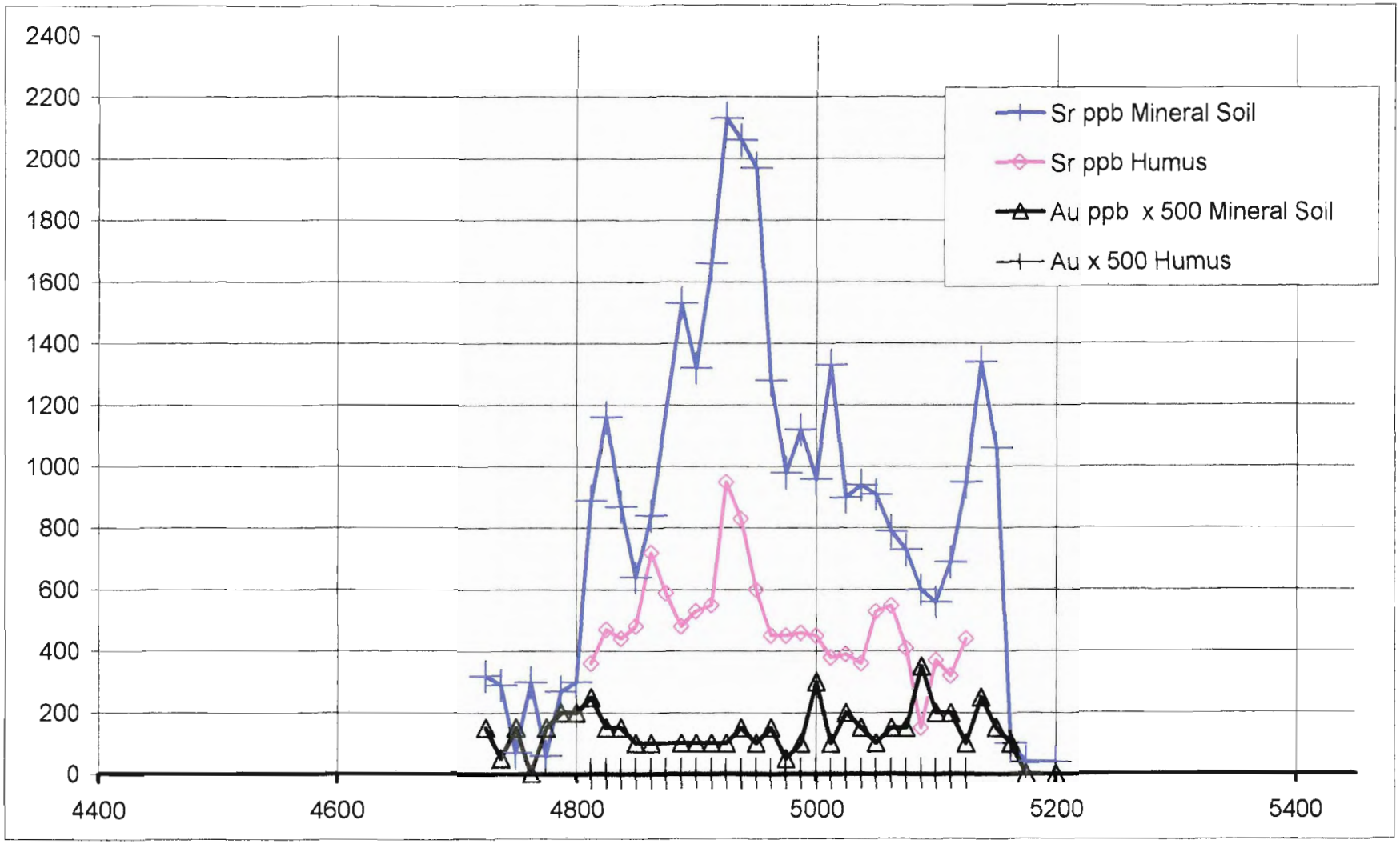
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



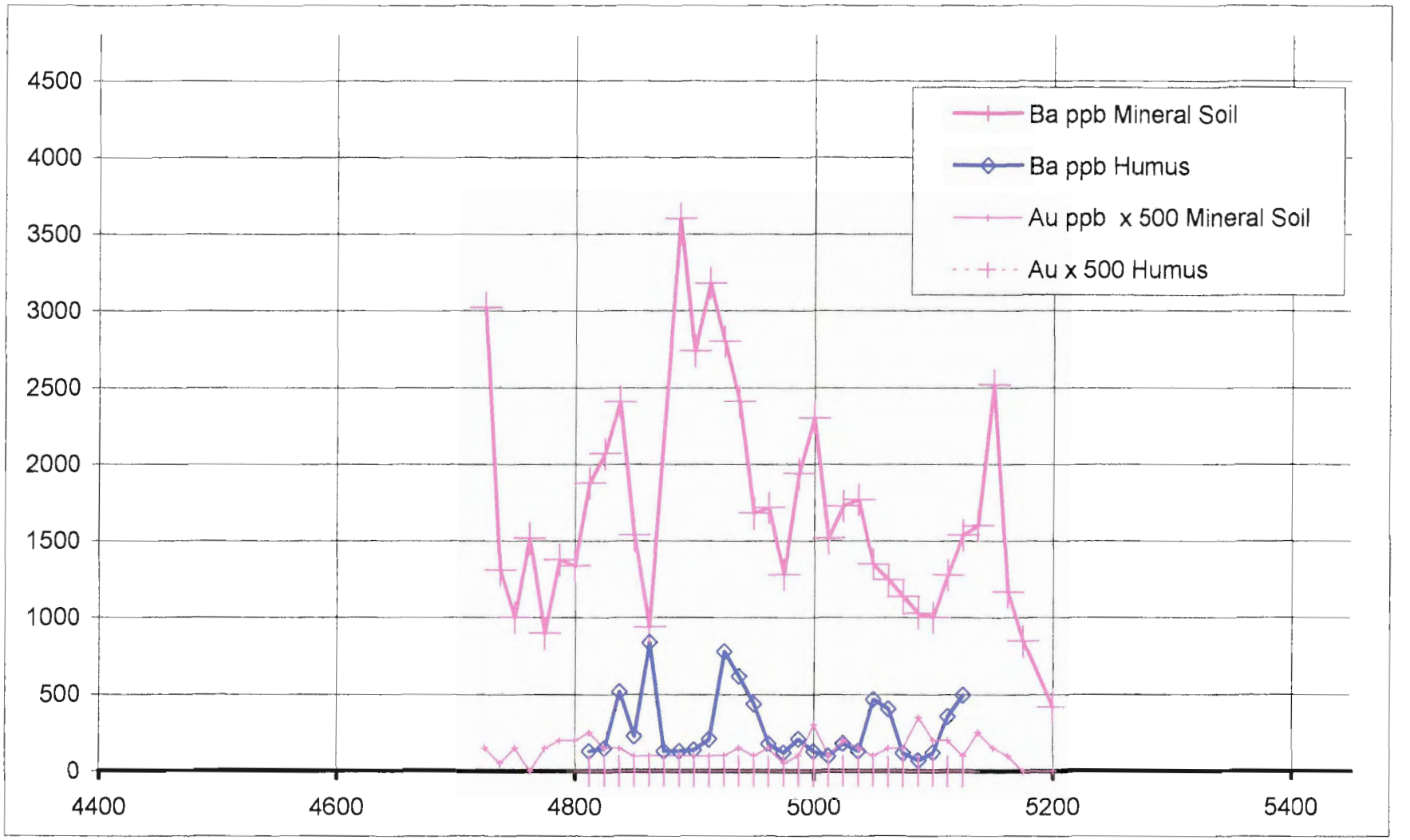
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



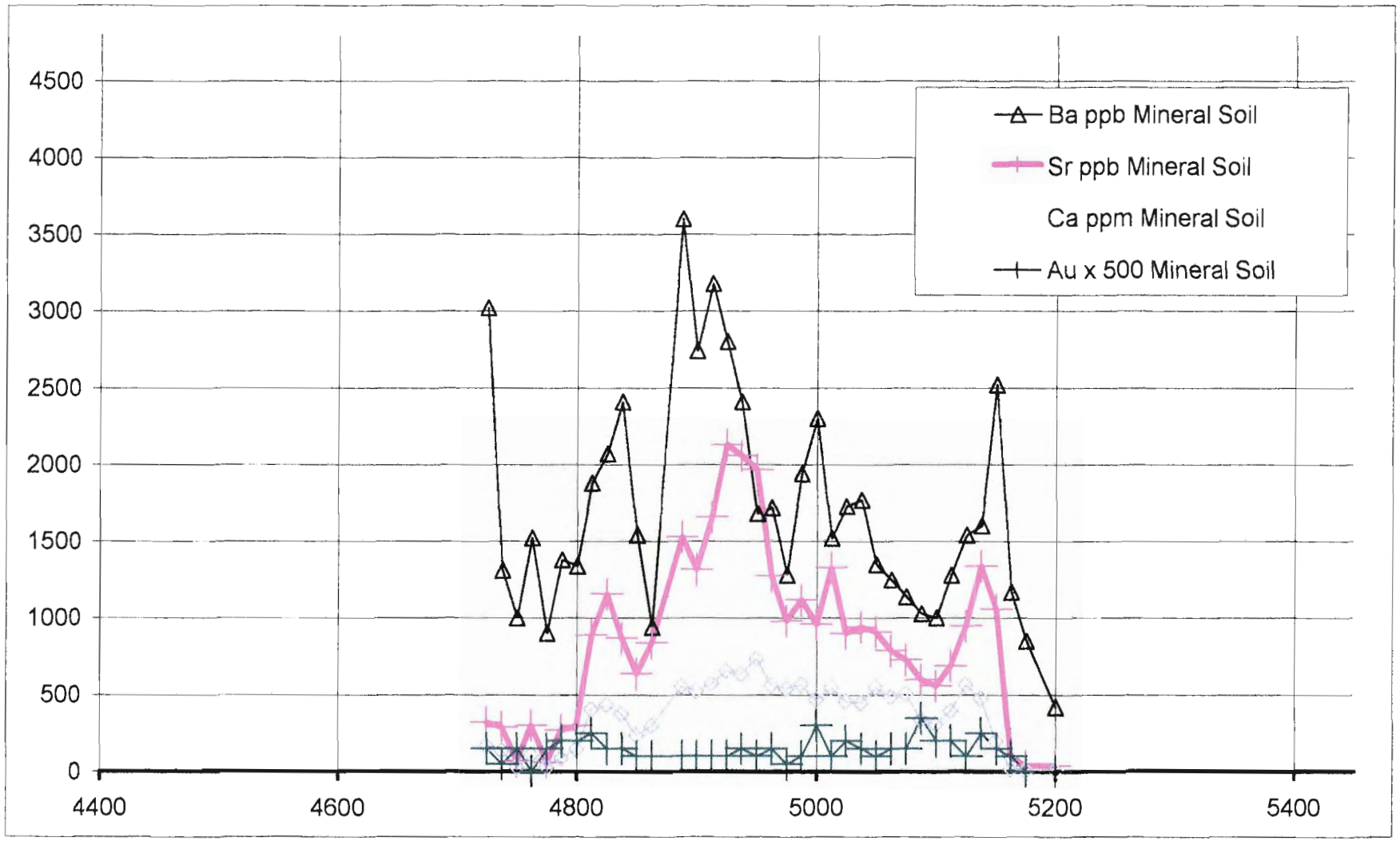
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



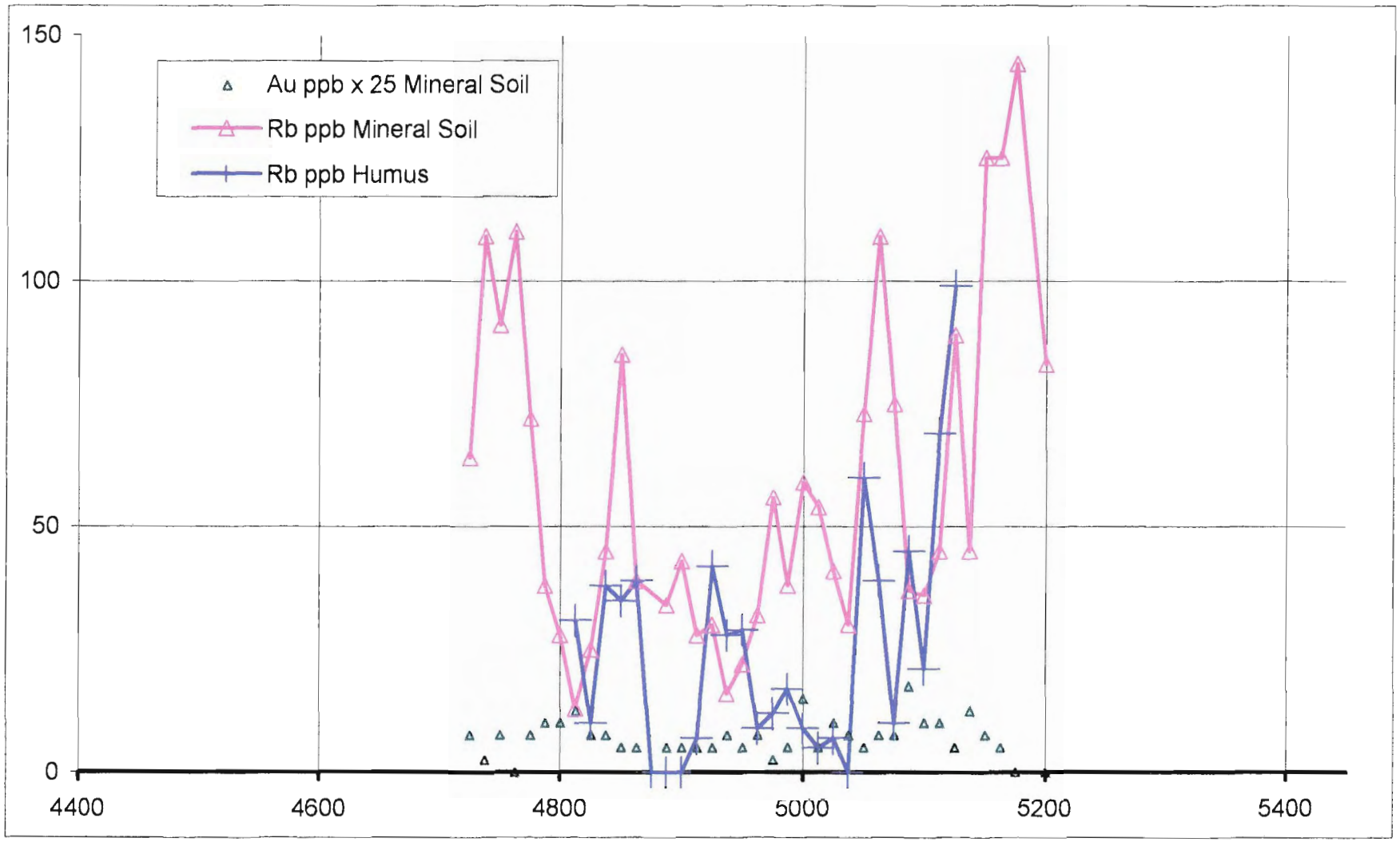
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



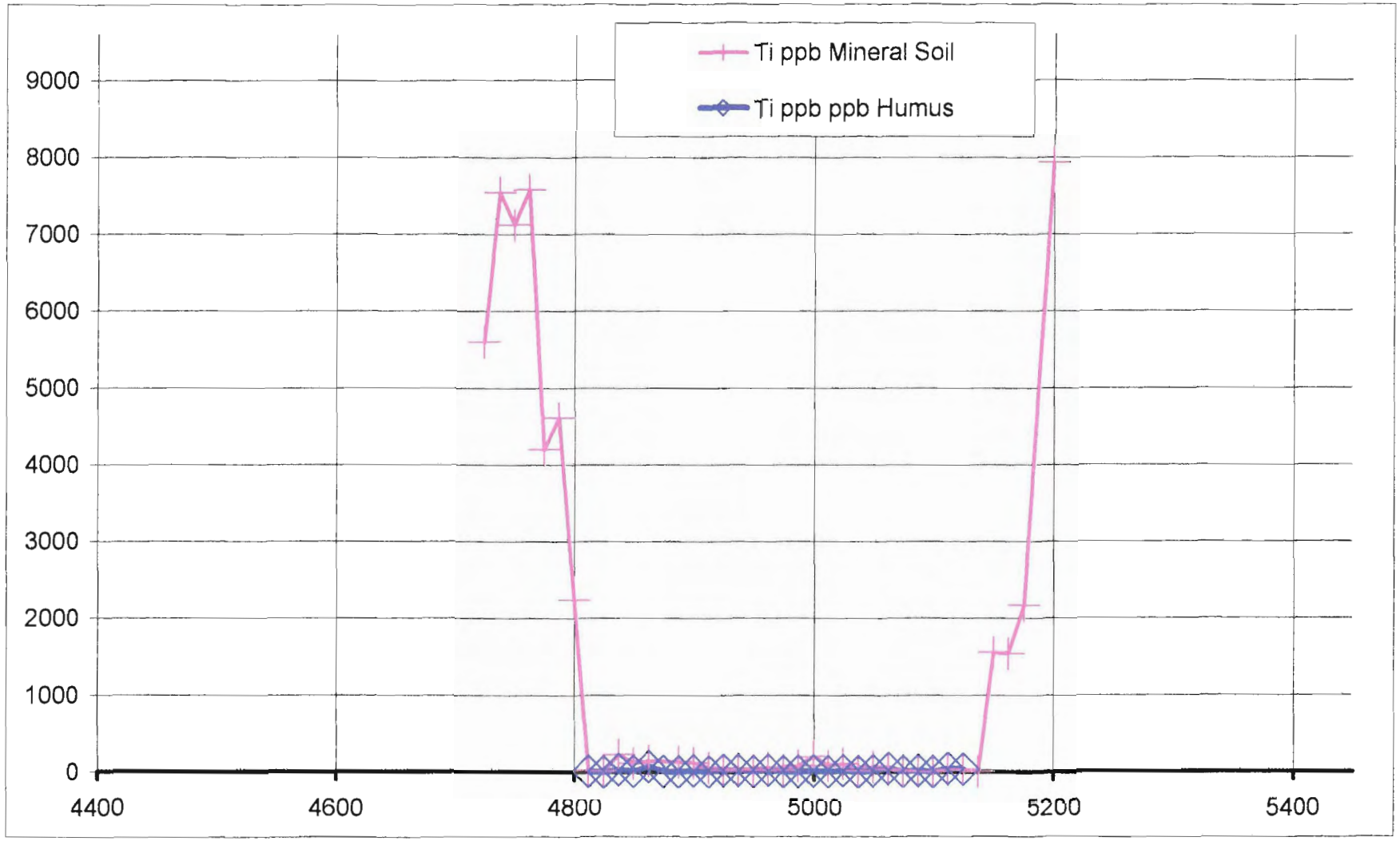
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



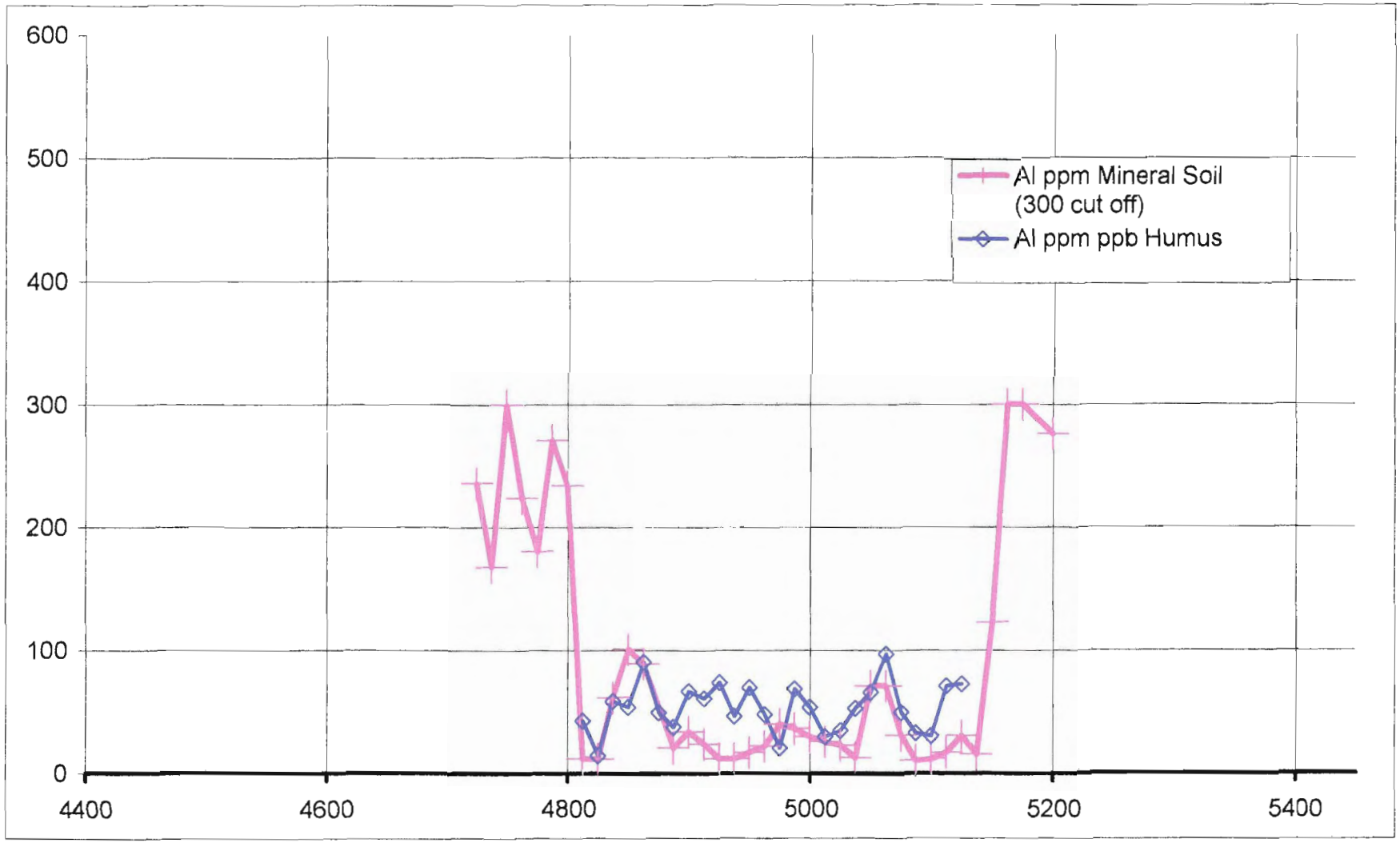
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
1 cm = 50m



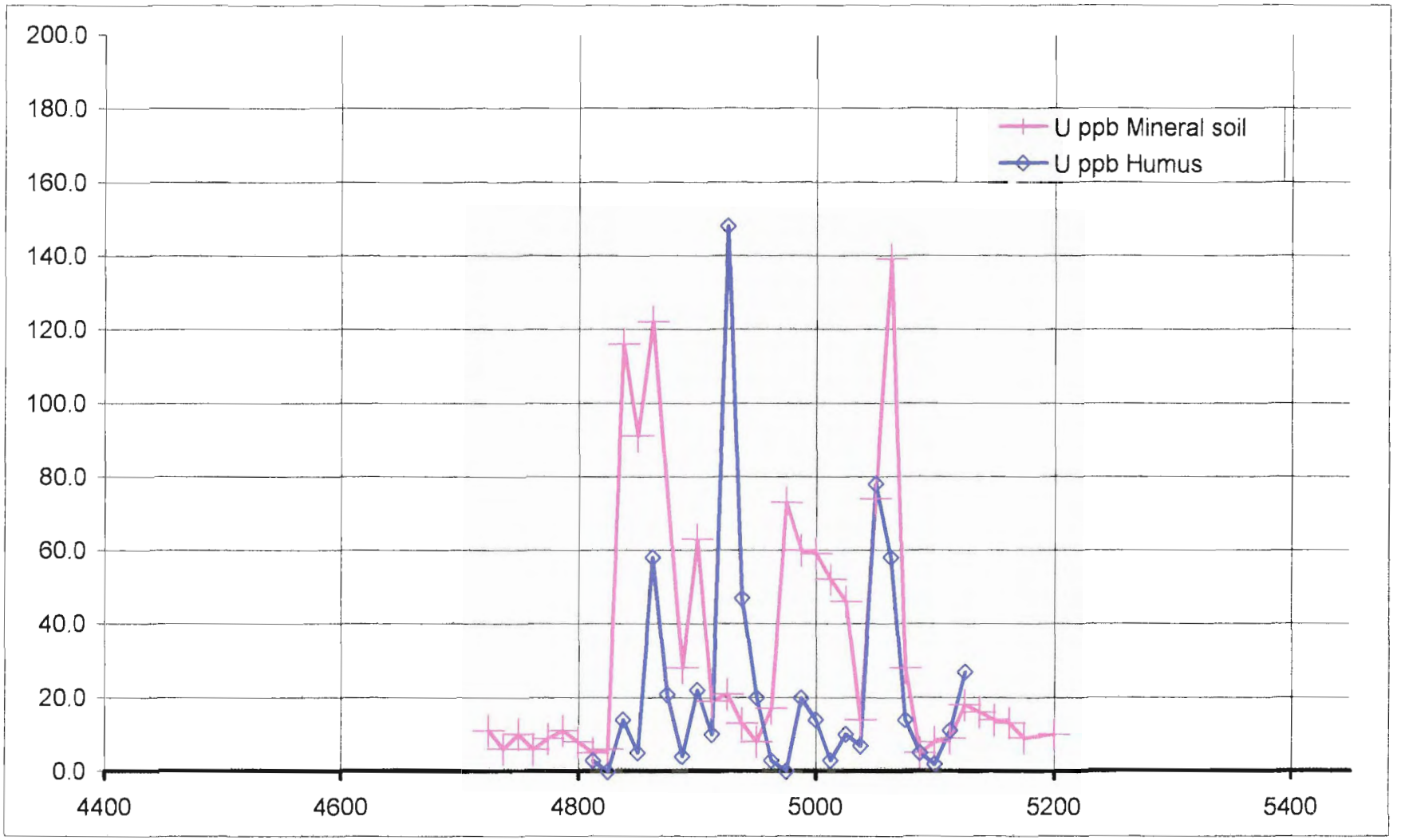
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557080E)
1 cm = 50m



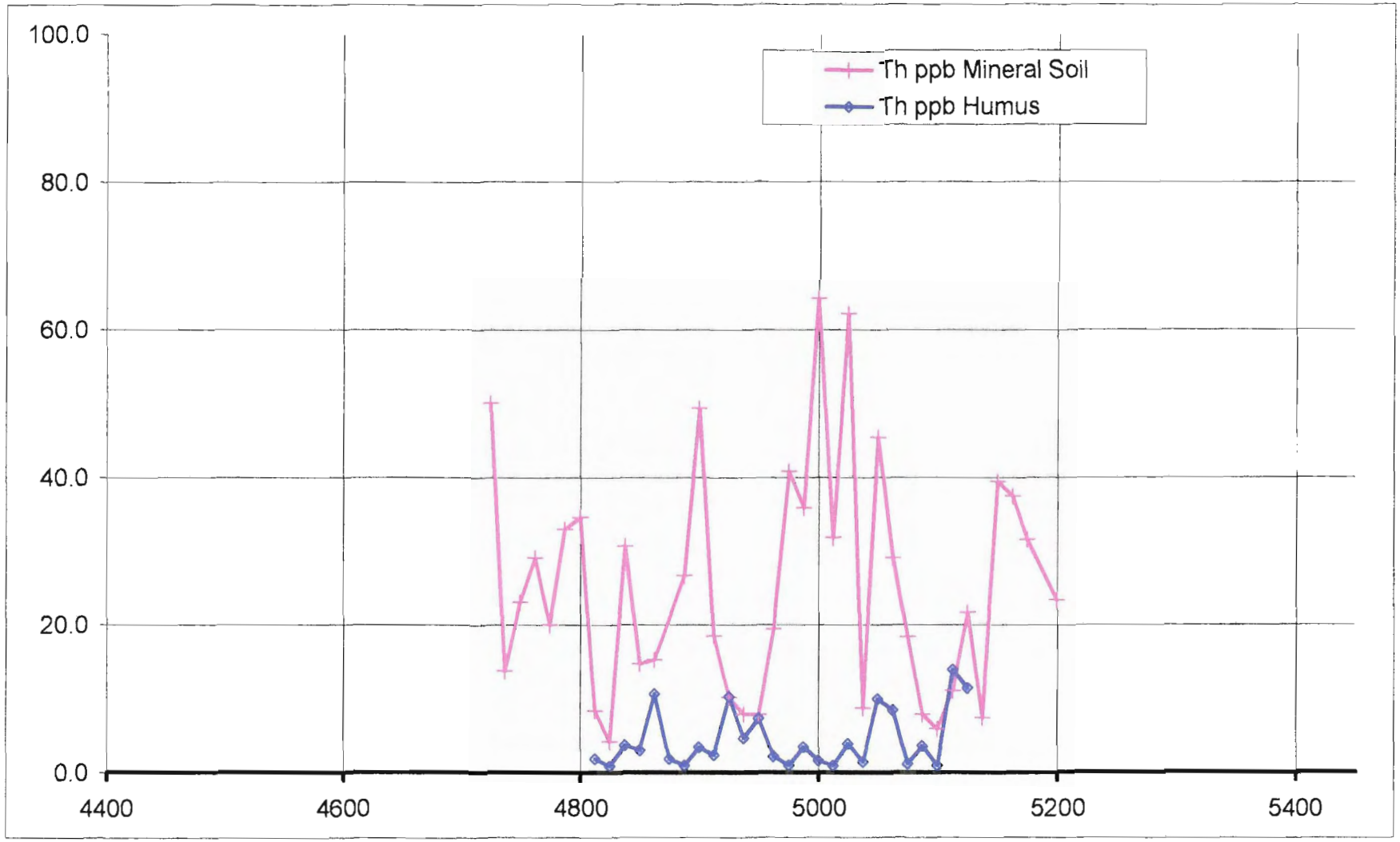
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
(Tracing Mineral Soil Character)
1 cm = 50m



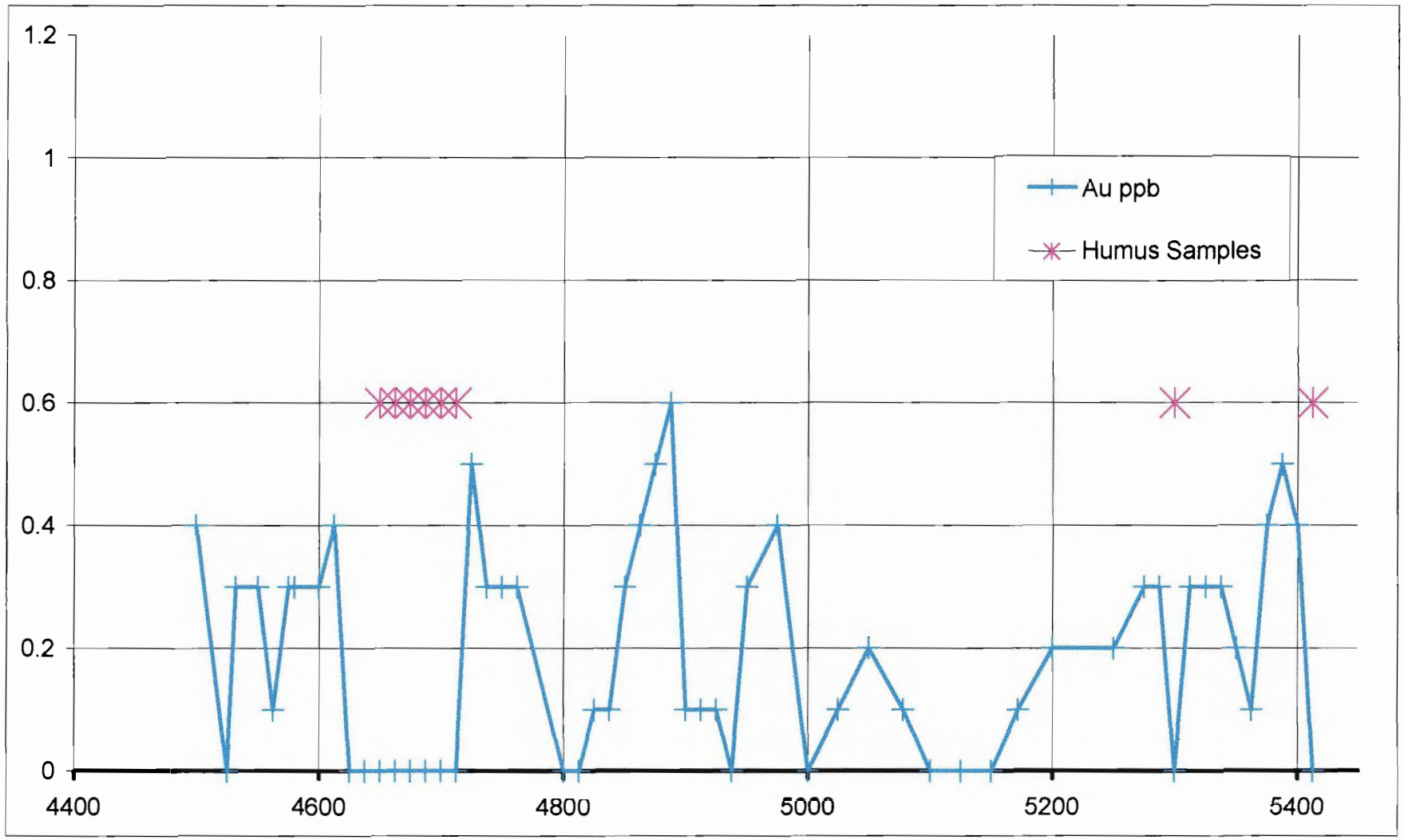
Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
(Tracing Mineral Soil Character)
1 cm = 50m



Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
(Tracing Mineral Soil Character)
1 cm = 50m

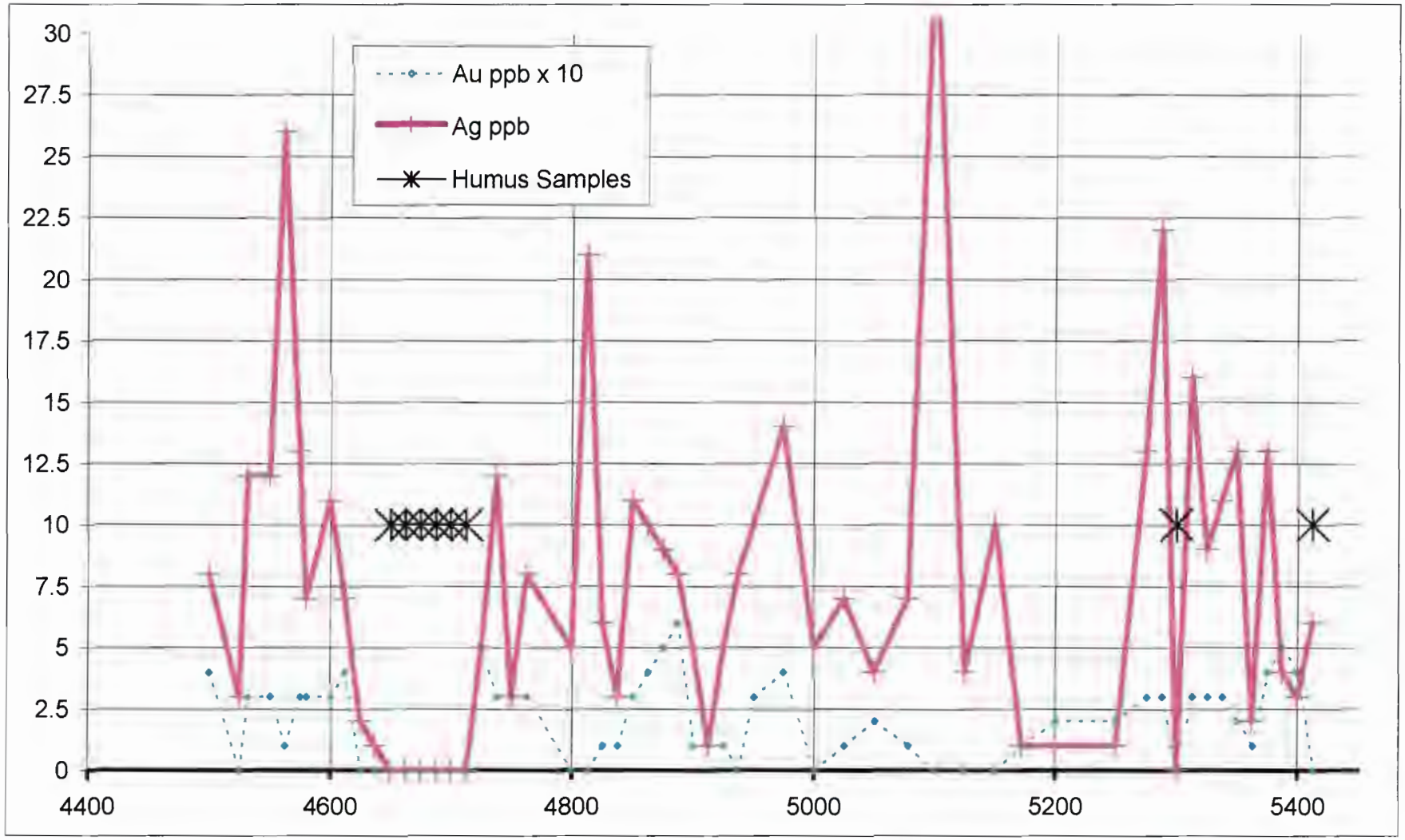


Eby West Property: Eby Tp in Northeastern Ontario
West Line (0557075E)
(Tracing Mineral Soil Character)
1 cm = 50m

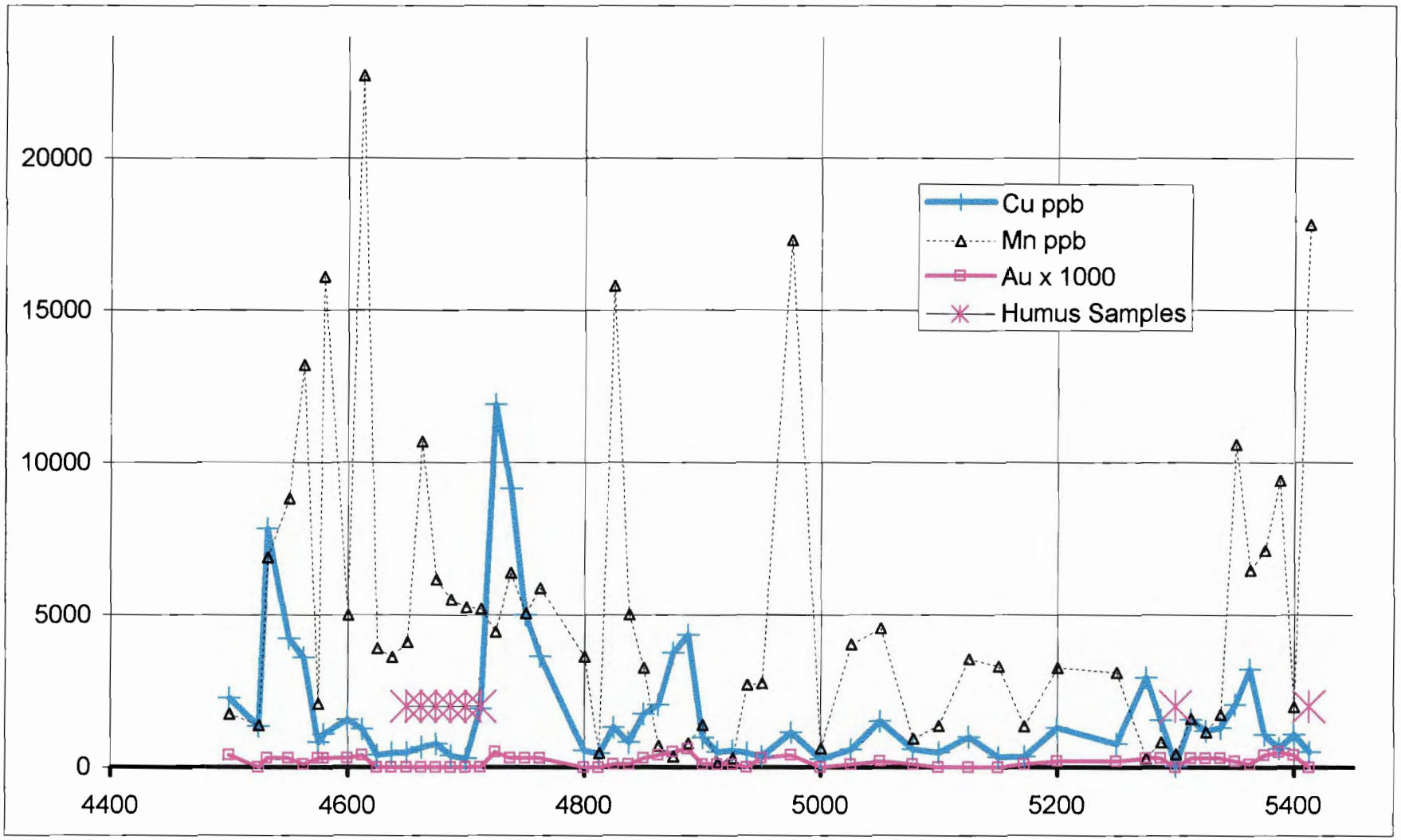


Humus samples do not redender an Au response (**see West Line**).

Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m

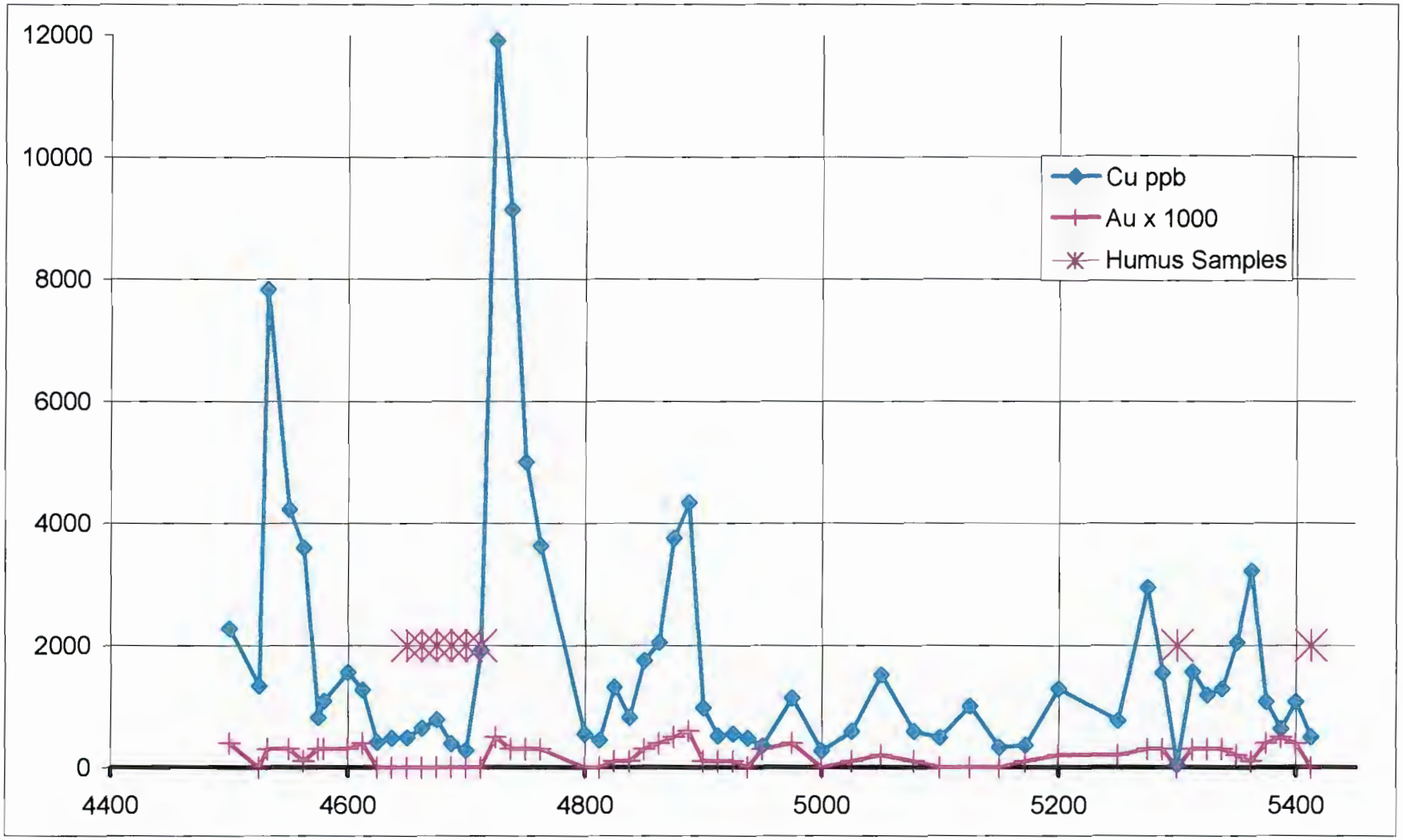


Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m

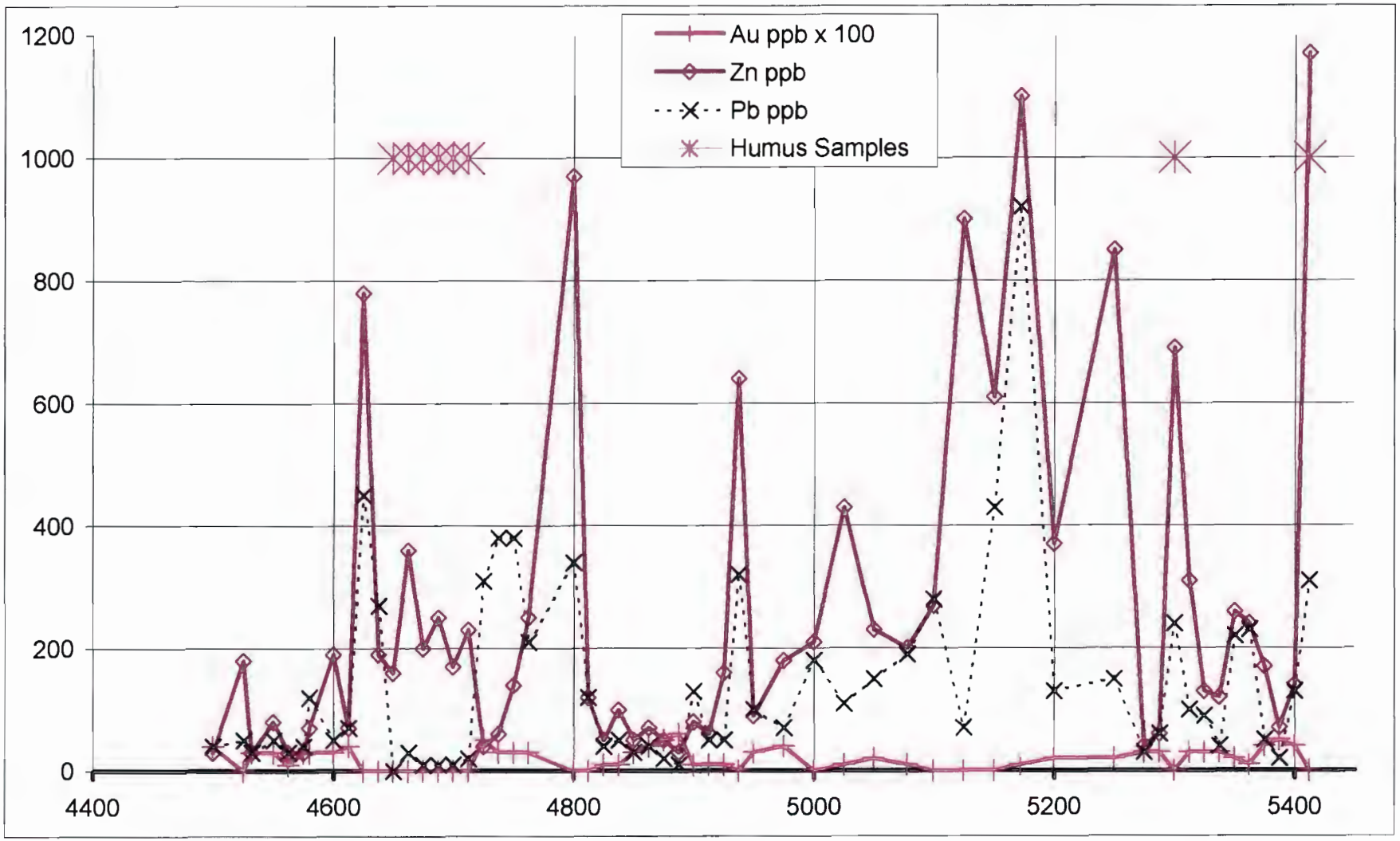


Mn and Cu appear to have an inverse relationship.B182

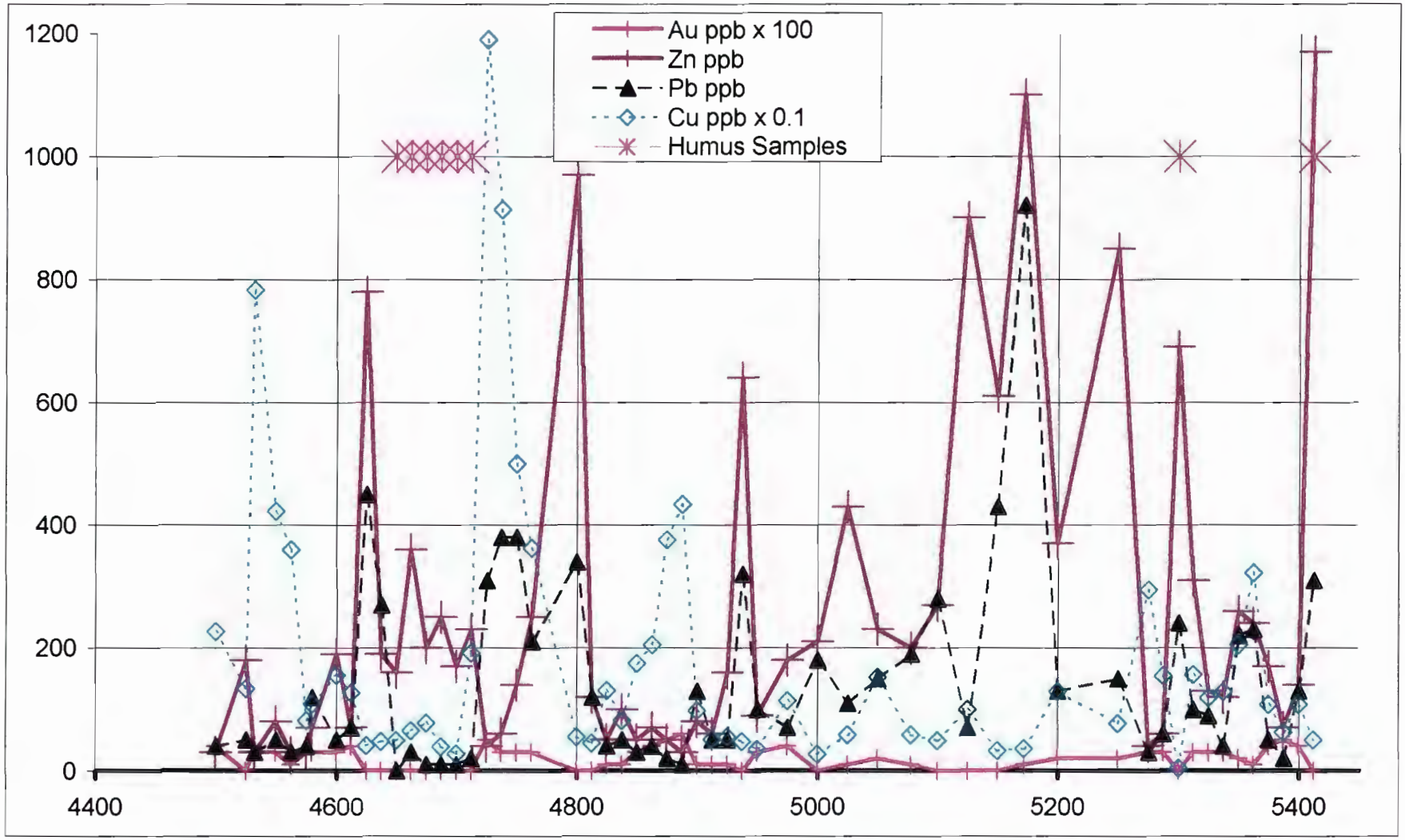
Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m

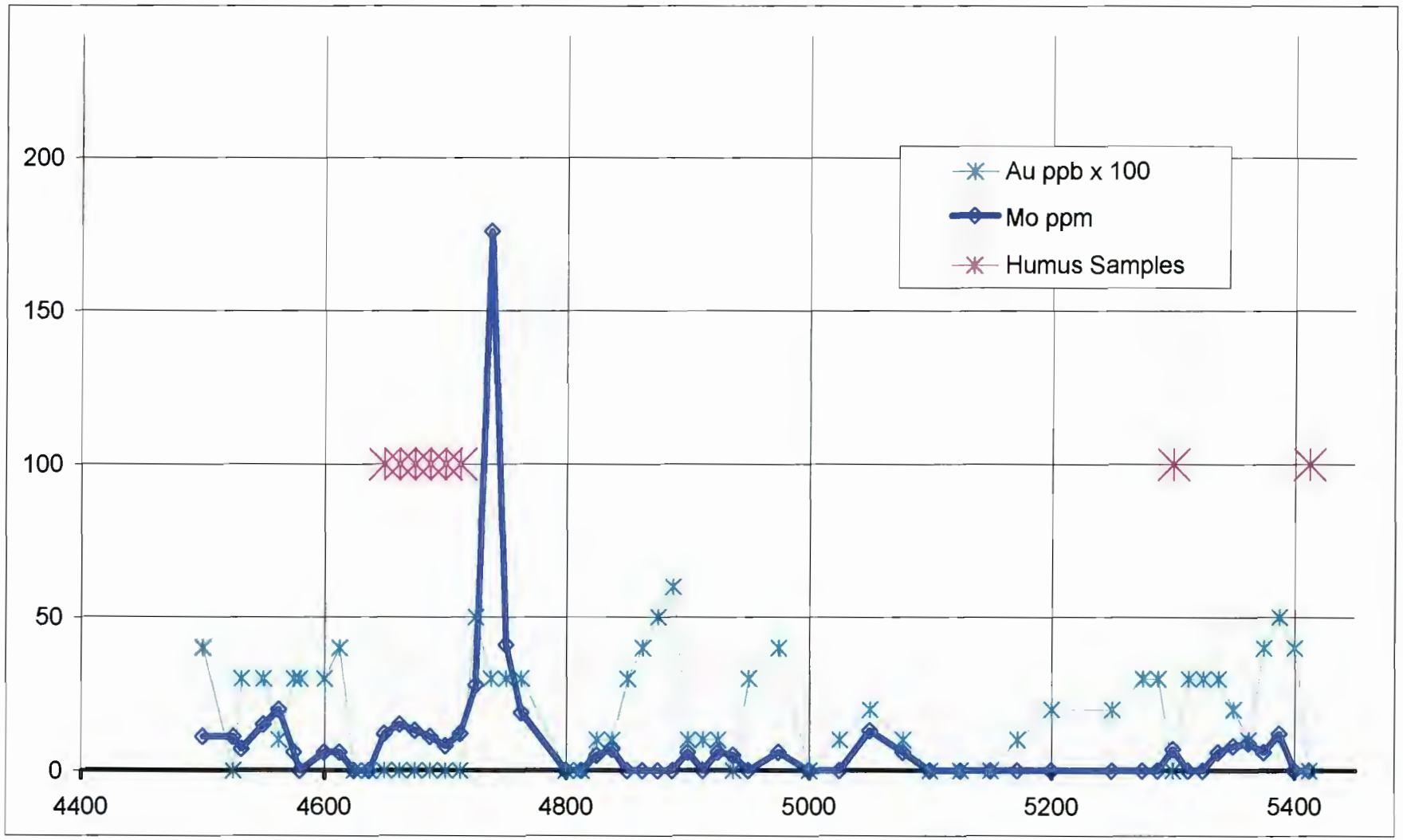


Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m

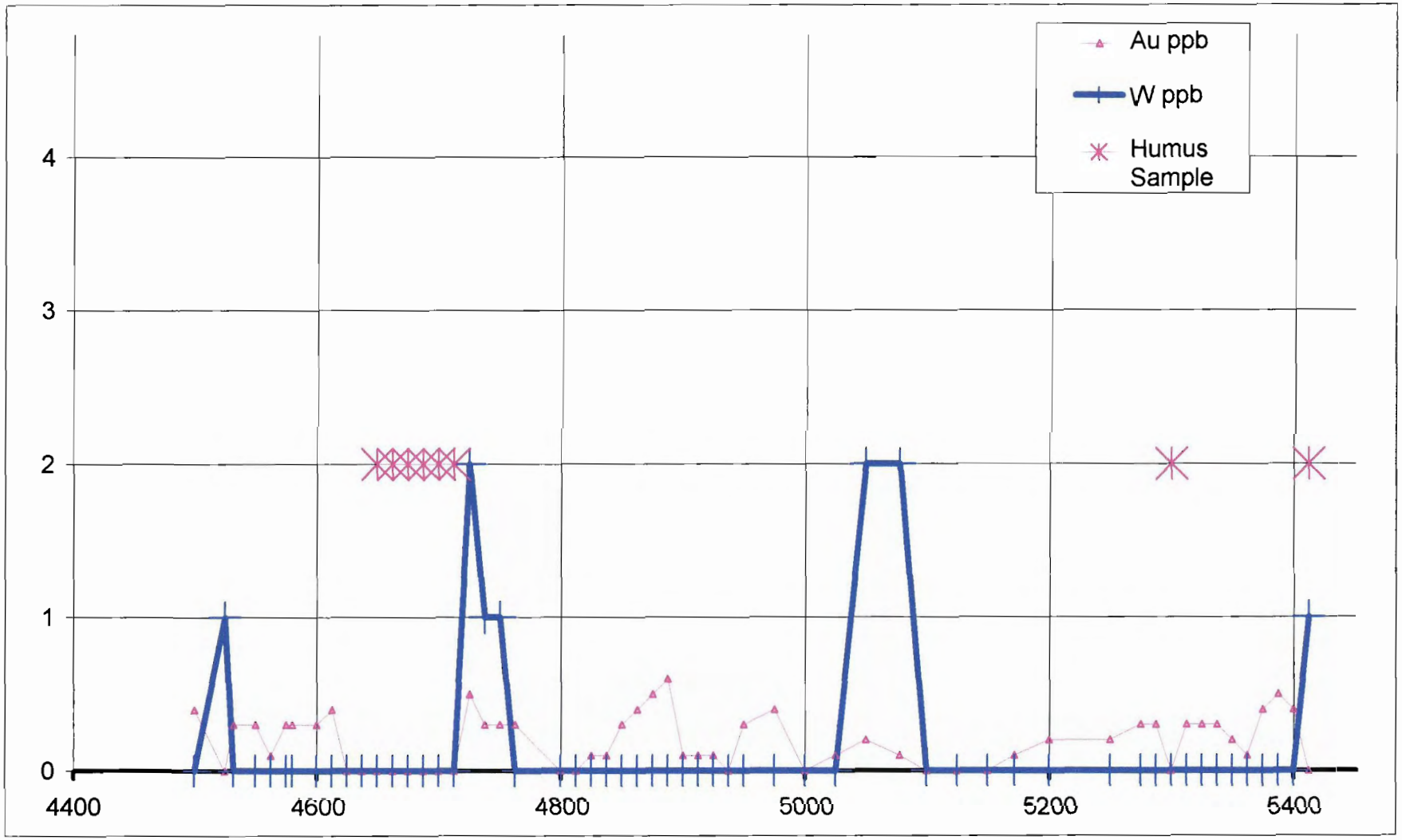


Cu appears to have an inverse relationship to Zn and Pb.

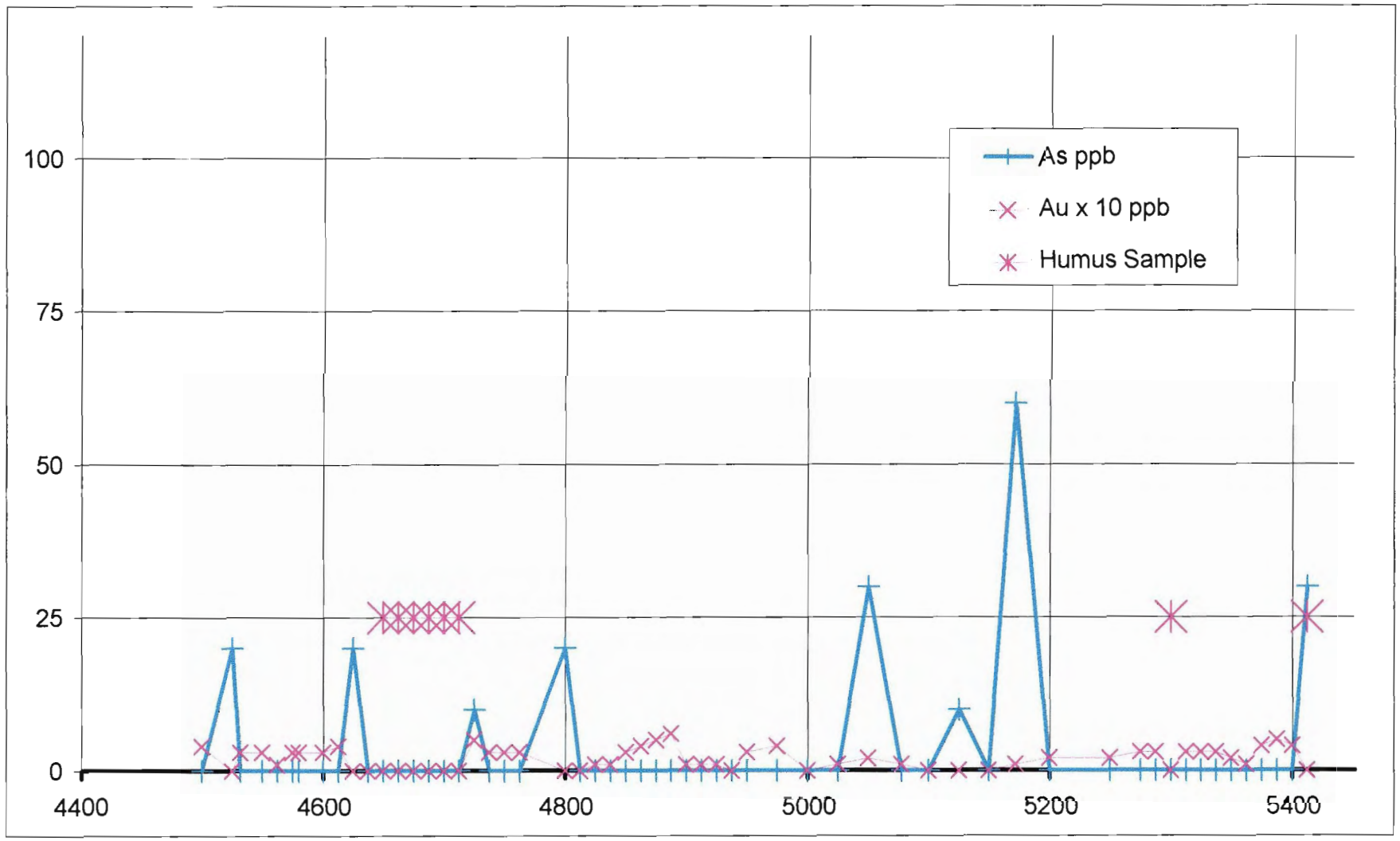
Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



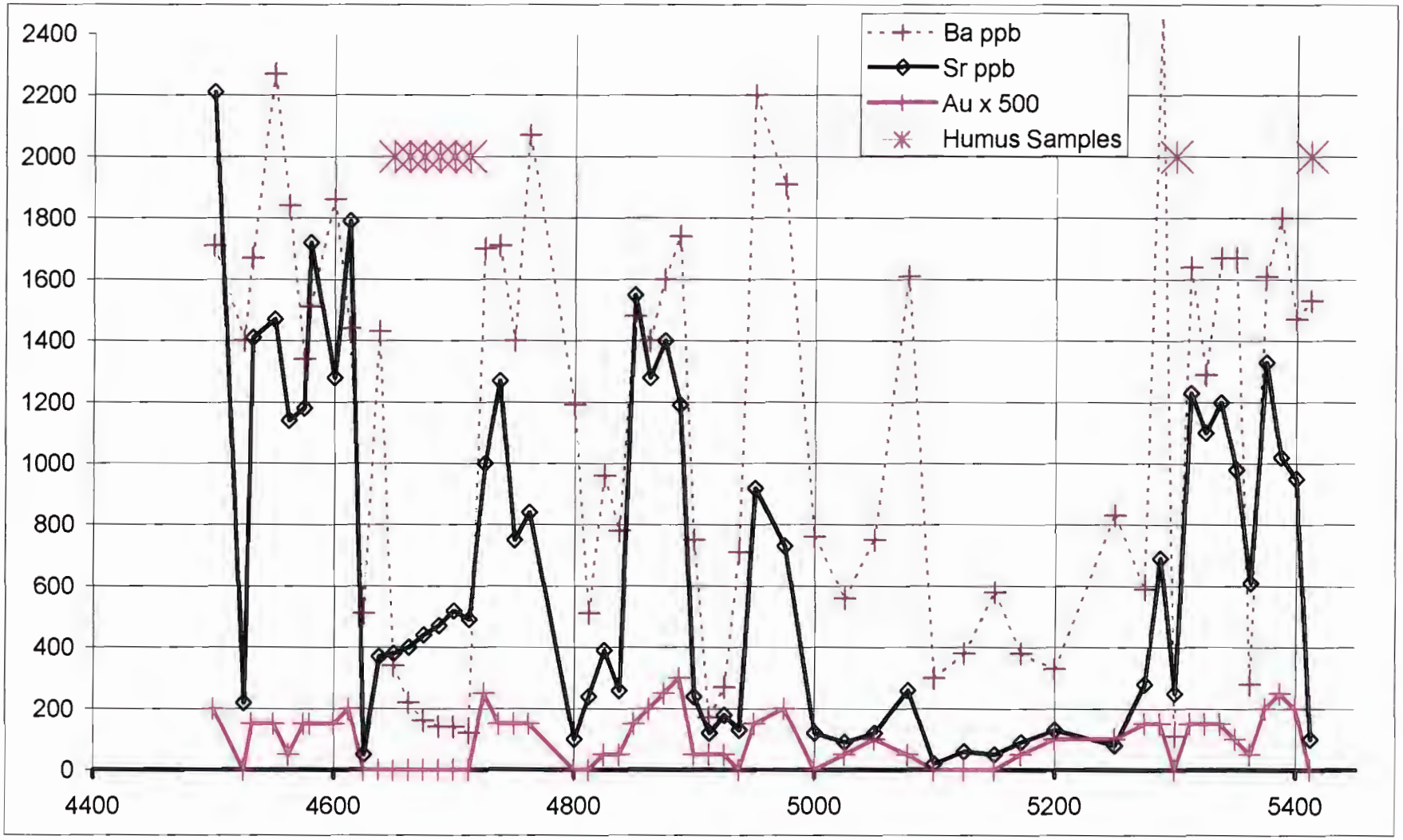
Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



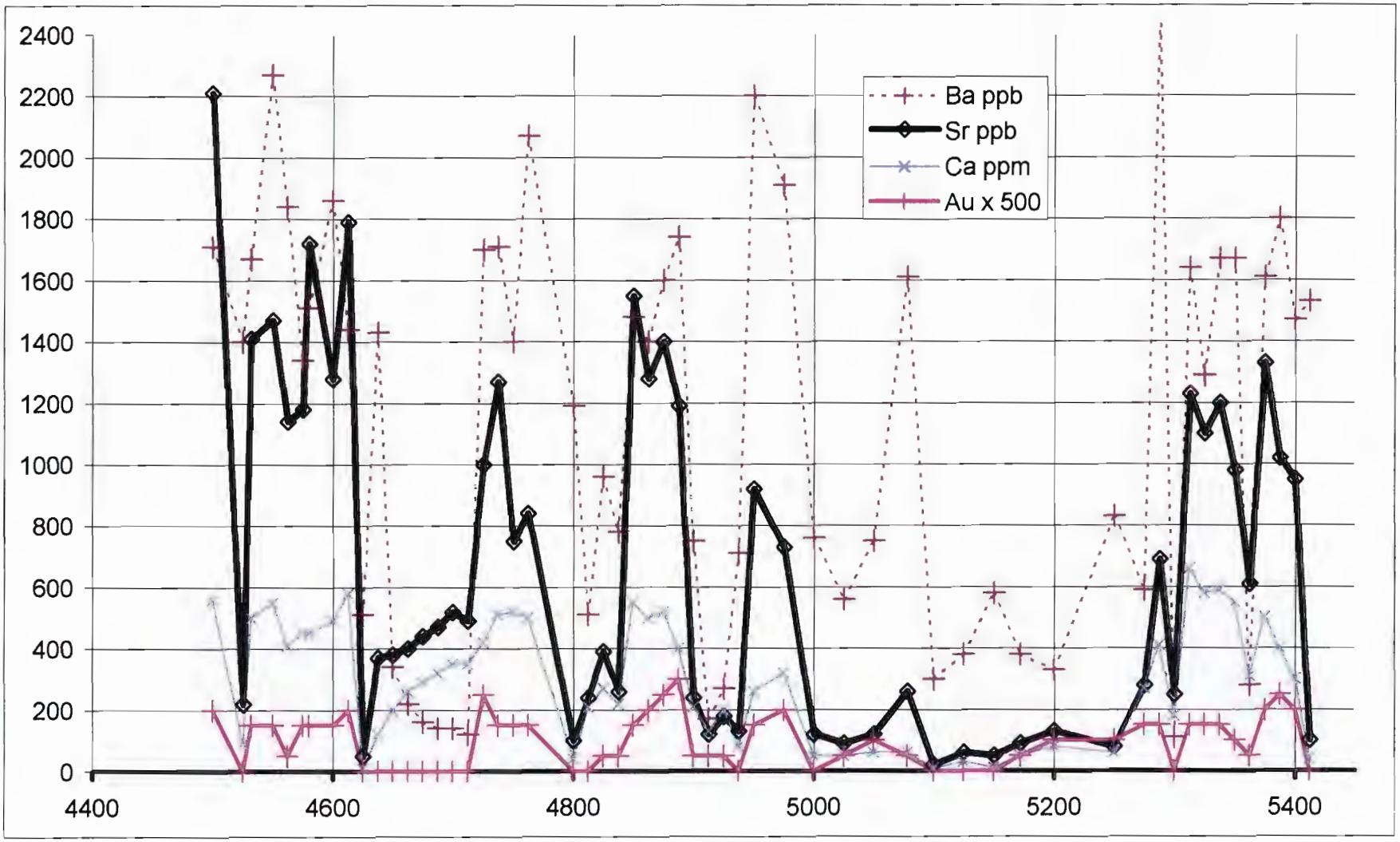
Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



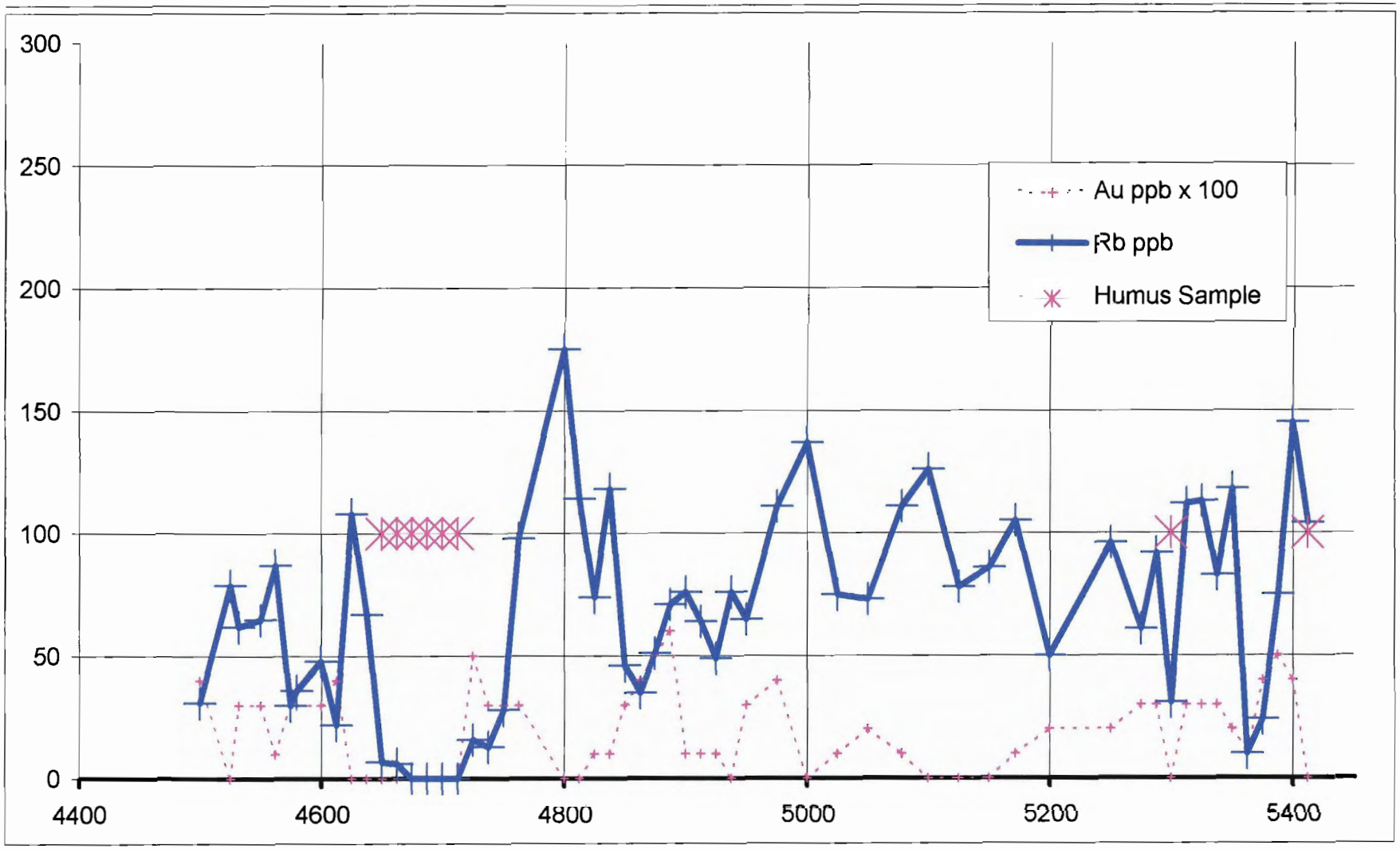
Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



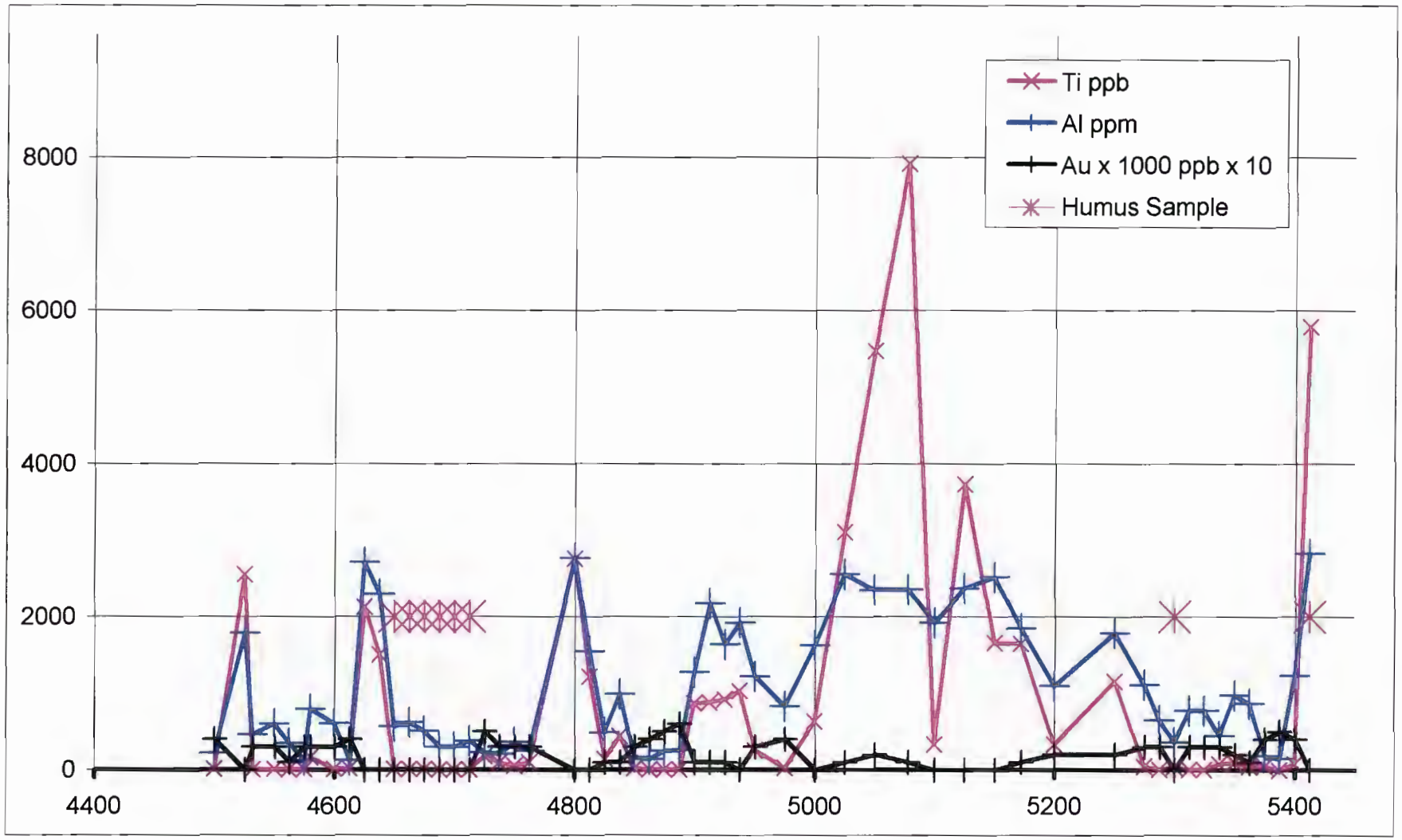
Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



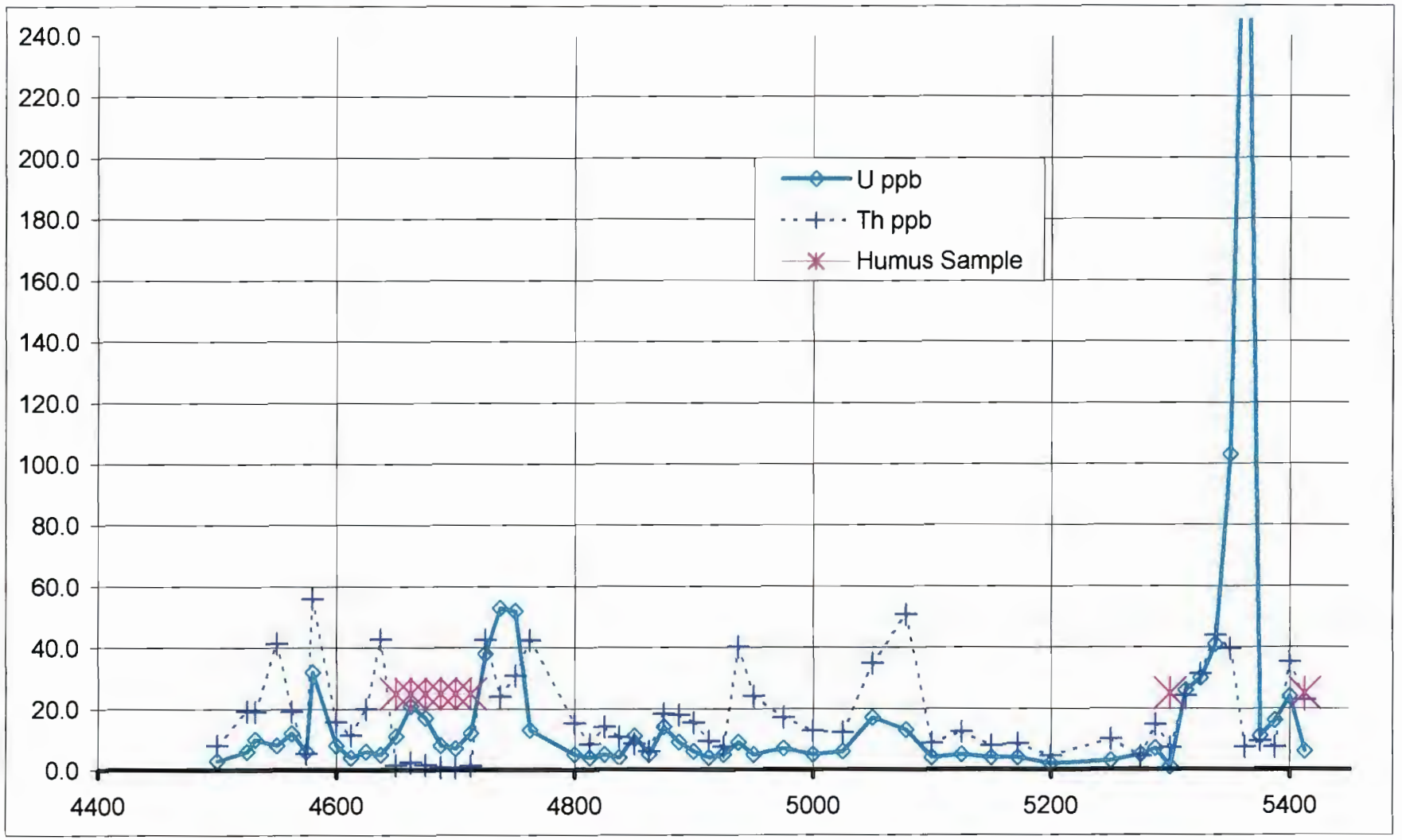
Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
1 cm = 50m



Eby West Property: Eby Tp in North-eastern Ontario
East Line (0557650E)
(Tracing Mineral Soil Character)
1 cm = 50m

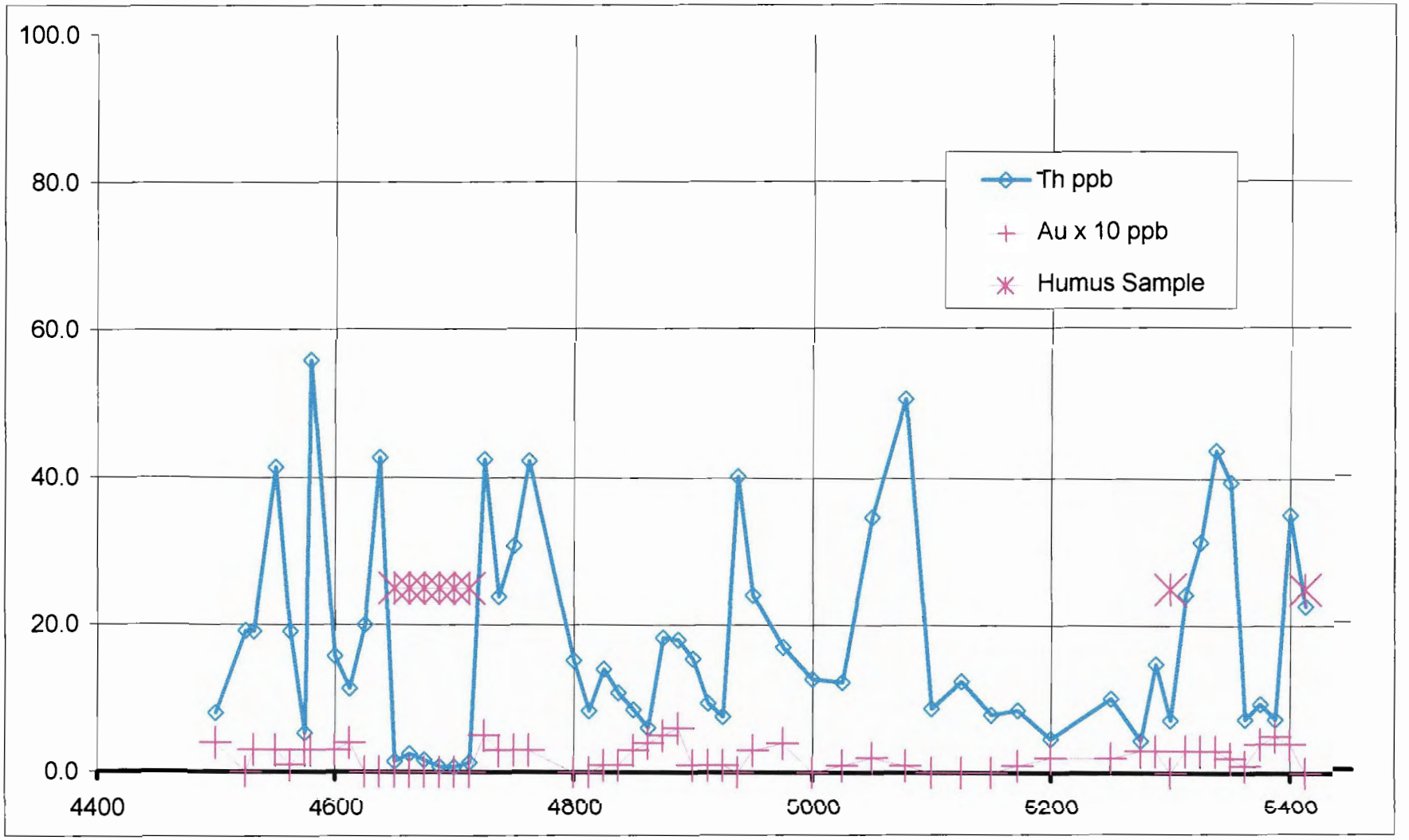


Eby West Property: Eby Tp in North-eastern Ontario

East Line (0557650E)

(Tracing Possible Intrusive or Intrusive Alteration)

1 cm = 50m



Eby West Property: Eby Tp in North-eastern Ontario

East Line (0557650E)

(Tracing Mineral Soil Character)

1 cm = 50m

Certificate of Analysis

Work Order: TO113567

To: COD SGS Minerals
C/O P.O. Box 439
Whiffen Head Road
ARNOLD COVE
NF A0B 1A0

Date: Jan 26, 2011

P.O. No.	:	Douglas Robinsom
Project No.	:	-
No. Of Samples	:	73
Date Submitted	:	Jan 13, 2011
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
STORE:

Certified By :

Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27170	<1	43	<10	<0.1	130	1	250	57	17	89
27171	<1	15	<10	<0.1	150	<1	340	19	<5	26
27172	<1	59	<10	<0.1	520	<1	220	5	50	84
27173	<1	54	<10	<0.1	230	<1	240	19	33	109
27174	1	91	<10	<0.1	840	<1	270	8	41	95
27175	<1	50	<10	<0.1	130	<1	300	14	13	37
27176	<1	38	<10	<0.1	130	<1	280	3	7	44
27177	<1	67	<10	<0.1	140	<1	290	18	7	28
27178	<1	61	<10	<0.1	210	<1	340	9	8	39
27179	1	74	<10	<0.1	780	<1	410	12	40	124
27180	<1	47	<10	<0.1	620	<1	390	2	29	120
27181	2	70	<10	<0.1	440	<1	380	29	63	73
27182	<1	48	<10	<0.1	180	<1	290	12	13	39
27183	<1	21	<10	<0.1	120	<1	350	19	<5	28
27184	<1	69	<10	<0.1	210	<1	350	34	19	68
27185	<1	54	<10	<0.1	130	<1	330	33	13	49
27186	<1	30	<10	<0.1	100	<1	310	17	7	36
27187	<1	35	<10	<0.1	180	<1	330	11	16	61
27188	<1	53	<10	<0.1	130	<1	300	16	12	65
27189	1	66	<10	<0.1	470	<1	390	22	40	120
27190	1	97	<10	<0.1	410	<1	350	61	52	74
27191	<1	50	<10	<0.1	120	<1	390	31	16	30
27192	<1	33	<10	<0.1	70	2	300	45	37	109
27193	<1	31	<10	<0.1	120	<1	330	20	12	33
27194	<1	71	<10	<0.1	360	2	300	62	123	64
27195	<1	73	<10	<0.1	500	<1	260	12	55	38
27204	11	61	<10	0.3	1860	<1	490	9	85	86
27205	7	13	<10	0.4	1440	<1	580	3	141	195
27206	2	271	20	<0.1	510	1	10	27	81	136
27207	1	230	<10	<0.1	1430	<1	120	16	203	165
27208	<1	57	<10	<0.1	340	<1	200	<1	9	61
27209	<1	62	<10	<0.1	220	<1	260	4	23	40
27210	<1	51	<10	<0.1	160	<1	290	3	24	34
27211	<1	30	<10	<0.1	140	<1	320	4	6	32
27212	<1	30	<10	<0.1	140	<1	350	1	<5	47
27213	<1	38	<10	<0.1	120	<1	350	6	7	30
27214	5	23	10	0.5	1700	<1	420	1	306	24
27215	12	21	<10	0.3	1710	<1	510	4	127	49
27216	3	36	<10	0.3	1400	<1	520	6	337	91
27217	8	25	<10	0.3	2070	<1	500	6	375	112
27218	13	13	<10	0.3	1340	<1	450	1	15	23
27219	7	80	<10	0.3	1510	<1	450	5	2390	146
27220	26	35	<10	0.1	1840	<1	410	6	177	199

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27221	12	60	<10	0.3	2270	<1	550	7	263	134
27222	12	46	<10	0.3	1670	<1	500	5	132	52
27223	3	179	20	<0.1	1400	<1	90	3	105	187
27224	8	22	<10	0.4	1710	<1	560	<1	14	48
27225	5	277	20	<0.1	1190	<1	40	34	89	89
27226	21	155	<10	<0.1	510	<1	210	7	54	41
27227	6	49	<10	0.1	960	<1	270	3	125	87
27228	3	99	<10	0.1	780	<1	220	2	97	76
27229	11	17	<10	0.3	1480	<1	550	2	7	64
27230	10	14	<10	0.4	1400	<1	500	<1	6	17
27231	9	25	<10	0.5	1600	<1	520	1	27	9
27232	8	26	<10	0.6	1740	<1	400	2	17	9
27233	5	128	<10	0.1	750	<1	210	2	76	61
27234	1	218	<10	0.1	170	<1	130	1	79	26
27235	5	164	<10	0.1	270	<1	200	6	49	33
27236	8	192	<10	<0.1	710	<1	80	20	180	33
27237	10	122	<10	0.3	2200	<1	260	5	78	65
27238	14	83	<10	0.4	1910	<1	320	7	84	186
27239	5	163	<10	<0.1	760	<1	50	9	76	30
27240	7	256	<10	0.1	560	<1	50	7	38	82
27241	4	235	30	0.2	750	1	60	4	140	111
27242	7	236	<10	0.1	1610	1	60	2	582	25
27243	34	192	<10	<0.1	300	<1	10	14	108	35
27244	4	237	10	<0.1	380	<1	30	16	24	177
27245	10	252	<10	<0.1	580	<1	10	27	34	164
27246	1	185	60	0.1	380	4	50	33	43	34
27247	1	110	<10	0.2	330	<1	80	8	58	157
27248	1	179	<10	0.2	830	<1	60	13	33	128
27249	13	111	<10	0.3	590	<1	270	7	40	13
27250	22	65	<10	0.3	2470	<1	410	7	84	19
*Rep 27178	<1	59	<10	<0.1	240	<1	340	6	9	47
*Rep 27192	<1	28	<10	<0.1	70	<1	330	54	30	82
*Rep 27208	<1	57	<10	<0.1	300	<1	190	<1	6	57
*Rep 27221	9	48	<10	0.5	2390	<1	580	3	180	91
*Rep 27235	5	161	<10	0.2	250	<1	190	5	44	17
*Rep 27247	1	105	<10	0.2	330	<1	110	7	43	191
*Std MMISRM16	15	48	10	23.2	60	<1	200	4	19	57
*Std AMIS0169	7	61	10	0.4	740	<1	30	1	735	104
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27170	<100	<0.5	170	5	3.8	1.1	5	1	5	<1
27171	<100	<0.5	70	<1	<0.5	<0.5	3	<1	1	<1
27172	<100	<0.5	410	4	2.8	1.4	137	1	5	<1
27173	<100	<0.5	20	2	1.1	0.7	13	2	3	<1
27174	<100	<0.5	1130	9	6.5	1.4	181	1	6	<1
27175	<100	<0.5	610	4	2.5	0.9	30	2	3	<1
27176	<100	<0.5	240	2	1.4	<0.5	39	1	2	<1
27177	<100	<0.5	360	5	4.2	0.7	61	2	3	<1
27178	<100	<0.5	210	2	1.6	<0.5	17	1	2	<1
27179	<100	<0.5	970	6	5.7	1.2	66	2	5	<1
27180	<100	<0.5	490	2	1.1	0.7	65	1	2	<1
27181	<100	<0.5	430	9	4.7	2.2	7	2	9	<1
27182	<100	<0.5	200	2	1.2	<0.5	83	2	1	<1
27183	<100	<0.5	50	<1	0.5	<0.5	15	1	<1	<1
27184	<100	<0.5	200	3	2.6	0.6	27	2	3	<1
27185	<100	<0.5	100	2	1.4	0.5	30	2	3	<1
27186	<100	<0.5	150	1	0.7	<0.5	30	1	1	<1
27187	<100	<0.5	230	1	0.6	<0.5	17	2	2	<1
27188	<100	<0.5	300	2	1.3	<0.5	17	2	2	<1
27189	<100	0.6	110	9	6.3	1.6	57	1	7	<1
27190	<100	0.8	600	21	20.2	2.3	65	3	12	<1
27191	<100	<0.5	50	3	1.9	0.8	11	1	3	<1
27192	<100	<0.5	130	9	5.6	1.7	7	2	8	<1
27193	<100	<0.5	110	2	1.3	0.6	7	<1	3	<1
27194	<100	0.9	250	31	18.9	6.2	35	4	29	<1
27195	<100	0.8	410	8	4.6	1.8	108	2	8	<1
27204	<100	0.7	1560	16	8.5	4.9	9	2	21	<1
27205	<100	<0.5	1270	18	12.4	3.2	3	2	21	<1
27206	200	3.9	410	13	8.0	2.6	139	15	9	<1
27207	100	2.0	480	22	11.8	6.8	84	13	25	<1
27208	<100	<0.5	490	1	1.0	<0.5	178	<1	1	<1
27209	<100	<0.5	650	5	3.2	1.2	51	1	5	<1
27210	<100	<0.5	780	3	1.9	1.1	35	1	4	<1
27211	<100	<0.5	390	1	1.0	<0.5	13	1	2	<1
27212	<100	<0.5	280	1	0.6	<0.5	11	1	1	<1
27213	<100	<0.5	1920	3	1.7	0.9	12	<1	4	<1
27214	<100	<0.5	11900	31	16.5	11.3	40	5	47	<1
27215	<100	<0.5	9140	19	10.6	6.1	21	2	25	<1
27216	<100	<0.5	5000	22	12.7	7.9	82	4	31	<1
27217	<100	0.8	3630	19	10.7	7.2	46	5	30	<1
27218	<100	<0.5	820	20	10.2	4.0	3	<1	23	<1
27219	200	0.5	1090	97	67.1	24.2	36	18	107	<1
27220	<100	0.9	3600	11	4.9	5.4	16	3	20	<1

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27221	<100	<0.5	4230	15	8.3	4.3	12	3	17	<1
27222	<100	0.8	7830	20	11.1	6.4	11	2	27	<1
27223	200	1.4	1340	12	6.9	3.3	306	18	11	<1
27224	<100	<0.5	2270	17	10.5	4.3	4	<1	22	1
27225	100	2.9	550	21	11.6	4.0	123	23	16	<1
27226	<100	2.3	450	9	5.1	2.5	58	9	9	<1
27227	<100	1.4	1310	4	2.7	1.9	46	4	7	<1
27228	<100	2.3	820	5	2.6	1.8	43	5	7	<1
27229	<100	<0.5	1750	10	6.6	2.2	4	<1	10	<1
27230	<100	<0.5	2050	13	7.1	2.8	3	<1	15	<1
27231	<100	0.5	3760	18	9.3	5.7	7	<1	26	<1
27232	<100	0.6	4340	10	4.7	3.8	6	<1	16	<1
27233	100	2.1	980	9	4.7	2.8	100	9	11	<1
27234	200	1.9	510	10	4.5	2.7	78	10	11	<1
27235	<100	1.2	550	9	3.5	2.6	65	7	9	<1
27236	<100	2.3	480	21	10.0	5.1	44	7	20	<1
27237	<100	2.0	350	8	4.2	2.2	21	2	8	<1
27238	<100	2.4	1140	7	4.1	2.1	13	2	8	<1
27239	<100	3.9	270	13	6.7	3.9	43	9	14	<1
27240	100	2.5	590	6	2.8	1.6	142	25	4	<1
27241	400	2.4	1520	15	6.9	5.2	368	37	17	<1
27242	200	5.7	590	59	28.2	21.0	128	42	82	<1
27243	<100	3.1	490	15	7.4	5.1	27	7	17	<1
27244	100	5.2	1000	5	3.2	1.0	238	23	4	<1
27245	<100	2.7	330	10	5.6	2.0	101	27	7	<1
27246	<100	1.3	360	10	5.0	2.1	221	25	10	<1
27247	<100	1.9	1290	21	12.7	3.1	140	4	17	<1
27248	<100	3.4	770	7	3.9	1.4	179	9	6	<1
27249	<100	2.5	2950	12	6.9	5.1	8	1	20	<1
27250	<100	1.7	1550	7	3.5	3.5	9	2	13	<1
*Rep 27178	<100	<0.5	330	2	1.6	<0.5	19	2	2	<1
*Rep 27192	<100	<0.5	100	7	4.9	1.5	5	2	7	<1
*Rep 27208	<100	<0.5	670	1	0.9	<0.5	199	<1	1	<1
*Rep 27221	<100	<0.5	3850	18	10.0	5.6	10	3	24	<1
*Rep 27235	<100	1.3	490	8	3.8	2.4	44	5	9	<1
*Rep 27247	<100	1.7	1010	14	8.6	2.4	150	5	11	<1
*Std MMISRM16	<100	11.6	650	3	1.1	1.2	1	<1	5	16
*Std AMIS0169	<100	7.5	3830	29	13.0	11.4	44	16	45	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
27170	<0.5	7.3	7	<5	40	4450	<5	<0.5	14	52
27171	<0.5	2.9	2	<5	57	3390	8	<0.5	3	81
27172	<0.5	4.3	17	<5	37	9510	7	0.6	25	163
27173	<0.5	7.3	7	<5	46	69300	13	<0.5	13	260
27174	<0.5	5.1	14	<5	41	4650	15	1.0	20	264
27175	<0.5	0.7	7	<5	31	7140	13	<0.5	11	130
27176	<0.5	0.4	5	<5	29	9400	9	<0.5	8	98
27177	<0.5	0.5	3	<5	31	7880	5	<0.5	6	78
27178	<0.5	2.0	3	<5	37	12600	12	<0.5	6	107
27179	<0.5	6.8	21	15	59	12600	11	0.9	22	292
27180	<0.5	5.2	11	13	61	13200	9	1.1	14	422
27181	<0.5	3.8	18	7	48	6080	<5	<0.5	31	399
27182	<0.5	1.3	4	<5	31	4720	<5	<0.5	7	109
27183	<0.5	3.3	1	<5	39	3990	<5	<0.5	2	56
27184	<0.5	1.1	7	<5	30	12300	5	<0.5	10	156
27185	<0.5	1.5	5	<5	30	11500	<5	<0.5	8	125
27186	<0.5	1.1	3	<5	29	5630	11	<0.5	4	104
27187	<0.5	4.2	7	<5	32	17600	15	<0.5	9	121
27188	<0.5	1.5	5	<5	34	9230	6	<0.5	8	111
27189	<0.5	5.0	18	<5	74	8740	<5	<0.5	26	144
27190	<0.5	2.3	24	<5	60	5310	<5	0.6	33	205
27191	<0.5	2.4	8	<5	64	2800	<5	<0.5	12	125
27192	<0.5	6.3	13	<5	62	4970	<5	<0.5	24	50
27193	<0.5	2.3	6	<5	58	3460	<5	<0.5	9	100
27194	<0.5	5.2	53	6	45	4030	<5	<0.5	93	84
27195	<0.5	10.6	26	<5	48	1420	<5	0.5	33	184
27204	<0.5	13.6	31	<5	77	5000	6	<0.5	61	135
27205	<0.5	4.4	6	27	99	22700	6	<0.5	24	324
27206	<0.5	9.4	29	<5	2	3900	<5	5.2	36	200
27207	<0.5	20.7	84	<5	14	3620	<5	6.8	106	158
27208	<0.5	0.9	5	<5	19	4110	12	<0.5	5	193
27209	<0.5	0.9	16	<5	25	10700	15	<0.5	21	143
27210	<0.5	0.9	16	<5	29	6170	13	<0.5	21	161
27211	<0.5	0.4	4	<5	40	5510	11	<0.5	6	95
27212	<0.5	0.6	2	<5	46	5250	8	<0.5	3	79
27213	<0.5	0.5	6	<5	42	5210	12	<0.5	9	93
27214	<0.5	10.4	152	10	68	4450	28	2.6	236	205
27215	<0.5	15.9	58	21	76	6380	176	1.4	110	267
27216	<0.5	6.6	177	11	36	5060	41	3.8	204	360
27217	<0.5	5.6	124	9	38	5870	19	2.9	175	301
27218	<0.5	3.6	7	9	89	2090	6	<0.5	31	84
27219	<0.5	11.0	332	7	60	16100	<5	1.5	465	333
27220	<0.5	6.1	69	<5	14	13200	20	<0.5	109	129

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
27221	<0.5	7.1	32	<5	20	8830	15	0.6	62	101
27222	<0.5	4.6	46	<5	18	6890	7	<0.5	88	98
27223	<0.5	11.0	37	<5	7	1380	11	6.5	47	176
27224	<0.5	4.1	7	7	17	1760	11	<0.5	31	73
27225	<0.5	7.8	35	<5	5	3640	<5	7.1	52	247
27226	<0.5	12.2	21	<5	12	470	<5	3.5	28	103
27227	<0.5	9.8	24	<5	17	15800	5	1.2	36	103
27228	<0.5	6.4	20	<5	11	5020	7	1.6	28	75
27229	<0.5	4.1	6	13	54	3270	<5	<0.5	19	130
27230	<0.5	3.7	5	27	68	710	<5	<0.5	21	80
27231	<0.5	3.8	34	<5	43	350	<5	<0.5	73	92
27232	<0.5	4.1	25	<5	26	800	<5	<0.5	47	46
27233	<0.5	6.6	34	<5	11	1400	6	2.8	46	72
27234	<0.5	6.8	33	<5	2	140	<5	2.7	38	117
27235	<0.5	4.6	20	<5	4	310	6	2.2	28	75
27236	<0.5	10.8	39	<5	5	2720	5	3.2	60	69
27237	<0.5	5.2	24	<5	25	2770	<5	1.4	30	61
27238	<0.5	10.1	16	<5	21	17300	6	0.6	27	114
27239	<0.5	18.6	35	<5	2	620	<5	2.5	50	85
27240	<0.5	11.1	20	<5	3	4050	<5	6.7	18	112
27241	<0.5	9.0	69	<5	4	4560	13	11.9	72	118
27242	<0.5	9.9	276	<5	7	950	6	23.3	358	45
27243	<0.5	12.7	45	<5	1	1360	<5	1.2	72	80
27244	<0.5	12.1	11	<5	4	3550	<5	9.4	12	142
27245	<0.5	13.3	14	<5	2	3310	<5	5.6	21	124
27246	0.9	16.3	19	<5	5	1350	<5	6.6	26	115
27247	<0.5	9.6	22	<5	4	3270	<5	1.3	39	103
27248	<0.5	9.1	14	<5	4	3120	<5	4.3	17	92
27249	<0.5	8.8	48	<5	3	310	<5	<0.5	75	57
27250	<0.5	6.6	25	<5	7	820	<5	<0.5	48	77
*Rep 27178	<0.5	2.5	4	5	37	13100	9	<0.5	6	106
*Rep 27192	<0.5	6.1	10	<5	70	5860	<5	<0.5	20	50
*Rep 27208	<0.5	0.8	4	<5	18	3230	12	<0.5	4	183
*Rep 27221	<0.5	6.9	38	<5	21	3750	13	0.6	76	80
*Rep 27235	<0.5	4.3	18	<5	4	180	<5	1.7	24	53
*Rep 27247	<0.5	9.4	17	<5	6	3800	<5	1.5	28	130
*Std MMISRM16	<0.5	35.2	4	<5	31	110	45	<0.5	16	232
*Std AMIS0169	<0.5	41.6	393	<5	29	3680	<5	3.2	352	436
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27170	0.6	2140	<1	3	<1	31	<1	7	5	<1
27171	0.2	360	<1	<1	<1	10	<1	<5	<1	<1
27172	0.3	70	<1	6	<1	38	<1	15	5	<1
27173	0.2	20	<1	3	<1	35	<1	<5	2	<1
27174	0.4	120	<1	5	<1	39	<1	38	4	<1
27175	0.4	60	<1	2	<1	<5	<1	7	3	<1
27176	0.3	20	<1	2	<1	<5	<1	<5	2	<1
27177	0.2	90	<1	1	<1	<5	<1	13	2	<1
27178	0.2	100	<1	1	<1	7	<1	<5	2	<1
27179	0.1	290	<1	6	<1	42	<1	15	5	<1
27180	0.1	60	<1	3	<1	28	<1	8	3	<1
27181	0.1	220	<1	7	<1	29	<1	<5	8	<1
27182	0.2	190	<1	2	<1	9	<1	<5	1	<1
27183	0.3	370	<1	<1	<1	12	<1	<5	<1	<1
27184	0.2	180	<1	2	<1	17	<1	6	2	<1
27185	0.2	150	<1	2	<1	9	<1	<5	2	<1
27186	0.2	50	<1	1	<1	5	<1	<5	<1	<1
27187	0.2	50	<1	2	<1	7	<1	<5	2	<1
27188	0.2	70	<1	2	<1	<5	<1	<5	2	<1
27189	0.1	200	<1	6	<1	60	<1	15	6	<1
27190	0.2	410	<1	7	<1	39	<1	13	8	<1
27191	0.1	330	<1	3	<1	10	<1	<5	3	<1
27192	0.8	1360	<1	5	<1	45	<1	<5	7	<1
27193	0.2	180	<1	2	<1	21	<1	<5	2	<1
27194	0.2	1070	<1	20	<1	69	<1	17	25	<1
27195	0.3	120	<1	8	<1	99	<1	19	7	<1
27204	0.1	50	<1	12	<1	48	<1	12	16	<1
27205	<0.1	70	<1	4	<1	22	<1	6	10	<1
27206	2.3	450	<1	8	<1	108	1	53	9	1
27207	1.9	270	<1	25	<1	67	<1	40	23	<1
27208	0.2	<10	<1	1	<1	7	<1	8	1	<1
27209	0.3	30	<1	5	<1	6	<1	10	4	<1
27210	0.4	10	<1	5	<1	<5	<1	5	4	<1
27211	0.2	10	<1	1	<1	<5	<1	<5	1	<1
27212	0.2	10	<1	<1	<1	<5	<1	<5	1	<1
27213	0.3	20	<1	2	<1	<5	<1	<5	3	<1
27214	0.5	310	<1	54	<1	16	<1	25	46	<1
27215	0.2	380	<1	24	<1	13	<1	10	23	<1
27216	0.2	380	<1	51	<1	28	<1	27	34	<1
27217	0.1	210	<1	42	<1	98	<1	15	31	<1
27218	<0.1	40	<1	5	<1	30	<1	10	12	<1
27219	0.1	120	<1	106	<1	36	<1	68	94	<1
27220	0.2	30	<1	25	<1	87	<1	11	21	<1

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27221	0.1	50	<1	13	<1	65	<1	18	15	<1
27222	<0.1	30	<1	18	<1	62	<1	17	19	<1
27223	2.2	50	<1	11	<1	79	1	49	11	1
27224	<0.1	40	<1	5	<1	31	<1	10	11	<1
27225	3.0	340	<1	11	<1	175	<1	53	12	1
27226	0.9	120	<1	6	<1	114	<1	24	7	<1
27227	0.8	40	<1	8	<1	74	<1	9	7	<1
27228	0.6	50	<1	7	<1	118	<1	10	6	<1
27229	<0.1	30	<1	5	<1	46	<1	9	6	<1
27230	<0.1	40	<1	3	<1	35	<1	<5	8	<1
27231	<0.1	20	<1	14	<1	51	<1	11	19	<1
27232	<0.1	10	<1	9	<1	71	<1	13	12	<1
27233	0.9	130	<1	10	<1	76	<1	27	10	<1
27234	1.4	50	<1	9	<1	64	<1	22	10	<1
27235	1.0	50	<1	6	<1	49	<1	40	8	<1
27236	1.2	320	<1	13	<1	76	<1	39	17	<1
27237	0.3	100	<1	7	<1	65	<1	19	7	<1
27238	0.2	70	<1	6	<1	111	<1	12	6	<1
27239	0.4	180	<1	11	<1	137	<1	27	12	<1
27240	4.4	110	<1	5	<1	75	<1	26	4	2
27241	4.2	150	<1	17	<1	73	2	74	17	2
27242	1.9	190	<1	83	<1	111	<1	72	78	3
27243	1.0	280	<1	16	<1	126	<1	32	16	<1
27244	5.3	70	<1	3	<1	78	1	30	3	2
27245	1.6	430	<1	4	<1	86	<1	31	5	1
27246	7.8	920	<1	6	<1	105	1	45	8	4
27247	0.4	130	<1	8	<1	50	<1	53	11	<1
27248	2.3	150	<1	4	<1	96	1	32	5	<1
27249	0.2	30	<1	16	<1	61	<1	42	16	<1
27250	0.3	60	<1	10	<1	92	<1	7	12	<1
*Rep 27178	0.1	110	<1	1	<1	9	<1	<5	2	<1
*Rep 27192	0.7	1550	<1	4	<1	45	<1	<5	6	<1
*Rep 27208	0.2	<10	<1	<1	<1	7	<1	9	<1	<1
*Rep 27221	0.1	40	<1	16	<1	55	<1	18	19	<1
*Rep 27235	0.7	50	<1	6	<1	53	<1	35	7	<1
*Rep 27247	0.4	70	<1	6	<1	50	<1	40	8	<1
*Std MMISRM16	0.3	110	23	3	<1	306	<1	8	5	<1
*Std AMIS0169	2.5	120	<1	95	<1	244	<1	54	57	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27170	360	<1	<1	<10	1.9	16	<0.5	3	<1	30
27171	470	<1	<1	<10	0.9	6	<0.5	<1	<1	5
27172	440	<1	<1	<10	3.8	31	<0.5	14	<1	27
27173	480	<1	<1	<10	3.1	11	0.6	5	<1	13
27174	720	<1	1	<10	10.7	77	<0.5	58	<1	53
27175	590	<1	<1	<10	1.9	13	<0.5	21	<1	23
27176	480	<1	<1	<10	1.0	9	<0.5	4	<1	13
27177	530	<1	<1	<10	3.5	20	<0.5	22	<1	34
27178	550	<1	<1	<10	2.4	8	<0.5	10	<1	14
27179	950	<1	<1	<10	10.3	30	<0.5	148	<1	41
27180	830	<1	<1	<10	4.7	29	<0.5	47	<1	12
27181	600	<1	1	<10	7.4	9	<0.5	20	<1	50
27182	450	<1	<1	<10	2.2	27	<0.5	3	<1	11
27183	450	<1	<1	<10	1.0	8	<0.5	<1	<1	<5
27184	460	<1	<1	<10	3.5	13	<0.5	20	<1	23
27185	450	<1	<1	<10	1.7	11	<0.5	14	<1	15
27186	380	<1	<1	<10	1.0	8	<0.5	3	<1	7
27187	390	<1	<1	<10	3.9	18	<0.5	10	<1	7
27188	360	<1	<1	<10	1.5	10	<0.5	7	<1	11
27189	530	<1	1	<10	10.0	21	<0.5	78	<1	52
27190	550	<1	2	<10	8.5	49	<0.5	58	<1	151
27191	410	<1	<1	<10	1.2	6	<0.5	14	<1	23
27192	150	<1	1	<10	3.6	17	<0.5	5	<1	43
27193	370	<1	<1	<10	1.0	6	<0.5	2	<1	15
27194	320	<1	5	<10	14.0	44	<0.5	11	<1	185
27195	440	<1	1	<10	11.5	38	<0.5	27	<1	47
27204	1280	<1	3	<10	15.8	13	<0.5	8	<1	70
27205	1790	<1	3	<10	11.4	18	0.9	4	<1	95
27206	50	<1	2	<10	20.0	2130	<0.5	6	<1	61
27207	370	<1	4	<10	42.7	1510	<0.5	5	<1	105
27208	380	<1	<1	<10	1.5	16	<0.5	11	<1	9
27209	400	<1	<1	<10	2.5	15	<0.5	21	<1	34
27210	440	<1	<1	<10	1.7	11	<0.5	17	<1	23
27211	470	<1	<1	<10	0.8	4	<0.5	8	<1	10
27212	520	<1	<1	<10	0.7	6	<0.5	7	<1	7
27213	490	<1	<1	<10	1.3	6	<0.5	12	<1	21
27214	1000	<1	7	<10	42.5	182	<0.5	38	2	176
27215	1270	<1	4	<10	23.9	94	<0.5	53	1	100
27216	750	<1	5	<10	30.8	52	<0.5	52	1	127
27217	840	<1	4	<10	42.3	103	<0.5	13	<1	103
27218	1180	<1	3	<10	5.3	11	<0.5	6	<1	94
27219	1720	<1	17	<10	55.9	170	<0.5	32	<1	461
27220	1140	<1	3	<10	19.1	6	<0.5	12	<1	63

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27221	1470	<1	3	<10	41.4	12	<0.5	8	<1	68
27222	1410	<1	4	<10	19.1	7	<0.5	10	<1	109
27223	220	<1	2	<10	19.2	2550	<0.5	6	1	53
27224	2210	<1	3	<10	8.0	14	<0.5	3	<1	86
27225	100	<1	3	<10	15.2	2760	0.6	5	<1	107
27226	240	<1	2	<10	8.4	1220	<0.5	4	<1	43
27227	390	<1	<1	<10	14.0	145	<0.5	5	<1	25
27228	260	<1	<1	<10	10.8	443	<0.5	4	<1	23
27229	1550	<1	2	<10	8.5	18	<0.5	11	<1	45
27230	1280	<1	2	<10	6.1	6	0.5	5	<1	60
27231	1400	<1	4	<10	18.3	8	<0.5	14	<1	95
27232	1190	<1	2	<10	18.0	4	<0.5	9	<1	57
27233	240	<1	2	<10	15.4	873	<0.5	6	<1	43
27234	120	<1	2	<10	9.4	885	<0.5	4	<1	43
27235	180	<1	2	<10	7.6	926	<0.5	5	<1	31
27236	130	<1	4	<10	40.2	1030	<0.5	9	<1	77
27237	920	<1	1	<10	24.1	255	<0.5	5	<1	37
27238	730	<1	1	<10	17.0	24	<0.5	7	<1	33
27239	120	<1	2	<10	12.7	636	<0.5	5	<1	62
27240	90	<1	1	<10	12.3	3110	<0.5	6	<1	24
27241	120	<1	3	<10	34.7	5470	<0.5	17	2	52
27242	260	2	12	<10	50.8	7920	0.9	13	2	275
27243	20	<1	3	<10	8.7	332	<0.5	4	<1	80
27244	60	<1	<1	<10	12.4	3730	<0.5	5	<1	21
27245	50	<1	1	<10	7.9	1660	<0.5	4	<1	49
27246	90	<1	2	<10	8.5	1650	0.6	4	<1	41
27247	130	<1	3	<10	4.6	338	<0.5	2	<1	114
27248	80	<1	1	<10	10.1	1160	<0.5	3	<1	32
27249	280	<1	2	<10	4.4	45	<0.5	5	<1	80
27250	690	<1	2	<10	14.8	10	<0.5	7	<1	36
*Rep 27178	560	<1	<1	<10	2.6	9	<0.5	10	<1	15
*Rep 27192	180	<1	1	<10	2.1	14	<0.5	4	<1	40
*Rep 27208	360	<1	<1	<10	1.6	17	<0.5	12	<1	8
*Rep 27221	1700	<1	4	<10	32.3	41	<0.5	9	<1	83
*Rep 27235	180	<1	1	<10	6.9	712	<0.5	4	<1	30
*Rep 27247	170	<1	2	<10	4.0	421	<0.5	1	<1	72
*Std MMISRM16	460	<1	<1	<10	24.3	4	<0.5	50	<1	11
*Std AMIS0169	80	<1	7	<10	72.4	390	1.4	26	2	118
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	3	<0.5	<1	<1	<5

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
27170	4	2000	<5
27171	<1	340	<5
27172	2	240	<5
27173	1	170	<5
27174	6	190	13
27175	2	480	<5
27176	1	220	<5
27177	4	490	6
27178	1	290	<5
27179	5	190	11
27180	1	70	5
27181	4	370	8
27182	<1	190	<5
27183	<1	550	<5
27184	2	440	<5
27185	1	590	<5
27186	<1	310	<5
27187	<1	430	<5
27188	<1	640	<5
27189	5	900	11
27190	16	230	12
27191	1	540	<5
27192	6	2030	<5
27193	1	700	<5
27194	15	2490	8
27195	4	680	9
27204	6	190	10
27205	10	70	8
27206	7	780	56
27207	9	190	66
27208	<1	160	<5
27209	3	360	<5
27210	2	200	<5
27211	<1	250	<5
27212	<1	170	<5
27213	1	230	<5
27214	15	40	42
27215	10	60	19
27216	12	140	23
27217	9	250	32
27218	8	30	6
27219	57	70	52
27220	4	30	9

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
27221	7	80	25
27222	9	30	10
27223	6	180	46
27224	8	30	<5
27225	10	970	47
27226	4	120	22
27227	2	50	13
27228	2	100	20
27229	5	50	6
27230	6	70	<5
27231	7	50	8
27232	4	30	8
27233	4	80	31
27234	4	60	26
27235	3	160	22
27236	8	640	62
27237	3	90	30
27238	4	180	16
27239	5	210	27
27240	2	430	44
27241	5	230	93
27242	22	200	123
27243	6	270	20
27244	3	900	42
27245	5	610	34
27246	4	1100	31
27247	9	370	13
27248	3	850	30
27249	5	40	8
27250	3	60	9
*Rep 27178	2	280	<5
*Rep 27192	4	2310	<5
*Rep 27208	<1	200	<5
*Rep 27221	8	30	20
*Rep 27235	3	80	21
*Rep 27247	7	330	13
*Std MMISRM16	<1	270	21
*Std AMIS0169	10	210	51
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5

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Certificate of Analysis

Work Order: TO113568

To: **COD SGS Minerals**
C/O P.O. Box 439
Whiffen Head Road
ARNOLD COVE
NF A0B 1A0

Date: Jan 26, 2011

P.O. No.	:	Douglas Robinsom
Project No.	:	-
No. Of Samples	:	48
Date Submitted	:	Jan 13, 2011
Report Comprises	:	Pages 1 to 13 (Inclusive of Cover Sheet)

Distribution of unused material:
STORE:

Certified By :

Gavin McGill
Operations Manager

SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Methods marked with the @ symbol (e.g. @AAS21E) denote accredited tests

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27253	<1	36	<10	<0.1	110	3	180	25	17	21
27254	16	78	<10	0.3	1640	<1	660	11	94	39
27255	9	78	<10	0.3	1290	<1	580	11	116	28
27256	11	45	<10	0.3	1670	<1	590	7	151	63
27257	13	98	<10	0.2	1670	<1	550	15	276	152
27258	2	87	<10	0.1	280	<1	310	73	45	74
27259	13	19	<10	0.4	1610	<1	500	8	33	45
27260	4	15	<10	0.5	1800	<1	400	8	103	142
27261	3	123	<10	0.4	1470	<1	300	6	257	53
27262	6	283	30	<0.1	1530	1	40	26	82	420
27263	4	236	30	0.3	3020	1	170	5	325	132
27264	9	168	20	0.1	1310	<1	140	5	117	61
27265	6	>300	10	0.3	1000	<1	30	4	208	41
27266	7	224	20	<0.1	1520	<1	110	12	169	145
27267	3	181	10	0.3	900	<1	30	4	199	41
27268	2	271	<10	0.4	1380	<1	90	3	245	50
27269	<1	234	<10	0.4	1340	<1	150	2	279	47
27270	8	12	<10	0.5	1880	<1	410	6	51	318
27271	8	12	<10	0.3	2070	<1	440	7	36	166
27272	6	62	10	0.3	2410	<1	380	20	412	263
27273	5	101	<10	0.2	1540	<1	240	17	96	136
27274	6	89	<10	0.2	940	<1	300	22	128	133
27275	<1	85	<10	<0.1	690	<1	270	2	64	106
27276	6	21	<10	0.2	3600	<1	560	3	152	73
27277	8	34	<10	0.2	2740	<1	530	4	193	78
27278	4	24	<10	0.2	3180	<1	580	4	28	73
27279	25	12	<10	0.2	2800	<1	660	3	22	88
27280	11	12	<10	0.3	2410	<1	640	2	11	117
27281	13	17	<10	0.2	1680	<1	740	7	135	194
27282	11	22	<10	0.3	1720	<1	570	7	75	172
27283	15	40	<10	0.1	1280	<1	540	25	238	116
27284	11	37	<10	0.2	1940	<1	570	8	213	97
27285	10	30	<10	0.6	2300	<1	470	5	352	117
27286	14	26	<10	0.2	1520	<1	550	7	130	75
27287	24	23	<10	0.4	1730	<1	460	7	565	96
27288	19	13	<10	0.3	1770	<1	450	8	33	195
27289	11	71	<10	0.2	1350	<1	550	17	237	161
27290	29	71	<10	0.3	1250	<1	490	29	180	272
27291	13	31	<10	0.3	1140	<1	510	12	63	53
27292	4	11	<10	0.7	1030	<1	340	4	17	153
27293	6	12	<10	0.4	1000	<1	310	5	21	69
27294	13	17	<10	0.4	1280	<1	400	6	29	128
27295	27	31	<10	0.2	1540	<1	570	7	105	12

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27296	13	16	<10	0.5	1600	<1	480	2	<5	14
27297	2	123	<10	0.3	2520	<1	200	5	332	71
27298	2	>300	30	0.2	1170	1	20	21	176	97
27299	9	>300	20	<0.1	850	1	10	16	131	195
27300	4	276	20	<0.1	420	3	10	18	73	192
*Rep 27258	3	111	<10	0.1	330	<1	380	75	118	79
*Rep 27271	8	13	<10	0.5	2260	<1	510	5	36	190
*Rep 27279	30	12	<10	0.3	2650	<1	660	3	14	94
*Rep 27296	13	17	<10	0.5	1560	<1	490	2	<5	13
*Std MMISRM16	17	48	20	22.5	70	<1	220	4	19	56
*Std AMIS0169	8	72	10	0.9	840	<1	40	2	837	116
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27253	<100	0.6	40	3	1.8	0.7	35	8	3	<1
27254	<100	0.6	1570	22	13.4	5.9	9	2	28	<1
27255	<100	0.6	1190	19	11.4	5.5	16	2	24	<1
27256	<100	<0.5	1290	15	8.7	4.5	12	3	20	<1
27257	200	1.0	2050	31	22.9	7.2	27	4	31	<1
27258	<100	<0.5	3220	18	15.7	2.3	101	3	12	<1
27259	<100	<0.5	1080	15	8.8	3.3	6	1	18	<1
27260	<100	0.6	630	5	2.3	2.7	9	1	10	<1
27261	<100	2.7	1080	47	26.7	10.6	45	4	47	<1
27262	200	2.6	500	10	7.0	2.0	176	29	8	<1
27263	400	2.1	1040	26	14.0	9.7	191	34	32	1
27264	200	2.3	350	11	5.5	4.1	95	43	14	<1
27265	300	3.2	400	25	13.0	9.0	179	58	32	<1
27266	400	5.4	540	9	5.6	2.7	223	30	10	<1
27267	100	2.3	700	57	31.5	17.9	101	22	73	<1
27268	300	1.9	590	28	13.0	9.6	141	32	35	<1
27269	300	1.5	750	27	12.8	10.0	123	17	34	<1
27270	<100	<0.5	1540	14	8.3	3.7	6	<1	18	<1
27271	<100	<0.5	1320	7	4.4	2.0	6	1	9	<1
27272	<100	<0.5	4610	26	16.6	8.3	187	5	32	<1
27273	<100	2.7	1930	15	12.1	2.5	198	2	10	<1
27274	<100	0.9	3030	20	16.7	3.5	152	2	15	<1
27275	<100	<0.5	870	9	5.3	1.9	136	2	8	<1
27276	<100	<0.5	4650	10	5.6	4.0	25	3	15	<1
27277	<100	<0.5	3580	7	3.7	2.8	36	3	11	<1
27278	<100	<0.5	5210	6	4.0	1.8	16	1	7	<1
27279	<100	<0.5	6320	9	5.5	2.2	7	<1	9	<1
27280	<100	<0.5	3640	6	4.3	1.3	6	<1	7	<1
27281	<100	<0.5	980	14	9.6	2.4	3	2	14	<1
27282	<100	<0.5	1280	9	5.5	2.6	15	2	11	<1
27283	<100	0.8	2480	10	5.4	3.6	43	3	14	<1
27284	<100	<0.5	3010	10	5.6	3.5	22	3	14	<1
27285	<100	0.7	1730	9	4.5	3.9	43	4	13	<1
27286	<100	<0.5	1300	13	7.5	3.9	19	2	18	<1
27287	<100	0.5	6330	29	15.8	11.5	82	7	45	<1
27288	<100	<0.5	1610	9	5.0	2.1	4	<1	10	<1
27289	<100	0.6	1280	20	12.6	5.2	9	3	23	<1
27290	<100	1.1	2860	16	11.3	5.5	28	3	19	<1
27291	<100	<0.5	670	10	5.2	2.9	6	1	14	<1
27292	<100	<0.5	550	7	3.9	1.9	4	<1	10	1
27293	<100	<0.5	480	7	3.2	1.9	4	<1	9	<1
27294	<100	<0.5	950	15	8.0	3.9	6	<1	18	1
27295	<100	0.5	1370	32	16.8	9.6	12	2	41	<1

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Element	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
27296	<100	<0.5	640	17	9.0	3.4	4	<1	18	1
27297	<100	3.8	690	48	25.2	13.9	46	10	56	<1
27298	300	5.3	680	17	9.3	4.8	145	15	18	1
27299	300	4.7	510	15	7.4	4.0	123	15	16	2
27300	300	1.7	480	17	9.0	4.1	212	43	17	<1
*Rep 27258	<100	1.1	4240	19	15.5	3.4	104	8	15	<1
*Rep 27271	<100	<0.5	1540	6	3.8	1.9	8	<1	7	<1
*Rep 27279	<100	<0.5	6650	9	5.6	2.3	7	<1	10	<1
*Rep 27296	<100	<0.5	640	16	8.7	3.4	4	<1	18	1
*Std MMISRM16	<100	11.9	660	2	0.9	1.2	2	<1	4	14
*Std AMIS0169	100	7.5	4180	33	13.6	13.0	51	17	54	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1
*Blk BLANK	<100	<0.5	<10	<1	<0.5	<0.5	<1	<1	<1	<1

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
27253	<0.5	5.8	8	<5	8	430	7	0.6	13	45
27254	<0.5	7.3	55	<5	27	1600	<5	<0.5	92	215
27255	<0.5	7.4	62	<5	38	1170	<5	0.6	94	201
27256	<0.5	12.4	46	<5	68	1730	6	0.8	78	263
27257	<0.5	11.4	126	<5	56	10600	8	2.0	144	488
27258	<0.5	3.4	32	<5	29	6470	9	0.9	37	358
27259	<0.5	12.1	11	13	129	7130	6	<0.5	33	321
27260	<0.5	5.8	22	<5	73	9420	12	<0.5	40	155
27261	<0.5	19.3	122	<5	66	1990	<5	0.8	167	229
27262	<0.5	10.0	25	<5	6	17800	<5	14.9	27	222
27263	<0.5	6.6	134	<5	10	1200	12	16.3	151	158
27264	<0.5	7.8	61	<5	12	2550	8	14.8	63	116
27265	<0.5	5.0	100	<5	3	580	10	14.7	133	89
27266	<0.5	11.7	24	<5	9	4530	6	17.1	31	216
27267	<0.5	5.4	122	<5	2	350	12	10.4	209	66
27268	<0.5	2.7	134	<5	5	820	10	10.8	152	68
27269	<0.5	1.7	150	<5	7	490	7	7.2	170	93
27270	<0.5	8.3	13	9	121	5890	7	<0.5	35	307
27271	<0.5	8.7	9	6	119	18800	19	<0.5	22	162
27272	<0.5	11.9	183	<5	82	14000	32	5.2	214	492
27273	<0.5	5.9	32	<5	45	17700	34	1.9	44	256
27274	<0.5	9.5	50	<5	42	9630	22	2.3	64	448
27275	<0.5	4.7	25	<5	38	7900	6	0.9	31	299
27276	<0.5	15.9	55	15	72	7270	100	2.2	83	229
27277	<0.5	15.2	60	12	71	10400	57	3.2	70	261
27278	<0.5	18.7	8	28	88	8860	97	1.1	19	204
27279	<0.5	17.9	4	36	113	7410	14	<0.5	18	168
27280	<0.5	15.0	3	37	130	10900	23	<0.5	13	153
27281	<0.5	12.9	3	37	153	10400	10	<0.5	12	341
27282	<0.5	9.9	15	20	93	9390	14	0.6	35	317
27283	<0.5	9.8	76	<5	77	9790	9	2.6	91	415
27284	<0.5	9.4	61	11	67	10200	17	1.8	80	259
27285	<0.5	11.9	77	9	56	11300	13	4.1	97	181
27286	<0.5	11.9	40	19	92	4020	12	0.7	68	341
27287	<0.5	13.0	303	17	62	9190	56	5.3	336	281
27288	<0.5	11.3	7	29	91	7710	16	<0.5	19	363
27289	<0.5	4.6	72	<5	93	8570	<5	1.2	94	463
27290	<0.5	6.0	99	<5	83	21300	8	2.7	119	508
27291	<0.5	7.5	22	8	93	2450	6	<0.5	43	292
27292	<0.5	6.4	6	23	104	11200	15	<0.5	17	350
27293	<0.5	6.8	7	21	85	6860	13	<0.5	18	185
27294	<0.5	7.7	14	18	113	7090	9	<0.5	36	319
27295	<0.5	7.6	75	<5	122	240	5	<0.5	138	336

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Element	In	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.5	0.1	1	5	1	10	5	0.5	1	5
Units	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
27296	<0.5	5.9	7	<5	119	730	8	<0.5	26	96
27297	<0.5	8.0	159	<5	34	2350	<5	5.2	214	138
27298	<0.5	7.0	78	<5	2	2220	6	6.5	75	187
27299	<0.5	13.9	53	<5	3	6600	<5	5.3	62	196
27300	0.5	10.9	31	<5	6	6030	<5	15.5	51	191
*Rep 27258	<0.5	6.8	96	11	30	7290	12	2.8	81	350
*Rep 27271	<0.5	8.8	8	<5	125	15000	17	<0.5	23	136
*Rep 27279	<0.5	18.0	3	35	117	7330	15	<0.5	18	190
*Rep 27296	<0.5	5.7	7	<5	116	600	<5	<0.5	29	106
*Std MMISRM16	<0.5	37.0	4	<5	34	110	49	<0.5	16	214
*Std AMIS0169	<0.5	42.1	456	<5	33	4170	<5	3.4	397	482
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5
*Blk BLANK	<0.5	<0.1	<1	<5	<1	<10	<5	<0.5	<1	<5

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27253	0.9	240	<1	3	<1	31	<1	8	3	<1
27254	<0.1	100	<1	20	<1	112	<1	12	23	<1
27255	<0.1	90	<1	21	<1	113	<1	13	20	<1
27256	0.1	40	<1	17	<1	83	<1	16	18	<1
27257	0.2	220	<1	35	<1	118	<1	34	28	<1
27258	0.5	230	<1	9	<1	10	2	20	8	<1
27259	<0.1	50	<1	6	<1	24	<1	10	11	<1
27260	0.1	20	<1	8	<1	75	<1	5	9	<1
27261	0.1	130	<1	38	<1	145	<1	51	40	<1
27262	2.4	310	<1	7	<1	104	<1	55	7	3
27263	3.3	90	<1	37	<1	64	<1	68	32	2
27264	2.7	100	<1	15	<1	109	<1	37	14	4
27265	1.9	100	<1	30	<1	91	1	85	30	3
27266	3.1	130	<1	7	<1	110	<1	50	8	2
27267	1.0	200	<1	40	<1	72	<1	61	58	1
27268	3.9	80	<1	38	<1	38	<1	67	36	2
27269	1.9	50	<1	43	<1	28	<1	67	37	<1
27270	<0.1	90	<1	6	<1	13	<1	7	11	<1
27271	<0.1	30	<1	4	<1	25	<1	6	7	<1
27272	0.4	260	<1	53	<1	45	<1	74	36	<1
27273	0.4	250	<1	11	<1	85	<1	56	9	<1
27274	0.9	420	<1	16	<1	39	<1	45	13	<1
27275	0.5	50	<1	8	<1	32	<1	29	7	<1
27276	0.2	410	<1	19	<1	34	<1	11	15	<1
27277	0.2	430	<1	19	<1	43	<1	12	11	<1
27278	<0.1	430	<1	4	<1	28	<1	6	5	<1
27279	<0.1	160	<1	3	<1	30	<1	<5	6	<1
27280	<0.1	110	<1	2	<1	16	<1	<5	4	<1
27281	<0.1	20	<1	2	<1	22	<1	7	7	<1
27282	<0.1	70	<1	7	<1	32	<1	8	9	<1
27283	0.2	220	<1	23	<1	56	<1	9	15	<1
27284	0.2	190	<1	19	<1	38	<1	8	14	<1
27285	0.3	230	<1	25	<1	59	<1	15	14	<1
27286	<0.1	70	<1	15	<1	54	<1	11	14	<1
27287	0.5	330	<1	86	<1	41	<1	23	54	<1
27288	<0.1	60	<1	4	<1	30	<1	5	6	<1
27289	<0.1	160	<1	23	<1	73	<1	9	19	<1
27290	0.1	210	<1	30	<1	109	<1	16	21	<1
27291	<0.1	40	<1	9	<1	75	<1	7	11	<1
27292	<0.1	60	<1	3	<1	37	<1	<5	5	<1
27293	<0.1	40	<1	3	<1	36	<1	<5	6	<1
27294	<0.1	80	<1	7	<1	45	<1	8	11	<1
27295	0.1	40	<1	29	<1	89	<1	15	33	<1

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Element	P	Pb	Pd	Pr	Pt	Rb	Sb	Sc	Sm	Sn
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	0.1	10	1	1	1	5	1	5	1	1
Units	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27296	<0.1	20	<1	4	<1	45	<1	12	9	<1
27297	0.5	200	<1	47	<1	125	<1	68	48	<1
27298	3.2	300	<1	19	<1	125	1	55	17	1
27299	4.8	310	<1	15	<1	144	<1	53	14	1
27300	3.9	310	<1	10	<1	83	1	55	14	4
*Rep 27258	1.6	220	<1	22	<1	26	3	33	14	<1
*Rep 27271	<0.1	20	<1	5	<1	26	<1	5	6	<1
*Rep 27279	<0.1	150	<1	3	<1	29	<1	5	6	<1
*Rep 27296	<0.1	20	<1	5	<1	48	<1	11	10	<1
*Std MMISRM16	0.3	100	26	3	<1	319	<1	9	5	<1
*Std AMIS0169	2.7	130	<1	107	<1	235	<1	63	65	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1
*Blk BLANK	<0.1	<10	<1	<1	<1	<5	<1	<5	<1	<1

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27253	250	<1	<1	<10	7.2	38	<0.5	1	<1	15
27254	1230	<1	4	<10	24.2	10	<0.5	26	<1	109
27255	1100	<1	4	<10	31.3	7	<0.5	30	<1	96
27256	1200	<1	3	<10	43.8	80	<0.5	41	<1	69
27257	980	<1	5	<10	39.5	100	0.7	103	<1	177
27258	610	<1	2	<10	7.3	48	<0.5	340	<1	130
27259	1330	<1	3	<10	9.4	53	<0.5	11	<1	74
27260	1020	<1	1	<10	7.3	<3	<0.5	16	<1	25
27261	950	<1	8	<10	35.1	81	<0.5	24	<1	252
27262	100	1	1	<10	22.7	5790	<0.5	6	1	52
27263	320	1	5	<10	50.1	5600	<0.5	11	3	117
27264	290	1	2	<10	13.8	7540	<0.5	6	2	55
27265	70	1	5	<10	23.1	7120	<0.5	10	2	115
27266	300	1	2	<10	29.1	7580	<0.5	6	2	44
27267	60	<1	10	<10	20.0	4200	<0.5	9	1	297
27268	270	<1	6	<10	33.0	4610	<0.5	11	1	117
27269	300	<1	5	<10	34.6	2240	<0.5	8	1	113
27270	890	<1	3	<10	8.4	17	<0.5	5	<1	77
27271	1160	<1	1	<10	4.2	21	<0.5	6	<1	33
27272	870	<1	5	<10	30.8	228	<0.5	116	<1	147
27273	640	<1	2	<10	14.8	112	0.7	91	<1	85
27274	840	<1	3	<10	15.3	148	<0.5	122	1	114
27275	670	<1	1	<10	8.7	60	<0.5	49	<1	50
27276	1530	<1	2	<10	26.7	135	<0.5	28	1	47
27277	1320	<1	2	<10	49.4	119	<0.5	63	2	33
27278	1660	<1	<1	<10	18.5	61	<0.5	19	1	29
27279	2130	<1	1	<10	10.2	27	<0.5	21	<1	38
27280	2060	<1	<1	<10	7.9	46	<0.5	13	<1	30
27281	1970	<1	2	<10	7.9	24	<0.5	8	<1	74
27282	1280	<1	2	<10	19.5	61	<0.5	17	<1	43
27283	980	<1	2	<10	40.8	29	<0.5	73	<1	49
27284	1120	<1	2	<10	35.9	89	<0.5	60	<1	47
27285	960	<1	2	<10	64.3	198	<0.5	59	<1	39
27286	1330	<1	3	<10	31.9	82	<0.5	52	<1	64
27287	900	<1	7	<10	62.2	106	<0.5	46	2	156
27288	940	<1	1	<10	8.7	19	<0.5	14	<1	37
27289	910	<1	4	<10	45.4	71	0.6	74	<1	89
27290	790	<1	3	<10	29.2	34	0.8	139	<1	89
27291	730	<1	2	<10	18.4	19	<0.5	28	<1	43
27292	600	<1	1	<10	7.9	9	0.7	5	<1	35
27293	560	<1	1	<10	5.9	6	<0.5	8	<1	31
27294	690	<1	3	<10	11.2	28	<0.5	9	<1	71
27295	950	<1	6	<10	21.7	35	<0.5	18	<1	137

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Element	Sr	Ta	Tb	Te	Th	Ti	Tl	U	W	Y
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	10	1	1	10	0.5	3	0.5	1	1	5
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
27296	1340	<1	3	<10	7.4	10	<0.5	16	<1	72
27297	1060	<1	9	<10	39.4	1560	<0.5	14	<1	237
27298	100	<1	3	<10	37.5	1540	0.8	13	1	71
27299	40	<1	3	<10	31.6	2170	<0.5	9	<1	61
27300	40	<1	3	<10	23.4	7930	<0.5	10	1	79
*Rep 27258	590	<1	3	<10	11.4	414	<0.5	283	<1	133
*Rep 27271	1330	<1	<1	<10	4.1	19	<0.5	7	<1	30
*Rep 27279	2140	<1	2	<10	8.8	36	<0.5	23	<1	38
*Rep 27296	1360	<1	3	<10	7.6	4	<0.5	16	<1	68
*Std MMISRM16	490	<1	<1	<10	23.5	21	<0.5	50	<1	10
*Std AMIS0169	80	<1	8	<10	89.2	429	1.4	29	2	130
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5
*Blk BLANK	<10	<1	<1	<10	<0.5	<3	<0.5	<1	<1	<5

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Final : TO11356B Order: Douglas Robinson

Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
27253	2	690	9
27254	11	310	14
27255	9	130	19
27256	7	120	26
27257	20	260	45
27258	13	240	18
27259	7	170	11
27260	2	70	9
27261	20	140	43
27262	6	1170	69
27263	12	540	131
27264	4	220	69
27265	11	150	97
27266	4	900	98
27267	24	100	71
27268	10	70	105
27269	9	80	99
27270	7	80	7
27271	3	100	18
27272	16	210	45
27273	12	540	24
27274	15	260	23
27275	5	80	10
27276	5	30	31
27277	4	50	27
27278	4	60	17
27279	5	30	9
27280	4	50	7
27281	9	140	6
27282	5	70	16
27283	5	130	17
27284	5	70	22
27285	4	50	45
27286	7	140	20
27287	15	50	72
27288	4	70	8
27289	11	120	23
27290	11	140	36
27291	4	180	8
27292	3	90	9
27293	2	80	6
27294	7	110	10
27295	13	50	11

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Element	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
27296	7	70	6
27297	18	90	48
27298	7	420	72
27299	6	730	75
27300	8	580	58
*Rep 27258	13	300	31
*Rep 27271	3	70	12
*Rep 27279	5	20	9
*Rep 27296	7	60	6
*Std MMISRM16	<1	280	21
*Std AMIS0169	12	230	56
*Blk BLANK	<1	<20	<5
*Blk BLANK	<1	<20	<5

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