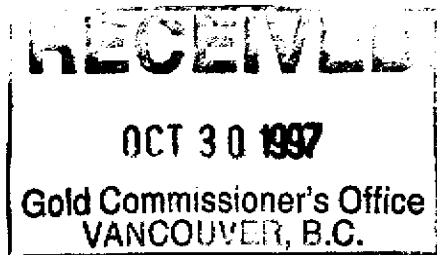


**Geological, Geochemical and Geophysical Report on the 1997 Field Work
Mesabi Property
Mineral Claims: Mesabi-317246 and Mesabi 2- 358071**

Kamloops Mining Division

Heffley Creek, B.C.

**NTS 92 I/16
Longitude 120° 4' - Latitude 50° 50'**



Work performed by: Echo Bay Mines

Property owner: Dr. R. H. MacMillan

Report by

**Dr. G. J. Arseneau
Echo Bay Mines Ltd.**

October, 1997

25,203

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Summary

The Mesabi property is situated 36 km north of Kamloops BC, on the north shore of Heffley Lake. The property was staked by R.H. MacMillan in April of 1993. Based on the results of a preliminary field evaluation, Echo Bay Mines decided to option the property from the vendors in September of 1997. An additional 38 units were staked and added to the original 20 unit claim block and a one month field program was planned to carry out geological mapping, ground magnetic and soil surveys over the area of anomalous gold values.

The property is underlain by Mississippian to Permian volcanic and sedimentary rocks of the Harper Ranch Group. The Harper Ranch Group consists of a sequence of northwest striking, northeast dipping argillite, limestone and calc-silicate rocks intruded by porphyritic dacite stocks.

The field program identified a large northwest trending gold and copper anomaly that extends for over 1.5 kilometre in a northwest direction across the property. The large soil anomaly is defined by the 20 ppb contour and composed of three discrete peaks marked by values in excess of 500 ppb gold and 1200 ppm copper. The three anomalous peaks coincide with areas of known calc-silicate out crops and high magnetic gradient. The property appears to have the potential for hosting a skarn type gold deposit similar to the Crown Jewel deposit and the anomalies should be drill tested as soon as the climate permits.

Introduction

This report summarizes the results of a three week field program carried out in September of 1997 to evaluate the property. The program included the establishment of a ground control grid, field mapping and sampling, soil geochemical and ground magnetometer surveys. Field work was carried out under the supervision of G. Arseneau, Ph.D. and B. McGrath. All data is presented on 1:5000 maps.

Location and Access

The Mesabi property is situated 36 km north of Kamloops BC, on the north shore of Heffley Lake. The property is situated at longitude 120 deg. 04 minutes west and at latitude 50 deg. 50 minutes north, on NTS sheet 92I/16E. Access to the property is north from Kamloops on highway 5 and then east on the Heffley Lake road (Figure 1).

Topography and Vegetation

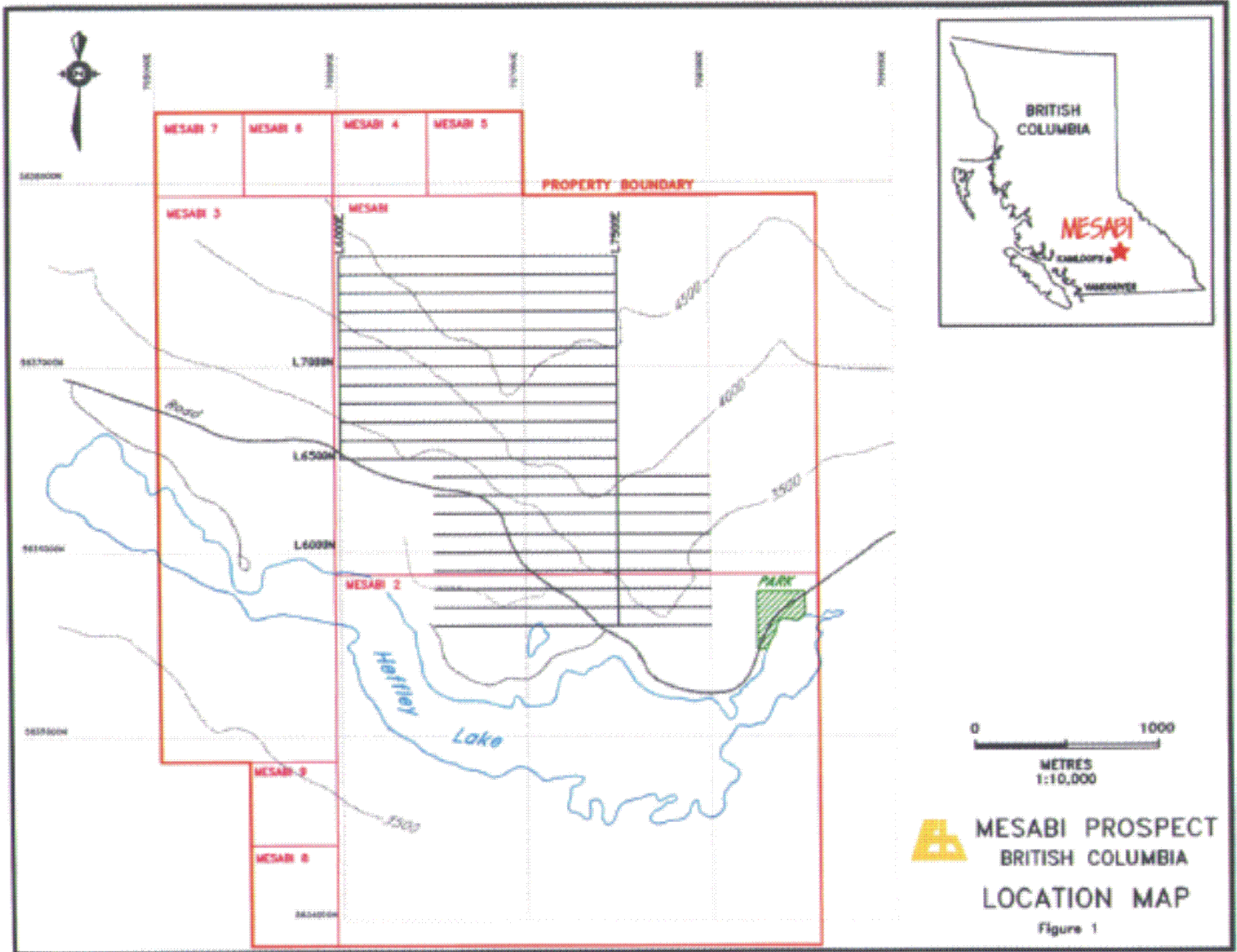
The property lies between 900 and 1400 metres above sea level. Most of the grid area straddles a steep, northwest trending ridge north of Heffley Lake. Most of the property is covered by spruce and pine trees with minor birch and aspen occurring at lower elevations and in old logged areas.

Land Status

The property consists of 9 claims comprising 58 units (Table 1). One claim was staked in April of 1993 while the remaining 8 claims were staked in July of 1997. The claims are held by a private syndicate represented by R. H. McMillan of Victoria BC. Echo Bay Mines optioned the property in September of 1997.

TABLE 1: Mineral Claims and Tenure Numbers

Claim Name	Tenure No.	No. Of Units	Current Expiry Date
Mesabi	317246	20	April 21/98
Mesabi 2	358071	20	July 15/98
Mesabi 3	358072	12	July 13/98
Mesabi 4	358024	1	July 12/98
Mesabi 5	358025	1	July 12/98
Mesabi 6	358026	1	July 12/98
Mesabi 7	358027	1	July 12/98
Mesabi 8	358073	1	July 14/98
Mesabi 9	358074	1	July 14/98



0 1000

METRES
1:10,000



MESABI PROSPECT
BRITISH COLUMBIA
LOCATION MAP

Figure 1

Previous Work

Very little work has been carried out on the property in the past. The earliest work consisted of trenching on a chalcopyrite-magnetite showing in the mid 1950's. Four diamond drill holes totaling 250 metres were drilled on the property in 1966. Only one hole was sampled and assayed. The drill hole returned 4.5 metres of 1.67 % copper and 0.48 g/t gold in semi-massive magnetite. A second interval assayed 0.11 % copper and 13 % iron over 14 metres but the interval was not assayed for gold. Cominco carried out a soil geochemical survey over the property in 1980 and identified a broad copper anomaly about 600 metres in length and 300 metre in width. Mapping by Cominco identified that the copper mineralization was associated with a pyrite-pyrrhotite-magnetite skarn horizon. Cominco did not assay for gold mineralization.

In 1985, a 58 metre drill hole was drilled by the road on the flank of the magnetic anomaly. The hole intersected 16 metres of semi-massive magnetite from 42 to 58 metres. A 6 metre interval (43 to 49 metres) returned 25% iron and 0.5 g/t gold.

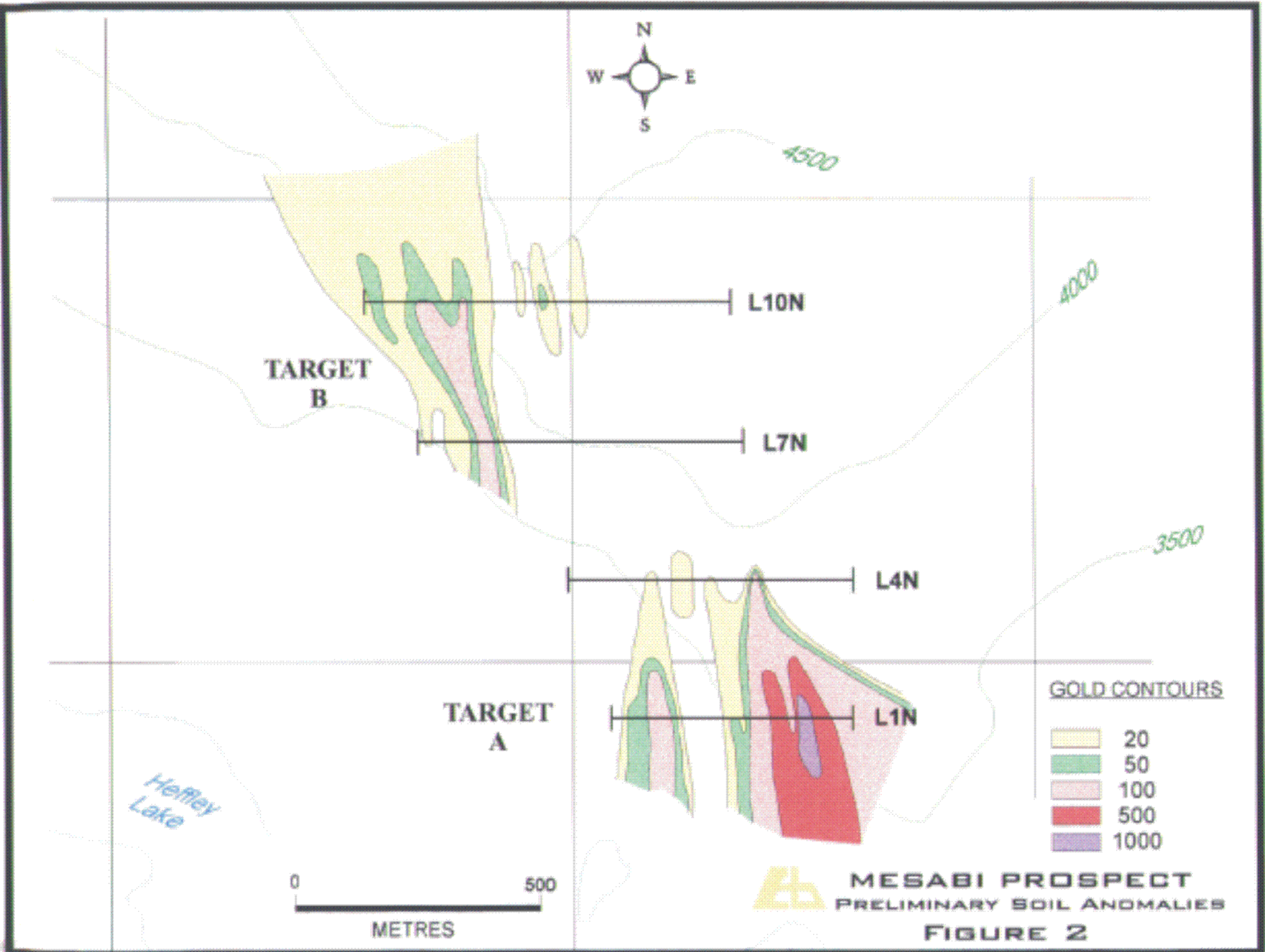
The property was staked by R.H. MacMillan in April of 1993 and the syndicate flew an helicopter borne magnetometer and EM survey over the property. Two reconnaissance soil geochemical lines were carried out over the know copper anomaly to confirm Cominco's soil anomaly. The soil samples were assayed for copper and gold. Values ranging up to 580 ppb gold were returned from the two soil lines.

The property was visited by Echo Bay personnel in late May of 1997 and 11 rock samples were collected over the soil anomaly; all samples returned little or no gold values. The property was re-visited in early June of 1997. Four soil reconnaissance were carried out to test for gold values. A total of 104 samples were collected. From 104 soil samples collected, 39 returned values > 20 ppb gold, 22 were > 50 ppb gold and 13 returned values > 100 ppb gold. The sampling identified two target areas (Figure 2).

Based on the results of the preliminary evaluation, Echo Bay Mines decided to option the property from the vendors in September of 1997. An additional 38 units were staked and added to the original 20 unit claim block. A one month field program was planned to carry out geological mapping, ground magnetic and soil surveys over the area of anomalous gold values. The program had to be cut back by two weeks because of Echo Bay decision's to close its Vancouver Exploration office by November 1 of 1997.

Geology

The property is underlain by Mississippian to Permian volcanic and sedimentary rocks of the Harper Ranch Group. The Harper Ranch Group is unconformably overlain by volcanic rocks of the Middle to Upper Triassic Nicola Group. Both groups are part of the Quesnel Terrane, an island arc exotic terrane that has moved north and eastward and collided with continental North America. The Harper Ranch Group correlates with the Anarchist Group of Northwestern Washington.



The Harper Ranch and Nicola groups are overlain by the Kamloops Group which consists of Miocene rhyolite and andesite flows and breccias.

The property was mapped at 1:2000 scaled. Field control was established by a north-south oriented base line and about 32 km of blazed and flagged cross lines spaced at 100 metre interval with stations marked every 25 metres.

On the Mesabi property, the Harper Ranch Group consists of a sequence of northwest striking, northeast dipping argillite, limestone and calc-silicate rocks intruded by porphyritic dacite stocks. Out crops are mainly restricted to a northwest striking cliff exposed on the north side of Heffley Lake road. The remainder of the grid area is underlain by glacial cover.

Stratigraphy

Harper Ranch Group

Unit 1 Argillite

Fine-grained black argillite forms the base of the Harper Ranch Group on the property. The unit is exposed just east of the property on a road cut. The argillite is weakly to moderately foliated, locally calcareous and cut by numerous milky quartz veins. The unit generally strike northwest and dips 40 to 60 degrees northeast. Minor beds of fine grained sandstone and limestone are intercalated with the argillite.

Unit 2 Limestone

Limestone is the most abundant rock type on the grid area. The rock is exposed on a large northwest trending cliff north of Heffley Lake. The unit is characterized by buff to brown and gray-black, fine-grained, thinly bedded to massive limestone. The limestone is locally arenaceous and cherty and is reported to be fossiliferous (Casselmann, 1980). The massive limestone beds are generally coarser grained and granular. The contact between the limestone and the underlying argillite is not exposed on the property but the two units are believed to be conformable (Roback et al, 1995).

Unit 3 Sandstone

Although not present on the grid area, minor sandstone occurs interbedded with the argillite and the limestone units. The sandstone is fine to medium-grained siliceous to argillaceous and locally calcareous. The sandstone is conformable to the limestone and argillite where exposed (Roback et al, 1995).

Unit 4 Calc-Silicate

A distinctive calc-silicate unit occurs near the dacite contact. The calc-silicate occurs as a metasomatic alteration of the limestone unit and forms a separate and distinguishable mappable unit. The calc-silicate horizon includes both proximal and distal skarn facies and both facies are cut by numerous dykes and sills of dacite.

The proximal skarn facies is most abundant in out crop and consists of a reddish-brown, massive to medium-grained rock composed of garnet, diopside and hornblende with minor hedenbergite and variable amounts of magnetite. Locally magnetite can account for up to 80 per cent of the rock volume. The rock also contains minor amounts of disseminated pyrite, pyrrhotite and chalcopyrite. Only minor gold mineralization has been identified in this unit.

The distal skarn facies consists of a fine-grained, light to dark green massive rock composed mainly of epidote, calcite and hedenbergite. This rock is only exposed in the southern parts of the grid between lines 5600 N and 5800N. The unit contains minor amounts of disseminated pyrite and is anomalous in gold (100 to 500 ppb).

Intrusive rocks

Unit 5 Dacite

A sub-volcanic dacitic stock cuts the sedimentary units near the central portions of the grid area. The dacite consists of millimetre-scaled quartz or feldspar phenocrysts in a fine-grained, light green to buff matrix. Locally the unit also contains fine needles of hornblende. This unit contains 1 to 5 per cent of very fine-grained disseminated pyrite and pyrrhotite. Sampling of this unit has not identified any gold mineralization to date.

Unit 6 Megacrystic Hornblende Dacite

The dacite unit is cut by very distinctive dykes of dark green dacite containing up to 40 per cent coarse-grained megacrysts of hornblende. The hornblende crystals are euhedral, randomly oriented and appear fresh in hand specimen. The dykes are 1 to 10 metres thick and cut both the dacite and limestone unit.

Unit 7 Andesite

Minor andesite occurs in the north western part of the grid area. The relationship of this unit with the other rock types on the property is not clear at this time. The unit comprises of small hornblende phenocrysts of hornblende disseminated in a fine-grained, dark green matrix of feldspar and mafic minerals.

Structure

The rocks of the Harper Ranch Group on the property are part of a conformable homocline that strikes northwest and dips northeast between 40 and 60 degrees. Several minor folds and boudins were observed in the limestone and calc-silicate units but no major folds were observed on the property. Primary structures and textures are generally well preserved.

A major east-west trending normal fault was observed in the southern part of the grid. The fault may be part of set of parallel faults that may explain the apparent westward displacement of the calc-silicate unit from south to north (Map 1).

Mineralization

Mineralization on the property consists of disseminated pyrite, pyrrhotite in both the calc-silicate and dacite units and semi massive to massive magnetite in the proximal skarn facies of the calc-silicate unit. Gold mineralization appears to be associated with the distal facies of the skarn mineralization.

Geochemical Survey

The soil samples were collected at a 25 metre spacing on 100 metre-spaced line. A total of 1145 soil samples were collected including 46 duplicate samples. Most samples were collected from the B horizon from holes dug 20 to 30 centimetre deep. In situations where no B horizon was available, the A or C horizon was collected. All samples were prepared and analyzed at Chemex Labs of Vancouver for gold and copper. Analytical procedures are summarized in Appendix 3. Assay results are included in Appendix 4. All results are plotted on Maps 2 and 3 and sample locations are plotted on Map 5. Duplicate samples are plotted on the north side of the grid lines on Maps 2, 3 and 5. All duplicate samples returned values within 5 per cent of the original sample with the exception of four duplicates in shipment A9745578. The samples are being re-analyzed by Chemex and results are pending.

The soil survey identified a large northwest trending anomaly that extends from Line 5600 N-7550E to Line 7000 N-6900E. This large soil anomaly which is defined by the 20 ppb contour is composed of three discrete peaks located at 5700N-7350E, 5800N-7500E and 6400N-6850E. Each peak is marked with values in excess of 500 ppb gold and 1200 ppm copper. The three anomalous peaks coincide with areas of known calc-silicate out crops and high magnetic gradient.

Magnetometer Survey

Total field magnetometer readings were collected at 12.5 metre spacing on 100 metre spaced grid lines. The readings were collected with an OMNI-IV field unit and the data was corrected with an OMNI Plus base station collecting readings every 30 seconds. The survey was only carried out over a portion of the grid because of repeated instrument failures. Both the base station and field units failed twice during the ten day field survey. Because of the time constraints due to the untimely closure of the Vancouver exploration office, the survey could not be completed. Nonetheless, the limited survey does outline a large northwest trending magnetic anomaly that coincides with the gold and copper anomalies. Although magnetic data was collected on lines 6200 N and 6300 N, the data was not plotted on Map 4 as the field data could not be corrected for diurnal variation because of failure of the base station on the day the data was collected. The survey results are plotted on Map 4 and the field data is supplied in Appendix 6.

Environmental issues

The property is situated up slope from Heffley Lake which is a local recreation area for fishing and camping. Several cottages are on Heffley Lake. The access road to the property is also the access road for the Sun Peaks ski resort which is about 18 Km from

the property. Some of the property is on private land and a portion of the property is being re-zoned for multiple housing development.

Conclusions and Recommendations

The limited field program at Mesabi has identified a new and very large un-tested gold anomaly in soil. The anomaly is associated with a magnetite bearing skarn. The field work was successful in identifying at least three drill targets defined by anomalous gold values in soil in excess of 1000 ppb gold and 1900 ppm copper. The anomalies are coincident with known magnetite bearing skarn and high magnetic gradient. The property appears to have the potential for hosting a skarn type gold deposit similar to the Crown Jewel deposit.

The anomalies need to be drill tested as soon as the climate permits.

References

- Castleman, M. J. 1980: Assessment report of line cutting and geological, soil geochemical and magnetometer surveys on the Heff Lake Property, Ministry of Employment and Investment of British Columbia. Assessment Report 8246, 10p.
- Roback, R., Schiarizza, P., Nelson, J., Fyles, J., Ferri, F., Ash, C. and Danner, W. R. 1995: Late Paleozoic Arc and Oceanic Terranes and their external relationships, Southern Quesnellia. B2 Field Trip Guidebook. Geological Association of Canada, May 17-19 1995, Victoria, B.C.

Appendix 1: Statement of Cost

MESABI PROPERTY - STATEMENT OF COSTS

SEPTEMBER/OCTOBER, 1997

Geologist	6 days @ \$300/day	\$1,800
Geologist	13 days @ \$250/day	\$3,250
Geotechnicians	36 mandays @ \$195/day	\$7,020
Grid Preparation	35 line km	\$16,187
Mobilization and Demobilization		\$1,100
Food and Accommodation	55 mandays @ \$80/day	\$4,400
Field Supplies		\$805
Geophysical Equipment rental, magnetometer		\$1,700
Truck Rental	14 days @ \$45/day	\$630
Fuel		\$220
Soil Sample Analysis	1145 samples	\$14,783
Rock Sample Analysis	43 samples	\$546
Report Preparation		\$5,150
	TOTAL	\$ 57,591

Appendix 2: Statement of Qualifications

I, Dr. Gilles J. Arseneau, of the city of North Vancouver, British Columbia, hereby certify:

1. That I am a geologist, residing at Unit 1-208 West 5th Street in North Vancouver, British Columbia, with a business address at 350-666 Burrard Street in Vancouver, British Columbia.
2. That I graduated from the University of New Brunswick with a B.Sc. in geology in 1979, from the University of Western Ontario with an M.Sc. in geology in 1984 and from the Colorado School of Mines with a Ph.D. in economic geology in 1995.
3. That I have practiced as a geologist since 1979 and as an employee of Echo Bay Mines since 1996.

Dated this 29th day of October, 1997 at Vancouver, British Columbia

Signed: 
Dr. G. Arseneau

Appendix 3: Analytical Procedures

Soil samples:

All soil samples are dried and then hammered to disgregate any clumps. The samples are then placed in a stainless steel sieve and shaken from side to side until all the minus 180 micron size fraction has been extracted.

For the copper analysis, a 1 gram sample is digested with concentrated nitric acid for at least one hour. After cooling, hydrochloric acid is added to produce aqua regia and the mixture is then digested for an additional hour and a half. The resulting solution is diluted to 25ml with demineralized water, mixed and then analyzed by atomic absorption spectrometry. The atomic absorption spectrometry for copper has a lower limit of 1ppm and an upper limit of 1 per cent copper.

For the gold analysis, the prepared sample is fused with a neutral lead sodium silicate flux inquatered with 6 mg of gold-free silver and then cuppelled to yield a precious metal bead. The lead bead is digested for one half hour in 0.5 ml of dilute nitric acid. Hydrochloric acid is then added and the solution is digested for an additional hour. The digested solution is then cooled, diluted to 7.5 ml with demineralized water, mixed and then analyzed by atomic absorption spectrometry. The detection limits for the fire assay method is between 5 and 10,000 ppb gold.

Rock Samples

The entire rock sample is passed through a primary crusher to yield a crushed product of which greater than 60 per cent is less than approximately 2 mm. A 300 gram split is then taken using a stainless steel riffle splitter.

The crushed split is ground using a ring mill pulverizer with a chrome steel ring set. The Chemex specification for this procedure is that greater than 90 per cent of the ground material passes through a 106 micron (Tyler 150 mesh) screen.

For the gold analysis, the prepared sample is fused with a neutral lead sodium silicate flux inquatered with 6 mg of gold-free silver and then cuppelled to yield a precious metal bead. The lead bead is digested for one half hour in 0.5 ml of dilute nitric acid. Hydrochloric acid is then added and the solution is digested for an additional hour. The digested solution is then cooled, diluted to 7.5 ml with demineralized water, mixed and then analyzed by atomic absorption spectrometry. The detection limits for the fire assay method is between 5 and 10,000 ppb gold.

Appendix 4: Certificate of Analysis of Soil and Rock Samples

Explanation:

Not Rec. = Sample not received

Not/ss = Insufficient Sample to perform analysis



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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PHONE: 604-984-0221 FAX: 604-984-0218

To: ECHO BAY MINES LTD.
CANADIAN EXPLORATION
PARK PLACE, 350 - 666 BURRARD ST.
VANCOUVER, BC
V6C 2X8

Page Number :3
Total Pages :4
Certificate Date: 06-OCT-97
Invoice No. :19744490
P.O. Number :
Account :GWF

Project : MESABI
Comments: ATTN:GILLES ARSENEAU EMAIL: PETER BELL

CERTIFICATE OF ANALYSIS

A9744490

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm								
M280	201 202	265	680								
M281	201 202	240	390								
M282	201 202	215	315								
M283	201 202	885	1200								
M284	201 202	1300	1250								
M285	201 202	460	1550								
M286	201 202	570	960								
M287	201 202	90	119								
M288	201 202	65	70								
M289	201 202	50	400								
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M293	201 202	< 5	74								
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M297	201 202	< 5	43								
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M299	201 202	< 5	32								
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M301	201 202	60	96								
M302	201 202	470	250								
M303	201 202	330	280								
M304	201 202	95	62								
M305	201 202	210	154								
M306	201 202	50	63								
M307	201 202	25	83								
M308	201 202	130	1200								
M309	201 202	30	305								
M310	201 202	90	87								
M311	201 202	30	51								
M312	201 202	15	55								
M313	201 202	135	240								
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M316	201 202	< 5	24								
M317	201 202	20	28								
M318	201 202	< 5	123								
M319	201 202	10	64								

17

CERTIFICATION:

Peter Bell



Chemex Labs Ltd.

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Project : MESABI
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CERTIFICATE OF ANALYSIS A9744490

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M320	201 202	< 5	18									
M321	201 202	< 5	20									
M322	201 202	< 5	31									
M323	201 202	< 5	76									
M324	201 202	10	28									
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M327	201 202	< 5	27									
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M343	201 202	5	15									
M344	201 202	10	25									
M345	201 202	< 5	20									

18

CERTIFICATION: 19744490



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Page Number : 1
 Total Pages : 7
 Certificate Date: 13-OCT-97
 Invoice No. : 19745624
 P.O. Number :
 Account : GWF

Project : MESABI
 Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS

A9745624

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm								
M346	201 202	< 5	32								
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M357	201 202	< 5	26								
M358	201 202	5	99								
M359	201 202	30	141								
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M361	201 202	80	138								
M362	201 202	760	131								
M363	201 202	120	117								
M364	201 202	50	80								
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M382	201 202	< 5	36								
M383	201 202	< 5	19								
M384	201 202	< 5	24								
M385	201 202	40	73								

19

CERTIFICATION:

Gilles Arseneau



Chemex Labs Ltd.

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Account : GWF

Project: MESABI
Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS A9745624

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M391	201 202	155	10										
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M393	201 202	10	18										
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M395	201 202	60	18										
M396	201 202	290	22										
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M454	201 202	< 5	17										
M455	201 202	< 5	35										
M456	201 202	< 5	32										
M457	201 202	< 5	27										
M458	201 202	< 5	25										
M459	201 202	< 5	64										
M460	201 202	< 5	28										
M461	201 202	< 5	24										
M462	201 202	< 5	20										
M463	201 202	10	50										
M464	201 202	40	57										

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CERTIFICATION:

Hank Bickler



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ECHO BAY MINES LTD.
 CANADIAN EXPLORATION
 PARK PLACE, 350 - 666 BURRARD ST.
 VANCOUVER, BC
 V6C 2X8

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 P.O. Number :
 Account :GWF

Project : MESABI
 Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS

A9745624

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm										
M465	201	202	< 5	21									
M466	201	202	< 5	59									
M467	201	202	< 5	69									
M468	201	202	< 5	87									
M469	201	202	< 5	152									
M470	201	202	20	116									
M471	201	202	15	121									
M472	201	202	50	103									
M473	201	202	80	91									
M474	201	202	< 5	75									
M475	201	202	20	82									
M476	201	202	50	83									
M477	201	202	70	87									
M478	201	202	20	112									
M479	201	202	50	173									
M480	201	202	40	173									
M481	201	202	45	122									
M482	201	202	35	122									
M483	201	202	20	84									
M484	201	202	15	99									
M485	201	202	205	132									
M486	201	202	100	120									
M487	201	202	110	79									
M488	201	202	85	105									
M489	201	202	80	183									
M490	201	202	130	137									
M491	201	202	180	260									
M492	201	202	60	125									
M493	201	202	45	89									
M494	201	202	50	115									
M495	201	202	20	138									
M496	201	202	45	129									
M497	201	202	150	750									
M498	201	202	80	100									
M499	201	202	10	113									
M500	201	202	20	111									
M501	201	202	15	119									
M502	201	202	10	121									
M503	201	202	30	410									
M504	201	202	165	750									

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CERTIFICATION:

Harold Buchler



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Project : MESABI
Comments : ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS

A9745624

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M505	201 202	40	124									
M506	201 202	160	161									
M507	201 202	55	169									
M508	201 202	110	280									
M509	201 202	< 5	39									
M510	201 202	410	198									
M511	201 202	50	130									
M512	201 202	200	1650									
M513	201 202	55	250									
M514	201 202	65	640									
M515	201 202	15	64									
M516	201 202	40	72									
M517	201 202	10	118									
M518	201 202	< 5	53									
M519	201 202	< 5	47									
M520	201 202	20	121									
M521	201 202	65	87									
M522	201 202	40	101									
M523	201 202	15	94									
M524	201 202	10	42									
M525	201 202	5	58									
M526	201 202	40	85									
M527	201 202	15	61									
M528	201 202	20	109									
M529	201 202	120	61									
M530	201 202	20	46									
M531	201 202	< 5	62									
M532	201 202	< 5	15									
M533	201 202	< 5	15									
M534	201 202	< 5	21									
M535	201 202	< 5	30									
M536	201 202	5	60									
M537	201 202	< 5	14									
M538	201 202	5	52									
M539	201 202	< 5	23									
M540	201 202	< 5	39									
M541	201 202	10	47									
M542	201 202	< 5	23									
M543	201 202	< 5	18									
M544	-- --	NotRcd	NotRcd									

CERTIFICATION:

Michael Miller

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CERTIFICATE OF ANALYSIS

A9745624

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M545	201	202	10	13								
M546	201	202	< 5	15								
M547	201	202	240	12								
M548	201	202	< 5	13								
M549	201	202	5	50								
M550	201	202	< 5	13								
M551	201	202	< 5	18								
M552	201	202	< 5	21								
M553	201	202	< 5	19								
M554	201	202	< 5	46								
M555	201	202	< 5	9								
M556	201	202	< 5	15								
M557	201	202	< 5	25								
M558	201	202	< 5	14								
M559	201	202	< 5	17								
M560	201	202	< 5	11								
M561	201	202	< 5	10								
M562	201	202	10	109								
M563	201	202	< 5	52								
M564	201	202	< 5	15								
M565	201	202	< 5	43								
M566	201	202	< 5	26								
M567	201	202	< 5	69								
M568	201	202	< 5	29								
M569	201	202	< 5	16								
M570	201	202	< 5	20								
M571	201	202	< 5	22								
M572	201	202	< 5	24								
M573	201	202	< 5	20								
M574	201	202	< 5	33								
M575	201	202	< 5	22								
M576	201	202	< 5	82								
M577	201	202	25	39								
M578	201	202	20	99								
M579	201	202	25	61								
M580	201	202	15	101								
M581	201	202	20	90								
M582	201	202	50	355								
M583	201	202	195	1950								
M584	201	202	30	188								

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CERTIFICATION:

K. D. S. Miller



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CERTIFICATE OF ANALYSIS

A9745624

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M585	201 202	20	120									
M586	201 202	90	345									
M587	201 202	< 5	68									
M588	201 202	40	132									
M589	201 202	30	144									
M590	201 202	20	67									
M591	201 202	< 5	25									
M592	201 202	< 5	54									
M593	201 202	5	41									
M594	201 202	35	83									
M595	201 202	15	58									
M596	201 202	10	52									
M597	201 202	< 5	31									
M598	201 202	25	31									
M599	201 202	< 5	42									
M600	-- --	Not Recd	Not Recd									
M601	201 202	25	88									
M602	201 202	15	37									
M603	201 202	15	45									
M604	201 202	20	86									
M605	201 202	90	114									
M606	201 202	10	67									
M607	201 202	< 5	85									
M608	201 202	< 5	38									
M609	201 202	< 5	51									
M610	201 202	< 5	51									
M611	201 202	5	49									
M612	201 202	< 5	42									
M613	201 202	105	159									
M614	201 202	25	58									
M615	201 202	5	75									
M616	201 202	10	67									
M617	201 202	< 5	19									
M618	201 202	< 5	42									
M619	201 202	10	54									
M620	201 202	< 5	41									
M621	201 202	< 5	35									
M622	201 202	< 5	44									
M623	201 202	20	116									
M624	201 202	65	150									

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CERTIFICATION:

Hart Bickler



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Account : GWF

Project : MESABI
Comments : ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS A9745624

SAMPLE	PREP CODE		Au ppb FA+AA	Cu ppm								
M625	201	202	10	158								
M626	201	202	< 5	20								
M627	201	202	< 5	35								
M628	201	202	< 5	18								
M629	201	202	< 5	29								
M630	201	202	20	73								
M631	201	202	5	44								
M632	201	202	< 5	22								
M633	201	202	20	24								
M634	201	202	5	31								
M635	201	202	70	103								
M636	201	202	5	24								

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CERTIFICATION: *Howard B...*



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Project : MESABI
Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS A9745578

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm								
M405	201 202	125	230								
M406	201 202	40	37								
M407	201 202	20	37								
M408	201 202	380	94								
M409	201 202	20	77								
M410	201 202	50	127								
M411	201 202	70	132								
M412	201 202	10	126								
M413	201 202	< 5	53								
M414	201 202	< 5	11								
M415	201 202	< 5	61								
M416	201 202	< 5	17								
M417	201 202	5	31								
M418	201 202	15	127								
M419	201 202	< 5	25								
M420	201 202	< 5	30								
M421	201 202	< 5	39								
M422	201 202	< 5	25								
M423	201 202	< 5	43								
M424	201 202	10	41								
M425	201 202	15	82								
M426	201 202	25	53								
M427	201 202	< 5	26								
M428	201 202	< 5	26								
M429	201 202	< 5	37								
M430	201 202	< 5	17								
M431	201 202	< 5	19								
M432	201 202	< 5	78								
M433	201 202	< 5	17								
M434	201 202	215	44								
M435	201 202	10	33								
M436	201 202	< 5	23								
M437	201 202	5	13								
M438	201 202	10	44								
M439	201 202	5	15								
M440	201 202	< 5	30								
M441	201 202	5	36								
M442	201 202	10	24								
M443	201 202	10	14								
M637	201 202	20	11								

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CERTIFICATION: Henri Bouchard



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PHONE: 604-984-0221 FAX: 604-984-0218

To: ECHO BAY MINES LTD.
CANADIAN EXPLORATION
PARK PLACE, 350 - 666 BARRARD ST.
VANCOUVER, BC
V6C 2X8

Project : MESABI
Comments: ATTN: GILLES ARSENEAU

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Account : GWF

CERTIFICATE OF ANALYSIS

A9745578

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm								
M638	201 202	< 5	19								
M639	201 202	35	77								
M640	201 202	< 5	108								
M641	201 202	20	96								
M642	201 202	15	68								
M643	201 202	< 5	69								
M644	201 202	5	30								
M645	201 202	30	28								
M646	201 202	< 5	21								
M647	201 202	< 5	40								
M648	201 202	< 5	17								
M649	201 202	< 5	38								
M650	201 202	< 5	10								
M651	201 202	< 5	68								
M652	201 202	355	40								
M653	201 202	< 5	30								
M654	201 202	< 5	18								
M655	201 202	< 5	16								
M656	201 202	< 5	17								
M657	201 202	10	20								
M658	201 202	< 5	12								
M659	201 202	< 5	25								
M660	201 202	< 5	19								
M661	201 202	< 5	22								
M662	201 202	5	26								
M663	201 202	< 5	16								
M664	201 202	< 5	16								
M665	201 202	925	49								
M666	201 202	190	43								
M667	201 202	< 5	40								
M668	201 202	< 5	14								
M669	201 202	< 5	38								
M670	201 202	20	28								
M671	201 202	5	13								
M672	201 202	< 5	38								
M673	201 202	10	35								
M674	201 202	< 5	18								
M675	201 202	< 5	23								
M676	201 202	< 5	29								
M677	201 202	< 5	45								

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CERTIFICATION: *[Signature]*



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PARK PLACE, 350 - 666 BARRARD ST.
VANCOUVER, BC
V6C 2X8

Project : MESABI
Comments: ATTN: GILLES ARSENEAU

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P.O. Number :
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CERTIFICATE OF ANALYSIS A9745578

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M678	201 202	< 5	12									
M679	201 202	< 5	118									
M680	201 202	< 5	27									
M681	201 202	< 5	12									
M682	201 202	< 5	21									
M683	201 202	< 5	9									
M684	201 202	< 5	18									
M685	201 202	< 5	39									
M686	201 202	< 5	49									
M687	201 202	< 5	47									
M688	201 202	< 5	30									
M689	201 202	< 5	19									
M690	201 202	< 5	19									
M691	201 202	< 5	33									
M692	201 202	< 5	29									
M693	201 202	15	189									
M694	201 202	< 5	25									
M695	201 202	< 5	34									
M696	201 202	< 5	45									
M697	201 202	10	143									
M698	201 202	5	118									
M699	201 202	< 5	49									
M700	201 202	< 5	16									
M856	201 202	< 5	7									
M857	201 202	< 5	50									
M858	201 202	< 5	19									
M859	201 202	< 5	22									
M860	201 202	< 5	13									
M861	201 202	< 5	25									
M862	201 202	< 5	25									
M863	201 202	15	31									
M864	201 202	< 5	15									
M865	201 202	< 5	20									
M866	201 202	< 5	12									
M867	201 202	< 5	9									
M868	201 202	< 5	22									
M869	201 202	< 5	11									
M870	201 202	< 5	20									
M871	201 202	15	43									
M872	201 202	< 5	54									

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CERTIFICATION:

[Handwritten signature]



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Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS A9745578

SAMPLE	PREP CODE		Au ppb FA+AA	Cu ppm								
M873	201	202	< 5	18								
M874	201	202	< 5	13								
M875	201	202	< 5	20								
M876	201	202	< 5	42								
M877	201	202	10	36								
M878	201	202	< 5	59								
M879	201	202	< 5	61								
M880	201	202	< 5	103								
M881	201	202	< 5	93								
M882	201	202	< 5	74								
M883	201	202	< 5	112								
M884	201	202	< 5	74								
M885	201	202	< 5	38								
M886	201	202	< 5	84								
M887	201	202	< 5	19								
M888	201	202	< 5	29								
M889	201	202	< 5	33								
M890	201	202	< 5	28								
M891	201	202	< 5	10								
M892	201	202	< 5	33								
M893	201	202	< 5	7								
M894	201	202	< 5	11								
M895	201	202	< 5	18								
M896	201	202	< 5	18								
M897	201	202	< 5	7								
M898	201	202	< 5	8								
M899	201	202	20	7								
M950	201	202	< 5	16								
M951	201	202	< 5	24								
M952	201	202	< 5	45								
M953	201	202	< 5	48								
M954	201	202	< 5	18								
M955	201	202	< 5	4								
M956	201	202	< 5	131								
M957	201	202	< 5	17								
M958	201	202	< 5	80								
M959	201	202	< 5	11								
M960	201	202	< 5	14								
M961	201	202	5	43								
M962	201	202	< 5	26								

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CERTIFICATION: Grant Buchler



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CERTIFICATE OF ANALYSIS

A9745578

SAMPLE	PREP CODE		Au ppb FA+AA	Cu ppm								
M963	201	202	< 5	124								
M964	201	202	5	18								
M965	201	202	100	13								
M966	201	202	< 5	24								
M967	201	202	15	29								
M968	201	202	< 5	42								
M969	201	202	< 5	9								
M971	201	202	< 5	20								
M972	201	202	< 5	199								
M973	201	202	10	15								
M974	201	202	< 5	12								
M975	201	202	5	38								
M976	201	202	< 5	28								
M977	201	202	< 5	38								
M978	201	202	< 5	35								
M979	201	202	< 5	17								
M980	201	202	< 5	8								
M981	201	202	< 5	32								
M982	201	202	< 5	24								
M983	201	202	< 5	45								
M984	201	202	< 5	26								
M985	201	202	< 5	15								
M986	201	202	< 5	31								
M987	201	202	50	13								
M988	201	202	< 5	6								
M989	201	202	< 5	31								
M990	201	202	< 5	19								
M991	201	202	< 5	22								

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CERTIFICATION: Mark Beckler



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CERTIFICATE OF ANALYSIS A9745625

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm								
M700	201 202	30	35								
M701	201 202	< 5	34								
M702	201 202	< 5	28								
M703	201 202	10	22								
M704	201 202	< 5	29								
M705	201 202	15	53								
M706	201 202	20	71								
M707	201 202	15	74								
M708	201 202	25	76								
M709	201 202	20	85								
M710	201 202	10	110								
M711	201 202	not/ss	98								
M712	201 202	55	300								
M713	201 202	850	1700								
M714	201 202	520	1100								
M715	201 202	70	182								
M716	201 202	30	184								
M717	201 202	85	109								
M718	201 202	205	290								
M719	201 202	20	53								
M720	201 202	20	62								
M721	201 202	< 5	90								
M722	201 202	20	94								
M723	201 202	< 5	42								
M724	201 202	< 5	11								
M725	201 202	< 5	10								
M726	201 202	< 5	16								
M727	201 202	< 5	11								
M728	201 202	< 5	12								
M729	201 202	< 5	18								
M730	201 202	< 5	14								
M731	201 202	20	70								
M732	201 202	10	78								
M733	201 202	< 5	30								
M734	201 202	< 5	51								
M735	201 202	< 5	19								
M736	201 202	< 5	84								
M737	201 202	< 5	74								
M738	201 202	< 5	26								
M739	201 202	< 5	48								

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CERTIFICATION: Hawthorne



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PHONE: 604-984-0221 FAX: 604-984-0218

To: ECHO BAY MINES LTD.
CANADIAN EXPLORATION
PARK PLACE, 350 - 666 BURNARD ST.
VANCOUVER, BC
V6C 2X8

Project : MESABI
Comments: ATTN: GILLES ARSENEAU

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CERTIFICATE OF ANALYSIS

A9745625

SAMPLE	PREP CODE		Au ppb FA+AA	Cu ppm								
M740	201	202	40	83								
M741	201	202	< 5	57								
M742	201	202	115	240								
M743	201	202	25	57								
M744	201	202	15	48								
M745	201	202	< 5	21								
M746	201	202	20	52								
M747	201	202	< 5	50								
M748	201	202	< 5	47								
M749	201	202	< 5	93								
M750	201	202	20	101								
M751	201	202	< 5	67								
M752	201	202	< 5	46								
M753	201	202	< 5	68								
M754	201	202	< 5	41								
M755	201	202	< 5	15								
M756	201	202	15	33								
M757	201	202	< 5	39								
M758	201	202	< 5	13								
M759	201	202	< 5	6								
M760	201	202	< 5	11								
M761	201	202	< 5	14								
M762	201	202	< 5	20								
M763	201	202	< 5	50								
M764	201	202	< 5	23								
M765	201	202	< 5	24								
M766	201	202	< 5	22								
M767	201	202	< 5	25								
M768	201	202	< 5	17								
M769	201	202	< 5	18								
M770	--	--	NotRcd	NotRcd								
M771	201	202	60	23								
M772	201	202	10	58								
M773	201	202	< 5	10								
M774	201	202	< 5	16								
M775	201	202	< 5	17								
M776	201	202	< 5	20								
M777	201	202	< 5	14								
M778	201	202	< 5	16								
M779	201	202	< 5	15								

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CERTIFICATION:

Walt Becker



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Comments: ATTN: GILLES ARSENEAU

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Account :GWF

CERTIFICATE OF ANALYSIS

A9745625

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm								
M820	201 202	60	28								
M821	201 202	< 5	17								
M822	201 202	< 5	48								
M823	201 202	< 5	13								
M824	201 202	< 5	30								
M825	201 202	< 5	37								
M826	201 202	< 5	12								
M827	201 202	215	53								
M828	201 202	< 5	15								
M829	201 202	140	22								
M830	201 202	5	13								
M831	201 202	10	60								
M832	201 202	< 5	19								
M833	201 202	< 5	21								
M834	201 202	30	7								
M835	201 202	40	8								
M836	201 202	< 5	9								
M837	201 202	< 5	19								
M838	201 202	< 5	43								
M839	201 202	20	26								
M840	201 202	< 5	25								
M841	201 202	< 5	34								
M842	201 202	< 5	54								
M843	201 202	< 5	9								
M844	201 202	< 5	18								
M845	201 202	< 5	26								
M846	201 202	110	39								
M847	201 202	< 5	22								
M848	201 202	< 5	23								
M849	201 202	15	22								
M850	201 202	< 5	24								
M851	201 202	< 5	70								
M852	201 202	10	50								
M853	201 202	75	114								
M854	201 202	125	172								
M855	201 202	40	121								
M856	201 202	25	118								
M857	201 202	20	108								
M900	201 202	15	24								
M901	201 202	< 5	9								

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 Account :GWF

Project : MESABI
 Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS

A9745625

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M902	201	202	< 5	43								
M903	201	202	< 10	30								
M904	201	202	< 5	23								
M905	201	202	< 5	24								
M906	201	202	< 5	16								
M907	201	202	< 5	17								
M908	201	202	< 5	13								
M909	201	202	< 5	19								
M910	201	202	< 5	17								
M911	201	202	30	18								
M912	201	202	< 5	17								
M913	201	202	< 5	21								
M914	201	202	< 5	13								
M915	201	202	< 5	46								
M916	201	202	< 5	28								
M917	201	202	< 5	9								
M918	201	202	< 5	10								
M919	201	202	< 5	14								
M920	201	202	< 5	32								
M922	201	202	< 5	15								
M923	201	202	< 5	36								
M924	201	202	10	74								
M925	201	202	< 5	81								
M926	201	202	< 5	30								
M927	201	202	< 5	44								
M928	201	202	< 5	57								
M930	201	202	< 5	14								
M931	201	202	< 5	18								
M932	201	202	< 5	25								
M933	201	202	< 5	10								
M934	201	202	< 5	31								
M935	201	202	< 5	20								
M936	201	202	< 5	23								
M937	201	202	< 5	9								
M938	201	202	< 5	6								
M939	201	202	< 5	49								
M940	201	202	< 5	40								
M941	201	202	< 5	8								
M942	201	202	< 5	8								
M943	201	202	< 5	12								

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Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS A9745625

SAMPLE	PREP CODE		Au ppb FA+AA	Cu ppm								
M944	201	202	< 5	7								
M945	201	202	< 5	18								
M946	201	202	< 5	30								
M947	201	202	< 5	10								
M948	201	202	< 5	20								
M949	201	202	< 5	18								

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CERTIFICATION: *[Signature]*



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Project: MESABI
Comments: ATTN: GILLES ARSENEAU

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Account :GWF

CERTIFICATE OF ANALYSIS

A9745632

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M1000	201 202	< 5	43									
M1001	201 202	< 5	24									
M1002	201 202	< 5	22									
M1003	201 202	< 5	38									
M1004	201 202	< 5	52									
M1005	201 202	< 5	65									
M1006	201 202	< 5	91									
M1007	201 202	< 5	82									
M1008	201 202	< 5	23									
M1009	201 202	< 5	21									
M1010	201 202	< 5	14									
M1011	201 202	< 5	20									
M1012	201 202	< 5	14									
M1013	201 202	< 5	12									
M1014	201 202	< 5	12									
M1015	201 202	< 5	10									
M1016	201 202	< 5	27									
M1017	201 202	< 5	15									
M1018	201 202	< 5	7									
M1019	201 202	10	36									
M1020	201 202	< 5	109									
M1021	201 202	< 5	48									
M1022	201 202	< 5	34									
M1023	201 202	< 5	20									
M1024	201 202	< 5	11									
M1025	201 202	< 5	16									
M1026	201 202	< 5	24									
M1027	201 202	< 5	35									
M1028	201 202	< 5	20									
M1029	201 202	< 5	20									
M1030	201 202	< 5	7									
M1031	201 202	< 5	19									
M1032	201 202	< 5	30									
M1033	201 202	< 5	18									
M1034	201 202	< 5	19									
M1035	201 202	< 5	30									
M1036	201 202	< 5	14									
M1037	201 202	< 5	18									
M1038	201 202	< 5	22									
M1039	201 202	< 5	12									

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CERTIFICATION:

Hart Bickel



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CERTIFICATE OF ANALYSIS

A9745632

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M1040	201	202	< 5	32								
M1041	201	202	< 5	22								
M1042	201	202	< 5	31								
M1043	201	202	< 5	23								
M1044	201	202	< 5	29								
M1045	201	202	< 5	49								
M1046	201	202	< 5	30								
M1047	201	202	< 5	20								
M1048	201	202	< 5	27								
M1049	201	202	10	23								
M1050	201	202	< 5	14								
M1051	201	202	< 5	15								
M1052	201	202	< 5	32								
M1053	201	202	< 5	36								
M1054	201	202	< 5	24								
M1055	201	202	< 5	8								
M1056	201	202	< 5	8								
M1057	201	202	< 5	32								
M1058	201	202	< 5	18								
M1059	201	202	< 5	44								
M1060	201	202	< 5	23								
M1061	201	202	< 5	31								
M1062	201	202	< 5	99								
M1063	201	202	< 5	41								
M1064	201	202	< 5	36								
M1065	201	202	< 5	32								
M1066	201	202	< 5	34								
M1067	201	202	< 5	14								
M1068	201	202	< 5	27								
M1069	201	202	< 5	48								
M1070	201	202	< 5	17								
M1071	201	202	< 5	20								
M1072	201	202	< 5	28								
M1073	201	202	< 5	17								
M1074	201	202	< 5	16								
M1075	201	202	< 5	18								
M1076	201	202	< 5	80								
M1077	201	202	< 5	12								
M1078	201	202	< 5	19								
M1079	201	202	< 5	23								

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CERTIFICATION:

Gilles Arsenau



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Comments: ATTN: GILLES ARSENEAU

CERTIFICATE OF ANALYSIS

A9745632

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M1080	201 202	< 5	12									
M1081	201 202	< 5	22									
M1082	201 202	< 5	38									
M1083	201 202	10	20									
M1084	201 202	110	28									
M1085	201 202	< 5	9									
M1086	201 202	< 5	9									
M1087	201 202	< 5	130									
M1088	201 202	< 5	27									
M1089	201 202	< 5	15									
M1090	201 202	165	16									
M1091	201 202	5	14									
M1092	201 202	< 5	16									
M1093	201 202	< 5	18									
M1094	201 202	< 5	20									
M1095	201 202	< 5	16									
M1100	201 202	< 5	17									
M1101	201 202	< 5	66									
M1102	201 202	< 5	17									
M1103	201 202	< 5	21									
M1104	201 202	< 5	25									
M1105	201 202	30	34									
M1106	201 202	< 5	21									
M1107	201 202	< 5	25									
M1108	201 202	< 5	38									
M1109	201 202	< 5	18									
M1110	201 202	< 5	22									
M1111	201 202	< 5	17									
M1112	201 202	< 5	46									
M1113	201 202	< 5	32									
M1114	201 202	< 5	37									
M1115	201 202	< 5	88									
M1200	201 202	< 5	16									
M1201	201 202	< 5	24									
M1202	201 202	< 5	14									
M1203	201 202	< 5	12									
M1204	201 202	< 5	10									
M1205	201 202	15	8									
M1206	201 202	< 5	11									
M1207	201 202	< 5	5									

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CERTIFICATION: David Brindley



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PARK PLACE, 350 - 666 BURRARD ST.
VANCOUVER, BC
V6C 2X8

Project: MESABI
Comments: ATTN: GILLES ARSENEAU

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CERTIFICATE OF ANALYSIS

A9745579

SAMPLE	PREP CODE		Au ppb FA+AA	Cu ppm								
M1116	201	202	20	116								
M1117	201	202	20	146								
M1118	201	202	20	47								
M1119	201	202	20	68								
M1120	201	202	15	23								
M1121	201	202	10	34								
M1122	201	202	50	60								
M1123	201	202	20	61								
M1124	201	202	5	98								
M1125	201	202	10	102								
M1126	201	202	10	84								
M1127	201	202	< 5	74								
M1128	201	202	< 5	156								
M1129	201	202	< 5	51								
M1130	201	202	< 5	45								
M1131	201	202	< 5	34								
M1132	201	202	< 5	38								
M1133	201	202	10	57								
M1134	201	202	30	47								
M1135	201	202	10	36								
M1136	201	202	5	29								
M1137	201	202	< 5	27								
M1138	201	202	255	30								
M1139	201	202	40	39								
M1140	201	202	< 5	30								
M1141	201	202	60	29								
M1142	201	202	20	62								
M1143	201	202	20	25								
M1144	201	202	15	7								
M1145	201	202	< 5	26								
M1146	201	202	< 5	29								
M1147	201	202	< 5	34								
M1148	201	202	< 5	15								
M1149	201	202	< 5	16								
M1150	201	202	< 5	21								
M1151	201	202	15	21								
M1152	201	202	< 5	18								
M1153	201	202	10	19								
M1298	201	202	15	121								
M1299	201	202	40	107								

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V6C 2X8

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CERTIFICATE OF ANALYSIS

A9745579

SAMPLE	PREP CODE	Au ppb FA+AA	Cu ppm									
M1300	201 202	< 5	12									
M1301	201 202	< 5	18									
M1302	201 202	10	43									
M1303	201 202	< 5	16									
M1304	201 202	< 5	25									
M1305	201 202	< 5	20									
M1306	201 202	< 5	21									
M1307	201 202	10	15									
M1308	201 202	55	21									
M1309	201 202	< 5	77									
M1310	201 202	< 5	29									
M1311	201 202	15	16									
M1312	201 202	< 5	39									
M1313	201 202	< 5	12									
M1314	201 202	< 5	200									
M1315	201 202	< 5	23									
M1316	201 202	< 5	26									
M1317	201 202	< 5	14									
M1318	201 202	< 5	14									
M1319	201 202	< 5	19									
M1320	201 202	< 5	25									
M1321	201 202	10	13									
M1322	201 202	< 5	15									
M1323	201 202	30	15									
M1324	201 202	< 5	9									
M1325	201 202	15	26									
M1326	201 202	< 5	17									
M1327	201 202	30	17									
M1328	201 202	85	20									
M1329	201 202	< 5	46									
M1330	201 202	140	21									
M1331	201 202	< 5	13									
M1332	201 202	< 5	12									
M1333	201 202	< 5	58									
M1334	201 202	< 5	13									
M1335	201 202	< 5	13									
M1336	201 202	< 5	9									
M1337	201 202	< 5	19									
M1338	201 202	< 5	27									
M1339	201 202	< 5	11									

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CERTIFICATION: Henk Buchler



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Project : MESABI
Comments: ATTN: GILLES ARSENEAU

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CERTIFICATE OF ANALYSIS

A9745579

SAMPLE	PREP CODE		Au ppb FA+AA	Cu ppm								
M1340	201	202	< 5	20								
M1341	201	202	< 5	18								
M1342	201	202	< 5	21								
M1343	201	202	< 5	26								
M1344	201	202	< 5	14								
M1345	201	202	< 5	22								
M1346	201	202	< 5	81								
M1347	201	202	< 5	42								
M1348	201	202	< 5	81								
M1349	201	202	< 5	50								
M1350	201	202	< 5	38								
M1351	201	202	< 5	106								
M1352	201	202	< 5	199								
M1353	201	202	< 5	94								
M1354	201	202	< 5	74								
M1355	201	202	< 5	66								
M1356	201	202	< 5	82								
M1357	201	202	< 5	49								
M1358	201	202	< 5	53								
M1359	201	202	< 5	47								
M1360	201	202	< 5	81								
M1361	201	202	< 5	61								
M1362	201	202	< 5	94								
M1363	201	202	< 5	42								
M1364	201	202	< 5	29								
M1365	201	202	< 5	38								
M1366	201	202	15	21								
M1367	201	202	10	26								
M1368	201	202	15	52								
M1369	201	202	< 5	51								
M1370	201	202	< 5	24								
M1371	201	202	< 5	18								
M1372	201	202	< 5	42								
M1373	201	202	< 5	21								
M1374	201	202	< 5	20								
M1375	201	202	< 5	15								
M1376	201	202	< 5	11								
M1377	201	202	< 5	13								
M1378	201	202	< 5	12								
M1379	201	202	< 5	15								

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Invoice No. : 19745602
P.O. Number :
Account : GWF

Project : MESABI
Comments: ATTN: GILLES ARSENAULT

CERTIFICATE OF ANALYSIS

A9745602

SAMPLE	PREP CODE	Au ppb FA+AA										
M544831	205	226	15									
M544832	205	226	15									
M544833	205	226	10									
M544834	205	226	10									
M544835	205	226	< 5									
M544836	205	226	< 5									
M544837	205	226	< 5									
M544838	205	226	< 5									
M544839	205	226	< 5									
M544840	205	226	< 5									
M544841	205	226	40									
M544842	205	226	30									
M544843	205	226	< 5									
M544844	205	226	< 5									
M544845	205	226	< 5									
M544846	205	226	< 5									
M544847	205	226	< 5									
M544848	205	226	< 5									
M544849	205	226	< 5									

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CERTIFICATION:

[Signature]



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

To: ECHO BAY MINES LTD.
 CANADIAN EXPLORATION
 PARK PLACE, 350 - 866 BARRARD ST.
 VANCOUVER, BC
 V6C 2X8

Page Number 1
 Total Pages 1
 Certificate Date 05-OCT-87
 Invoice No. I-9744491
 P.O. Number :
 Account :

Project: MESABI
 Comments: EMAIL: PETER BELL

CERTIFICATE OF ANALYSIS A9744491

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA										
M544807	205 226	135										
M544808	205 226	325										
M544809	205 226	265										
M544810	205 226	< 5										
M544811	205 226	10										
M544812	205 226	10										
M544813	205 226	< 5										
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M544815	205 226	< 5										
M544816	205 226	40										
M544817	205 226	< 5										
M544818	205 226	290										
M544819	205 226	725										
M544820	205 226	5										
M544821	205 226	30										
M544822	205 226	< 5										
M544823	205 226	< 5										
M544824	205 226	< 5										
M544825	205 226	< 5										
M544826	205 226	55										
M544827	205 226	20										
M544828	205 226	10										
M544829	205 226	20										
M544830	205 226	< 5										

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10/06/97 7:46PM CHEMEX LABS VAX-FAX

PAGE 002

CERTIFICATION:

Appendix 5: Total Fields Magnetometer Readings

Line 5600

Northing	Easting	Total field	Error	Drift	Time	User Code
5600	6500	52922.5	0.03	4249.4	10:15:56	88
5600	6512	52868.6	0.03	4249.7	10:15:30	88
5600	6525	52832.6	0.03	4249.3	10:14:56	88
5600	6537	52790.3	0.03	4249.6	10:14:20	88
5600	6550	52728.9	0.02	4249.8	10:13:38	88
5600	6562	52678.8	0.03	4249.7	10:13:10	88
5600	6575	52620.8	0.03	4250	10:12:30	88
5600	6587	52541.5	0.02	4249.8	10:11:49	88
5600	6600	52497.3	0.02	4250.1	10:11:14	88
5600	6612	52449.1	0.03	4249.9	10:09:53	88
5600	6625	52387.8	0.03	4250	10:08:55	88
5600	6637	52361.8	0.03	4249.7	10:08:34	88
5600	6650	52308.5	0.03	4249.9	10:07:55	88
5600	6662	52279.6	0.03	4250	10:07:21	88
5600	6675	52248.3	0.03	4249.9	10:06:51	88
5600	6687	52213	0.03	4250	10:06:05	88
5600	6700	52154.9	0.03	4250.3	10:05:17	88
5600	6712	52137	0.03	4250.5	10:04:53	88
5600	6725	52102.8	0.04	4249.7	10:04:11	88
5600	6737	52102	0.03	4250.7	10:03:46	88
5600	6750	52103	0.04	4250.7	10:03:11	88
5600	6762	52106.4	0.03	4250.9	10:02:34	88
5600	6775	52093.5	0.03	4251.2	10:01:31	88
5600	6787	52093.7	0.03	4251.1	10:00:33	88
5600	6800	52116.9	0.03	4251.8	9:54:13	88
5600	6812	52127.6	0.03	4252.5	9:52:05	88
5600	6825	52146	0.03	4252.4	9:51:22	88
5600	6837	52181.2	0.03	4252.9	9:50:40	88
5600	6850	52200.5	0.03	4252.7	9:50:10	88
5600	6862	52205.6	0.04	4253.1	9:49:47	88
5600	6875	52208.5	0.04	4253	9:49:03	88
5600	6887	52211.2	0.03	4253.3	9:48:28	88
5600	6900	52215.6	0.04	4253.3	9:47:49	88
5600	6912	52193.1	0.03	4253.2	9:47:20	88
5600	6925	52192.2	0.03	4253.3	9:46:42	88
5600	6937	52197.4	0.02	4253.6	9:46:18	88
5600	6950	52213.5	0.03	4253.3	9:45:44	88
5600	6962	52210.9	0.03	4253.8	9:44:56	88
5600	6975	52219.2	0.03	4253.9	9:43:20	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5600	6987	52234.1	0.02	4254.2	9:42:31	88
5600	7000	52218.8	0.03	4253.9	9:41:56	88
5600	7012	52208.8	0.03	4253.9	9:41:32	88
5600	7025	52252	0.03	4254	9:40:39	88
5600	7037	52260	0.03	4254.4	9:40:06	88
5600	7050	52279.1	0.03	4254.4	9:38:23	88
5600	7062	52274.3	0.03	4254.4	9:37:35	88
5600	7075	52272.5	0.03	4254.3	9:37:02	88
5600	7087	52273.2	0.03	4254.2	9:36:37	88
5600	7100	52273.1	0.03	4254.4	9:35:57	88
5600	7112	52296.4	0.03	4254.6	9:35:30	88
5600	7125	52306.4	0.03	4254.7	9:34:42	88
5600	7137	52320	0.03	4254.8	9:34:16	88
5600	7150	52343.7	0.03	4254.7	9:33:47	88
5600	7162	52366.9	0.02	4255	9:33:23	88
5600	7175	52420.8	0.02	4255	9:32:50	88
5600	7187	52482.7	0.03	4254.9	9:32:17	88
5600	7200	52618.2	0.04	4255.3	9:31:35	88
5600	7212	52773.4	0.03	4255.4	9:31:07	88
5600	7225	53118.6	0.03	4255.4	9:30:35	88
5600	7237	53526.3	0.03	4255.4	9:29:53	88
5600	7250	54102.5	0.08	4255.6	9:29:04	88
5600	7262	54468.8	0.04	4255.6	9:28:38	88
5600	7275	55039.6	0.03	4255.5	9:27:42	88
5600	7287	55373.1	0.02	4255.4	9:27:10	88
5600	7300	55400.3	0.03	4255.9	9:22:43	88
5600	7300	55399.2	0.03	4255.7	9:25:20	88
5600	7300	55402.8	0.18	4251.3	8:28:50	88
5600	7312	55323.1	0.89	4251.1	8:29:25	88
5600	7325	54734.7	0.17	4251	8:29:57	88
5600	7337	57882.3	0.06	4251.1	8:30:23	88
5600	7350	55038.2	0.07	4251.1	8:30:44	88
5600	7362	57882.5	0.07	4251.2	8:31:49	88
5600	7375	54264.6	0.05	4251.2	8:32:04	88
5600	7387	57870.4	0.05	4251	8:35:08	88
5600	7400	53887.1	0.05	4251.2	8:35:35	88
5600	7412	58018.3	0.07	4250.8	8:36:13	88
5600	7425	53568.4	0.05	4250.6	8:36:46	88
5600	7437	53397.2	0.09	4251	8:37:37	88
5600	7450	53261.8	0.05	4250.9	8:38:06	88
5600	7462	53062.9	0.18	4250.8	8:38:47	88
5600	7475	52940.6	0.11	4250.8	8:39:12	88
5600	7487	52749.2	0.12	4250.8	8:39:41	88
5600	7500	52601.1	0.1	4250.5	8:40:03	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5600	7512	52556.5	0.05	4251.1	8:40:37	88
5600	7525	52270.7	0.03	4251.1	8:41:33	88
5600	7537	47256.9	0.1	4250.9	8:42:52	88
5600	7550	52816.4	0.06	4250.4	8:44:47	88
5600	7562	52585	0.17	4250.7	8:45:28	88
5600	7575	52387.8	0.08	4250.5	8:45:56	88
5600	7587	52364.2	0.07	4250.7	8:46:29	88
5600	7600	52213	0.07	4250.2	8:46:52	88
5600	7612	52295.3	0.06	4250.1	8:48:00	88
5600	7625	52252.6	0.07	4250.3	8:48:26	88
5600	7637	52256.5	0.07	4249.8	8:49:05	88
5600	7650	52277.3	0.07	4250.1	8:49:28	88
5600	7662	52472.8	0.07	4249.7	8:49:51	88
5600	7675	52519.4	0.08	4249.9	8:50:26	88
5600	7687	52256.7	0.08	4249.8	8:50:53	88
5600	7700	52282.3	0.07	4249.2	8:51:14	88
5600	7712	52271.5	0.07	4250.1	8:52:00	88
5600	7725	52263.8	0.07	4250	8:52:28	88
5600	7737	52254.4	0.07	4249.9	8:53:03	88
5600	7750	52123.5	0.07	4250.3	8:53:41	88
5600	7762	52165.7	0.07	4250.1	8:54:29	88
5600	7775	52193.1	0.06	4249.8	8:55:39	88
5600	7787	52211.1	0.07	4249.4	8:56:09	88
5600	7800	52227.9	0.07	4248.9	8:56:36	88
5600	7812	52252.3	0.07	4249.1	8:57:18	88
5600	7825	52264.1	0.07	4249.2	8:57:40	88
5600	7837	52271.7	0.07	4249.4	8:58:28	88
5600	7850	52285.1	0.07	4249.7	8:58:54	88
5600	7862	52326.2	0.06	4249.6	8:59:54	88
5600	7875	52353.7	0.07	4249.5	9:00:34	88
5600	7887	52407.5	0.07	4250	9:01:16	88
5600	7900	52425.4	0.06	4249.7	9:01:44	88
5600	7912	52393.2	0.07	4249.1	9:02:08	88
5600	7925	52403.4	0.06	4248.9	9:02:38	88
5600	7937	52398.7	0.07	4248.9	9:03:10	88
5600	7950	52413.8	0.06	4249.1	9:03:42	88
5600	7962	52450.1	0.07	4248.7	9:04:15	88
5600	7975	52441.5	0.06	4248.7	9:04:36	88
5600	7987	52442.8	0.06	4248.7	9:05:17	88
5600	8000	52486	0.07	4248.5	9:05:40	88

Line 5700

Northing	Easting	Total field	Error	Drift	Time	User Code
5700	6500	52442.4	0.03	4248.4	10:24:52	88
5700	6512	52488.6	0.03	4248.3	10:25:57	88
5700	6525	52473.7	0.03	4248.4	10:26:22	88
5700	6537	52467.5	0.03	4248	10:27:05	88
5700	6550	52470.9	0.02	4248	10:27:26	88
5700	6562	52439.7	0.03	4247.7	10:28:14	88
5700	6575	52408.1	0.03	4247.9	10:28:45	88
5700	6587	52353.7	0.03	4247.4	10:29:38	88
5700	6600	52276.4	0.03	4247.6	10:30:26	88
5700	6612	52233.5	0.03	4247.5	10:31:23	88
5700	6625	52182.6	0.04	4247.4	10:32:27	88
5700	6637	52130.7	0.03	4247.1	10:33:03	88
5700	6650	52070.6	0.03	4247.1	10:33:54	88
5700	6662	52059.5	0.03	4246.9	10:34:14	88
5700	6675	52064.3	0.03	4246.9	10:34:34	88
5700	6687	52060.2	0.03	4247	10:34:55	88
5700	6700	52074.2	0.03	4247	10:37:26	88
5700	6712	52117.9	0.03	4246.6	10:37:56	88
5700	6725	52167.2	0.03	4246.2	10:38:24	88
5700	6737	52261.3	0.03	4246.5	10:39:05	88
5700	6750	52243.5	0.03	4246.1	10:40:48	88
5700	6762	52269.8	0.03	4246	10:41:11	88
5700	6775	52267	0.03	4246.1	10:41:34	88
5700	6787	52261.7	0.03	4245.9	10:43:10	88
5700	6800	52258.5	0.03	4245.6	10:43:36	88
5700	6812	52262.8	0.03	4245.5	10:44:04	88
5700	6825	52277.2	0.03	4245.4	10:44:20	88
5700	6837	52321.4	0.03	4245.4	10:44:41	88
5700	6850	52257	0.04	4245.5	10:45:13	88
5700	6862	52226.6	0.03	4245.6	10:45:41	88
5700	6875	52226.2	0.03	4245.4	10:46:01	88
5700	6887	52206.6	0.03	4245.5	10:46:23	88
5700	6900	52233.8	0.04	4245.4	10:46:41	88
5700	6912	52234.3	0.03	4245.7	10:47:07	88
5700	6925	52247.8	0.03	4245.7	10:47:28	88
5700	6937	52234.9	0.03	4246.2	10:48:02	88
5700	6950	52239.2	0.03	4246.3	10:48:20	88
5700	6962	52236.9	0.03	4245.9	10:48:46	88
5700	6975	52239.1	0.03	4245.2	10:49:51	88
5700	6987	52241.7	0.03	4244.9	10:50:41	88
5700	7000	52239.2	0.03	4245.1	10:50:59	88
5700	7012	52265.8	0.03	4245	10:51:27	88
5700	7025	52219.5	0.03	4244.5	10:51:58	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5700	7037	52209	0.03	4244.5	10:52:36	88
5700	7050	52239.1	0.03	4244.6	10:52:58	88
5700	7062	52157	0.03	4244.3	10:53:24	88
5700	7075	52123.2	0.03	4244.4	10:53:44	88
5700	7087	52066.1	0.03	4244.1	10:54:14	88
5700	7100	52022.4	0.03	4244.5	10:54:33	88
5700	7112	51962.6	0.04	4244.3	10:56:50	88
5700	7125	51922.7	0.05	4244.1	10:57:12	88
5700	7125	51923.4	0.03	4243.4	10:14:09	88
5700	7137	51860.2	0.05	4244.3	10:58:14	88
5700	7137	51867.7	0.04	4243.5	10:13:35	88
5700	7150	51994.5	0.08	4244	10:58:46	88
5700	7150	51992.4	0.04	4243.7	10:12:21	88
5700	7162	51828.5	0.04	4243.6	10:12:06	88
5700	7175	51708.7	0.04	4243.5	10:11:48	88
5700	7187	51574.7	0.03	4243.3	10:11:24	88
5700	7200	51515.1	0.03	4243.4	10:10:20	88
5700	7212	51535.8	0.05	4243.9	10:10:03	88
5700	7225	52100.3	0.06	4244.1	10:07:48	88
5700	7237	54248.8	0.07	4243.8	10:07:14	88
5700	7250	57073.6	0.06	4243.7	10:06:46	88
5700	7262	55999.5	0.05	4244.1	10:06:01	88
5700	7275	58755.7	0.25	4243.5	10:05:31	88
5700	7287	58728.2	0.24	4243.6	10:04:53	88
5700	7300	55865.4	0.07	4243.8	10:03:08	88
5700	7312	55134.2	0.06	4243.4	10:01:35	88
5700	7325	55953.9	0.3	4244	10:00:40	88
5700	7337	59589.5	0.26	4244	9:59:52	88
5700	7350	58888.3	0.22	4244	9:59:24	88
5700	7362	57213.9	0.02	4244.1	9:58:36	88
5700	7375	56867.9	0.05	4244.1	9:57:56	88
5700	7387	56889.6	0.03	4244.3	9:57:33	88
5700	7400	57286.8	0.03	4244.2	9:57:05	88
5700	7412	57305.2	0.04	4244.3	9:56:33	88
5700	7425	56600.5	0.05	4244.8	9:55:42	88
5700	7437	55527.7	0.06	4244.8	9:55:07	88
5700	7450	54654.9	0.06	4244.9	9:54:13	88
5700	7462	53924.3	0.05	4245.8	9:52:20	88
5700	7475	53238.2	0.06	4245.9	9:51:07	88
5700	7487	53475.6	1.7	4245.7	9:50:35	88
5700	7500	54284.7	0.23	4245.5	9:49:53	78
5700	7512	55809	0.59	4245.1	9:49:21	68
5700	7525	54281.8	0.11	4245.4	9:48:20	88
5700	7537	55401	0.05	4245.5	9:47:47	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5700	7550	51422.6	0.94	4245.4	9:47:03	48
5700	7562	52720.2	0.04	4245.5	9:41:01	88
5700	7575	53510.5	0.63	4245.7	9:39:47	78
5700	7587	52416.9	0.03	4246	9:39:06	88
5700	7600	51787.7	1	4246.2	9:38:23	78
5700	7612	52166.7	0.16	4246.4	9:37:34	78
5700	7625	52400.2	0.03	4246.7	9:36:28	88
5700	7637	52408.6	0.02	4246.4	9:35:58	88
5700	7650	52348.3	0.02	4246.6	9:35:37	88
5700	7662	52292	0.03	4246.8	9:35:00	88
5700	7675	52737.7	0.03	4246.6	9:34:17	88
5700	7687	52751.2	0.04	4247	9:33:56	88
5700	7700	52516.8	0.03	4246.8	9:33:25	88
5700	7712	52388.2	0.03	4246.7	9:33:06	88
5700	7725	52432.2	0.07	4246.7	9:31:57	88
5700	7737	52348.8	0.06	4246.7	9:31:25	88
5700	7750	52302	0.06	4246.5	9:30:48	88
5700	7762	52300	0.07	4246.4	9:30:22	88
5700	7775	52300.5	0.07	4246.4	9:29:48	88
5700	7787	52308.6	0.07	4246.6	9:29:27	88
5700	7800	52313.9	0.07	4246.5	9:28:43	88
5700	7812	52320.9	0.06	4246.8	9:28:05	88
5700	7825	52367.5	0.06	4246.8	9:27:15	88
5700	7837	52365.8	0.06	4246.9	9:26:33	88
5700	7850	52382.2	0.06	4247.4	9:25:47	88
5700	7862	52379.6	0.06	4247.1	9:25:04	88
5700	7875	52370.8	0.06	4247.2	9:24:31	88
5700	7887	52372.5	0.06	4247.2	9:24:07	88
5700	7900	52366.9	0.08	4246.9	9:23:13	88
5700	7912	52398.2	0.08	4247	9:22:26	88
5700	7925	52417.3	0.06	4246.8	9:21:53	88
5700	7937	52426.9	0.06	4247	9:21:25	88
5700	7950	52434.8	0.07	4247.2	9:20:37	88
5700	7962	52432.6	0.07	4247	9:20:17	88
5700	7975	52444.9	0.07	4247.1	9:19:47	88
5700	7987	52486.2	0.06	4247.4	9:19:09	88
5700	8000	52412	0.07	4247.5	9:18:29	88

Line 5800

Northing	Easting	Total field	Error	Drift	Time	User Code
5800	6737	52251	0.03	4242	10:33:26	88
5800	6750	52261.6	0.04	4241.5	10:33:01	88
5800	6762	52214.1	0.03	4242.1	10:32:17	88
5800	6775	52250	0.03	4242	10:31:00	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5800	6787	52236.1	0.03	4242	10:30:30	88
5800	6800	52256.8	0.03	4242.4	10:29:54	88
5800	6812	52264.8	0.03	4241.8	10:28:37	88
5800	6825	52272.4	0.03	4242.1	10:28:06	88
5800	6837	52288.9	0.02	4242.3	10:27:42	88
5800	6850	52292.9	0.03	4242.4	10:27:21	88
5800	6862	52293	0.03	4242.5	10:26:59	88
5800	6875	52324.3	0.04	4242.3	10:26:31	88
5800	6887	52308.1	0.04	4242.4	10:26:15	88
5800	6900	52314	0.03	4242.4	10:25:51	88
5800	6912	52277.8	0.03	4242.3	10:25:33	88
5800	6925	52287.7	0.03	4242.3	10:25:15	88
5800	6937	52285.3	0.03	4242.1	10:24:58	88
5800	6950	52293.6	0.03	4242.3	10:24:39	88
5800	6962	52264.7	0.03	4242.7	10:24:20	88
5800	6975	52264	0.03	4242.5	10:20:55	88
5800	6987	52243.4	0.03	4242.6	10:20:25	88
5800	7000	52228.9	0.04	4242.7	10:19:48	88
5800	7012	52206	0.03	4242.8	10:18:39	88
5800	7025	52164.3	0.03	4242.8	10:17:55	88
5800	7037	52064.8	0.03	4243.7	12:21:31	88
5800	7050	52070.9	0.03	4242.8	12:22:03	88
5800	7062	51982.3	0.04	4243.4	12:26:08	88
5800	7075	51867.6	0.04	4243.2	12:27:16	88
5800	7087	51936.6	0.04	4243.3	12:27:38	88
5800	7100	51862.7	0.03	4243.8	12:28:02	88
5800	7112	51770.8	0.04	4243.5	12:28:42	88
5800	7125	51976.7	0.24	4243.4	12:28:58	68
5800	7137	52134.3	0.06	4243.1	12:33:25	88
5800	7150	52786.8	0.06	4243	12:33:49	88
5800	7162	54131.4	0.11	4242.6	12:34:56	88
5800	7175	52310.1	0.06	4242.5	12:36:27	88
5800	7187	51842.8	0.06	4243.1	12:37:51	88
5800	7200	51225.3	0.07	4243.1	12:39:02	88
5800	7212	51668.6	0.12	4243.5	12:39:39	88
5800	7225	54816.4	0.47	4243.5	12:40:32	78
5800	7237	57632.6	0.26	4243.7	12:41:23	78
5800	7250	53940.9	0.49	4244.4	12:42:00	65
5800	7262	52827.7	0.12	4244.1	12:42:40	88
5800	7275	53940	0.09	4244.1	12:43:03	88
5800	7287	55662	0.09	4244.2	12:43:39	88
5800	7300	56911	0.05	4244.3	12:44:15	88
5800	7312	58743.8	0.81	4244.1	12:45:52	88
5800	7325	57487.5	0.06	4244.2	12:46:14	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5800	7337	55797.1	0.04	4243.6	12:46:50	88
5800	7350	55649	0.03	4244.1	12:47:20	88
5800	7362	58061.3	0.13	4243.9	12:47:53	88
5800	7375	62341.7	1.8	4244	12:48:33	78
5800	7387	60697.4	1.5	4244.2	12:49:27	78
5800	7400	59296.8	0.06	4244.3	12:49:56	88
5800	7412	57549.9	0.05	4244.7	12:51:05	88
5800	7425	55305.3	0.03	4244.9	12:51:55	88
5800	7437	53892.4	0.04	4244.9	12:53:11	88
5800	7450	53354.4	0.04	4245.1	12:54:25	88
5800	7462	53365.4	0.03	4244.5	12:55:55	88
5800	7475	52545.8	0.04	4245.1	12:57:26	88
5800	7487	55090.2	0.87	4244.7	12:58:44	78
5800	7500	53056.4	0.04	4244.7	12:59:51	88
5800	7512	53039.4	0.04	4245.2	13:02:54	88
5800	7525	55216	1.6	4245.2	13:05:14	48
5800	7537	59778.4	1	4245	13:06:48	58
5800	7550	53636.9	0.2	4247.7	13:23:21	88
5800	7562	51267.5	0.1	4247.6	13:24:09	88
5800	7575	51814.9	0.11	4247.8	13:24:33	88
5800	7587	52622.5	0.06	4247.8	13:24:56	88
5800	7600	52580	0.06	4247.6	13:25:13	88
5800	7612	51556.7	0.07	4247.7	13:25:31	88
5800	7625	52653.3	0.07	4248.2	13:26:14	88
5800	7637	52469.8	0.06	4248	13:26:48	88
5800	7650	52413.6	0.06	4247.6	13:27:31	88
5800	7662	52016.4	0.04	4248.2	13:27:54	88
5800	7675	52606.4	0.06	4248.6	13:39:29	88
5800	7687	52495.8	0.68	4248.3	13:39:56	88
5800	7700	52554.3	0.06	4248.8	13:40:19	88
5800	7712	52630.1	0.06	4249.7	13:40:46	88
5800	7725	52452.4	0.05	4249.5	13:41:08	88
5800	7737	52309.7	0.06	4249.7	13:41:30	88
5800	7750	52313.9	0.06	4250	13:42:17	88
5800	7762	52317.5	0.06	4249.9	13:43:00	88
5800	7775	52318.9	0.03	4249.5	13:43:16	88
5800	7787	52340.4	0.06	4249.5	13:43:38	88
5800	7800	52344.5	0.07	4249.9	13:44:14	88
5800	7812	52354.5	0.07	4249.4	13:44:37	88
5800	7825	52373.3	0.06	4248.5	13:45:04	88
5800	7837	52417.1	0.06	4248.7	13:45:34	88
5800	7850	52394.4	0.06	4249.6	13:45:51	88
5800	7862	52393.4	0.06	4249.5	13:46:09	88
5800	7875	52402.4	0.06	4249	13:46:26	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5800	7887	52421.4	0.05	4248.8	13:46:50	88
5800	7900	52437.4	0.06	4248.9	13:47:08	88
5800	7912	52451.8	0.06	4249.2	13:47:28	88
5800	7925	52460.3	0.06	4249.7	13:47:50	88
5800	7937	52458.5	0.04	4249.4	13:48:36	88
5800	7950	52398.6	0.03	4249.1	13:48:49	88
5800	7962	52480.8	0.06	4249.2	13:49:12	88
5800	7975	52487	0.03	4249.1	13:49:30	88
5800	7987	52497.4	0.03	4249.3	13:49:48	88
5800	8000	52499.2	0.03	4249.5	13:50:06	88
5800	8012	52505.5	0.03	4249.4	13:50:24	88
5800	8025	52512.1	0.03	4249.6	13:50:42	88

Line 5900

Northing	Easting	Total field	Error	Drift	Time	User Code
5900	6500	52780.6	0.04	4242	10:54:41	88
5900	6512	52734.1	0.03	4242.1	10:54:18	88
5900	6525	52668.9	0.03	4242.3	10:54:00	88
5900	6537	52645.9	0.02	4242.3	10:53:44	88
5900	6550	52586.8	0.03	4242.1	10:53:20	88
5900	6562	52533.4	0.03	4242	10:53:01	88
5900	6575	52442.6	0.03	4242	10:52:29	88
5900	6587	52347.2	0.03	4242.2	10:51:29	88
5900	6600	52271.8	0.04	4242.2	10:50:32	88
5900	6612	52223.5	0.02	4242.2	10:50:02	88
5900	6625	52221.9	0.04	4242.3	10:49:42	88
5900	6637	52225.4	0.05	4242.2	10:49:22	88
5900	6650	52221.4	0.06	4242.2	10:48:28	88
5900	6662	52212.6	0.05	4242.5	10:48:05	88
5900	6675	52230.3	0.03	4242.2	10:47:04	88
5900	6687	52187.5	0.06	4242.4	10:46:28	88
5900	6700	52204.4	0.03	4242.6	10:45:08	88
5900	6712	52227.2	0.06	4240	11:21:37	88
5900	6725	52251.7	0.06	4239.7	11:22:26	88
5900	6737	52317.2	0.06	4239.2	11:23:25	88
5900	6750	52360.9	0.06	4239	11:24:01	88
5900	6762	52329	0.08	4239	11:24:33	88
5900	6775	52329.3	0.05	4239.8	11:25:42	88
5900	6787	52342.4	0.05	4239.9	11:26:07	88
5900	6800	52304.4	0.06	4240.1	11:26:37	88
5900	6812	52280.2	0.03	4240.6	11:27:04	88
5900	6825	52276.6	0.06	4240.4	11:27:30	88
5900	6837	52285.4	0.03	4241.9	11:29:15	88
5900	6850	52305.7	0.03	4241.6	11:29:33	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5900	6862	52383.1	0.06	4241	11:30:07	88
5900	6875	52342	0.03	4241.2	11:30:40	88
5900	6887	52286.6	0.03	4241.3	11:31:01	88
5900	6900	52376.2	0.03	4241.6	11:31:24	88
5900	6912	52326.9	0.03	4241.1	11:31:52	88
5900	6925	52386.3	0.05	4241.3	11:32:32	88
5900	6937	52414.2	0.03	4241.8	11:34:43	88
5900	6950	52346.8	0.04	4241.1	11:35:04	88
5900	6962	52371.7	0.02	4241.2	11:35:22	88
5900	6975	52397.2	0.03	4241.3	11:35:41	88
5900	6987	52623.3	0.13	4241.2	11:37:28	78
5900	7125	52083.4	0.07	4225.1	8:58:58	88
5900	7137	52260.1	0.05	4224.3	9:00:03	88
5900	7150	52373.6	0.06	4223.9	9:00:41	88
5900	7162	52747.1	0.03	4223.9	9:01:37	88
5900	7175	54207	0.03	4223.2	9:02:33	88
5900	7187	53129	0.03	4222.5	9:03:20	88
5900	7200	52117.7	0.03	4221.7	9:04:46	88
5900	7212	52114.7	0.03	4220.9	9:07:25	88
5900	7225	52094.3	0.02	4220.4	9:08:35	88
5900	7237	52331.9	0.03	4220.5	9:09:25	88
5900	7250	52916.5	0.03	4219.6	9:10:02	88
5900	7262	52444.9	0.04	4218.6	9:11:02	88
5900	7275	52321.4	0.05	4218.5	9:11:44	88
5900	7287	52730.4	0.03	4217.9	9:12:28	88
5900	7300	52703.2	0.02	4217.1	9:13:14	88
5900	7312	52074.4	0.07	4217.7	9:13:57	88
5900	7325	52400.2	0.05	4216.8	9:14:31	88
5900	7337	51967.6	0.03	4216.6	9:14:59	88
5900	7350	48413.8	15	4216.2	9:15:25	55
5900	7362	56944.4	3.4	4216	9:15:56	66
5900	7375	54424.2	0.2	4215.7	9:16:43	78
5900	7387	52538.1	0.04	4214.6	9:17:35	88
5900	7400	52437	0.04	4213.7	9:18:02	88
5900	7412	52291.9	0.04	4213.3	9:18:31	88
5900	7425	52266.7	0.03	4213.5	9:19:13	88
5900	7437	52154	0.04	4213	9:20:00	88
5900	7450	52163.5	0.03	4212.4	9:20:54	88
5900	7462	52324.9	0.03	4212.2	9:22:01	88
5900	7475	52337.7	0.03	4211.5	9:23:12	88
5900	7487	52403.5	0.03	4210.7	9:24:40	88
5900	7500	52400.8	0.03	4210.1	9:27:07	88
5900	7512	52479.2	0.03	4209.8	9:29:24	88
5900	7525	52769.5	0.02	4209.8	9:30:56	88

Northing	Easting	Total field	Error	Drift	Time	User Code
5900	7537	51997.5	0.03	4209.9	9:32:22	88
5900	7550	51172.3	0.04	4210.7	9:33:00	88
5900	7562	43683.9	4.8	4205.9	9:43:38	42
5900	7575	54341	0.4	4206	9:44:30	55
5900	7587	47858.1	55	4206.3	9:45:04	34
5900	7600	51326.9	0.14	4206	9:45:53	78
5900	7612	53339	0.03	4206.1	9:46:19	88
5900	7625	53037.3	0.05	4206.5	9:46:51	88
5900	7637	52853.2	0.05	4206.6	9:47:26	88
5900	7650	52362.4	0.13	4206.2	9:48:04	78
5900	7662	52271.6	0.15	4206.5	9:48:38	68
5900	7675	52471.6	0.03	4206.1	9:49:20	88
5900	7687	52195.5	0.04	4205.8	9:49:53	88
5900	7700	52231.1	0.04	4205.6	9:50:26	88
5900	7712	52272.6	0.04	4205.6	9:50:58	88
5900	7725	52313.1	0.03	4205.7	9:51:24	88
5900	7737	52318.9	0.03	4205.1	9:51:53	88
5900	7750	52307.8	0.06	4204.5	9:52:22	88
5900	7762	52361.2	0.07	4204.5	9:52:53	88
5900	7775	52316.8	0.03	4204.6	9:54:13	88
5900	7787	52295.4	0.04	4204.8	9:54:46	88
5900	7800	52294.4	0.04	4205.5	9:55:14	88
5900	7812	52301.3	0.04	4204.7	9:56:01	88
5900	7825	52259.2	0.06	4205.9	9:56:53	88
5900	7837	52260	0.03	4206.5	9:57:56	88
5900	7850	52252.7	0.21	4206.5	9:59:19	88
5900	7862	52299.6	0.03	4206.7	10:00:12	88
5900	7875	52333.3	0.03	4206.9	10:00:57	88
5900	7887	52341.9	0.03	4206.3	10:01:27	88
5900	7900	52323.5	0.07	4206	10:02:12	88
5900	7912	52368.8	0.04	4206.3	10:02:59	88
5900	7925	52388	0.03	4206.1	10:03:43	88
5900	7937	52381	0.05	4206.1	10:04:43	88
5900	7950	52401.3	0.05	4205.8	10:05:13	88
5900	7962	52418.1	0.03	4207.2	10:05:56	88
5900	7975	52425	0.03	4207.2	10:06:35	88
5900	7987	52457.7	0.03	4206.1	10:07:40	88
5900	8000	52469	0.02	4206.2	10:08:31	88
5900	8012	52612.9	13	4218.5	10:43:02	38

Line 6000

Northing	Easting	Total field	Error	Drift	Time	User Code
6000	6500	52696	0.03	4241.9	10:58:30	88
6000	6512	52652.6	0.02	4241.9	10:58:53	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6000	6525	52584.6	0.03	4242.1	10:59:11	88
6000	6537	52479.2	0.02	4241.9	10:59:33	88
6000	6550	52452.6	0.03	4242.2	10:59:51	88
6000	6562	52417.1	0.02	4242.2	11:00:12	88
6000	6575	52385.2	0.03	4242.4	11:00:33	88
6000	6587	52370.5	0.03	4242.2	11:00:54	88
6000	6600	52377.3	0.03	4241.8	11:01:30	88
6000	6612	52387.4	0.03	4241.8	11:01:55	88
6000	6625	52378.1	0.04	4241.8	11:02:14	88
6000	6637	52335.4	0.03	4242	11:02:38	88
6000	6650	52288.9	0.05	4241.6	11:03:05	88
6000	6662	52283.1	0.05	4241.8	11:03:37	88
6000	6675	52259	0.02	4241.6	11:04:00	88
6000	6687	52271	0.03	4241.5	11:04:21	88
6000	6700	52306.7	0.04	4241.4	11:04:43	88
6000	6712	52281.2	0.02	4241.5	11:05:12	88
6000	6725	52282.6	0.02	4241.1	11:05:38	88
6000	6737	52266.9	0.06	4241	11:06:05	88
6000	6750	52279.4	0.03	4240.5	11:09:13	88
6000	6762	52306.8	0.06	4240.1	11:09:40	88
6000	6775	52329.6	0.06	4240.3	11:10:00	88
6000	6787	52280.5	0.06	4240.7	11:12:51	88
6000	6800	52299.4	0.05	4240.4	11:13:03	88
6000	6812	52313.8	0.04	4240.1	11:13:20	88
6000	6825	52318.3	0.03	4240.3	11:13:38	88
6000	6837	52328.7	0.04	4240.6	11:13:58	88
6000	6850	52408.2	0.03	4240.8	11:14:17	88
6000	6862	52398.4	0.03	4241.1	11:14:42	88
6000	6875	52424.3	0.07	4240.7	11:15:09	88
6000	6887	52378.1	0.08	4240.8	11:16:02	88
6000	6900	52384.3	0.06	4241.3	11:16:22	88
6000	7400	52545.5	0.05	4250.4	14:51:19	88
6000	7412	52285.8	0.03	4250.3	14:50:31	88
6000	7425	52175.4	0.71	4250.6	14:49:51	58
6000	7437	52202.5	0.05	4250.3	14:49:26	88
6000	7450	52381.3	0.05	4250.2	14:48:48	86
6000	7462	52433.7	0.04	4250.3	14:47:12	88
6000	7475	52446.1	0.03	4250	14:46:31	88
6000	7487	52456.7	0.03	4250.2	14:45:50	88
6000	7500	52429.7	0.03	4249.9	14:45:09	88
6000	7512	52408	0.03	4250.3	14:44:41	88
6000	7525	52503.2	0.06	4250	14:43:57	88
6000	7537	52475.5	0.06	4250.1	14:43:38	88
6000	7550	52445.6	0.06	4250.2	14:43:12	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6000	7562	52390.4	0.07	4250.7	14:41:42	88
6000	7575	52374.7	0.07	4250.8	14:41:17	88
6000	7587	52381.9	0.07	4251.1	14:40:55	88
6000	7600	52380.3	0.03	4251	14:39:56	88
6000	7612	52384.5	0.03	4250.9	14:39:29	88
6000	7625	52309.1	0.94	4250.6	14:38:46	48
6000	7637	52231	0.06	4250.2	14:37:32	88
6000	7650	52238	0.07	4250	14:35:35	88
6000	7662	52238.5	0.07	4249.1	14:33:00	88
6000	7675	52244.9	0.06	4248.9	14:31:34	88
6000	7687	52221	0.06	4249.8	14:30:42	88
6000	7700	52259.4	0.06	4249.8	14:29:23	88
6000	7712	52297.7	0.07	4250	14:28:45	88
6000	7725	52316.4	0.06	4250.7	14:27:56	88
6000	7737	52356.9	0.07	4250.4	14:27:12	88
6000	7750	52387.4	0.03	4250.5	14:25:54	88
6000	7762	52402.6	0.06	4250.2	14:24:52	88
6000	7775	52436.2	0.05	4249.8	14:24:09	88
6000	7787	52478.2	0.05	4249.7	14:23:38	88
6000	7800	52536	0.05	4249.7	14:23:10	88
6000	7812	52542.9	0.05	4249.8	14:22:46	88
6000	7825	52534.3	0.06	4249.8	14:22:14	88
6000	7837	52510.3	0.05	4249.7	14:21:53	88
6000	7850	52503.4	0.06	4249.3	14:21:19	88
6000	7862	52495.8	0.06	4249.5	14:20:56	88
6000	7875	52474.1	0.05	4250.1	14:20:28	88
6000	7887	52475.6	0.05	4250.6	14:20:11	88
6000	7900	52486.4	0.06	4250.3	14:19:40	88
6000	7912	52463.6	0.05	4250.5	14:19:04	88
6000	7925	52459.4	0.05	4250.9	14:18:17	88
6000	7937	52494	0.06	4250.6	14:17:45	88
6000	7950	52505.9	0.05	4250.8	14:17:11	88
6000	7962	52490.9	0.06	4250.8	14:16:48	88
6000	7975	52522.3	0.07	4250.1	14:16:18	88
6000	7987	52530.4	0.06	4250.1	14:15:54	88
6000	8000	52538.9	0.06	4250.9	14:15:13	88

Line 6100

Northing	Easting	Total field	Error	Drift	Time	User Code
6100	6500	52583.1	0.03	4245	14:17:55	88
6100	6512	52542.9	0.03	4244.9	14:17:20	88
6100	6525	52459.9	0.02	4244.9	14:16:56	88
6100	6537	52434.2	0.02	4244.8	14:16:33	88
6100	6550	52437.7	0.03	4244.7	14:16:11	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6100	6562	52379.7	0.03	4244.7	14:15:47	88
6100	6575	52376.1	0.03	4244.6	14:15:24	88
6100	6587	52371.4	0.03	4244.6	14:14:59	88
6100	6600	52345	0.02	4244.5	14:14:28	88
6100	6612	52372.8	0.04	4244.4	14:14:03	88
6100	6625	52344	0.03	4244.3	14:13:34	88
6100	6637	52278.6	0.38	4244.2	14:12:59	58
6100	6650	52281.5	0.03	4244.2	14:12:32	88
6100	6662	52285.9	0.03	4244.1	14:12:09	88
6100	6675	52266.4	0.03	4244	14:11:28	88
6100	6687	52322.4	0.03	4243.9	14:10:56	88
6100	6700	52313.3	0.03	4243.8	14:10:25	88
6100	6712	52355.4	0.03	4243.7	14:09:49	88
6100	6725	52401.1	0.03	4243.6	14:09:12	88
6100	6737	52327	0.06	4243.4	14:07:41	88
6100	6750	52320	0.03	4243.2	14:06:35	88
6100	6762	52339.8	0.02	4243.1	14:06:07	88
6100	6775	52328.6	0.03	4243.1	14:05:37	88
6100	6787	52283.4	0.03	4240.4	13:48:56	88
6100	6800	52274	0.02	4240.3	13:47:57	88
6100	6812	52249.3	0.02	4240.2	13:47:31	88
6100	6825	52209.1	0.02	4240.1	13:46:53	88
6100	6837	52278.4	0.04	4240	13:46:06	88
6100	6850	52260	0.03	4239.8	13:45:17	88
6100	6862	51771.5	0.15	4239.8	13:44:53	88
6100	6875	52270.5	0.04	4239.7	13:44:23	88
6100	6887	52282.8	0.03	4239.6	13:43:56	88
6100	6900	52265.6	0.03	4239.4	13:42:47	88
6100	6912	52278.3	0.03	4239.4	13:42:17	88
6100	6925	52302.4	0.02	4239.3	13:41:45	88
6100	6937	52474	0.02	4239.2	13:41:06	88
6100	6950	52702.6	0.03	4239.1	13:40:37	88
6100	6962	53134.3	0.03	4239	13:39:56	88
6100	6975	52954.1	0.03	4238.9	13:39:19	88
6100	6987	52778.6	0.04	4238.8	13:38:40	88
6100	7000	53816.3	0.06	4238.7	13:37:57	88
6100	7012	53801	0.05	4238.6	13:37:33	88
6100	7025	52919.6	0.02	4238.5	13:36:59	88
6100	7037	52472.7	0.03	4238.4	13:36:25	88
6100	7050	52190.2	0.13	4238.3	13:35:43	78
6100	7062	52309	0.03	4238.2	13:35:06	88
6100	7075	52233.2	0.02	4238.1	13:34:36	88
6100	7087	52262.2	0.03	4238	13:34:00	88
6100	7100	52168.5	0.02	4237.9	13:33:14	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6100	7112	52198.4	0.03	4237.8	13:32:34	88
6100	7125	52380.1	0.04	4236.2	13:22:10	88
6100	7137	53245.2	0.04	4236.1	13:21:35	88
6100	7150	53407.7	0.03	4236	13:20:59	88
6100	7162	51979.9	0.03	4235.9	13:20:15	88
6100	7175	52181.3	0.03	4235.7	13:19:14	88
6100	7187	52208.6	0.03	4235.5	13:18:17	88
6100	7200	52469.5	0.03	4235.5	13:17:52	88
6100	7212	52342	0.03	4235.4	13:17:20	88
6100	7225	52267.7	0.03	4235.2	13:16:22	88
6100	7237	52246.2	0.03	4235.1	13:15:43	88
6100	7250	52229.8	0.03	4234.8	13:13:19	88
6100	7262	52227.9	0.03	4234.6	13:12:06	88
6100	7275	52298.8	0.03	4234.4	13:11:18	88
6100	7287	52256	0.03	4234.3	13:10:29	88
6100	7300	52261.9	0.02	4234.2	13:09:38	88
6100	7312	52315.4	0.05	4234	13:08:46	88
6100	7325	52864.5	0.04	4233.9	13:08:02	88
6100	7337	52672.7	0.03	4233.8	13:07:30	88
6100	7350	52861	0.04	4233.8	13:07:00	88
6100	7362	52816.3	0.03	4233.7	13:06:23	88
6100	7375	52762.2	0.03	4233.6	13:05:46	88
6100	7387	52498.6	0.03	4233.5	13:05:16	88
6100	7400	52554.5	0.02	4233.4	13:04:45	88
6100	7412	52529	0.03	4233.3	13:04:17	88
6100	7425	52446	0.03	4233.2	13:03:45	88
6100	7437	52786	0.04	4233.2	13:03:14	88
6100	7450	53212.5	0.02	4233.1	13:02:41	88
6100	7462	52497.7	0.03	4233	13:02:15	88
6100	7475	52481.6	0.03	4232.9	13:01:38	88
6100	7487	52442.2	0.04	4232.8	13:01:15	88
6100	7500	53049.4	0.04	4230.4	12:46:02	88
6100	7512	52742.7	0.03	4230.3	12:45:31	88
6100	7525	52616	0.03	4230.3	12:45:07	88
6100	7537	52611.9	0.02	4230.2	12:44:32	88
6100	7550	52531.1	0.03	4230.1	12:43:46	88
6100	7562	52585.1	0.03	4230	12:43:08	88
6100	7575	52495.9	0.03	4229.3	12:38:50	88
6100	7587	52352.4	0.02	4229.1	12:37:40	88
6100	7600	52384.6	0.02	4228.9	12:36:44	88
6100	7612	52320.9	0.03	4228.8	12:35:39	88
6100	7625	52303.3	0.03	4228.6	12:34:25	88
6100	7637	52262.3	0.03	4228.3	12:33:01	88
6100	7650	52203.9	0.1	4228.1	12:31:39	78

Northing	Easting	Total field	Error	Drift	Time	User Code
6100	7662	52217.7	0.04	4228	12:30:50	88
6100	7675	52215.4	0.05	4227.9	12:30:27	88
6100	7687	52267.7	0.03	4227.6	12:28:30	88
6100	7700	52261.1	0.03	4227.5	12:27:42	88
6100	7712	52228	0.06	4227.4	12:27:03	88
6100	7725	52201.7	0.04	4226.9	12:26:04	88
6100	7737	52250.4	0.03	4227.5	12:24:09	88
6100	7750	52457.7	0.03	4227.5	12:23:24	88
6100	7762	52613.2	0.02	4227.5	12:22:54	88
6100	7775	52630.2	0.03	4227.9	12:22:33	88
6100	7787	52674.6	0.02	4227.4	12:22:12	88
6100	7800	52616.9	0.03	4227.8	12:21:50	88
6100	7812	52638.7	0.03	4227.7	12:21:21	88
6100	7825	52701.2	0.03	4227.6	12:20:55	88
6100	7837	52564	0.02	4227.7	12:20:11	88
6100	7850	52324.7	0.03	4227.6	12:19:21	88
6100	7862	52318.9	0.03	4228	12:18:36	88
6100	7875	52378	0.04	4228.1	12:18:09	88
6100	7887	52429.3	0.03	4227.8	12:17:35	88
6100	7900	52440.7	0.06	4228	12:16:57	88
6100	7912	52431.6	0.03	4228.4	12:16:19	88
6100	7925	52441.6	0.03	4228.3	12:15:49	88
6100	7937	52482.2	0.03	4227.9	12:15:13	88
6100	7950	52468.4	0.02	4228.2	12:14:52	88
6100	7962	52493.6	0.31	4228	12:14:13	58
6100	7975	52486.4	0.03	4226.1	12:01:57	88
6100	7987	52475.1	0.03	4226.1	12:01:31	88
6100	8000	52514.8	0.03	4225.5	12:01:11	88

Line 6200 NOTE: Data Uncorrected for Line 6200 N

Northing	Easting	Total field	Error	Drift	Time	User Code
6200	6800	56316.7	0.09	0	8:46:48	88
6200	6800	56159.6	0.08	0	8:50:46	88
6200	6812	56115.5	0.03	0	8:51:27	88
6200	6825	56045.5	0.03	0	8:52:10	88
6200	6837	56143.5	0.03	0	8:52:54	88
6200	6850	56487	0.02	0	8:53:34	88
6200	6862	57766.7	0.02	0	8:54:12	88
6200	6875	66425.2	0.36	0	8:54:45	56
6200	6887	49197.8	0.33	0	8:55:39	48
6200	6900	55806.7	0.06	0	8:56:28	88
6200	6912	56687.8	0.03	0	8:57:18	88
6200	6925	56700	0.02	0	8:58:07	88
6200	6937	56685.1	0.03	0	8:58:45	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6200	6950	56769.3	0.03	0	8:59:32	88
6200	6962	56579.6	0.02	0	9:00:27	88
6200	6975	56972	0.03	0	9:01:05	88
6200	6987	57007.8	0.03	0	9:01:50	88
6200	7000	56595.2	0.03	0	9:02:53	88
6200	7012	56530.2	0.03	0	9:03:34	88
6200	7025	56521.5	0.03	0	9:04:18	88
6200	7037	56518.5	0.03	0	9:04:48	88
6200	7050	56486	0.03	0	9:05:33	88
6200	7062	56511.7	0.03	0	9:06:19	88
6200	7075	56462.7	0.03	0	9:07:00	88
6200	7087	57006.5	0.03	0	9:07:44	88
6200	7100	56833.6	0.03	0	9:08:23	88
6200	7112	56732.4	0.02	0	9:19:02	88
6200	7125	56913	0.02	0	9:19:46	88
6200	7137	56857.8	0.02	0	9:20:46	88
6200	7150	56721.5	0.02	0	9:21:27	88
6200	7162	56669.6	0.02	0	9:22:17	88
6200	7175	56650.2	0.02	0	9:22:57	88
6200	7187	56564.4	0.03	0	9:23:28	88
6200	7200	56523.3	0.03	0	9:24:19	88
6200	7212	56539.4	0.03	0	9:25:22	88
6200	7225	56576.1	0.02	0	9:27:10	88
6200	7237	56172.6	0.08	0	9:29:17	88
6200	7250	56669.3	0.02	0	9:31:52	88
6200	7262	56705.5	0.02	0	9:33:00	88
6200	7275	56682.7	0.04	0	9:34:27	88
6200	7287	57134.7	0.04	0	9:35:26	88
6200	7300	57003.1	0.03	0	9:39:22	88
6200	7312	57030.2	0.03	0	9:40:46	88
6200	7325	56865.2	0.04	0	9:41:58	88
6200	7337	56876.4	0.02	0	9:44:21	88
6200	7350	56845.1	0.02	0	9:44:44	88
6200	7362	56975.8	0.02	0	9:45:18	88
6200	7375	56937.4	0.02	0	9:45:44	88
6200	7387	56921.8	0.02	0	9:46:31	88
6200	7400	56916.8	0.03	0	9:46:57	88
6200	7412	56927.7	0.02	0	9:47:44	88
6200	7425	56886	0.03	0	9:48:45	88
6200	7437	56844.4	0.02	0	10:00:51	88
6200	7450	56814.2	0.03	0	10:01:23	88
6200	7462	56796.8	0.03	0	10:01:52	88
6200	7475	56789	0.03	0	10:02:21	88
6200	7487	56762.3	0.03	0	10:03:00	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6200	7500	56736.3	0.03	0	10:03:35	88
6200	7512	56732.6	0.03	0	10:04:05	88
6200	7525	56688.8	0.03	0	10:04:30	88
6200	7537	56674.8	0.02	0	10:05:04	88
6200	7550	56670	0.02	0	10:05:38	88
6200	7562	56661.8	0.02	0	10:06:17	88
6200	7575	56644	0.03	0	10:06:46	88
6200	7587	56651.4	0.03	0	10:07:36	88
6200	7600	56655.7	0.03	0	10:08:07	88
6200	7612	56645	0.03	0	10:10:07	88
6200	7625	56642.9	0.03	0	10:10:51	88
6200	7637	56657.3	0.02	0	10:11:22	88
6200	7650	56633.6	0.02	0	10:11:55	88
6200	7662	56611.3	0.02	0	10:12:28	88
6200	7675	56597.1	0.03	0	10:13:07	88
6200	7687	56624.5	0.02	0	10:13:46	88
6200	7700	56656.4	0.03	0	10:14:44	88
6200	7712	56664.7	0.02	0	10:15:20	88
6200	7725	56785	0.02	0	10:16:09	88
6200	7737	56974.5	0.02	0	10:16:53	88
6200	7750	57036	0.02	0	10:17:27	88
6200	7762	56977.2	0.03	0	10:17:50	88
6200	7775	56927.2	0.03	0	10:18:23	88
6200	7787	56790.3	0.02	0	10:18:52	88
6200	7800	56788.9	0.02	0	10:19:17	88
6200	7812	56816.9	0.03	0	10:19:38	88
6200	7825	56798.3	0.02	0	10:20:04	88
6200	7837	56726.8	0.03	0	10:20:32	88
6200	7850	56734.7	0.03	0	10:21:09	88
6200	7862	56727.3	0.02	0	10:21:58	88
6200	7875	56728.2	0.03	0	10:23:10	88
6200	7887	56752.5	0.03	0	10:23:50	88
6200	7900	56763.1	0.02	0	10:24:09	88
6200	7912	56780.9	0.03	0	10:24:32	88
6200	7925	56785	0.02	0	10:24:55	88
6200	7937	56785.3	0.02	0	10:25:19	88
6200	7950	56791.2	0.02	0	10:25:45	88
6200	7962	56798	0.02	0	10:26:12	88
6200	7975	56799.3	0.02	0	10:26:47	88
6200	7987	56812.5	0.03	0	10:27:30	88
6200	8000	56818.1	0.03	0	10:28:00	88

Line 6300 NOTE: Data uncorrected for Line 6300 N

Northing	Easting	Total field	Error	Drift	Time	User Code
6300	6662	56369.7	0.01	0	16:47:52	88
6300	6675	56369.7	0.01	0	16:45:42	88
6300	6700	56540.5	0.03	0	12:52:24	88
6300	6712	56825.6	0.03	0	12:51:18	88
6300	6725	56879	0.03	0	12:50:52	88
6300	6737	56827.3	0.02	0	12:49:38	88
6300	6750	56693.3	0.03	0	12:49:00	88
6300	6762	56599.1	0.03	0	12:47:56	88
6300	6775	56397.3	0.03	0	12:46:56	88
6300	6787	56101.7	0.03	0	12:46:10	88
6300	6800	56147.2	0.03	0	12:45:19	88
6300	6812	56122.5	0.03	0	12:44:02	88
6300	6825	56380.2	0.03	0	12:42:25	88
6300	6837	55711.2	0.04	0	12:41:48	88
6300	6850	56032.7	0.05	0	12:41:14	88
6300	6862	57991.2	0.03	0	12:39:49	87
6300	6875	62599.4	4	0	12:38:45	38
6300	6887	57125.4	0.12	0	12:36:26	77
6300	6900	62075.4	0.18	0	12:35:49	88
6300	6912	61591.7	0.13	0	12:34:34	68
6300	6925	57685.7	0.04	0	12:33:34	88
6300	6937	56617.5	0.03	0	12:32:49	88
6300	6950	56605.5	0.02	0	12:32:17	88
6300	6962	56716.3	0.02	0	12:31:38	88
6300	6975	56707.9	0.02	0	12:30:51	88
6300	6987	56723	0.02	0	12:30:24	88
6300	7000	56801.2	0.03	0	12:19:48	88
6300	7012	56713.7	0.03	0	12:19:00	88
6300	7025	56687.1	0.02	0	12:18:23	88
6300	7037	56705.5	0.03	0	12:17:22	88
6300	7050	56692.6	0.03	0	12:16:33	88
6300	7062	56719.3	0.02	0	12:15:50	88
6300	7075	56712	0.03	0	12:15:06	88
6300	7087	56830.1	0.03	0	12:14:19	88
6300	7100	56679.7	0.03	0	12:13:34	88
6300	7112	56837.6	0.03	0	12:12:42	88
6300	7125	56816.9	0.03	0	12:12:10	88
6300	7137	56706.2	0.02	0	12:11:37	88
6300	7150	56642.4	0.02	0	12:10:53	88
6300	7162	56626.8	0.03	0	12:10:03	88
6300	7175	56635.2	0.03	0	12:09:25	88
6300	7187	56659.3	0.02	0	12:08:38	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6300	7200	56639.2	0.03	0	12:08:03	88
6300	7212	56666	0.03	0	12:07:26	88
6300	7225	56658.1	0.39	0	12:06:53	68
6300	7237	56752	0.02	0	12:06:07	88
6300	7250	56832.8	0.03	0	12:05:02	88
6300	7262	56858.5	0.02	0	12:04:03	88
6300	7275	56883.3	0.02	0	12:03:23	88
6300	7287	56983.7	0.03	0	12:02:46	88
6300	7300	56946.3	0.03	0	12:01:36	88
6300	7312	57109.6	0.03	0	12:01:09	88
6300	7325	56997	0.03	0	12:00:29	88
6300	7337	57001	0.04	0	11:59:26	88
6300	7350	57088.3	0.03	0	11:57:46	88
6300	7362	56991.3	0.02	0	11:27:43	88
6300	7375	56879.3	0.02	0	11:27:02	88
6300	7387	56874.8	0.02	0	11:26:39	88
6300	7400	56865.1	0.03	0	11:26:12	88
6300	7412	56856.7	0.02	0	11:25:50	88
6300	7425	56824.9	0.03	0	11:25:27	88
6300	7437	56832.5	0.02	0	11:24:56	88
6300	7450	56775.7	0.03	0	11:24:18	88
6300	7462	56734.7	0.02	0	11:23:24	88
6300	7475	56737	0.02	0	11:13:13	88
6300	7487	56736.5	0.03	0	11:12:17	88
6300	7500	56721.1	0.02	0	11:11:39	88
6300	7512	56733.7	0.03	0	11:11:10	88
6300	7525	56720.2	0.06	0	11:10:47	88
6300	7537	56715.4	0.02	0	11:10:15	88
6300	7550	56732.7	0.03	0	11:09:51	88
6300	7562	56726.5	0.03	0	11:08:51	88
6300	7575	56707.5	0.03	0	11:08:06	88
6300	7587	56700.9	0.02	0	11:07:30	88
6300	7600	56715.9	0.02	0	11:06:37	88
6300	7612	56711.7	0.02	0	11:05:30	88
6300	7625	56710.6	0.03	0	11:04:47	88
6300	7637	56711.2	0.03	0	11:04:14	88
6300	7650	56732.2	0.03	0	11:03:32	88
6300	7662	56740.8	0.02	0	11:02:58	88
6300	7675	56746.4	0.02	0	11:02:31	88
6300	7687	56748.2	0.03	0	11:02:10	88
6300	7700	56763.8	0.02	0	11:01:47	88
6300	7712	56753.5	0.03	0	11:01:19	88
6300	7725	56747.3	0.02	0	11:00:50	88
6300	7737	56776.9	0.03	0	11:00:24	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6300	7750	56796.1	0.02	0	10:59:54	88
6300	7762	56978	0.08	0	10:59:21	77
6300	7775	56976.9	0.03	0	10:59:01	88
6300	7787	56879.8	0.03	0	10:58:32	88
6300	7800	56826.4	0.02	0	10:58:01	88
6300	7812	56796.1	0.02	0	10:57:31	88
6300	7825	56792.6	0.03	0	10:57:00	88
6300	7837	56807.5	0.02	0	10:56:30	88
6300	7850	56803.2	0.03	0	10:56:07	88
6300	7862	56790.4	0.03	0	10:55:40	88
6300	7875	56803	0.03	0	10:55:16	88
6300	7887	56812.3	0.02	0	10:54:50	88
6300	7900	56816.8	0.03	0	10:54:08	88
6300	7912	56811.5	0.02	0	10:53:44	88
6300	7925	56816.4	0.02	0	10:53:10	88
6300	7937	56814.3	0.03	0	10:52:35	88
6300	7950	56820.2	0.02	0	10:52:05	88
6300	7962	56822.1	0.02	0	10:51:38	88
6300	7975	56837.6	0.02	0	10:51:10	88
6300	7987	56849.3	0.02	0	10:50:27	88
6300	8000	56838.7	0.03	0	10:37:26	88

Line 6400

Northing	Easting	Total field	Error	Drift	Time	User Code
6400	6500	52258.7	0.03	4255.3	8:54:46	88
6400	6512	52282.5	0.03	4255.4	8:55:33	88
6400	6525	52308.3	0.03	4255.4	8:56:05	88
6400	6537	52265.1	0.03	4255.1	8:56:27	88
6400	6550	52373.2	0.02	4255.2	8:56:51	88
6400	6562	52368.1	0.03	4255.2	8:57:14	88
6400	6575	52369.7	0.03	4255	8:57:43	88
6400	6587	52385.8	0.03	4255.1	8:58:22	88
6400	6600	52382.6	0.03	4254.7	8:58:55	88
6400	6612	52401.9	0.03	4255	8:59:32	88
6400	6625	52430.9	0.03	4255	9:00:06	88
6400	6637	52432.9	1.8	4254.9	9:00:33	33
6400	6650	52538.9	0.03	4254.8	9:01:35	88
6400	6662	52643.7	0.02	4254.9	9:02:05	88
6400	6675	52775.9	0.02	4255.3	9:02:39	88
6400	6687	52800.8	0.03	4255	9:03:12	88
6400	6700	52910.4	0.05	4255.1	9:03:42	87
6400	6712	53078.6	0.04	4255	9:04:17	88
6400	6725	53050.2	0.02	4254.8	9:04:47	88
6400	6737	53085.1	0.03	4254.9	9:05:26	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6400	6750	53051.5	0.03	4254.8	9:05:59	88
6400	6762	52726.2	0.03	4255	9:06:43	88
6400	6775	52512.4	0.02	4254.8	9:07:10	88
6400	6787	52500.5	0.02	4255	9:07:58	88
6400	6800	51924.9	0.02	4254.6	9:08:47	88
6400	6812	51603.3	0.05	4254.8	9:09:58	88
6400	6825	52473.5	0.02	4254.5	9:10:51	88
6400	6837	52415	0.02	4254	9:20:26	88
6400	6850	49779.2	0.55	4253.7	9:22:59	58
6400	6862	52448	0.94	4253.3	9:23:54	48
6400	6875	56856.2	1.5	4253	9:25:43	68
6400	6887	53615.7	0.07	4253.2	9:27:08	88
6400	6900	51195.1	0.14	4253.2	9:28:26	78
6400	6912	52510.2	0.06	4253.3	9:31:48	88
6400	6925	54557.6	0.17	4252.9	9:32:53	68
6400	6937	53506.6	0.04	4253	9:33:46	88
6400	6950	53094.7	0.02	4253	9:34:56	88
6400	6962	52583.1	0.03	4252.8	9:36:08	88
6400	6975	52754.4	0.03	4252.6	9:37:05	88
6400	6987	52700.5	0.03	4252.3	9:39:34	88
6400	7000	52612	0.03	4252.1	9:41:51	88
6400	7012	52603.4	0.02	4252.2	9:42:39	88
6400	7025	52600.1	0.02	4251.8	9:43:40	88

Line 6500

Northing	Easting	Total field	Error	Drift	Time	User Code
6500	6050	52331.4	0.03	4245.1	11:02:23	88
6500	6062	52347.7	0.04	4245	11:01:50	88
6500	6075	52269.8	0.03	4244.9	11:01:25	88
6500	6087	52226.1	0.03	4244.9	11:00:55	88
6500	6100	52225.9	0.03	4245	11:00:29	88
6500	6112	52223.1	0.03	4245.2	11:00:08	88
6500	6125	52190.4	0.03	4245	10:59:42	88
6500	6137	52214	0.04	4245	10:59:16	88
6500	6150	52226.7	0.03	4245.1	10:58:52	88
6500	6162	52204.4	0.03	4245.2	10:58:24	88
6500	6175	52214.6	0.03	4245.2	10:58:01	88
6500	6187	52206	0.03	4245	10:57:28	88
6500	6200	52231.7	0.03	4245.2	10:56:57	88
6500	6212	52287.3	0.03	4244.8	10:56:29	88
6500	6225	52300.6	0.03	4244.9	10:56:07	88
6500	6237	52322.6	0.03	4243.8	10:55:32	88
6500	6250	52354.9	0.03	4244.9	10:55:04	88
6500	6262	52444.4	0.03	4244.8	10:54:34	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6500	6275	52512.5	0.02	4245.4	10:41:29	88
6500	6287	52492.9	0.02	4245.2	10:40:23	88
6500	6300	52487	0.03	4245.2	10:39:39	88
6500	6312	52469.4	0.02	4245.2	10:39:11	88
6500	6325	52558.1	0.02	4244.9	10:38:39	88
6500	6337	52458.3	0.02	4245.1	10:38:16	88
6500	6350	52450.7	0.03	4245.4	10:37:51	88
6500	6362	52494.3	0.02	4245.5	10:37:19	88
6500	6375	52460.9	0.02	4245.6	10:36:55	88
6500	6387	52450.8	0.05	4245.5	10:36:25	78
6500	6400	52419.4	0.02	4245.5	10:36:00	88
6500	6412	52420.3	0.02	4245.4	10:35:30	88
6500	6425	52397.2	0.03	4245.1	10:35:07	88
6500	6437	52407.3	0.03	4245.8	10:34:35	88
6500	6450	52412	0.02	4245.7	10:34:06	88
6500	6462	52338.9	0.03	4245.7	10:33:33	88
6500	6475	52386.7	0.02	4246.1	10:33:04	88
6500	6487	52318.6	0.02	4246	10:32:27	88
6500	6500	52373.4	0.02	4246.1	10:31:53	88
6500	6512	52401.6	0.03	4246	10:31:23	88
6500	6525	52408.9	0.03	4246	10:30:53	88
6500	6537	52441.9	0.03	4246.2	10:30:14	88
6500	6550	52466.9	0.03	4246.1	10:29:35	88
6500	6562	52498.4	0.02	4246.1	10:29:02	88
6500	6575	52560.4	0.02	4246	10:28:35	88
6500	6587	52646.9	0.02	4246.4	10:27:48	88
6500	6600	52695.2	0.02	4246.2	10:27:17	88
6500	6612	52699	0.03	4246.3	10:26:40	88
6500	6625	52649.9	0.02	4246.5	10:26:09	88
6500	6637	52610.8	0.02	4246.4	10:25:15	88
6500	6650	52563.5	0.02	4246.3	10:24:33	88
6500	6662	52601.1	0.02	4246.5	10:23:44	88
6500	6675	52651.6	0.02	4246.6	10:23:15	88
6500	6687	52634.9	0.04	4246.8	10:22:31	88
6500	6700	52745	0.03	4246.8	10:21:42	88
6500	6712	53045.9	0.03	4246.8	10:20:56	88
6500	6725	52640.8	0.03	4246.8	10:20:23	88
6500	6737	52491.5	0.03	4246.7	10:19:23	88
6500	6750	52553.4	0.03	4247	10:18:35	88
6500	6762	52496.2	0.02	4247.3	10:17:47	88
6500	6775	52722.6	0.02	4247.4	10:16:58	88
6500	6787	52749.9	0.03	4247.3	10:16:09	88
6500	6800	52590.5	0.03	4247.5	10:15:12	88
6500	6812	52803.5	0.03	4248	10:13:43	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6500	6825	52663.7	0.03	4248.9	10:07:07	88
6500	6837	52612.5	0.03	4249.3	10:06:05	88
6500	6850	52565	0.03	4249.2	10:05:21	88
6500	6862	52591.3	0.02	4249.2	10:03:56	88
6500	6875	52599.6	0.02	4249.6	10:02:18	88
6500	6887	52523.9	0.89	4249.7	10:02:01	53

Line 6600

Northing	Easting	Total field	Error	Drift	Time	User Code
6600	6012	52716.6	0.1	4244.3	11:11:05	76
6600	6025	52623.5	0.03	4244.5	11:12:06	88
6600	6037	52544.6	0.03	4244.5	11:12:33	88
6600	6050	52505.5	0.02	4244.5	11:12:58	88
6600	6062	52497.7	0.02	4244.4	11:13:28	88
6600	6075	52478	0.02	4244.4	11:14:00	88
6600	6087	52483.5	0.03	4244.7	11:14:35	88
6600	6100	52480.5	0.02	4244.4	11:15:01	88
6600	6112	52397.9	0.03	4244.7	11:15:28	88
6600	6125	52438	0.03	4244.4	11:15:53	88
6600	6137	52456.1	0.02	4244.5	11:16:19	88
6600	6150	52423.9	0.02	4244.7	11:16:43	88
6600	6162	52418.1	0.02	4244.6	11:17:06	88
6600	6175	52396.2	0.03	4244.1	11:17:41	88
6600	6187	52397.9	0.03	4244.3	11:18:18	88
6600	6200	52410.9	0.03	4244.1	11:18:55	88
6600	6212	52412.8	0.03	4244.2	11:19:21	88
6600	6225	52459.5	0.02	4244.2	11:20:01	88
6600	6237	52404.7	0.02	4244.3	11:20:45	88
6600	6250	52382.7	0.02	4244.2	11:21:25	88
6600	6262	52363.6	0.03	4244.2	11:22:04	88
6600	6275	52459.6	0.02	4244	11:22:38	88
6600	6287	52381.6	0.02	4244.3	11:23:05	88
6600	6300	52438.8	0.03	4244.6	11:23:40	88
6600	6312	52549.5	0.03	4244.6	11:24:20	88
6600	6325	52544.9	0.03	4244.5	11:25:14	88
6600	6337	52406.3	0.02	4244.3	11:25:45	88
6600	6350	52413	0.03	4244.6	11:27:39	88
6600	6362	52412.3	0.03	4244.1	11:28:10	88
6600	6375	52397.9	0.03	4244.3	11:28:38	88
6600	6387	52411.2	0.02	4244.1	11:30:09	88
6600	6400	52433.5	0.02	4244	11:31:17	88
6600	6412	52485.1	0.03	4244	11:31:52	88
6600	6425	52462.7	0.02	4243.9	11:32:18	88
6600	6437	52445.8	0.03	4243.9	11:32:46	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6600	6450	52454.9	0.02	4244.1	11:33:16	88
6600	6462	52460.6	0.03	4244.4	11:33:49	88
6600	6475	52473.1	0.02	4244.2	11:34:13	88
6600	6487	52420.3	0.02	4244.5	11:35:15	88
6600	6500	52450	0.03	4244.5	11:35:51	88
6600	6512	52540.5	0.02	4244.7	11:36:34	88
6600	6525	52790.5	0.03	4244.7	11:37:03	88
6600	6537	52959.8	0.03	4244.7	11:37:31	88
6600	6550	52084.6	0.04	4245	11:38:06	88
6600	6562	52213.5	0.03	4244.8	11:38:44	88
6600	6575	52398.6	0.02	4245.2	11:39:23	88
6600	6587	53149.4	0.02	4245.3	11:39:58	88
6600	6600	52847.6	0.03	4245.3	11:40:41	88
6600	6612	52672.9	0.03	4245.3	11:51:53	88
6600	6625	52613.1	0.03	4245.2	11:52:38	88
6600	6637	52826.5	0.03	4244.9	11:53:33	88
6600	6650	52795.8	0.04	4244.7	11:54:22	88
6600	6662	52830.1	0.02	4245.1	11:55:21	88
6600	6675	53008	0.03	4244.6	11:56:03	88
6600	6687	52929.3	0.03	4245	11:56:49	88
6600	6700	53033.6	0.03	4244.7	11:57:22	88
6600	6712	52795.9	0.04	4244.9	11:57:51	88
6600	6725	52704.9	0.03	4244.5	11:58:44	88
6600	6737	52614.7	0.03	4244.6	11:59:21	88
6600	6750	52599.3	0.03	4244.8	12:00:11	88
6600	6762	52556.2	0.02	4244.5	12:02:07	88
6600	6775	52537.9	0.02	4243	12:03:00	88
6600	6787	52426.9	0.02	4244.9	12:04:02	88
6600	6800	52493.4	0.03	4244.8	12:05:24	88
6600	6812	51843.8	0.03	4244.9	12:07:04	88
6600	6825	51619.8	0.03	4244.7	12:07:56	88
6600	6837	51281.9	0.03	4244.8	12:10:48	88
6600	6850	55054.1	0.07	4244.3	12:12:07	88
6600	6862	56196.3	0.13	4244.7	12:13:11	88
6600	6875	56015.8	0.12	4244.4	12:14:29	78

Line 6700

Northing	Easting	Total field	Error	Drift	Time	User Code
6700	6000	52722.4	0.03	4246.6	13:30:51	88
6700	6012	52662.9	0.03	4246.7	13:30:21	88
6700	6025	52617.2	0.03	4246.6	13:29:45	88
6700	6037	52771.7	0.02	4246.8	13:29:09	88
6700	6050	52674.6	0.03	4246.6	13:28:43	88
6700	6062	52622.4	0.03	4246.5	13:28:18	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6700	6075	52620	0.02	4246.3	13:27:47	88
6700	6087	52612	0.02	4246.1	13:27:12	88
6700	6100	52590.4	0.03	4246.1	13:26:48	88
6700	6112	52586.9	0.03	4246.2	13:26:26	88
6700	6125	52466.1	0.02	4246.7	13:25:58	88
6700	6137	52497.8	0.02	4246.7	13:25:30	88
6700	6150	52414.8	0.02	4246.3	13:24:58	88
6700	6162	52575.7	0.03	4246.5	13:24:27	88
6700	6175	52544.2	0.02	4247	13:19:54	88
6700	6187	52421.4	0.02	4247	13:19:16	88
6700	6200	52448.5	0.02	4247.3	13:17:10	88
6700	6212	52441.1	0.03	4247.6	13:16:35	88
6700	6225	52476.3	0.02	4247.7	13:16:10	88
6700	6237	52476.6	0.03	4247.9	13:15:38	88
6700	6250	52556.1	0.02	4248.2	13:15:09	88
6700	6262	52480	0.03	4248.1	13:14:39	88
6700	6275	52501.9	0.02	4248.3	13:14:17	88
6700	6287	52434.4	0.03	4248.2	13:13:38	88
6700	6300	52439	0.03	4248.4	13:13:11	88
6700	6312	52452.8	0.02	4248.5	13:12:42	88
6700	6325	52620.5	0.03	4248.4	13:12:17	88
6700	6337	52729	0.02	4248.6	13:11:45	88
6700	6350	52902.2	0.03	4248.4	13:11:15	88
6700	6362	52787.9	0.02	4248.7	13:10:37	88
6700	6375	52634.9	0.03	4248.8	13:10:08	88
6700	6387	52342.9	0.03	4248.5	13:09:42	88
6700	6400	52370.9	0.03	4248.6	13:09:16	88
6700	6412	52385.6	0.03	4248.4	13:08:46	88
6700	6425	52276.3	0.03	4248.4	13:08:20	88
6700	6437	52543.5	0.02	4247.8	13:07:21	88
6700	6450	52625.7	0.03	4247.6	13:06:47	88
6700	6462	52592.2	0.02	4247.5	13:06:25	88
6700	6475	52591.6	0.03	4247.3	13:05:51	88
6700	6487	52634.2	0.03	4247.3	13:05:10	88
6700	6500	52762.1	0.03	4247.1	13:04:39	88
6700	6512	52967.3	0.03	4247.1	13:04:08	88
6700	6525	53576.1	0.13	4247.4	13:03:30	88
6700	6537	52843.6	0.04	4247	13:02:44	88
6700	6550	52463	0.02	4247	13:02:14	88
6700	6562	52460.6	0.02	4247.5	13:01:40	88
6700	6575	52428.3	0.03	4247.2	13:00:49	88
6700	6587	52378.4	0.03	4247.3	13:00:14	88
6700	6600	52355.2	0.02	4247.2	12:59:37	88
6700	6612	52516	0.03	4247.3	12:58:47	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6700	6625	52868.8	0.03	4247.3	12:58:18	88
6700	6637	52933.1	0.03	4247.3	12:57:48	88
6700	6650	52796.1	0.03	4247.4	12:57:21	88
6700	6662	52458.7	0.04	4247.3	12:56:54	88
6700	6675	53087.4	0.04	4246.9	12:56:23	88
6700	6687	53096.3	0.03	4247.4	12:55:49	88
6700	6700	52908.6	0.03	4247.3	12:55:18	88
6700	6712	52758.3	0.03	4247.6	12:54:42	88
6700	6725	52655.3	0.02	4247.2	12:54:13	88
6700	6737	52646.5	0.03	4247.6	12:53:37	88
6700	6750	52778.7	0.02	4247.5	12:53:02	88
6700	6762	52614	0.03	4247.4	12:52:20	88
6700	6775	52635.6	0.02	4247.2	12:51:42	88
6700	6787	52550.7	0.02	4247.2	12:51:08	88
6700	6800	52633.6	0.02	4247.2	12:50:22	88
6700	6812	52592.6	0.03	4246.9	12:49:30	88
6700	6825	52518.6	0.02	4246.9	12:47:03	88
6700	6837	52519.2	0.03	4246.7	12:46:40	88
6700	6850	52520.4	0.03	4246.5	12:43:42	88
6700	6850	52519.3	0.03	4246.7	12:46:31	88
6700	6862	52520.3	0.02	4246.2	12:45:13	88

Line 6800

Northing	Easting	Total field	Error	Drift	Time	User Code
6800	6000	52749.8	0.03	4248.6	8:41:27	88
6800	6012	52754.2	0.03	4247.9	8:49:12	88
6800	6025	52669.4	0.03	4248.1	8:50:00	88
6800	6037	52686.3	0.02	4248	8:50:19	88
6800	6050	52637.6	0.02	4247.9	8:50:39	88
6800	6062	52580.8	0.03	4247.8	8:51:08	88
6800	6075	52593	0.02	4247.9	8:51:29	88
6800	6087	52526.7	0.03	4248.3	8:52:01	88
6800	6100	52462.5	0.02	4247.9	8:52:45	88
6800	6112	52418.9	0.02	4247.5	8:53:10	88
6800	6125	52486.3	0.02	4247	8:53:45	88
6800	6137	52460.5	0.04	4246.8	8:54:16	88
6800	6150	52464.4	0.02	4247.2	8:54:54	88
6800	6162	52650.5	0.1	4247.3	8:55:14	78
6800	6175	52411.9	0.02	4247.1	8:55:41	88
6800	6187	52404.6	0.03	4246.9	8:56:22	88
6800	6200	52500.1	0.02	4246.7	8:56:59	88
6800	6212	52576.1	0.03	4246.9	8:57:41	88
6800	6225	52615.7	0.02	4246.7	8:58:11	88
6800	6237	52622.7	0.03	4246.7	8:58:43	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6800	6250	52634.2	0.03	4247	8:59:12	88
6800	6262	52603.5	0.02	4246.7	8:59:38	88
6800	6275	52600.6	0.03	4246.5	9:00:00	88
6800	6287	52604.9	0.03	4246.1	9:00:24	88
6800	6300	52648.1	0.02	4246.4	9:00:55	88
6800	6312	52614.2	0.03	4246.5	9:01:24	88
6800	6325	52579.2	0.08	4246.6	9:02:14	88
6800	6337	52447.3	0.03	4246.4	9:02:39	88
6800	6350	52441.3	0.02	4246.5	9:03:01	88
6800	6362	52399	0.03	4246.4	9:03:39	88
6800	6375	52415.2	0.02	4246.4	9:04:05	88
6800	6387	52413.2	0.02	4246.3	9:04:32	88
6800	6400	52424.1	0.03	4246	9:05:01	88
6800	6412	52445.1	0.02	4246.1	9:05:37	88
6800	6425	52484.4	0.03	4246.3	9:06:04	88
6800	6437	52495.2	0.02	4246.2	9:06:31	88
6800	6450	52500.8	0.02	4246.1	9:07:07	88
6800	6462	52474.2	0.02	4245.8	9:07:42	88
6800	6475	52445	0.03	4245.8	9:08:23	88
6800	6487	52442.2	0.02	4245.6	9:09:06	88
6800	6500	52560.5	0.03	4246	9:09:39	88
6800	6512	52528	0.03	4245.6	9:10:15	88
6800	6525	52520.9	0.02	4245.3	9:10:40	88
6800	6537	52550.1	0.02	4245.3	9:11:20	88
6800	6550	52593.2	0.02	4245.2	9:11:47	88
6800	6562	52673.1	0.02	4245	9:12:30	88
6800	6575	54495	0.1	4244.6	9:13:15	88
6800	6587	53075.5	0.04	4244.5	9:14:20	88
6800	6600	52665.4	0.03	4244.7	9:14:50	88
6800	6612	52471.4	0.02	4244.6	9:15:22	88
6800	6625	52476.3	0.02	4244.8	9:16:10	88
6800	6637	52483.3	0.03	4245	9:16:45	88
6800	6650	52474.9	0.02	4244.7	9:17:21	88
6800	6662	52470.4	0.02	4244.5	9:17:55	88
6800	6675	52460.1	0.03	4245	9:18:37	88
6800	6687	52482.5	0.02	4245.1	9:19:25	88
6800	6700	52486.2	0.03	4244.9	9:20:15	88
6800	6712	52530.7	0.02	4245	9:33:06	88
6800	6725	52536.4	0.03	4243.7	9:33:50	88
6800	6737	52641.4	0.03	4244.7	9:34:30	88
6800	6750	52565.1	0.02	4244.8	9:35:18	88
6800	6762	52529.3	0.03	4245.4	9:36:16	88
6800	6775	52489.7	0.02	4245.2	9:37:14	88
6800	6787	52550.8	0.02	4246.6	9:39:16	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6800	6800	52747.4	0.03	4246.8	9:40:38	88
6800	6812	52490.9	0.03	4246.4	9:42:09	88
6800	6825	52499.5	0.02	4246.4	9:43:59	88
6800	6837	52600.2	0.02	4245.9	9:45:55	88
6800	6850	52642.5	0.02	4245.5	9:48:07	88
6800	6862	52576.1	0.02	4245.1	9:49:59	88
6800	6875	52576.3	0.03	4244.8	9:51:22	88

Line 6900

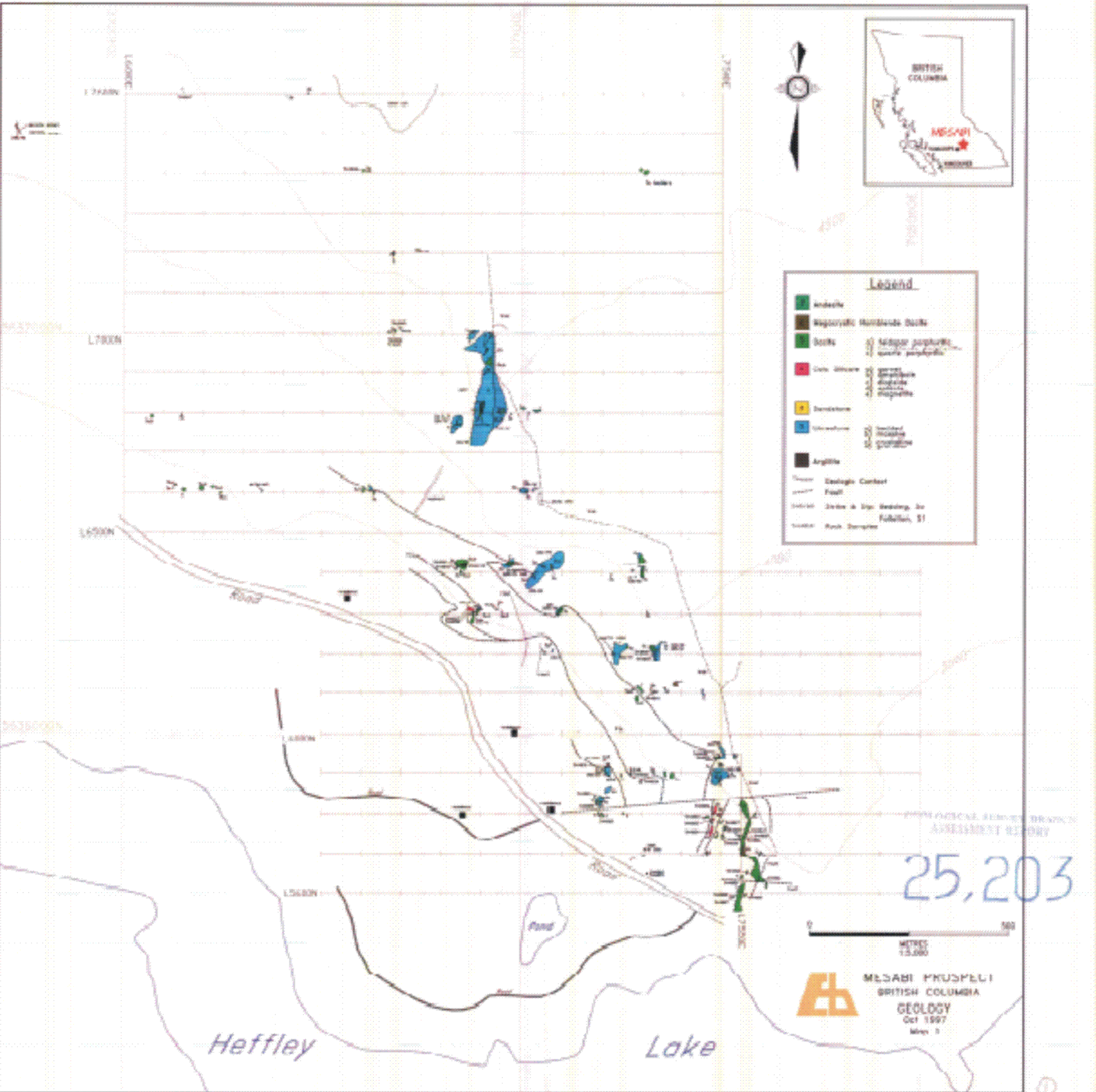
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6900	6012	52796.4	0.03	4242.4	10:48:31	88
6900	6025	52739.2	0.02	4242.1	10:48:08	88
6900	6037	52615.4	0.02	4242.2	10:47:40	88
6900	6050	52635.7	0.03	4242.5	10:47:15	88
6900	6062	52619.6	0.02	4242.6	10:46:45	88
6900	6075	52580.1	0.03	4242.6	10:46:19	88
6900	6087	52558.6	0.02	4242.5	10:45:55	88
6900	6100	52549	0.02	4242.5	10:45:32	88
6900	6112	52544.9	0.03	4242.5	10:45:09	88
6900	6125	52500.4	0.03	4242.5	10:44:51	88
6900	6137	52478.9	0.02	4242.5	10:44:30	88
6900	6150	52453.8	0.02	4242.7	10:44:11	88
6900	6162	52458.5	0.02	4242.5	10:43:49	88
6900	6175	52472.8	0.03	4242.2	10:43:31	88
6900	6187	52476.1	0.02	4242.4	10:43:08	88
6900	6200	52479.9	0.02	4242.3	10:42:48	88
6900	6212	52481	0.02	4242.3	10:42:23	88
6900	6225	52472.1	0.02	4242.5	10:42:04	88
6900	6237	52471.7	0.02	4242.7	10:41:48	88
6900	6250	52470.6	0.03	4242.8	10:41:25	88
6900	6262	52455.8	0.02	4242.1	10:41:02	88
6900	6275	52447.6	0.03	4242.3	10:40:38	88
6900	6287	52449.9	0.02	4242.5	10:40:13	88
6900	6300	52461	0.03	4242.4	10:39:46	88
6900	6312	52455.9	0.03	4242	10:39:16	88
6900	6325	52438	0.03	4241.9	10:38:53	88
6900	6337	52468.2	0.02	4242.4	10:38:19	88
6900	6350	52496	0.03	4242.4	10:37:48	88
6900	6362	52500.1	0.02	4242.1	10:37:16	88
6900	6375	52498.1	0.02	4242.1	10:36:44	88
6900	6387	52519.6	0.02	4242	10:36:17	88
6900	6400	52517.9	0.03	4242.2	10:35:47	88
6900	6412	52515.8	0.02	4242.5	10:35:11	88

Northing	Easting	Total field	Error	Drift	Time	User Code
6900	6425	52538.6	0.02	4242	10:34:21	88
6900	6437	52576.2	0.03	4242	10:33:16	88
6900	6450	52580.8	0.03	4242.4	10:32:23	88
6900	6462	52611.8	0.03	4242.6	10:31:51	88
6900	6475	52604.9	0.03	4242.4	10:31:18	88
6900	6487	52585.2	0.02	4242.5	10:30:39	88
6900	6500	52586.7	0.03	4242.5	10:30:17	88
6900	6512	52580.5	0.03	4242.3	10:29:42	88
6900	6525	52556.9	0.02	4242.6	10:29:14	88
6900	6537	52519.8	0.02	4242.5	10:28:34	88
6900	6550	52520.8	0.02	4242.2	10:27:55	88
6900	6562	52523.7	0.02	4242.6	10:27:12	88
6900	6575	52548.9	0.02	4242.2	10:26:21	88
6900	6587	52580.6	0.03	4242.5	10:25:46	88
6900	6600	52582.7	0.02	4242.1	10:25:13	88
6900	6612	52592.1	0.03	4241.7	10:24:39	88
6900	6625	52566.6	0.02	4242.2	10:24:10	88
6900	6637	52560.2	0.03	4242.3	10:23:38	88
6900	6650	52579.7	0.03	4242.5	10:23:05	88
6900	6662	52665.2	0.04	4242.3	10:22:21	88
6900	6675	52909.9	0.03	4242.5	10:21:24	88
6900	6687	52538.3	0.02	4243.3	10:20:38	88
6900	6700	52466.8	0.03	4243.3	10:20:00	88
6900	6712	52548.5	0.02	4243.4	10:19:06	88
6900	6725	52583.7	0.02	4243.2	10:18:38	88
6900	6737	52508.7	0.02	4243.6	10:18:10	88
6900	6750	52459.1	0.02	4243.7	10:17:44	88
6900	6762	52437.1	0.03	4244	10:17:09	88
6900	6775	52500.7	0.02	4244.6	10:10:19	88
6900	6787	52606.5	0.02	4244.4	10:09:18	88
6900	6800	52412.2	0.02	4245	10:08:30	88
6900	6812	52692.5	0.02	4244.7	10:07:19	88
6900	6825	52578.8	0.03	4244.8	10:06:41	88
6900	6837	52367.1	0.02	4244.5	10:05:47	88
6900	6850	52518.8	0.04	4244.5	10:05:16	88
6900	6862	52921.9	0.14	4244.5	10:04:24	68
6900	6875	52645.9	0.04	4244.7	10:03:43	88
6900	6887	52413.6	0.06	4244.7	10:03:24	88
6900	6900	51867.3	0.47	4244.7	10:02:32	58

Line 7000

Northing	Easting	Total field	Error	Drift	Time	User Code
7000	6000	52678	0.03	4242.6	10:59:40	88
7000	6012	52731.3	0.03	4243.7	11:08:48	88

Northing	Easting	Total field	Error	Drift	Time	User Code
7000	6025	52688.4	0.02	4243.7	11:09:22	88
7000	6037	52640	0.02	4243.6	11:10:03	88
7000	6050	52628.9	0.02	4242.9	11:10:37	88
7000	6062	52624.9	0.03	4243	11:11:18	88
7000	6075	52593.8	0.02	4242.7	11:11:45	88
7000	6087	52521.2	0.02	4242.6	11:12:25	88
7000	6100	52513	0.02	4242.7	11:12:53	88
7000	6112	52497	0.03	4242.8	11:13:14	88
7000	6125	52480.3	0.02	4243.1	11:13:43	88
7000	6137	52476.3	0.02	4243	11:14:06	88
7000	6150	52500.1	0.03	4242.8	11:14:36	88
7000	6162	52483.5	0.02	4243	11:15:03	88
7000	6175	52488	0.02	4243	11:15:25	88
7000	6187	52481.8	0.03	4242.9	11:15:54	88
7000	6200	52478.5	0.03	4242.9	11:16:25	88
7000	6212	52492.7	0.02	4242.5	11:16:53	88
7000	6225	52473.9	0.02	4242.6	11:17:25	88
7000	6237	52462.2	0.02	4242.9	11:18:08	88
7000	6250	52469.9	0.02	4242.7	11:18:42	88
7000	6262	52472.9	0.02	4243.1	11:19:12	88
7000	6275	52453.8	0.02	4243.7	11:19:59	88
7000	6287	52459.9	0.03	4244.2	11:20:40	88
7000	6300	52464.7	0.03	4244.6	11:21:20	88
7000	6312	52464.2	0.02	4245.1	11:22:02	88
7000	6325	52494.3	0.02	4245	11:23:00	88
7000	6337	52508.1	0.02	4244.1	11:23:44	88
7000	6350	52491.8	0.03	4244.7	11:24:31	88
7000	6362	52471.4	0.02	4243.8	11:25:23	88
7000	6375	51783.6	67	4244.1	11:26:29	22
7000	6387	52514.6	0.44	4243.8	11:27:08	63
7000	6400	52524.2	0.02	4243.8	11:27:47	88
7000	6412	52517.2	0.02	4243.9	11:28:14	88
7000	6425	52559.5	0.03	4243.8	11:28:44	88
7000	6437	52522.8	0.03	4243.4	11:29:36	88
7000	6450	52395.6	0.04	4243	11:31:34	88
7000	6462	52873.5	0.04	4243.1	11:32:45	88
7000	6475	52907.9	0.03	4243	11:33:37	88
7000	6487	52742.6	0.03	4242.9	11:35:01	88
7000	6500	52630.4	0.03	4243.1	11:36:22	88
7000	6512	50927.5	55	4243.1	11:39:45	22
7000	6525	50980.4	69	4243.3	11:40:45	22



Legend

	Amphibolite		Fault Zone
	Metagraywacke/Mudstone		Fault
	Gneiss		Major structural zone
	Gabbro		Major structural zone
	Basaltic andesite		Major structural zone
	Andesite		Major structural zone
	Angite		Major structural zone
	Geological Contact		
	Power		
	Stream		
	Road		

PHOTOLOGICAL RECORD, DRAGON'S
 ASSESSMENT REPORT

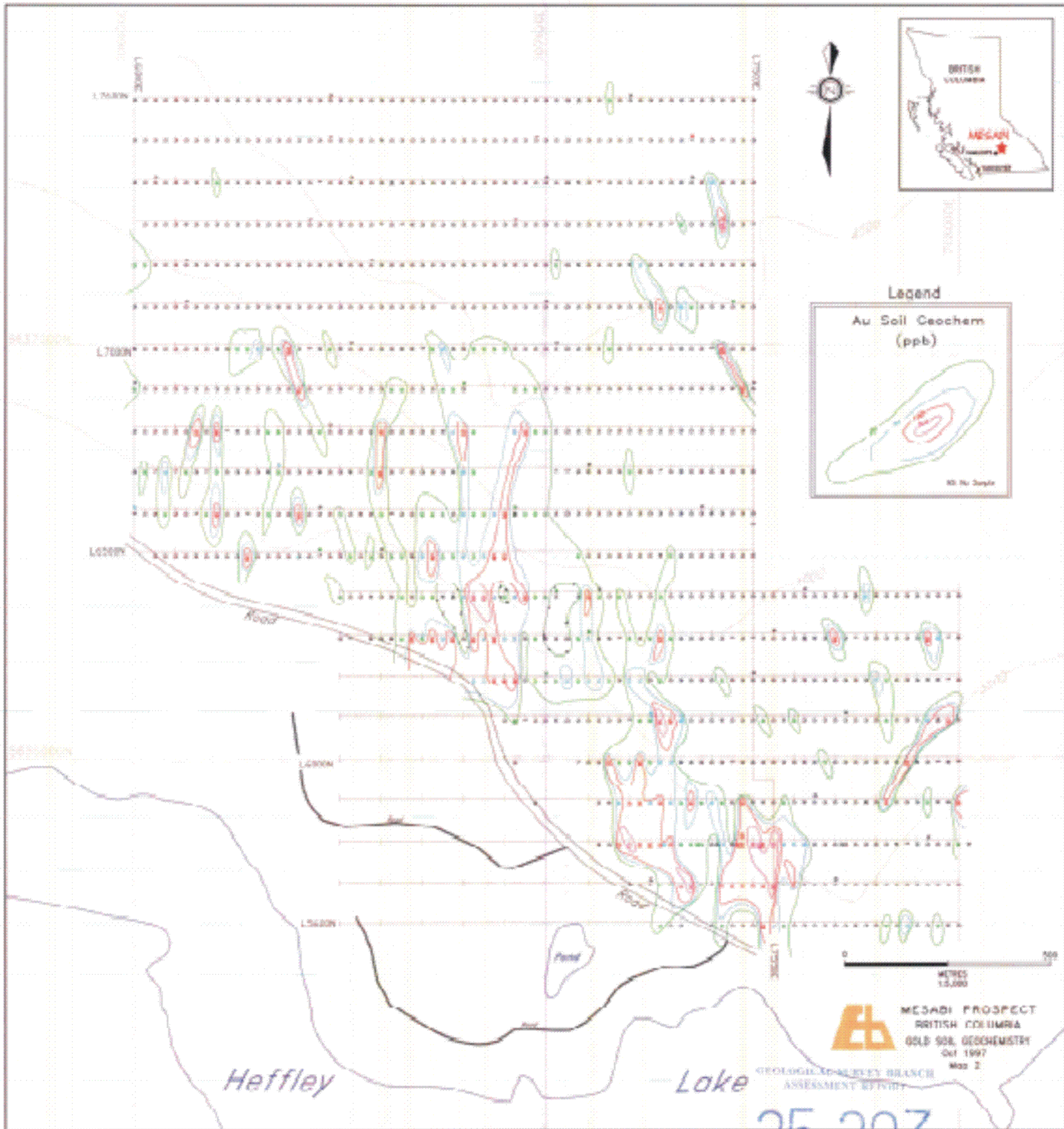
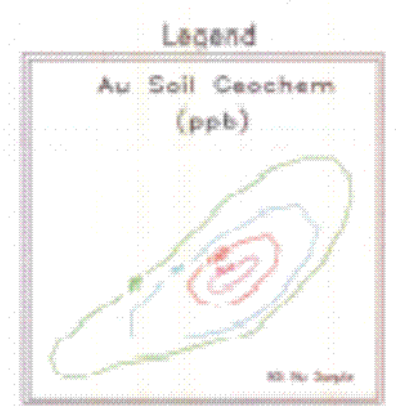
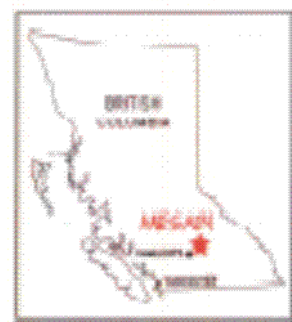
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MELCABI PROSPELTI
 BRITISH COLUMBIA
 GEOLOGY
 Oct 1997
 Map 1

Hefley

Lake



MESABI PROSPECT
BRITISH COLUMBIA
GOLD SSB, GEOCHEMISTRY
Oct 1997
Mod 2

GEOLOGICAL SURVEY BRANCH
ASSESSMENT & STUDY

Heffley

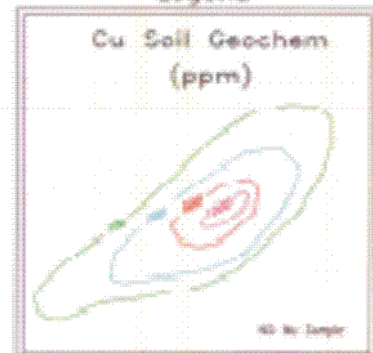
Lake

25,203



Legend

Cu Soil Geochem
(ppm)

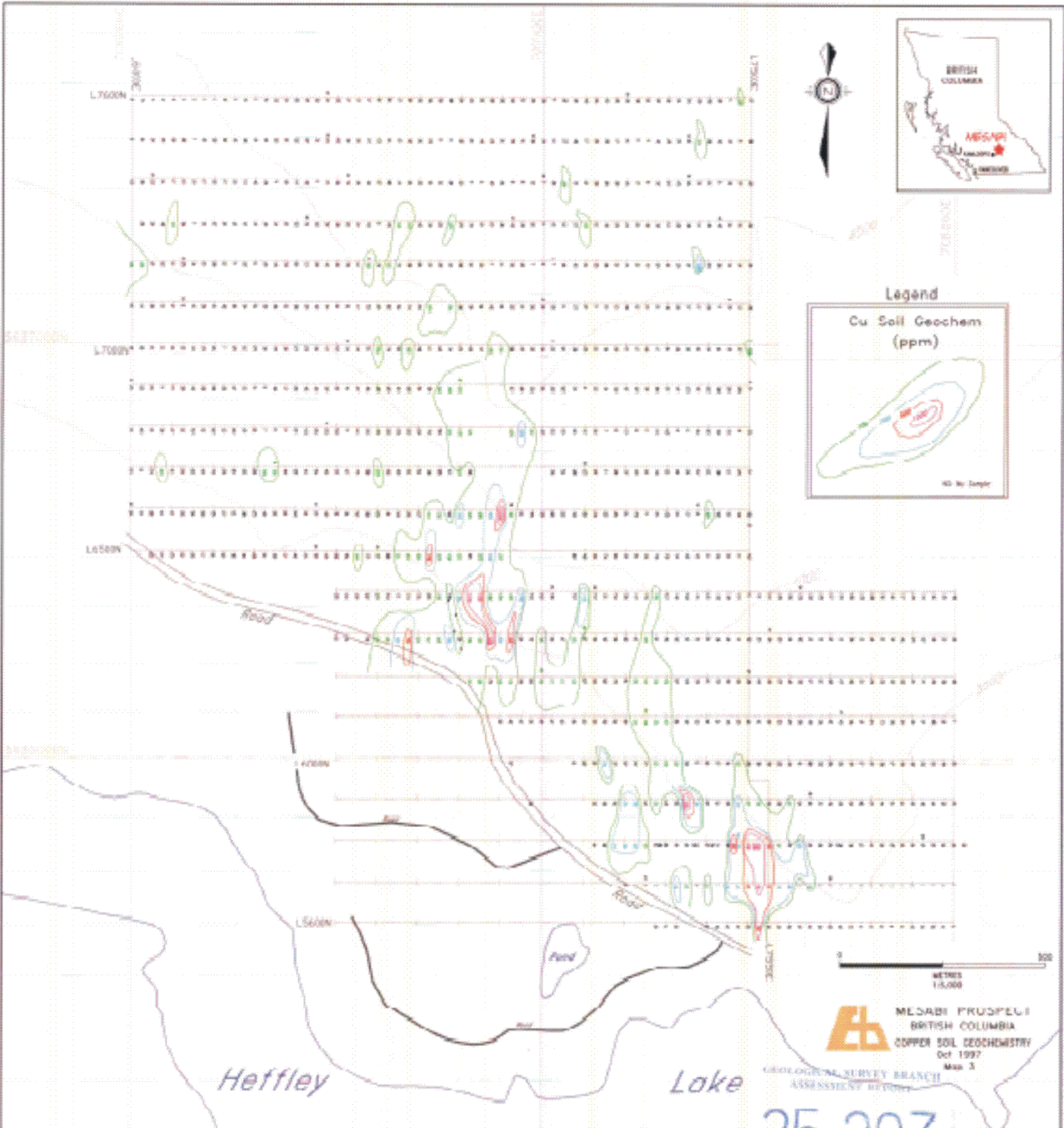


NO. No. Sample



MESABI PROSPECT
BRITISH COLUMBIA
COPPER SOIL GEOCHEMISTRY
Oct 1997
Map 3

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

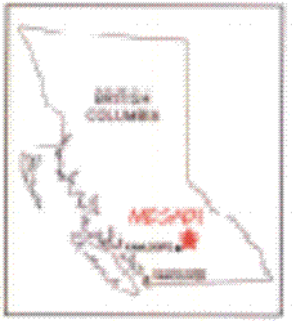


25,203

6700N
6800N
6900N

120W
119W
118W

6700E
6800E
6900E



Legend



6900N

Road

6800N

6700N

Lake



MESABI PROSPECT
BRITISH COLUMBIA
TOTAL FIELD MAGNETICS
Oct 1997
Map 4

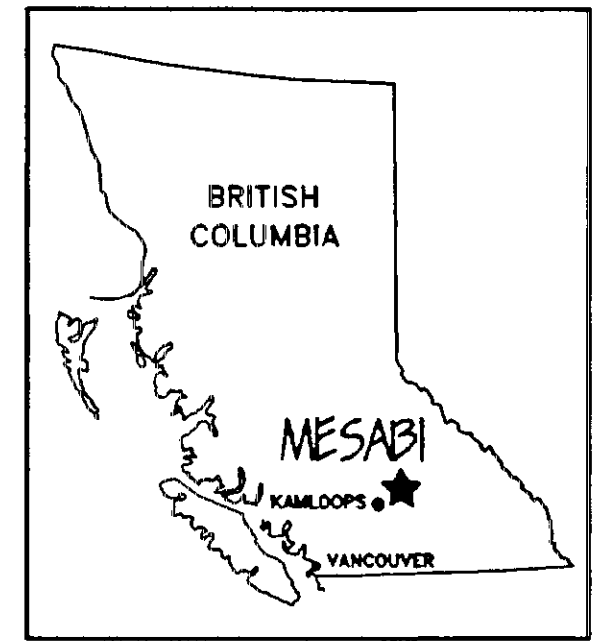
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

Heffley

Lake

25,203





Legend

■ 4993 Soil Sample Number
 ■ 544841 Rock Sample Number



MESABI PROSPECT
 BRITISH COLUMBIA
 SAMPLE LOCATIONS
 Oct 1997
 Map 5

GEOLOGICAL SURVEY BRANCH
 TECHNICAL REPORT

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5



544849

544841

544841