

Ministry of Energy and Mines
BC Geological Survey

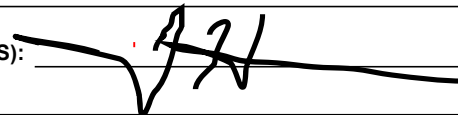
Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical, Prospecting

TOTAL COST: \$ 6,200.21

AUTHOR(S): Jacques Houle, P.Eng.

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

YEAR OF WORK: 2013

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 547914 / 2013/DEC/04

PROPERTY NAME: Mt. Sicker

CLAIM NAME(S) (on which the work was done): 513390, 516629, 533072

COMMODITIES SOUGHT: Copper, Lead, Zinc, Silver, Gold

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092B001,-002,-003,-004,-028,-040,-041,-086,-087,-088,-089

MINING DIVISION: Victoria

NTS/BCGS: 092B081, 092B082

LATITUDE: 48 ° 52 '25 " LONGITUDE: 123 ° 48 '22 " (at centre of work)

OWNER(S):

1) Connie McCombs

2) Conarry Ventures Inc.

MAILING ADDRESS:

3061A Matthew Road

Nanoose Bay, BC V6P 9B2

OPERATOR(S) [who paid for the work]:

1) Conarry Ventures Inc.

2)

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

chert, siliclastics, volcanoclastics, calc-alkaline volcanics, gabbro, diorite, mississippian, permian, devonian, triassic, volcanogenic

massive sulphides, quartz-sulphide veins

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: refer to Table 3 in technical report

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock 25 samples		513390, 516629, 533072	\$ 960.75
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying 25 samples field time & truck rental		513390, 516629, 533072	\$ 3,550.00
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area) 1:5,000 , 500 hectares		513390, 516629, 533072	included in sampling
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other Technical Report & Sample Shipment			\$ 1,689.46
TOTAL COST:			\$ 6,200.21

**Assessment Report for
Prospecting and Geochemistry
September-November, 2013**

On the

Mt. Sicker Property

Victoria Mining Division, British Columbia, Canada

BCGS Map Sheets 092B081,-082

UTM Zone 10N 441500E, 5413000N

For

Conarry Ventures Inc.

3061A Matthew Road

Nanoose Bay, B.C. V6P 9B2

By

Jacques Houle, P.Eng.

6552 Peregrine Road

Nanaimo, B.C. V9V 1P8

January 22, 2014

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**Sample Data - 2010-2013 Rock Sample Locations, Descriptions,
Geochemistry and Geochemistry Highlights Appendix 1**

Geochemistry Data - 2013 AGAT Labs Analytical Certificate Appendix 2

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BC MINFILE Occurrences on or Near Mt. Sicker Property Appendix 4

BC Mineral Deposit Profiles for MINFILE occurrences Appendix 5

Introduction

Property location, access and physiography

The Mt. Sicker Property consists of twelve contiguous cell mineral claims located ___ km. northwest of city of Duncan and straddling the Cowichan River, near the southeast coast of Vancouver Island. The property is located in the Victoria Mining Division, and is centred at NAD 83 UTM Zone 10N 441500E, 5413000N on BCGS map sheets 092B081 & 092B082.

The eastern portion of the Mt. Sicker Property is accessed from the Trans-Canada Highway 1 west along Mt. Sicker Road and various old mining roads and newer logging roads along the east side of the Chemainus River. The western portion of the Property is accessed from Highway 1 west along Copper Canyon Main along the west side of the Chemainus River.

The topography of the Mt. Sicker Property consists of rounded mountains incised by moderately steep canyons, with elevations ranging from less than 100 metres to just over 1000 metres. The climate is mild and wet during the fall to spring period, and warm and dry in the summer, with snow accumulations of several metres generally persisting through the winter at elevations above 500 metres.

Property definitions, owner, operator, geology and history

The cell mineral claims which constitute the Mt. Sicker Property, with details and status as of the date of this report, are listed in Table 1 below:

Table 1 – Cell Mineral Claims and Status as of May 20, 2011

Tenure Number	Claim Name	Owner	Map Number	Issue Date	Good To Date	Status	Area (ha)
Mt. Sicker Property							
501465	L109	131341 (100%)	092B	2005/jan/12	2015/jan/22	GOOD	21.241
501774	L108	131341 (100%)	092B	2005/jan/12	2015/jan/22	GOOD	21.239
510156	055A055D	131341 (100%)	092B	2005/apr/04	2015/jan/22	GOOD	42.48
513291		131341 (100%)	092B	2005/may/25	2015/jan/22	GOOD	84.988
513390		131341 (100%)	092B	2005/may/26	2015/jan/22	GOOD	84.96
516629		131341 (100%)	092B	2005/jul/10	2015/jan/22	GOOD	382.371
516963		131341 (100%)	092B	2005/jul/11	2015/jan/22	GOOD	42.487
516972		131341 (100%)	092B	2005/jul/11	2015/jan/22	GOOD	42.494
516976		131341 (100%)	092B	2005/jul/11	2015/jan/22	GOOD	21.244
516980		131341 (100%)	092B	2005/jul/11	2015/jan/22	GOOD	84.951
517577	LENORATYEE	131341 (100%)	092B	2005/jul/12	2015/jan/22	GOOD	42.496
533072	HOLYOAK	131341 (100%)	092B	2006/apr/26	2015/jan/22	GOOD	127.422
Totals							998.373

The owner of the Mt. Sicker Property is Connie McCombs, and the operator is Connary Ventures Inc., through an agreement with Ms. McCombs. See Figures 1, 2 & 3 for the Property mineral tenure map at 1:50,000 scale, the mineral tenure & crown grant map at 1:10,000 scale, and the infrastructure map at 1:20,000 scale, respectively.

See Figure 4 for the BCGS 2005 Map Place Geology at 1:20,000 scale which shows the geology of the Mt. Sicker Property to be underlain by rock types with map unit colours, nomenclature, lithologies, and structural/stratigraphic relationships as follows:



uKN – Upper Cretaceous Nanaimo Group – undifferentiated sedimentary rocks

- **Erosional Unconformity, locally Fault Contact** -



LTrMH – Late Triassic Mount Hall – gabbroic to dioritic intrusive rocks

- **Intrusive, locally Fault Contact** -



MPnBFch – Mississippian to Permian Buttle Lake Group - Fourth Lake Formation – chert, siliceous argillite, siliclastic rocks

- **Conformity, locally Fault Contact** -



uDSiM – Middle to Upper Devonian Sicker Group – McLaughlin Ridge Formation – volcanoclastic rocks

- **Conformable Contact** -



uDSIN – Middle to Upper Devonian Sicker Group – Nitinat Formation – calc-alkaline volcanic rocks (Meade Property only)

The main host rocks for volcanogenic massive sulphide mineralization on Vancouver Island are those of the Mississippian to Devonian age Buttle Lake and Sicker Groups. In the area of the South Group Properties, the McLaughlin Ridge Formation of the Devonian Sicker Group is the main host of volcanogenic massive sulphide (VMS) mineralization; and quartz-sulphide mineralization can also be hosted in the Late Triassic Mount Hall gabbroic to dioritic rocks. The detailed reports for all BC MINFILE occurrences situated on or near the Mt. Sicker Property are listed in Table 2; the BC ARIS reports from historic work in the immediate area of the Mt. Sicker Property are listed in Table 3; and the appropriate BC Mineral Deposit Profile (G-06 Noranda-Kuroko VMS) for the mineral occurrences on the Mt. Sicker Property appears in Appendix 5. It should be noted that much of the historical data for the Mt. Sicker Property was done on crown granted mineral claims and/or predates the ARIS system and is therefore not well documented, but much data is available online in the BC Minister of Mines Reports, and in the BC Property File data.

Table 2 – BC MINFILE Occurrences situated on or near the Mt. Sicker Property

MINFILE Number	MINFILE Name	Status	Mineral Deposit Type	Commodities	Stratigraphic Age and Host Rock	Property
092B 001	Lenora	Past Producer	G06 – Noranda-Kuroko VMS	Cu, Au, Ag, Pb, Zn, Cd, Barite	Devonian McLaughlin Ridge - volcanics	Mt. Sicker
092B 002	Tyee	Past Producer	G06 – Noranda-Kuroko VMS	Cu, Au, Ag, Pb, Zn, Cd, Barite	Devonian McLaughlin Ridge - volcanics	Mt. Sicker
092B 003	Richard III	Past Producer	G06 – Noranda-Kuroko VMS	Cu, Au, Ag, Pb, Zn, Cd, Barite	Devonian McLaughlin Ridge - volcanics	Mt. Sicker
092B 004	Victoria	Past Producer	G06 – Noranda-Kuroko VMS	Cu, Au, Ag	Devonian McLaughlin Ridge – volcanics	Mt. Sicker
092B 028	Rose	Showing	Metamorphic	Mica, Sericite	Devonian McLaughlin Ridge – sediments	Mt. Sicker
092B 040	Sharon Copper	Prospect	G06 – Noranda-Kuroko VMS	Cu	Devonian McLaughlin Ridge – volcanics	Mt. Sicker
092B 041	Water Power-Mildred	Showing	G06 – Noranda-Kuroko VMS	Cu, Ag	Devonian McLaughlin Ridge – volcanics	Mt. Sicker
092B 086	Copper Canyon	Showing	none stated	Cu	Devonian McLaughlin Ridge – volcanics	Mt. Sicker
092B 087	Key City	Prospect	none stated	Cu	Devonian McLaughlin Ridge – volcanics	Mt. Sicker
092B 088	Queen Bee	Showing	G06 – Noranda-Kuroko VMS	Cu, Zn, Au	Devonian McLaughlin Ridge – volcanics	Mt. Sicker
092B 089	Belle	Showing	G06 – Noranda-Kuroko VMS	Cu	Devonian McLaughlin Ridge – volcanics	Mt. Sicker

Table 3 – ARIS Reports publicly available as of January 24, 2014

Report Number	Year	Author	Owner/Operator	Work Program / MINFILE Number	Property
00936	1967	Tikkanen, G.D.	Cominco Ltd.	Geophysical (ground) / 092B040, 092B041, 092B041	Mt. Sicker
01104	1967	Sheppard, E.P., Basco, D.M.	Mt. Sicker Mines Ltd.	Geological / 092B001, 092B002, 092B003, 092B004, 092B087	Mt. Sicker
01714	1968	Sheppard, E.P.	Mt. Sicker Mines Ltd.	Geophysical (ground) / 092B001, 092B002, 092B003, 092B004, 092B087	Mt. Sicker

03099	1971	Whittles, A.B.L., Loring, F.C.	Kinneard, G., Whittles, A.B.L., Loring, F.C.	Geophysical (ground), Geochemical / 092B004, 092B086	Mt. Sicker
03741	1972	Not specified	Mt. Sicker Mines Ltd.	Linecutting /no MINFILE	Mt. Sicker
03950	1972	Watson, I.M.	Mt. Sicker Mines Ltd. / Ducanex Resources Ltd.	Geological / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089	Mt. Sicker
03951	1972	Walcott, P.E.	Mt. Sicker Mines Ltd. / Ducanex Resources Ltd.	Geophysical (ground) / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089	Mt. Sicker
04626	1973	Whittles, A.B.L.	Kinneard, G., Whittles, A.B.L., Loring, F.C.	Geophysical (ground), Geological, Geochemical / 092B004, 092B086	Mt. Sicker
05164	1974	Carter, J.S.	Dresser Minerals Division	Diamond Drilling (4 holes totalling 830 m.) / 092B001, 092B002, 092B003	Mt. Sicker
06216	1976?	Deighton, J.R.	Deighton, J.R.	Geological / 092B028, 092B040, 092B041	Mt. Sicker
06518	1977	Deighton, J.R.	Deighton, J.R.	Geological / 092B028, 092B040, 092B041	Mt. Sicker
06548	1977	Somerville, R.	Imperial Oil Ltd.	Geochemical, Geophysical (ground) / 092B028, 092B040, 092B041	Mt. Sicker
06599	1977	Deighton, J.R.	Deighton, J.R.	Geochemistry / 092B086	Mt. Sicker
06600	1977	Deighton, J.R.	Deighton, J.R.	Geological / 092B004, 092B086	Mt. Sicker
06699	1978	Deighton, J.R., Vyselaar, J.	Deighton, J.R., Utah Mines Ltd.	Geological, Geophysical (ground) / 092B028, 092B041	Mt. Sicker
06972	1978	Whittles, A.B.L.	Loring, F.C.	Geophysical (ground), Geological / 092B004, 092B086	Mt. Sicker
07183	1979	Pauwels, A.	Union Miniere Explorations and Mining Corp. Ltd.	Geophysical (ground) / 092B004, 092B086, 092B110	Mt. Sicker
07273	1979	Pauwels, A.	Union Miniere Explorations and Mining Corp. Ltd.	Geochemical / 092B041	Mt. Sicker
07323	1979	Somerville, R.	Esso Minerals Canada	Diamond Drilling (448 m. in 6 holes) / 092B028, 092B040, 092B041, 092B110	Mt. Sicker
07434	1979	Pauwels, A.	Union Miniere Explorations and Mining Corp. Ltd.	Geochemical / 092B004, 092B086	Mt. Sicker
07714	1979	Ronning, P.A., Allen, G.	Postuk, P., S.E.R.E.M. Ltd.	Geological, Geochemical / 092B088, 092B089	Mt. Sicker
07875	1980	Allen, G., van Houten, C.G., Ronning, P.	S.E.R.E.M. Ltd., Mt. Sicker Mines Ltd.	Geological, Geochemical / 092B001, 092B002, 092B003, 092B004, 092B087, 092B088, 092B089, 092B099	Mt. Sicker
08264	1980	van Houten, C.G., Ronning, P.	S.E.R.E.M. Ltd., Mt. Sicker Mines Ltd.	Diamond Drilling (1,236 m. in 7 holes) / 092B001, 092B002, 092B003, 092B004, 092B087, 092B088, 092B089, 092B099	Mt. Sicker

11329	1983	Sorbara, J.P.	Cominco Ltd.	Geological, Geochemical / 092B028, 092B041	Mt. Sicker
12172	1984	Davidson, A.J.	Corporation Falconbridge Copper	Diamond Drilling (176 m. in 1 hole) / 092B001, 092B002, 092B003, 092B004, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
12317	1984	Davidson, A.J.	Corporation Falconbridge Copper	Diamond Drilling (394 m. in 2 holes) / 092B001, 092B002, 092B003, 092B004, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
12379	1984	Britten, R.	Esso Resources Canada Ltd.	Geological, Geochemical / 092B040, 092B110	Mt. Sicker
13744	1985	Hendrickson, G.A.	Esso Resources Canada Ltd., Kidd Creek Mines Ltd.	Geophysical / 092B040, 092B110	Mt. Sicker
14411	1986	Enns, S.G.	Esso Resources Canada Ltd., Kidd Creek Mines Ltd.	Diamond Drilling (1,534 m. in 7 holes) / 092B040, 092B110	Mt. Sicker
14735	1986	Lefebure, D.V.	Corporation Falconbridge Copper	Diamond Drilling (1,502 m. in 5 holes) / 092B001, 092B002, 092B003, 092B004, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
15719	1987	Gibson, H.L.	Corporation Falconbridge Copper	Diamond Drilling (3,115 m. in 11 holes) / 092B001, 092B002, 092B003, 092B004, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
16716	1987	Wells, G.S.	Minnova Inc.	Diamond Drilling (3,217 m. in 15 holes) / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
16871	1987	Wells, G.S.	Minnova Inc.	Diamond Drilling (176 m. in 1 hole) / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
17649	1988	Klemmer, S.G.	Esso Resources Canada Ltd., Falconbridge Ltd.	Diamond Drilling (195 m. in 1 hole) / 092B040, 092B110	Mt. Sicker
17834	1988	Wells, G.S.	Minnova Inc.	Diamond Drilling (477 m. in 1 hole) / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
17836	1988	Wells, G.S.	Minnova Inc.	Diamond Drilling (151 m. in 1 hole) / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
18859	1989	Wells, G.S.	Minnova Inc.	Diamond Drilling (3,103 m. in 8 holes) / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089, 092B090	Mt. Sicker

19754	1990	Wells, G.S.	Minnova Inc.	Diamond Drilling (763 m. in 3 holes / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089, 092B090)	Mt. Sicker
19765	1989	Stewart, R., Vande-Guchte, M.	Falconbridge Ltd.	Diamond Drilling (1,056 m. in 2 holes) / 092B028, 092B041	Mt. Sicker
20579	1991	Wells, G.S.	Minnova Inc.	Diamond Drilling (172.5 m. in 1 holes) / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089, 092B090	Mt. Sicker
31970	2010	McLelland, D.	McCombs, V.	Geophysical, Remote Sensing (616 ha.) / 092B004	Mt. Sicker
32278	2011	Houle, J.	Rock-Con Resources Inc.	Prospecting, Geochemical / 092B001, 092B002, 092B003, 092B004, 092B086, 092B087, 092B088, 092B089	Mt. Sicker

The history of the Mt. Sicker Property is long and very complex, and is summarized in the Capsule Geology of the eleven BC MINFILE reports listed in Table 2. Periodic snapshots of early history (pre-1965) are available in the provincial and federal reports and publications referenced in the bibliographies of the MINFILE reports. More detailed recent history (post-1965) for all the Mt. Sicker Property is available in the BC ARIS reports listed in Table 3. A brief summary of the early history for the Mt. Sicker Property is as follows:

1895 to 1898 – prospecting, discovery, staking and underground mine development of the Mt. Sicker sulphide deposit, including three of the four MINFILE past producers: Lenora, Tyee, and Richard 3, (092B001-003) covered by the Mt. Sicker Property.

1897 to 1903 – prospecting, discovery, staking and underground development of the MINFILE past producer Victoria (092B004), the western continuation of the Mt. Sicker sulphide deposit east of the Chemainus River, covered by the Mt. Sicker Property.

1898 to 1964 – intermittent, combined production from the 4 past producers covered by the Mt. Sicker Property totalling 277,517 tonnes averaging 3.4% copper, 0.14% lead, 1.6% zinc, 90 g/t silver and 4.2 g/t gold from sulphide ore, shipped to smelters at Crofton, B.C. and Tacoma, U.S.A.

1897 to 1920 – prospecting, discovery, staking and surface exploration of the MINFILE showing Belle (092B089) located north of the Mt. Sicker sulphide deposit, covered by the Mt. Sicker Property.

1897 to 1924 - prospecting, discovery, staking and underground exploration of the MINFILE past producer Key City (092B087), a portion of the Mt. Sicker sulphide deposit between the Lenora and Victoria past producers, covered by the Mt. Sicker Property.

1898 to 1903 – prospecting, discovery, staking and underground exploration of the MINFILE showing Queen Bee (092B088), located near the Belle showing, north of the Mt. Sicker sulphide deposit, and covered by the Mt. Sicker Property.

1902 to 1928 – prospecting, discovery, staking and underground exploration of the MINFILE showing Copper Canyon (092B086), the western continuation of the Mt. Sicker sulphide deposit located west of the Chemainus River and the Lenora past producer, and covered by the Mt. Sicker Property.

1903 to 1927 – prospecting, discovery, staking and underground exploration of the MINFILE prospect Sharon (092B040), located northwest of the Mt. Sicker deposit, and covered by the Mt. Sicker Property.

1903 to 1923 – prospecting, discovery, staking and surface exploration of the MINFILE showing Water Power – Brenton (092B041), located northeast of the Sharon Copper prospect, and covered by the Mt. Sicker Property.

List of Claims and Work Completed

Mt. Sicker Property:

Prospecting, outcrop and float rock sampling, rock geochemistry, data compilation and report writing were completed periodically between September 29, 2013 and January 24, 2014. Field work was completed on cell mineral claims 513390, 516629 and 533072, and inadvertently on adjacent cell claims 543042 and 847165, by Mr. Brant Protasiewicz and Mr. Bryan Protasiewicz, and consisted of traveling by pickup trucks along logging roads, traversing on foot, prospecting and sampling using hand tools. Twenty five (25) select rock samples were taken from 5 areas (Sharon Copper, Mildred, Rose, Key City and Belle/Queen Bee), and shipped in 1 batch to AGAT Laboratories in Burnaby, BC. Samples were analyzed for 48 element ICP/MS geochemistry, and gold ICP/MS geochemistry, and the following for over limit assays by element: 1 for arsenic, 2 for copper, and 4 for zinc.

For all twenty five (25) samples sample location data and rock sample descriptions were completed by Mr. Brant Protasiewicz, cost data was compiled by the author, and the technical data was compiled, maps plotted, and the report written by the author.

Technical data, interpretation, conclusions, recommendations

Rock Sample Highlights – Mt. Sicker Property

Locations for all rock samples taken between 2010 and 2013 relative to cell mineral claims boundaries appear in Figure 5 at 1:20,000 scale, and detailed sample locations and geochemistry values and proportional size plots for gold, silver, copper, lead and zinc for the five (5) sampling areas in 2013 appear as Figures 6 to 35 inclusive at either 1:5,000 or 1:2,500 scales. Tables of 2010-2013 GPS locations, and rock sample locations, descriptions, geochemistry results and geochemistry highlights appear in Appendix 1, and analytical certificates from AGAT Laboratories appear in Appendix 2.

Many of the 25 samples taken consisted of sulphide-bearing rocks, with 7 of 25 samples exceeding 10% sulphur. Many samples yielded elevated values of target (gold, silver, copper, lead, zinc) and/or indicator elements for volcanogenic massive sulphide deposits, including:

- 9 of 25 samples exceeding 0.1 ppm gold, up to 0.551 ppm gold
- 13 of 25 samples exceeding 1 ppm silver, up to 62.8 ppm silver
- 19 of 25 samples exceeding 500 ppm copper, up to 1.37% copper
- 3 of 25 samples exceeding 500 ppm lead, up to 0.363% lead
- 8 of 25 samples exceeding 500 ppm zinc, up to 10.5% zinc
- Multiple samples with elevated values in arsenic, barium, cobalt, gallium, indium, molybdenum, nickel, phosphorus, antimony, tellurium and/or yttrium

The geochemistry results from the selected rock samples confirm the presence, and elevated base and precious metal grades of volcanogenic massive sulphide mineralization at various mineral occurrences in similar host rocks as and proximal to the historic exploration and mine workings on the Mt. Sicker Property. These results are consistent with recent geochemistry results obtained from 47 samples taken from other mineral occurrences on the Property in 2010 and 2011 documented by the author in ARIS Report 32278, with locations shown in Figure 5 and details in Appendix 1.

More systematic technical work is warranted on the Mt. Sicker Property, including:

- Geo-referencing, 3-D compilation and modeling of historic underground workings and selected historic exploration data
- Systematic modern exploration, initially from surface and possibly involving rehabilitation and utilization of historic underground workings
- Initiation of baseline environmental studies to determine impacts of historic industrial (including mining and forestry) and residential infrastructure on the property prior to any possible future disturbance by current owners/operators

Qualifications of Author

I, Jacques Houle, P.Eng., do hereby certify that:

I am sole proprietor of:
Jacques Houle, P.Eng. Mineral Exploration Consulting
6552 Peregrine Road
Nanaimo, British Columbia, Canada V9V 1P8

I graduated with a B.A.Sc. degree in Geological Engineering with specialization in Mineral Exploration from the University of Toronto in 1978.

I am a member of the Association of Professional Engineers and Geoscientists of B.C.

I have worked as a geologist for 35 years since graduating from university.

I am the author responsible for the preparation of the Technical Report titled "Assessment Report for Prospecting and Geochemistry on the Mt. Sicker Property" for Connie McCombs and Conarry Ventures Inc. dated January 22, 2014.

I have had prior involvement with the Property that is the subject of the Assessment Report, as an acquaintance of the late Mr. Alan Francis, Ms. Connie McCombs, Mr. Brant Protasiewich, Rock-Con Resources Inc., and Connary Ventures Inc.

I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report that is not reflected in the Assessment Report, the omission to disclose which makes the Assessment Report misleading.

I hold no financial interest and no shares, nor do I expect to receive or acquire any interest or shares in Conarry Ventures Inc.

I am independent of Ms. Connie McCombs and Conarry Ventures Inc.

Dated this 22nd day of January, 2014



Signature of Author

Jacques Houle, P.Eng.
Printed name of Author



Seal of Author

References

B. C. Ministry of Energy and Mines websites:

Assessment Reports

<http://www.empr.gov.bc.ca/Mining/Geoscience/ARIS/Pages/default.aspx>

Geological Survey Publications

<http://www.empr.gov.bc.ca/Mining/Geoscience/PublicationsCatalogue/Pages/default.aspx>

Landowner Notification

<http://www.empr.gov.bc.ca/Titles/MineralTitles/Admin/Notices/Pages/LandownerNotification.aspx>

MapPlace

<http://www.empr.gov.bc.ca/Mining/Geoscience/MapPlace/Pages/default.aspx>

Mineral Deposit Profiles

<http://www.empr.gov.bc.ca/Mining/Geoscience/MineralDepositProfiles/Pages/default.aspx>

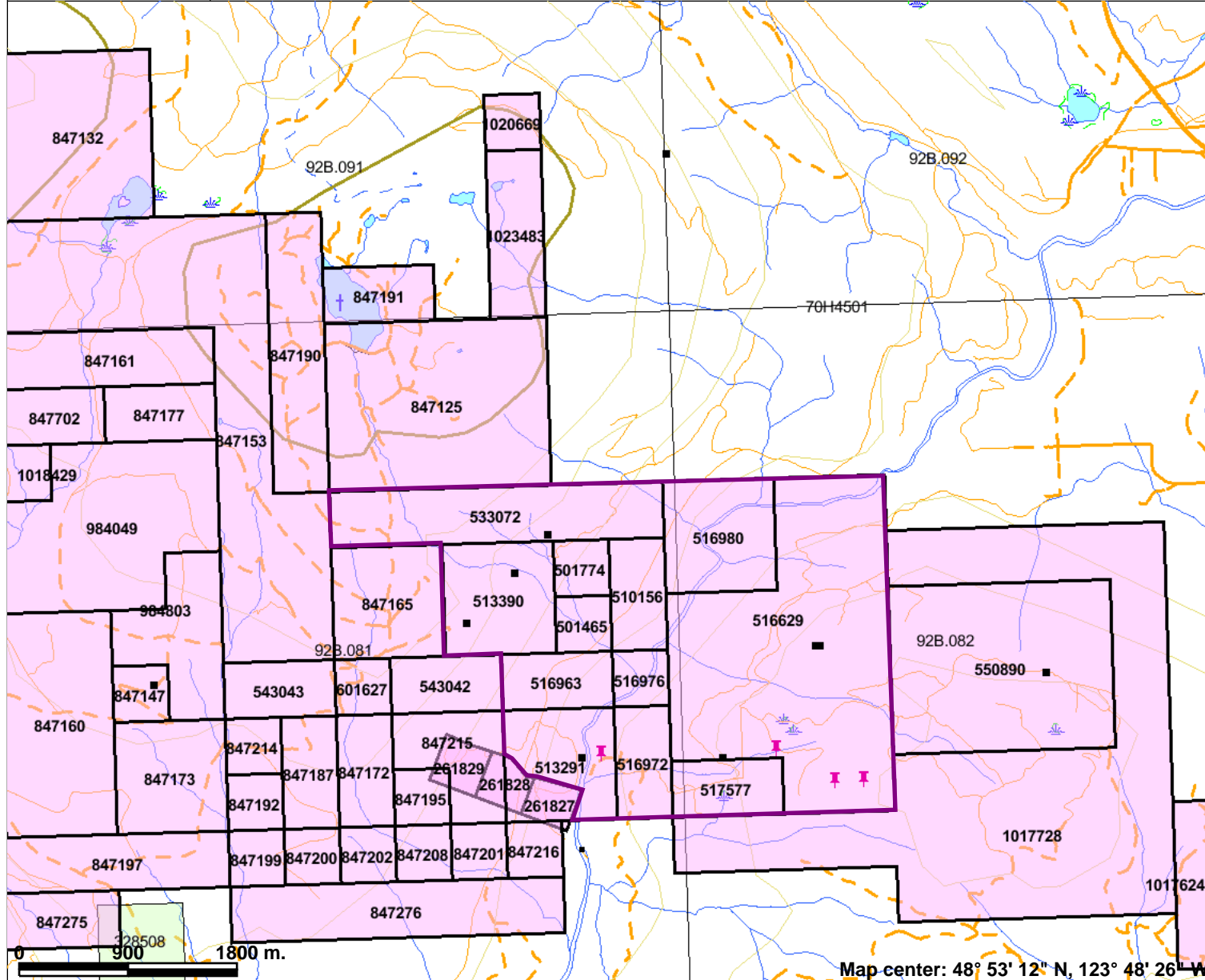
MINFILE

<http://www.empr.gov.bc.ca/Mining/Geoscience/MINFILE/Pages/default.aspx>

Mineral Titles Online

<https://www.mtonline.gov.bc.ca/mtov/home.do>

Mt. Sicker Property



Legend

MINFILE Status

- Producer
- Past Producer
- Developed Prospect
- All others

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Federal Transfer Lands

Mineral Tenure (current)

- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)

- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- First Nations Treaty Related Lands

- First Nations Treaty Lands
- BCGS Grid
- Contours (1:250K)

- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Area of Indefinite Contours
- Transportation - Points (TRIM)



Scale: 1:50,000

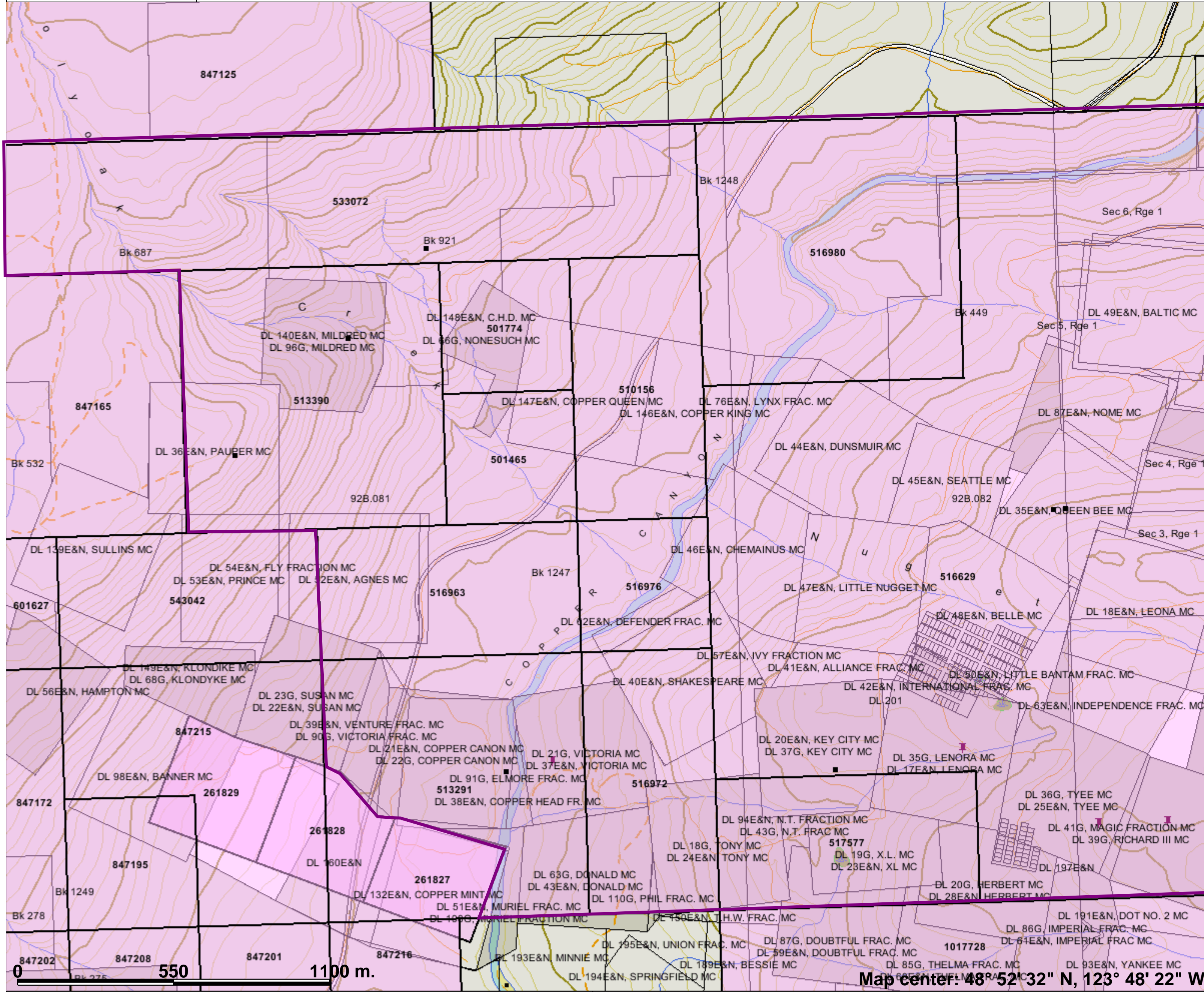
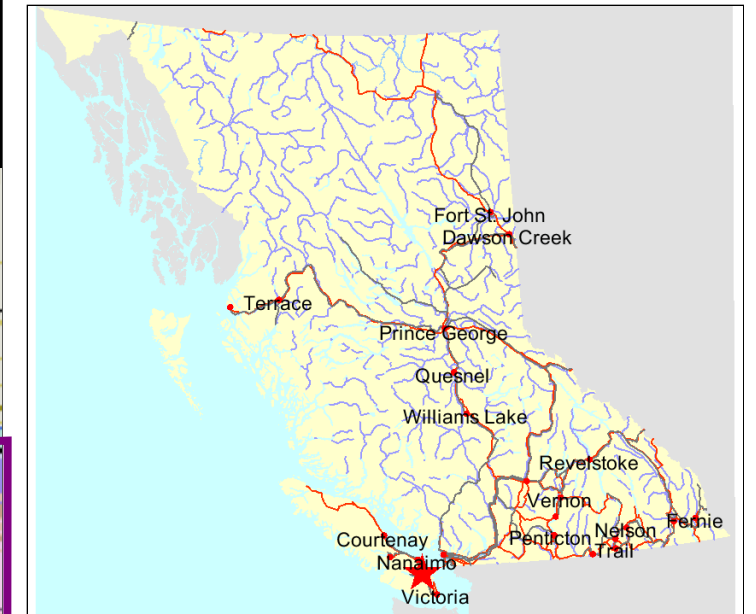
Map center: 48° 53' 12" N, 123° 48' 26" W

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Mineral Tenures

Figure 1

Mt. Sicker Property



Legend

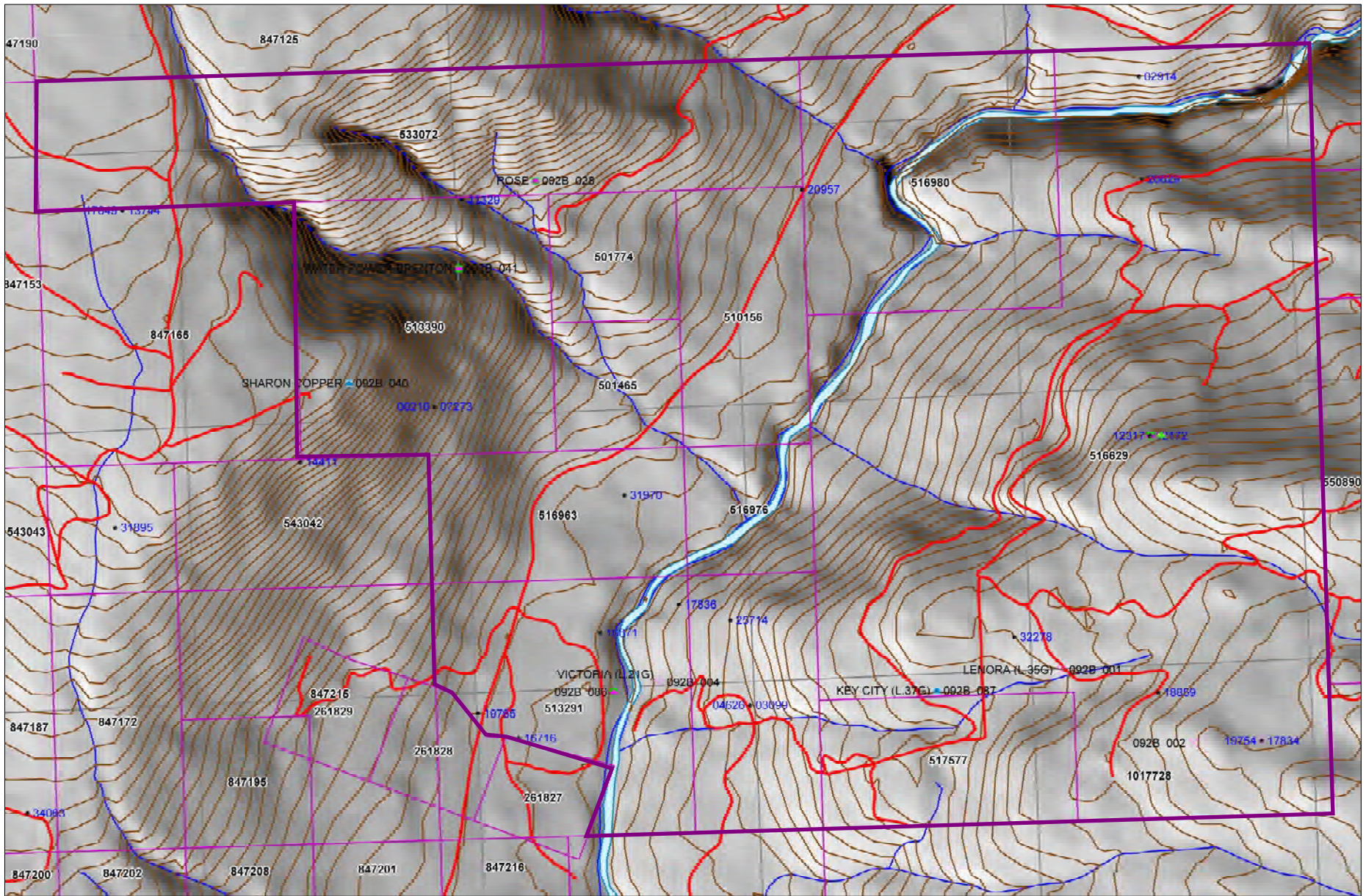
- MINFILE Status**
 - Producer
 - Past Producer
 - Developed Prospect
 - All others
- Indian Reserves**
- National Parks**
- Conservancy Areas**
- Parks**
- Federal Transfer Lands**
- Mineral Tenure (current)**
 - Mineral Claim
 - Mineral Lease
- Mineral Reserves (current)**
 - Placer Claim Designation
 - Placer Lease Designation
 - No Staking Reserve
 - Conditional Reserve
 - Release Required Reserve
 - Surface Restriction
 - Recreation Area
 - Others
- First Nations Treaty Related Lands**
 - First Nations Treaty Lands
- Integrated Cadastral Fabric**
- Survey Parcels**
- BCGS Grid**
- Contours (TRIM)**
 - Contour - Index
 - Contour - Index, Indefinite
 - Contour - Index, Depression
 - Contour - Index, Depression Indefinite
 - Contour - Intermediate
 - Contour - Intermediate, Indefinite
 - Contour - Intermediate, Depression
 - Contour - Intermediate, Depression Indefinite
- Area of Exclusion**
- Area of Indefinite Contours**
- Annotation (1:20K)**
- Transportation - Points (TRIM)**
 - Helipad
- Transportation - Lines (TRIM)**
 - Airfield
 - Airport
 - Airstrip
 - Airport, Abandoned
 - Ferry Route
 - Road (Gravel Undivided) - 1 Lane
 - Road (Gravel Undivided) - 2 Lanes
 - Road (Gravel Undivided) - U/C - 1 Lane



Scale: 1:10,000

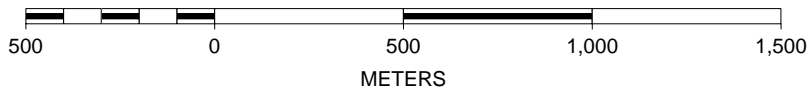
Map center: 48° 52' 32" N, 123° 48' 22" W

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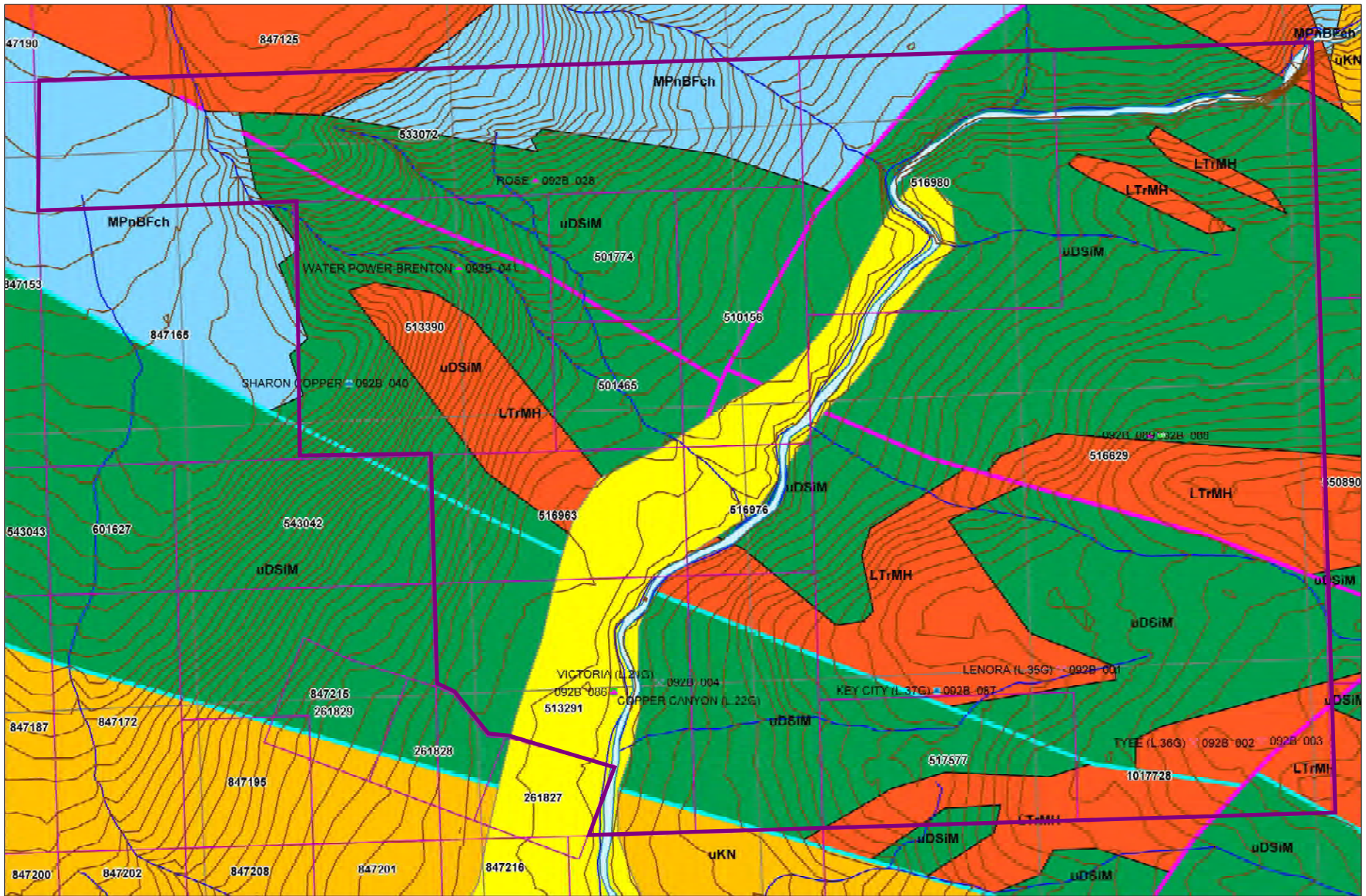
For
Legend
see BC
MapPlace

SCALE 1 : 20,000



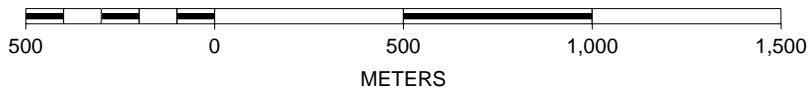
Mt. Sicker Property Infrastructure Figure 3





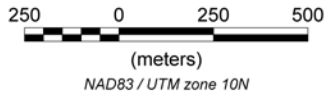
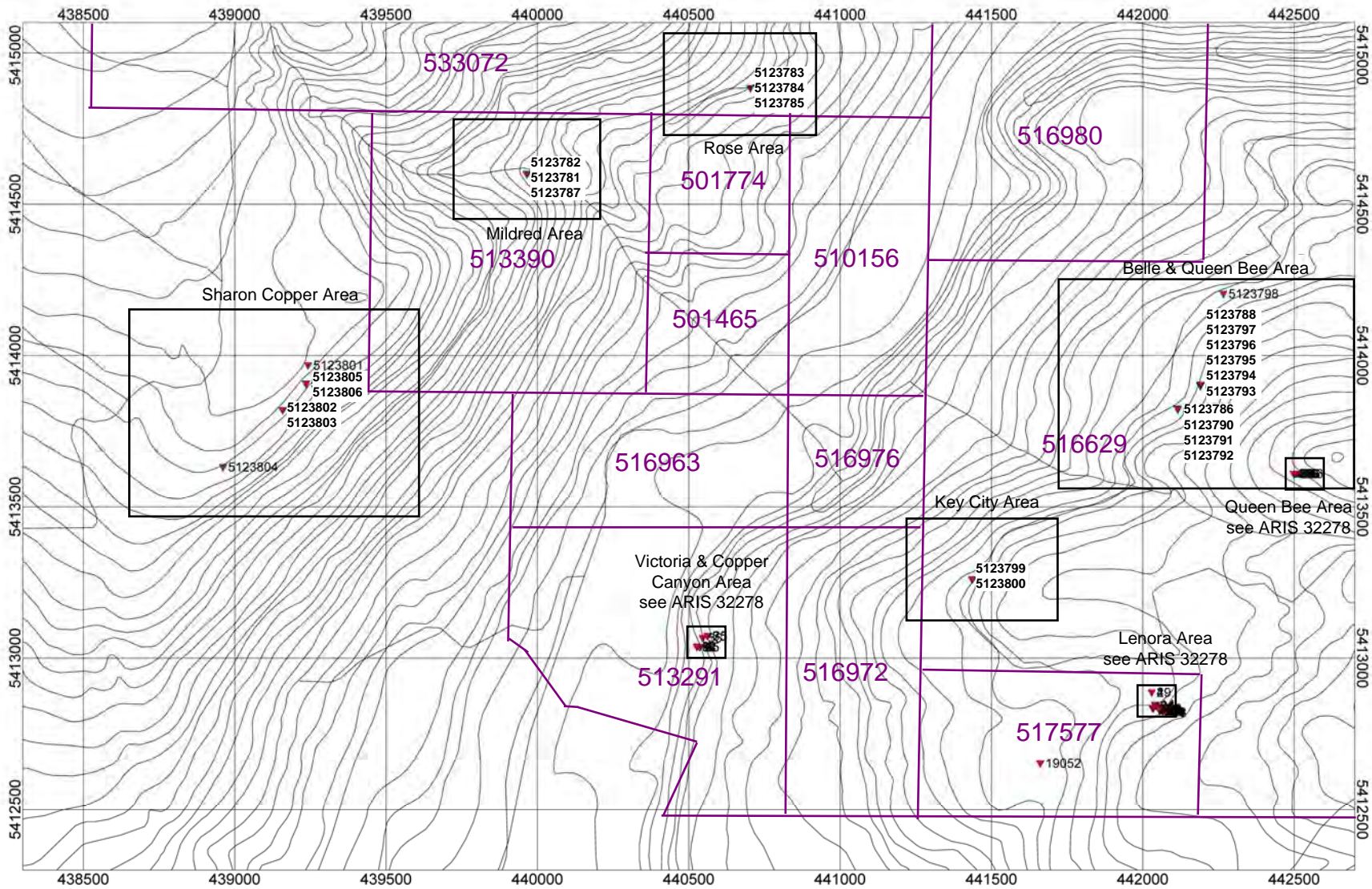
For
Geology
Legend
see Page 5

SCALE 1 : 20,000



Mt. Sicker Property
BCGS 2005 Geology Figure 4

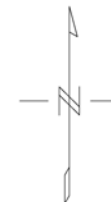


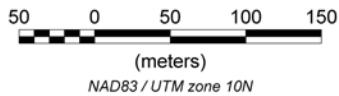
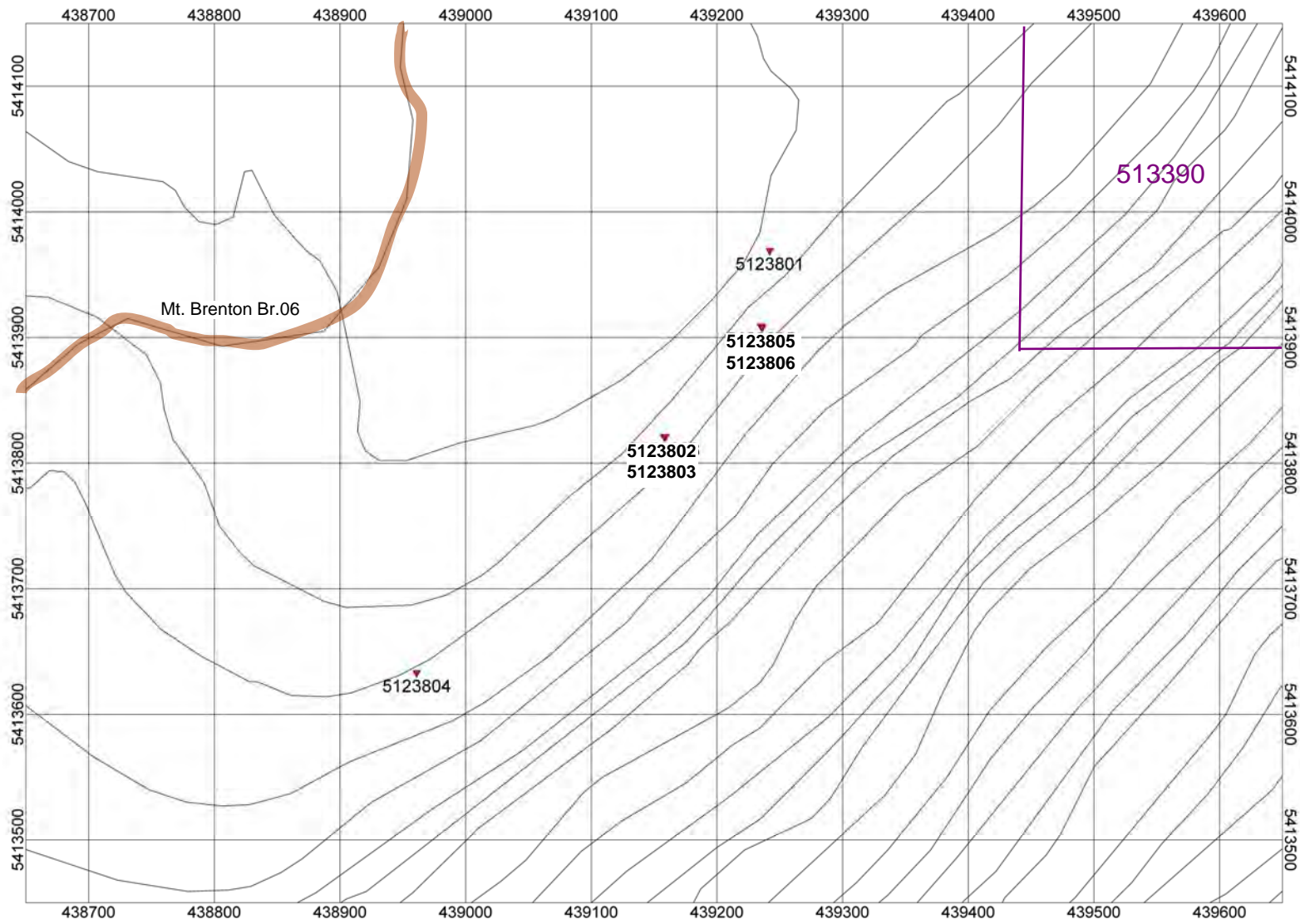


▼ Rock Sample Location & No.

Mt. Sicker Property
Rock Sample Locations
2010 to 2013 Sampling

Figure 5

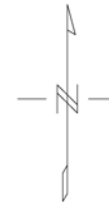




▼ Rock Sample Location & No.

Mt. Sicker Property
 Sharon Copper Area
 2013 Sample Locations

Figure 6



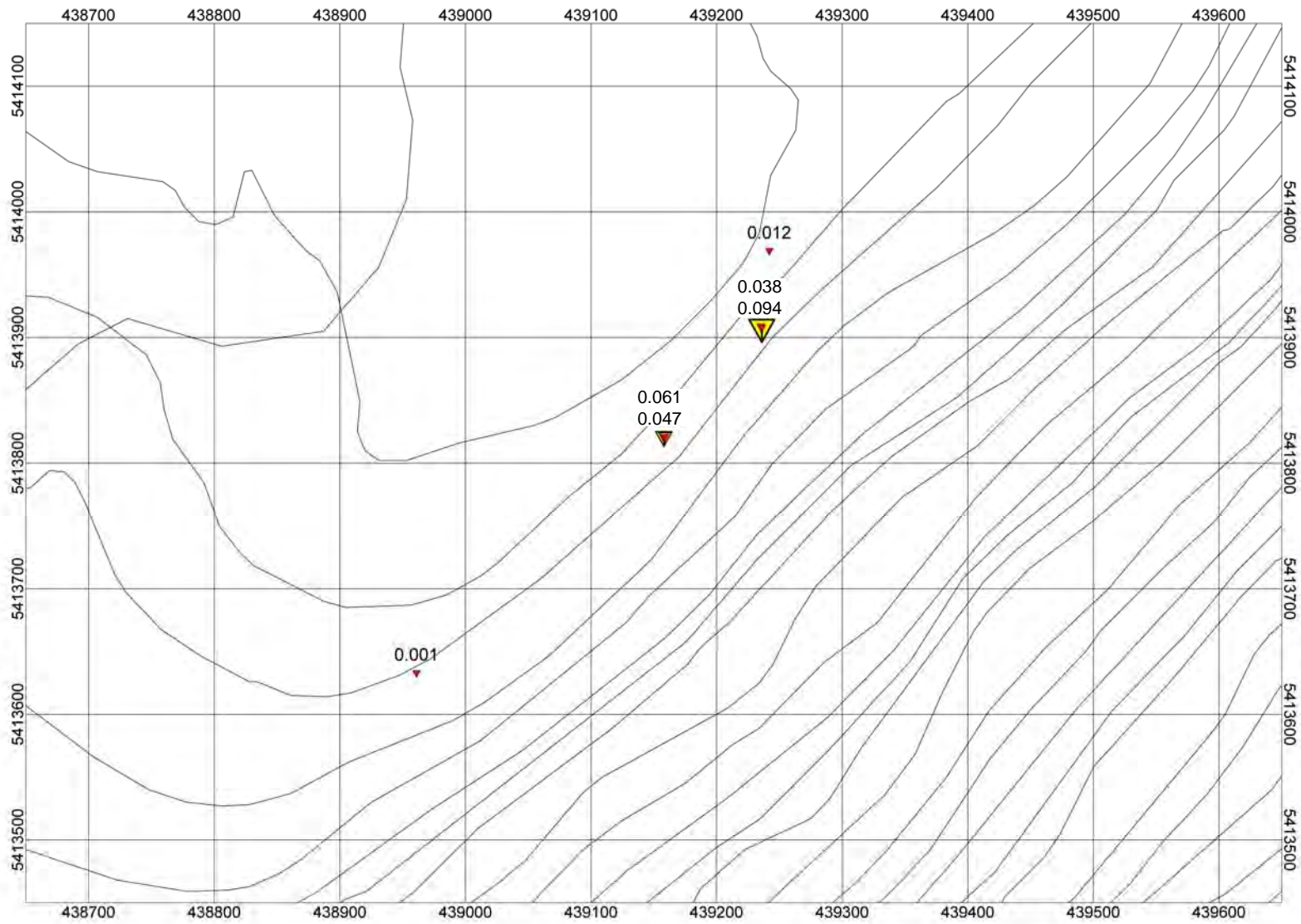
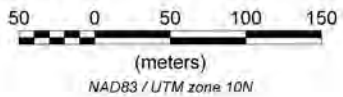


Figure 7



Mt. Sicker Property
Sharon Copper Area
2013 Sample Locations

Au ppm in Rocks

-  0.1
-  0.06
-  0.02



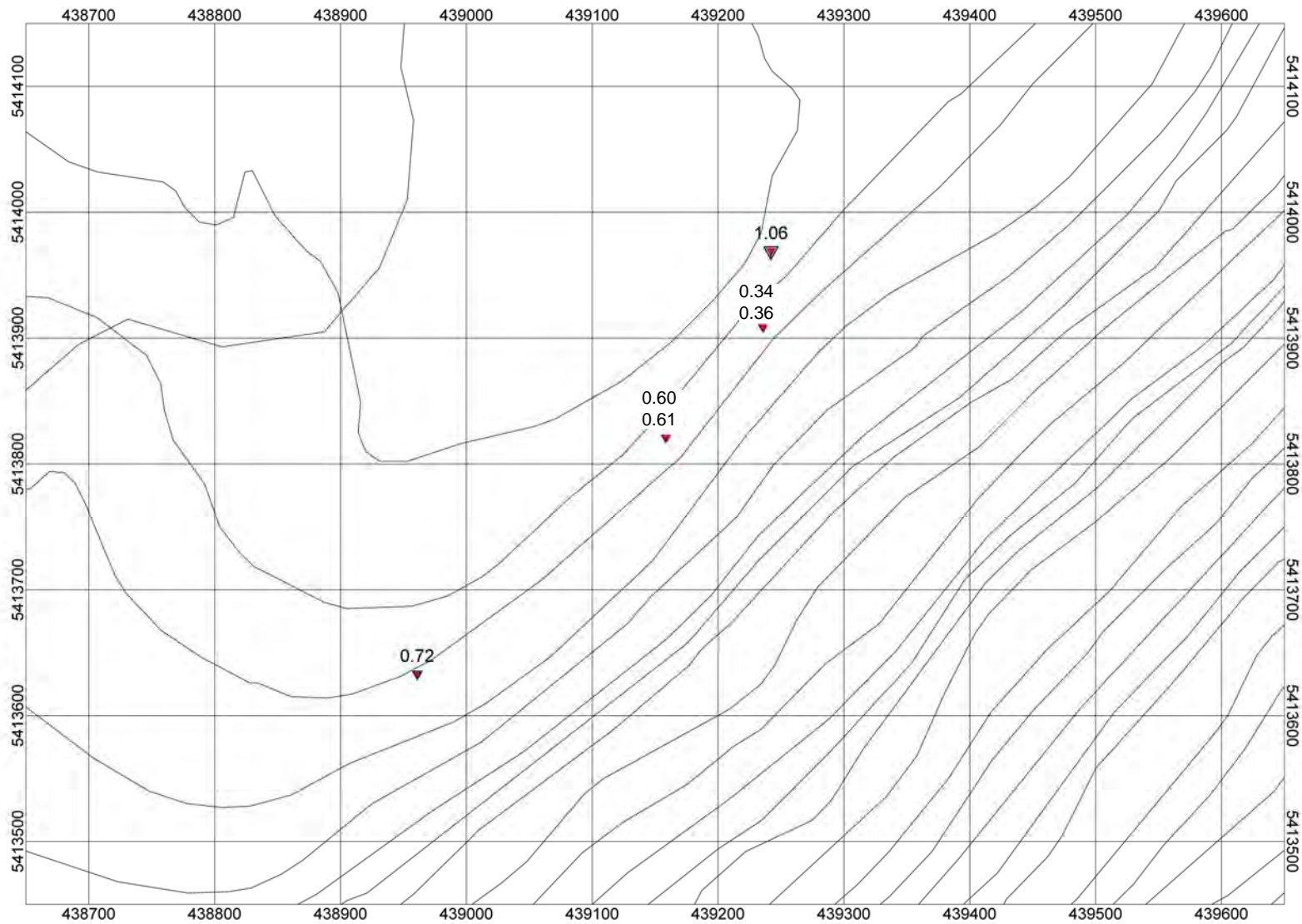
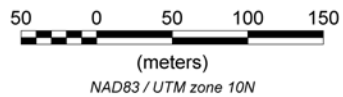


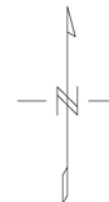
Figure 8



Mt. Sicker Property
 Sharon Copper Area
 2013 Sample Locations

Ag ppm in Rocks

- ▽ 1
- ▽ 0.6
- 0.2



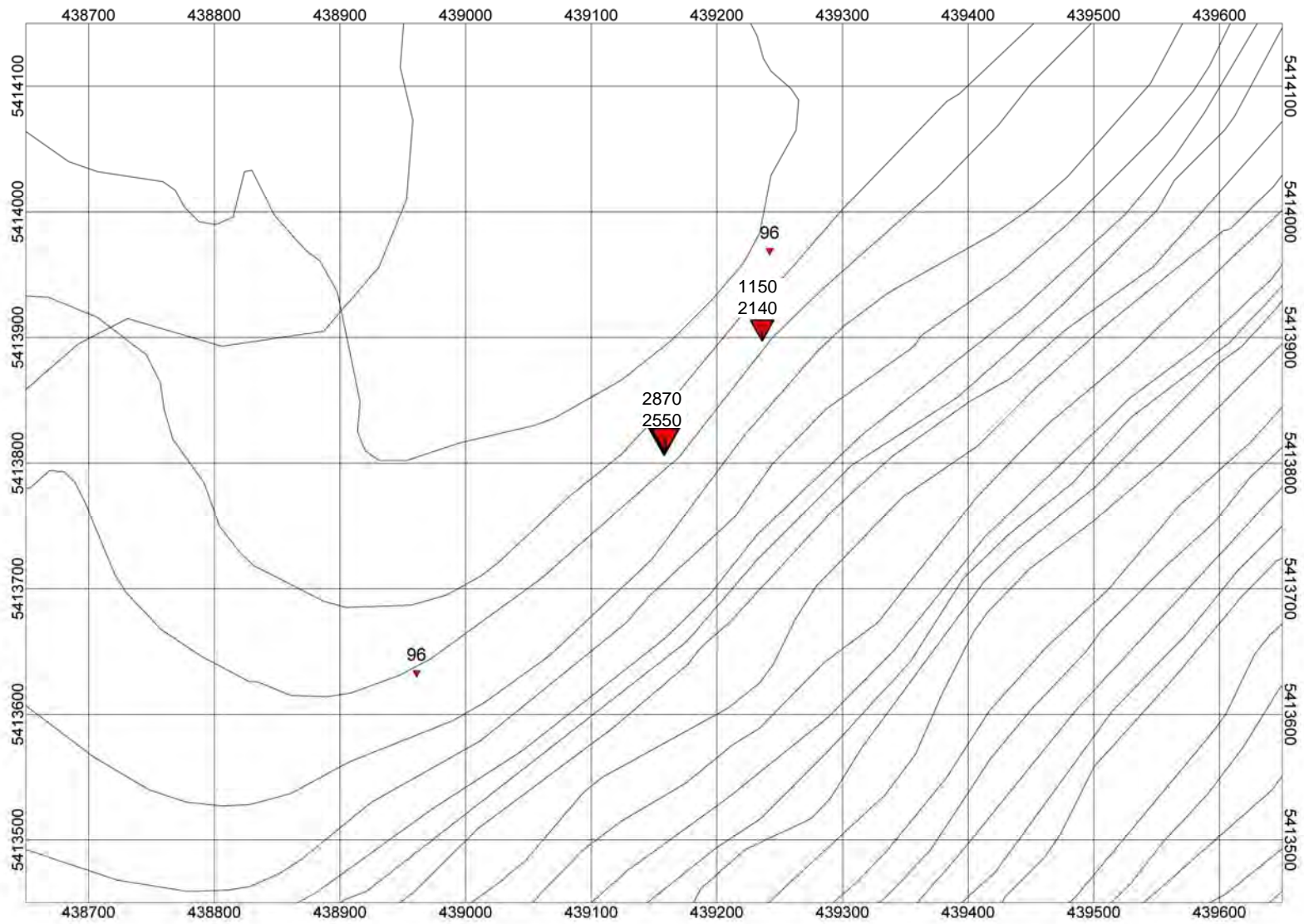
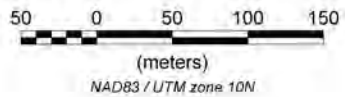


Figure 9



Mt. Sicker Property
 Sharon Copper Area
 2013 Sample Locations

Cu ppm in Rocks

-  2500
-  1500
-  500



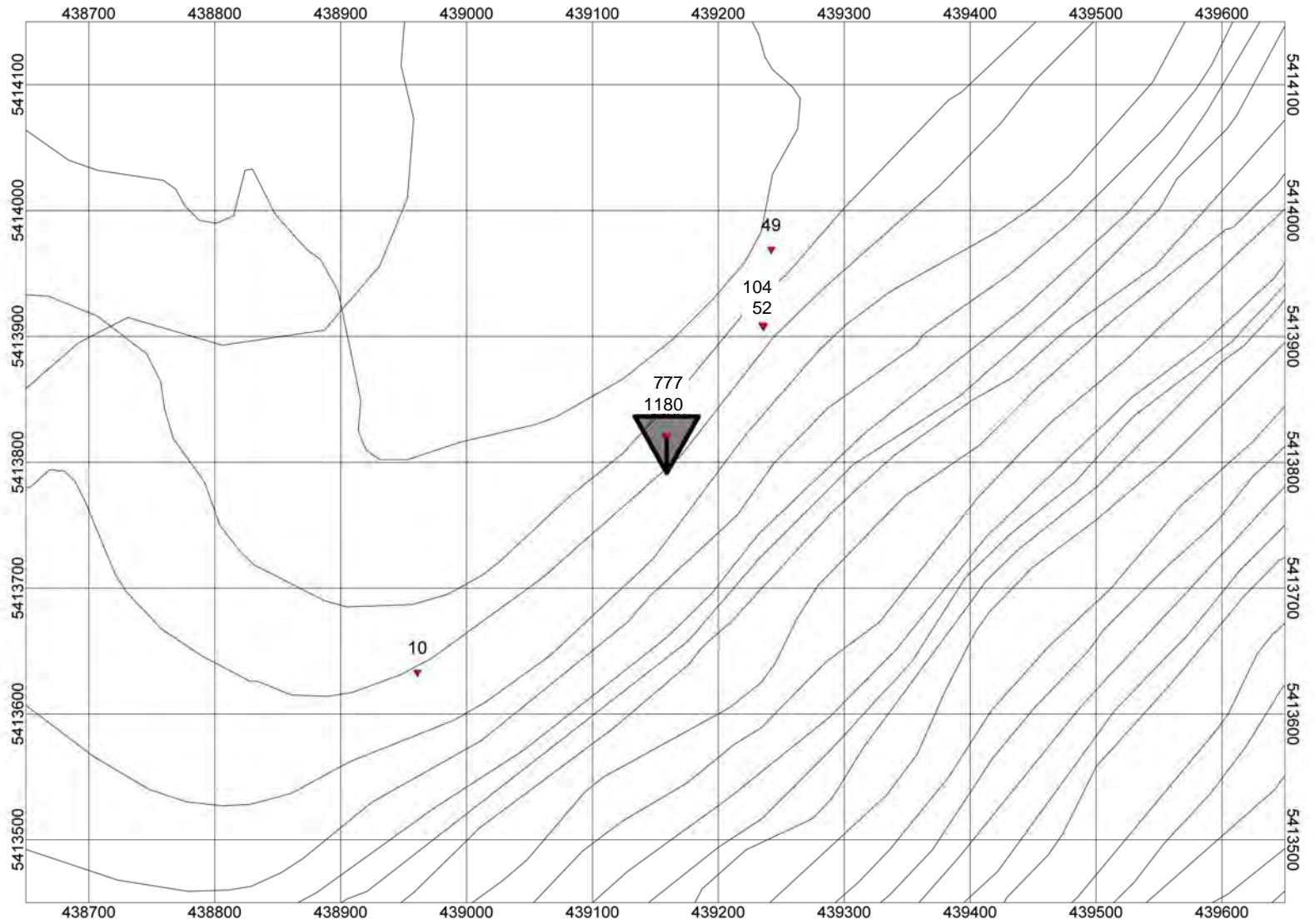
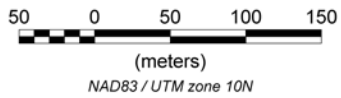
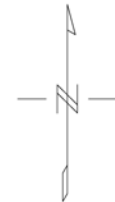
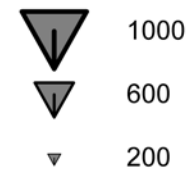


Figure 10



Mt. Sicker Property
 Sharon Copper Area
 2013 Sample Locations

Pb ppm in Rocks



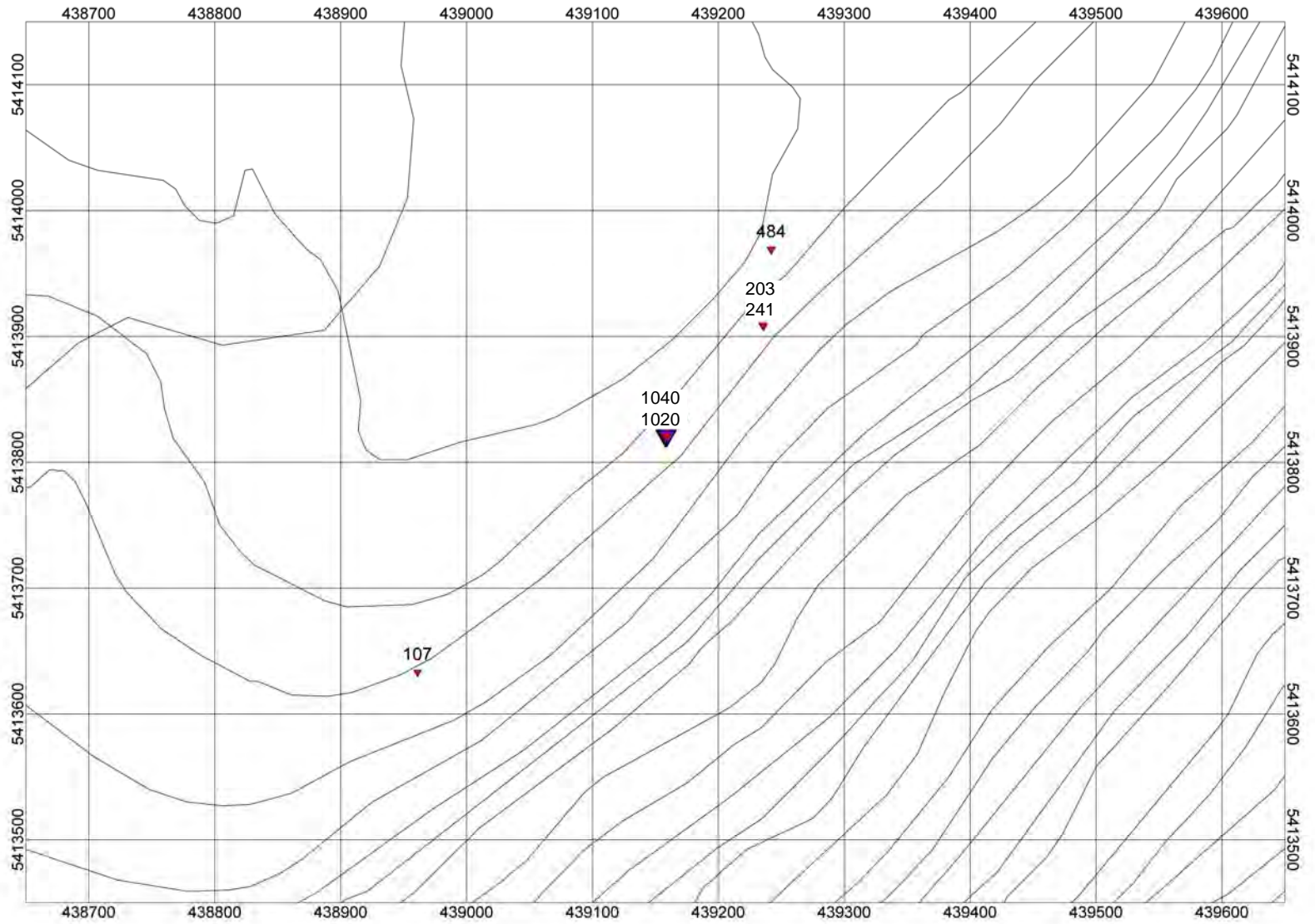
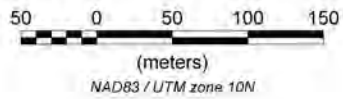


Figure 11



Mt. Sicker Property
Sharon Copper Area
2013 Sample Locations

Zn ppm in Rocks
 ▼ 1000
 ▼ 600
 • 200



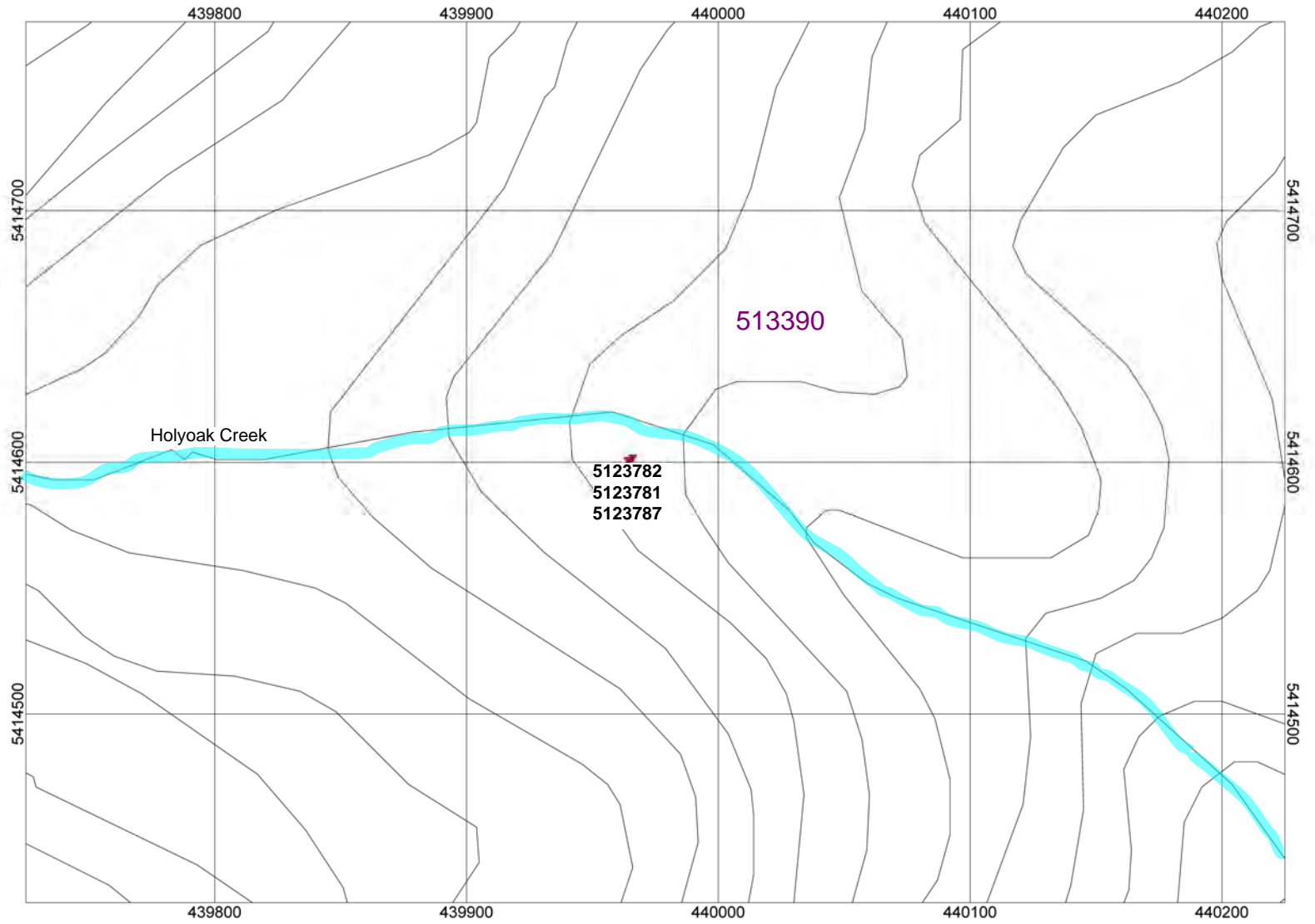
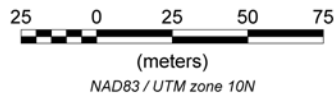
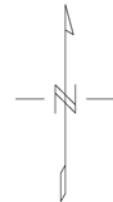


Figure 12



▼ Rock Sample Location & No.

Mt. Sicker Property
Mildred Area
2013 Sample Locations



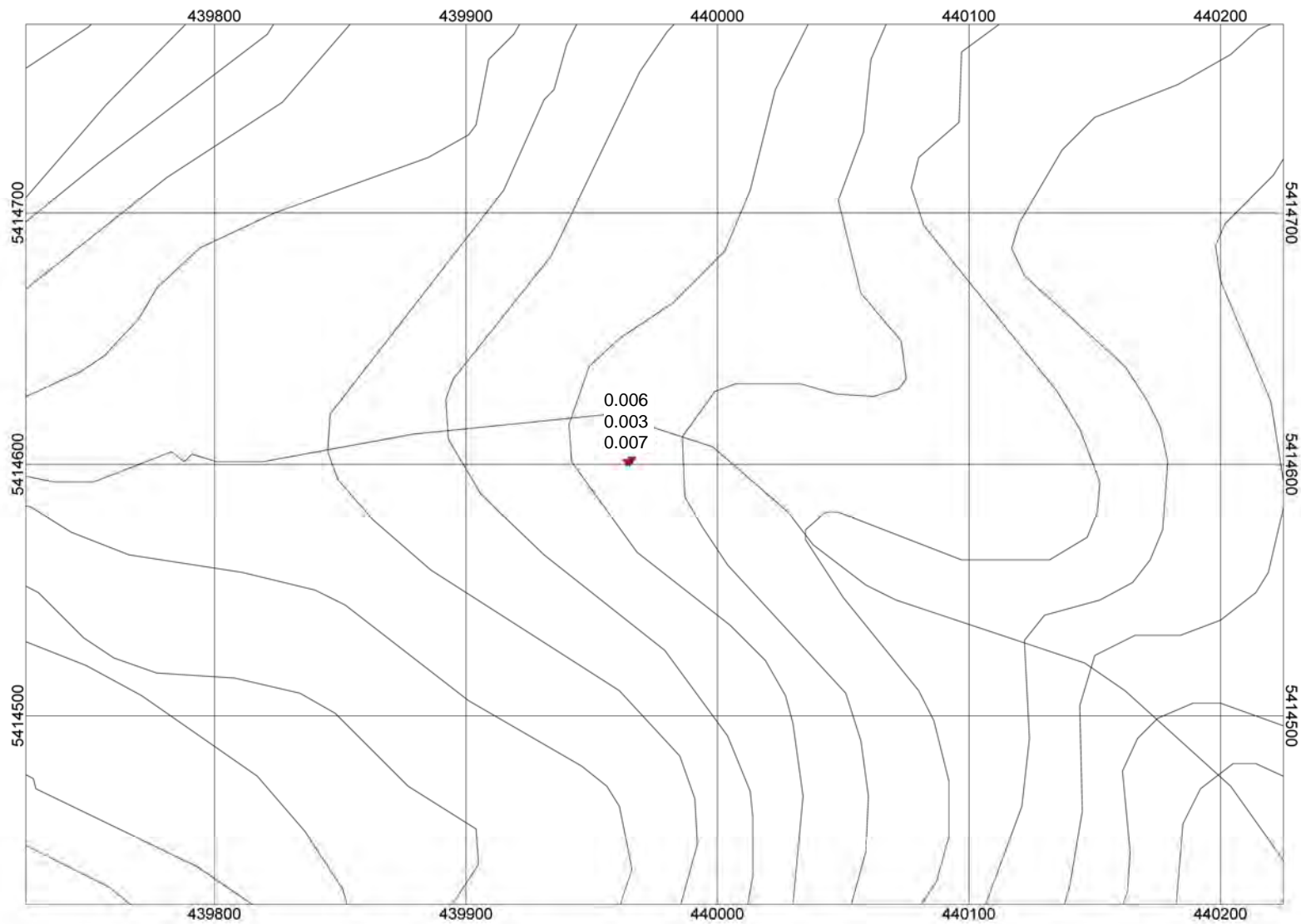
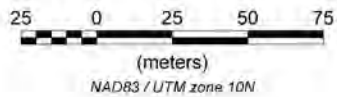


Figure 13



Mt. Sicker Property
 Mildred Area
 2013 Sample Locations

Au ppm in Rocks
 0.01
 0.006
 0.002



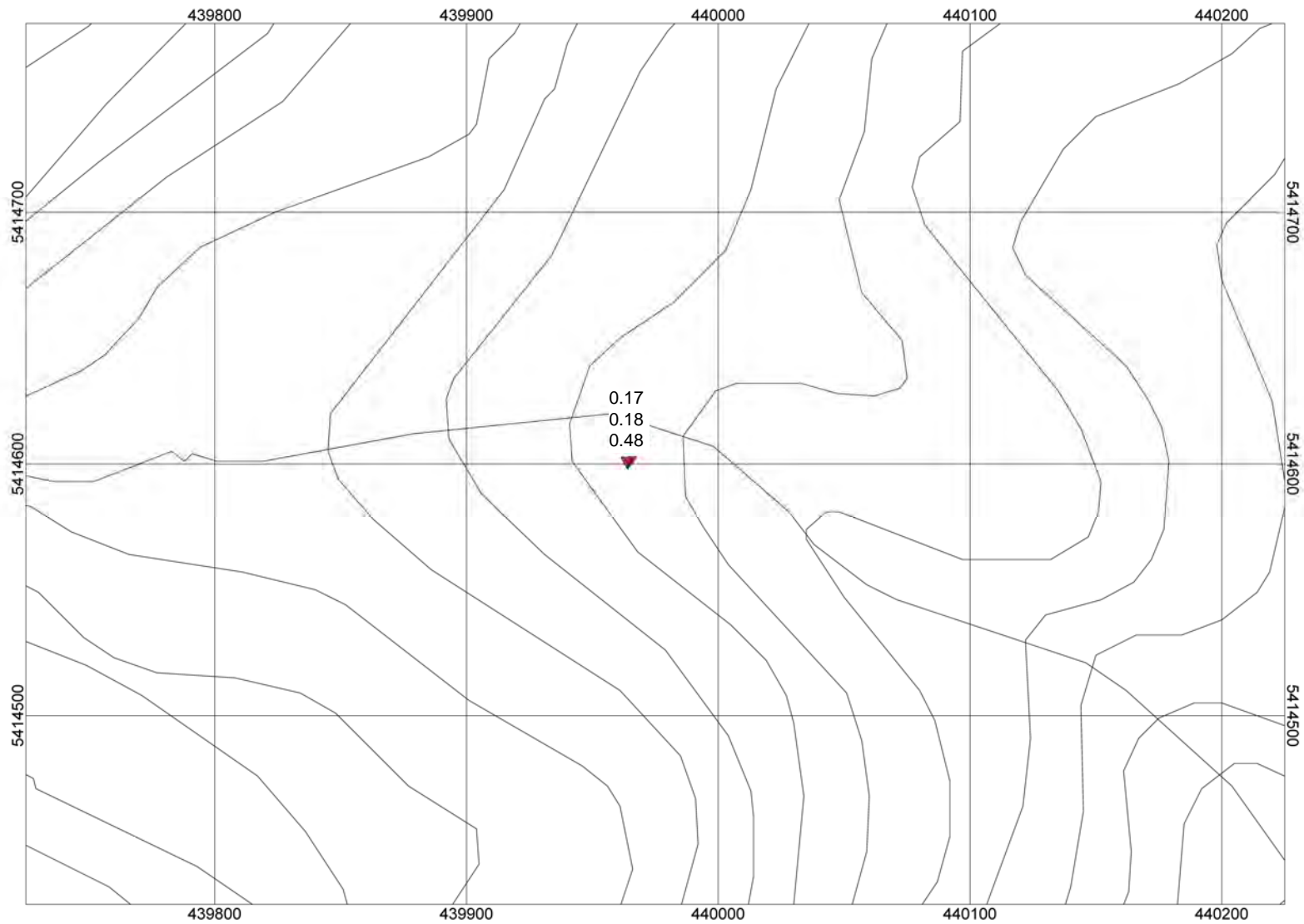
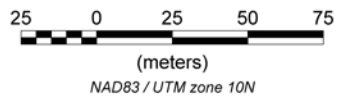


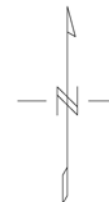
Figure 14



Mt. Sicker Property
Mildred Area
2013 Sample Locations

Ag ppm in Rocks

▽	0.5
▽	0.3
·	0.1



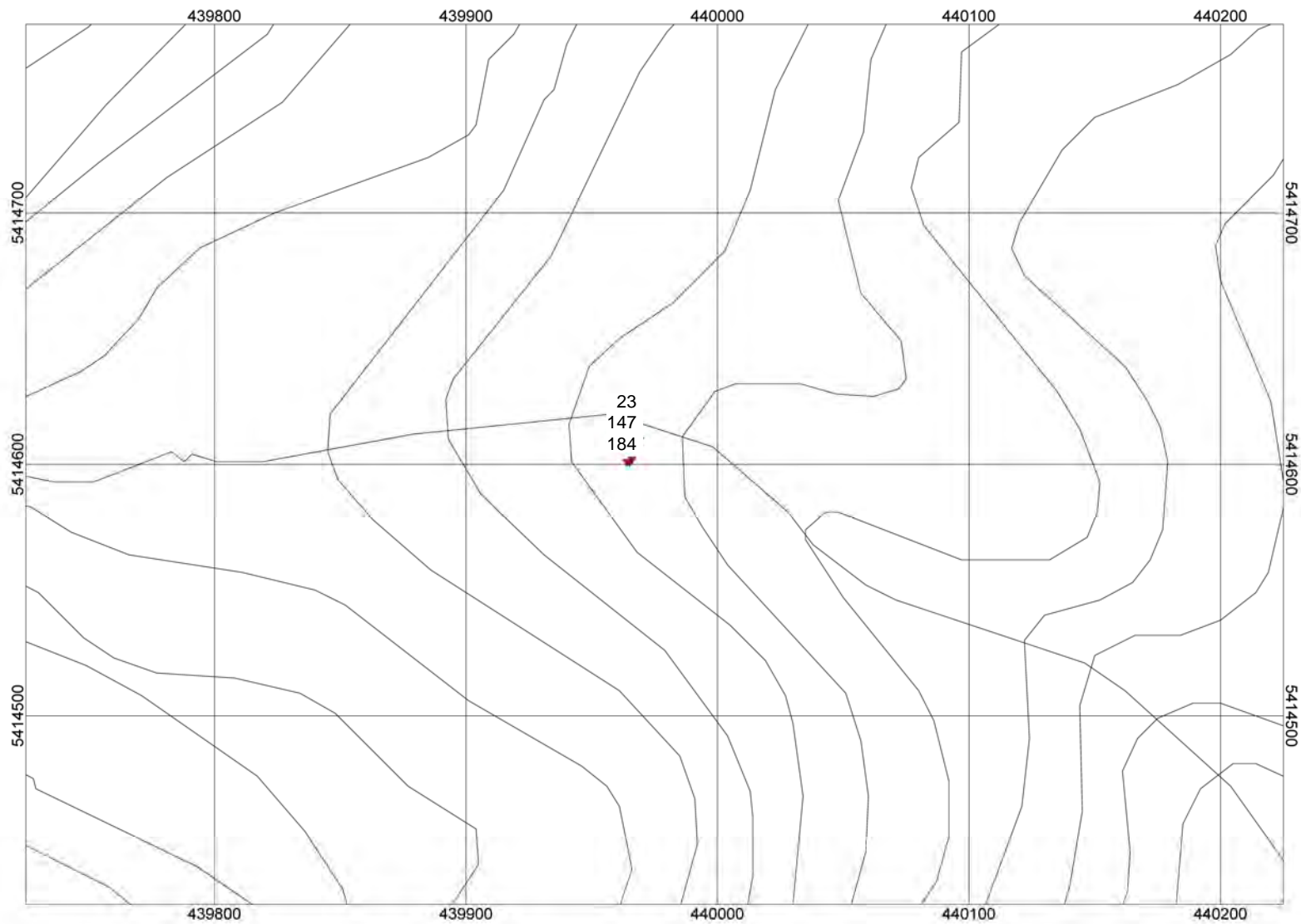
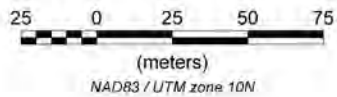


Figure 15



Mt. Sicker Property
 Mildred Area
 2013 Sample Locations

Cu ppm in Rocks
 ▼ 200
 · 120
 · 40



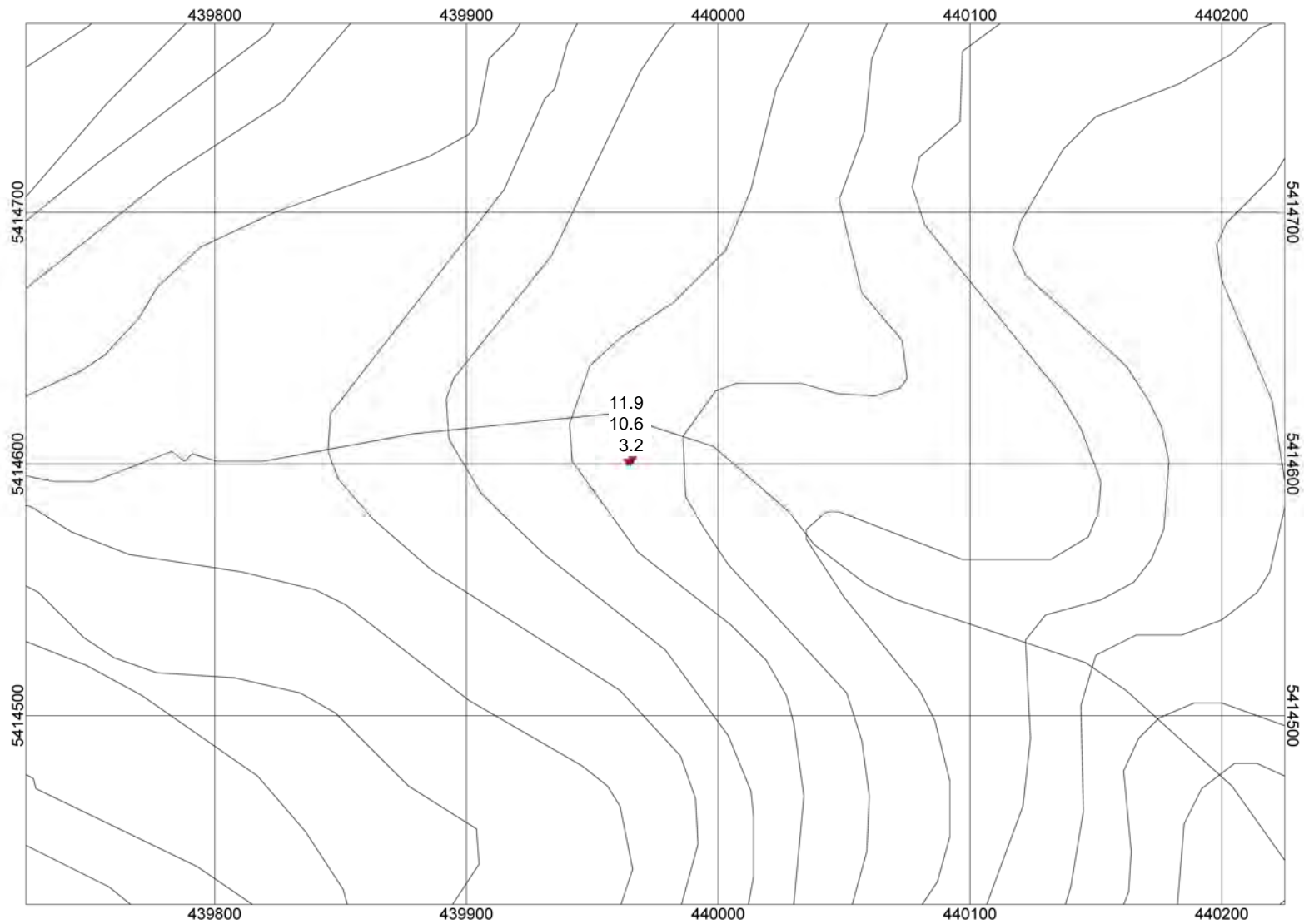
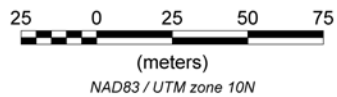
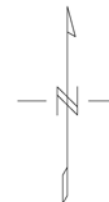


Figure 16



Mt. Sicker Property
Mildred Area
2013 Sample Locations

Pb ppm in Rocks
 ▼ 25
 ▼ 15
 · 5



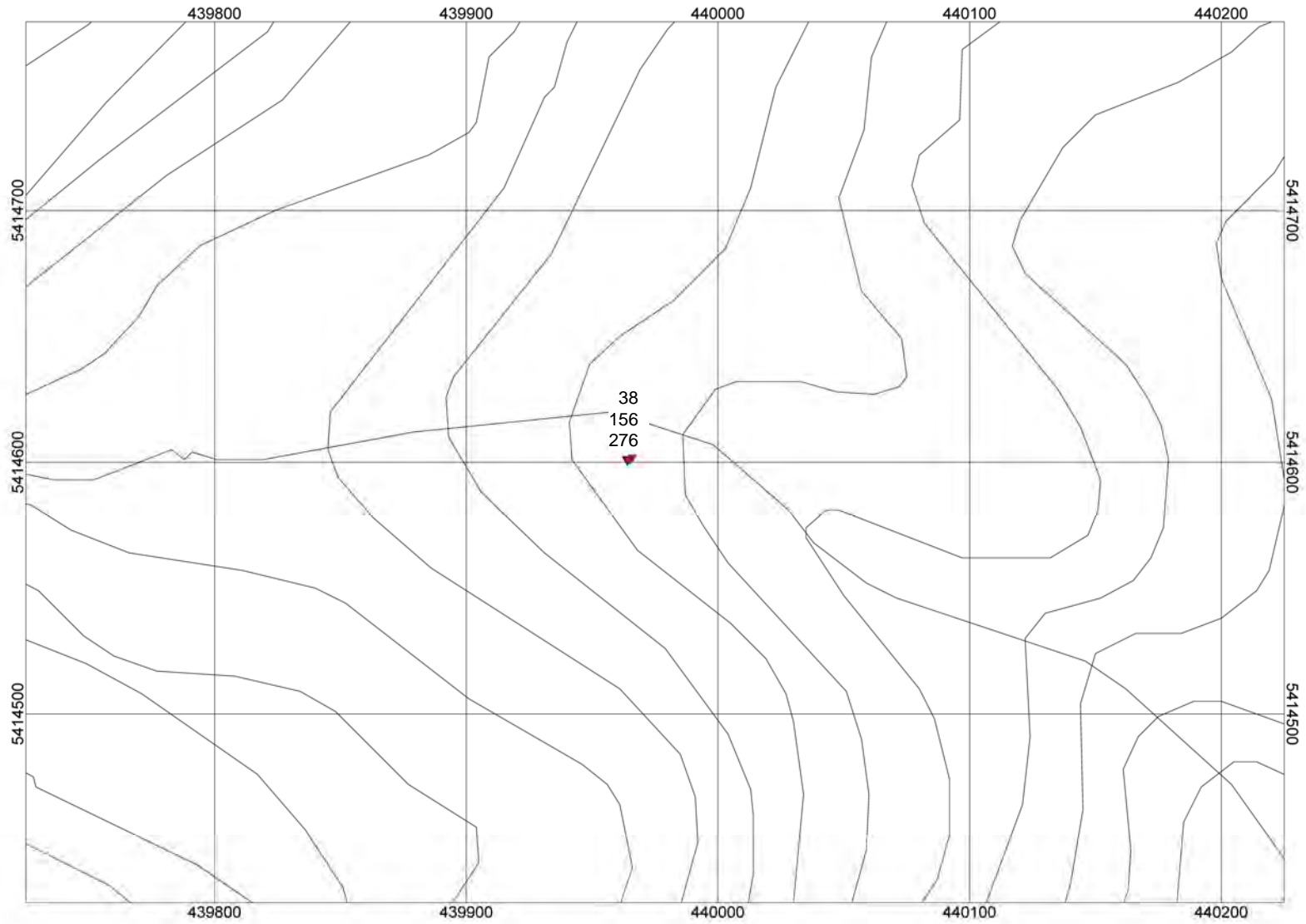
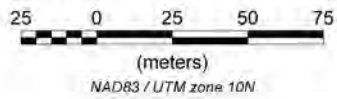


Figure 17

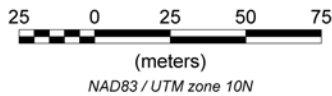
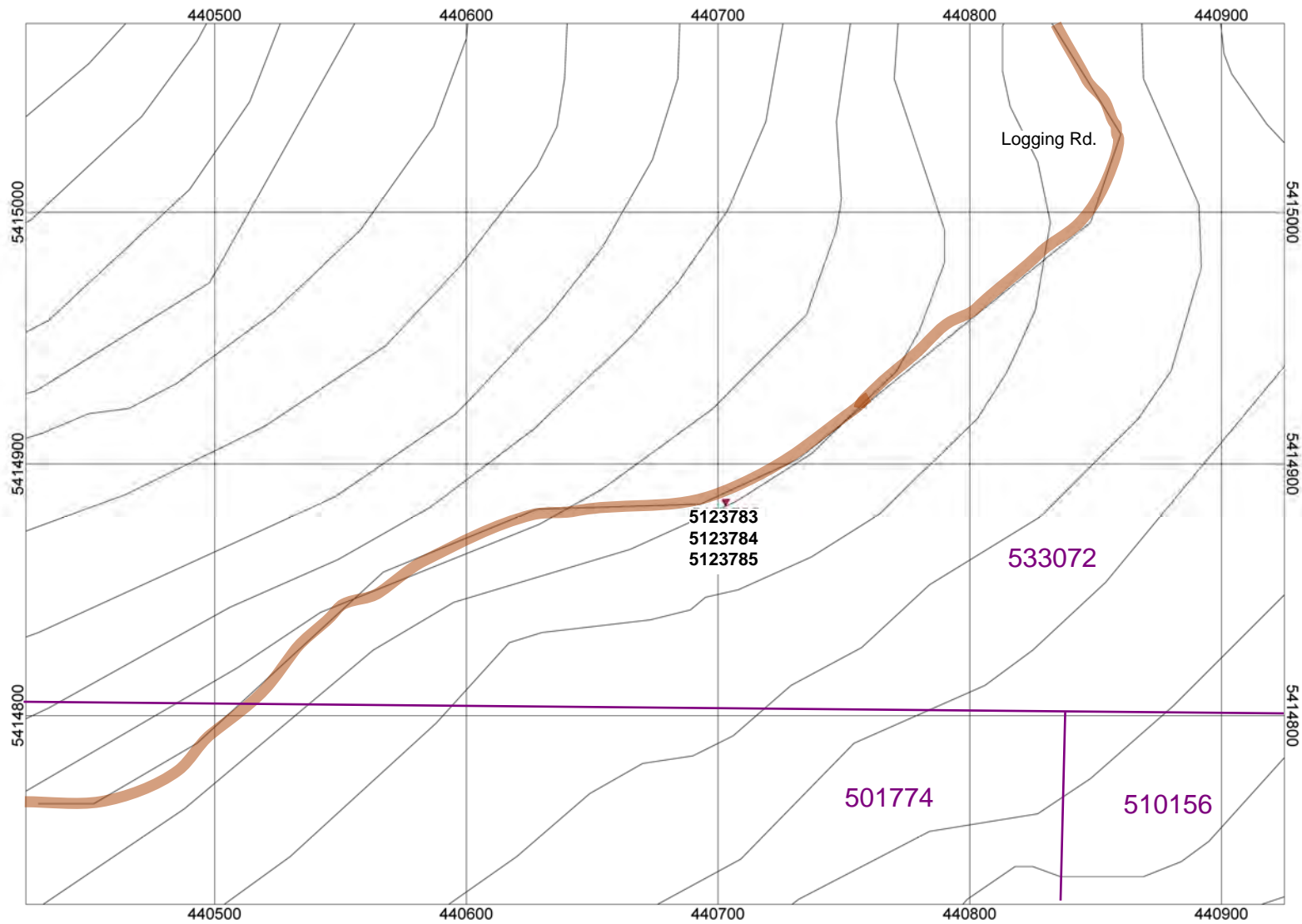


Mt. Sicker Property
Mildred Area
2013 Sample Locations

Zn ppm in Rocks

- ▼ 250
- 150
- 50

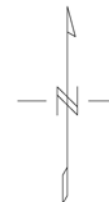




▼ Rock Sample Location & No.

Mt. Sicker Property
 Rose Area
 2013 Sample Locations

Figure 18



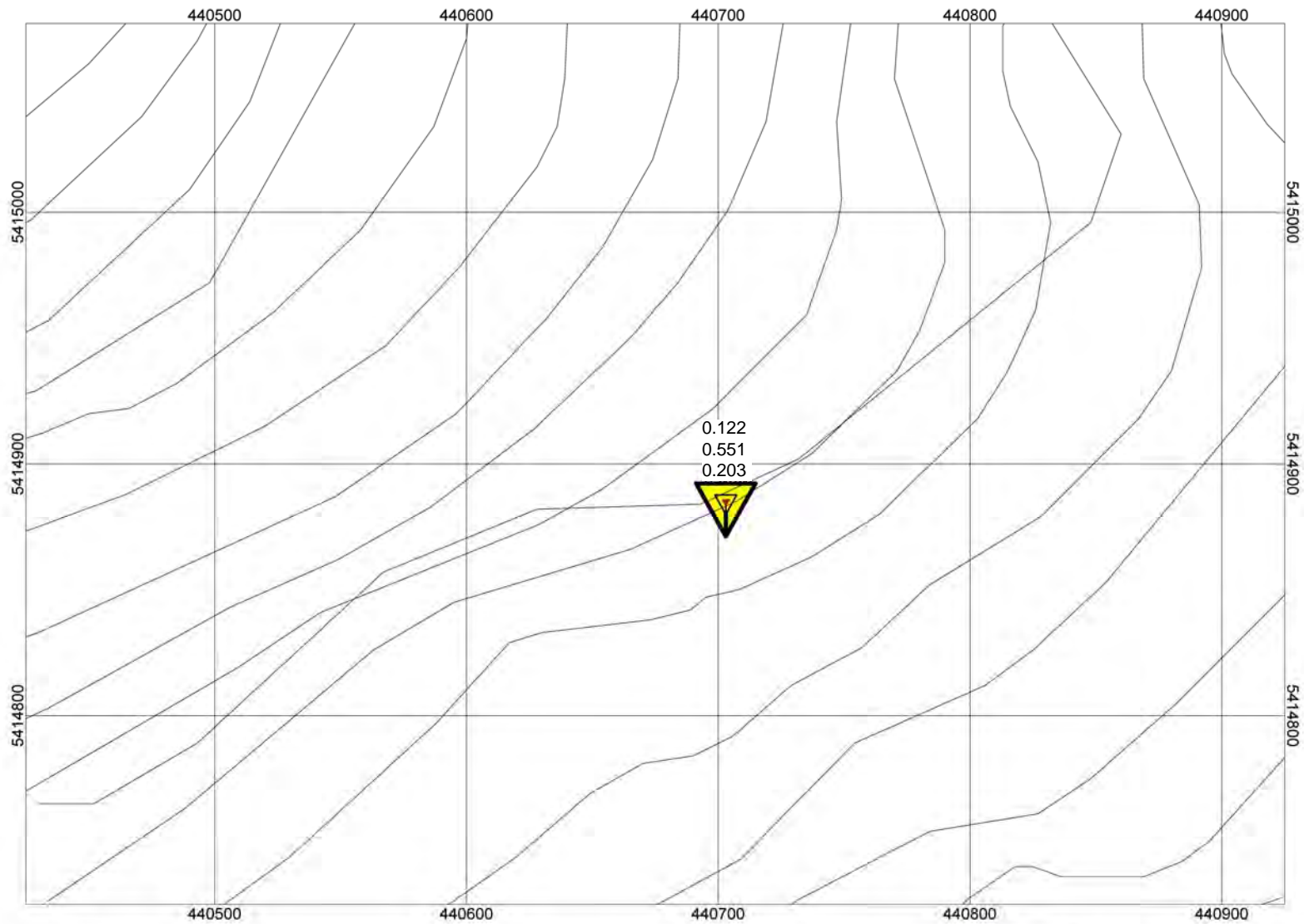
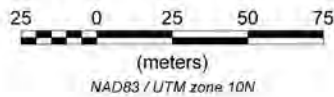
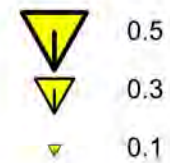


Figure 19



Mt. Sicker Property
 Rose Area
 2013 Sample Locations

Au ppm in Rocks



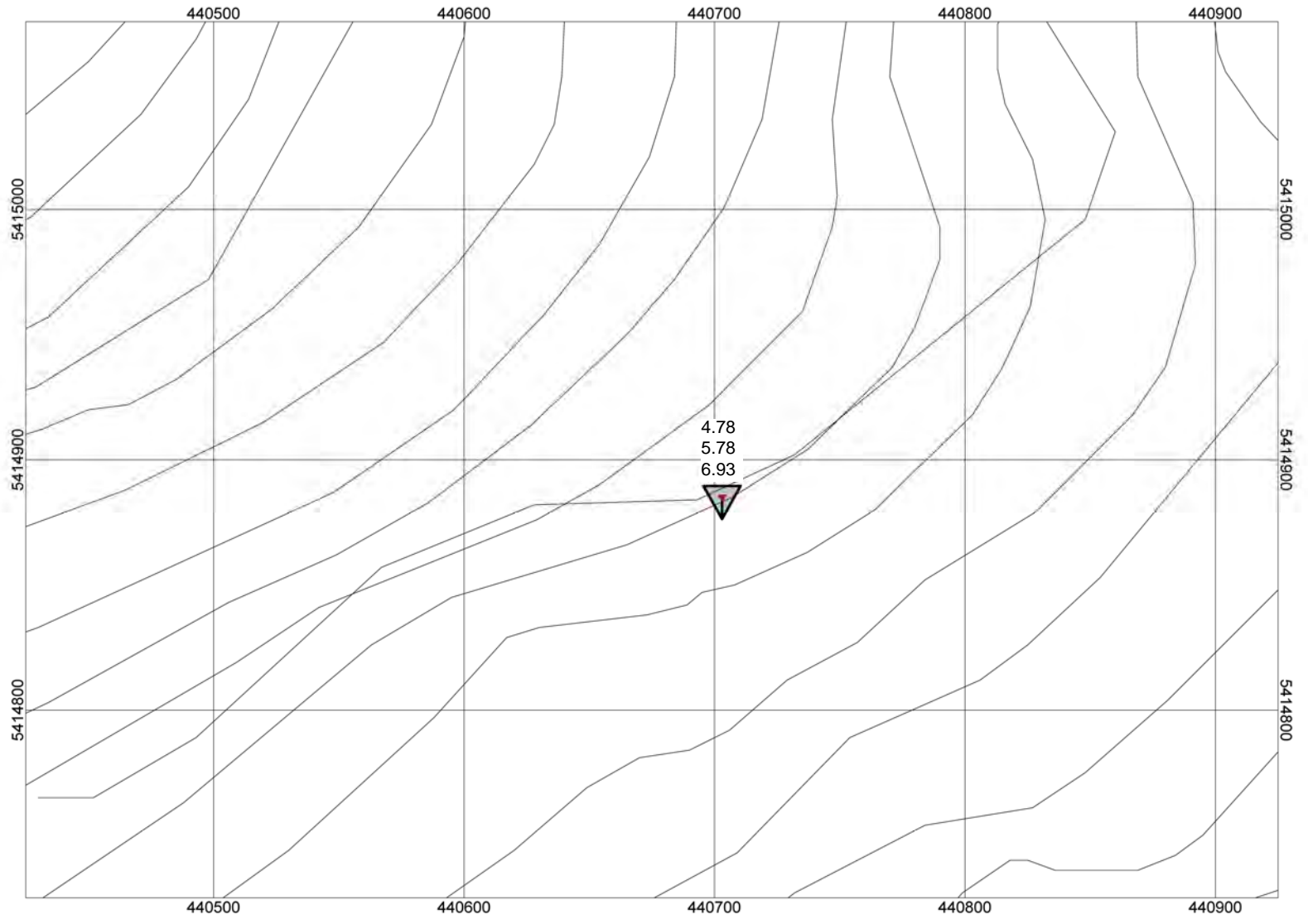
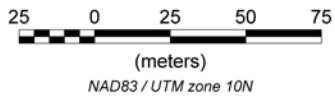


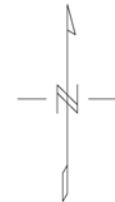
Figure 20



Mt. Sicker Property
 Rose Area
 2013 Sample Locations

Ag ppm in Rocks

- ▼ 7.5
- ▼ 4.5
- ▼ 1.5



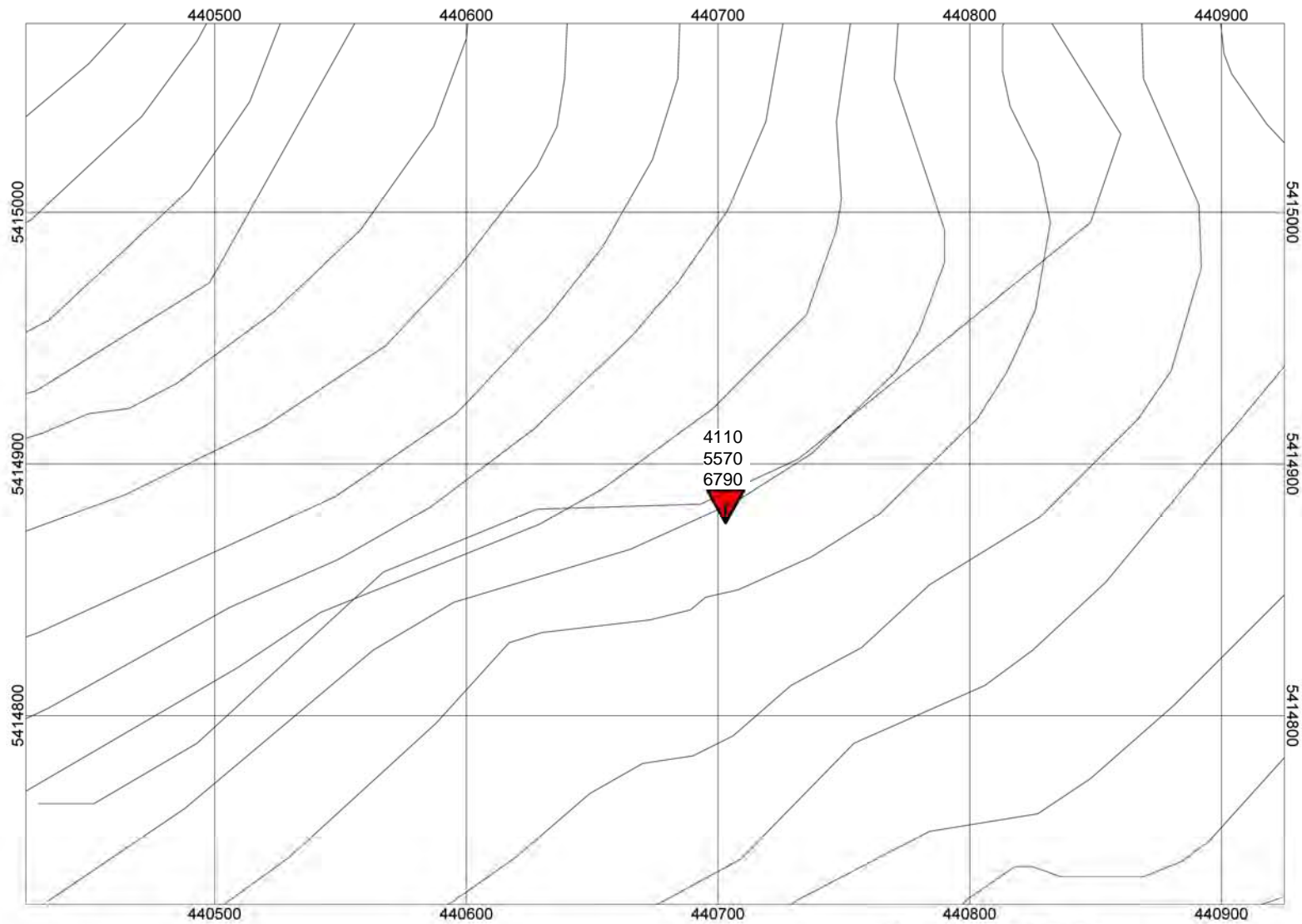
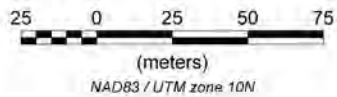


Figure 21



Mt. Sicker Property
 Rose Area
 2013 Sample Locations

Cu ppm in Rocks



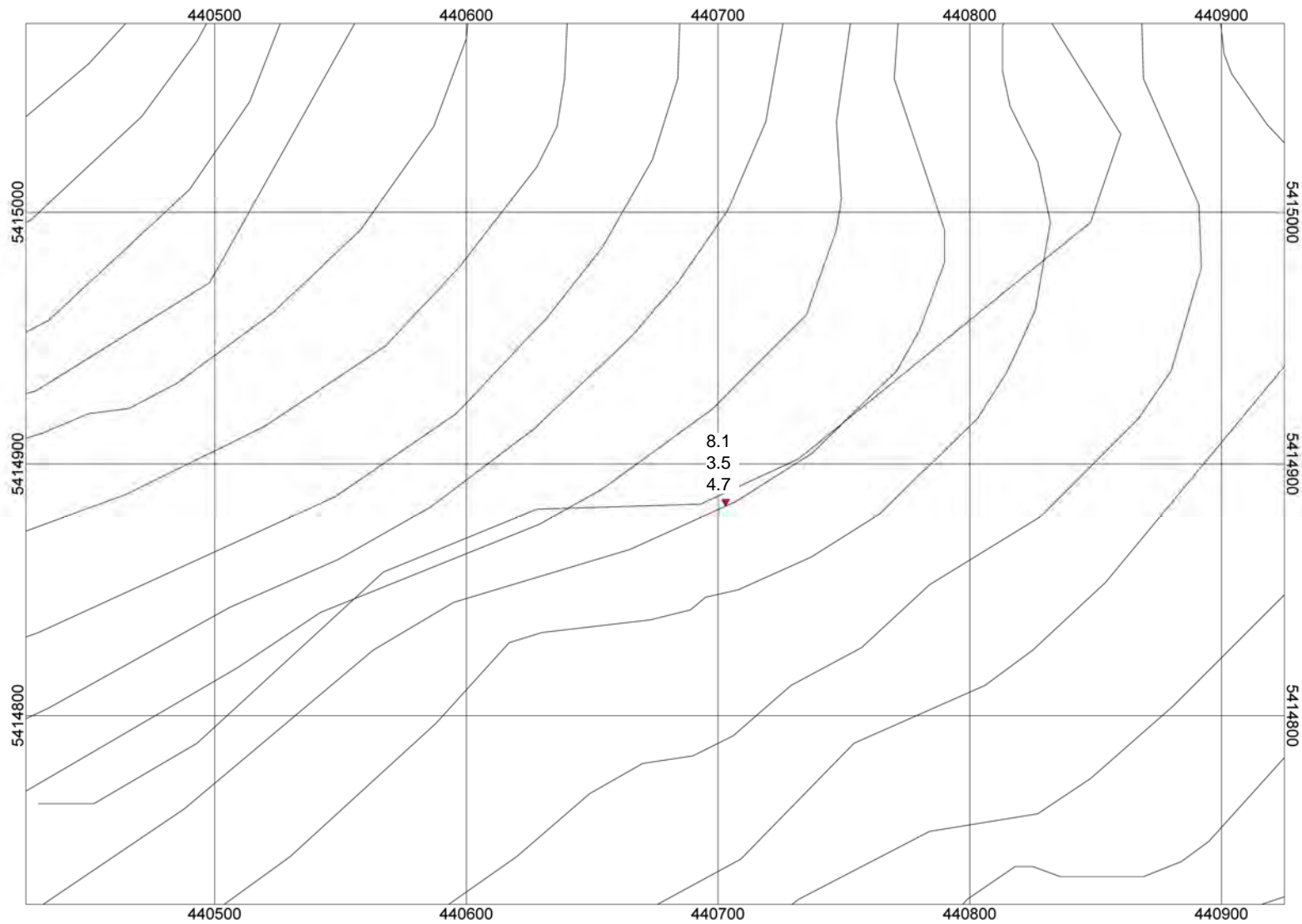
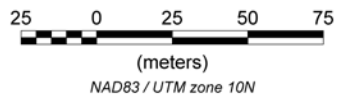
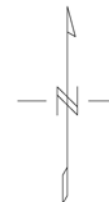


Figure 22



Mt. Sicker Property
Rose Area
2013 Sample Locations

Pb ppm in Rocks
 · 10
 · 6
 · 2



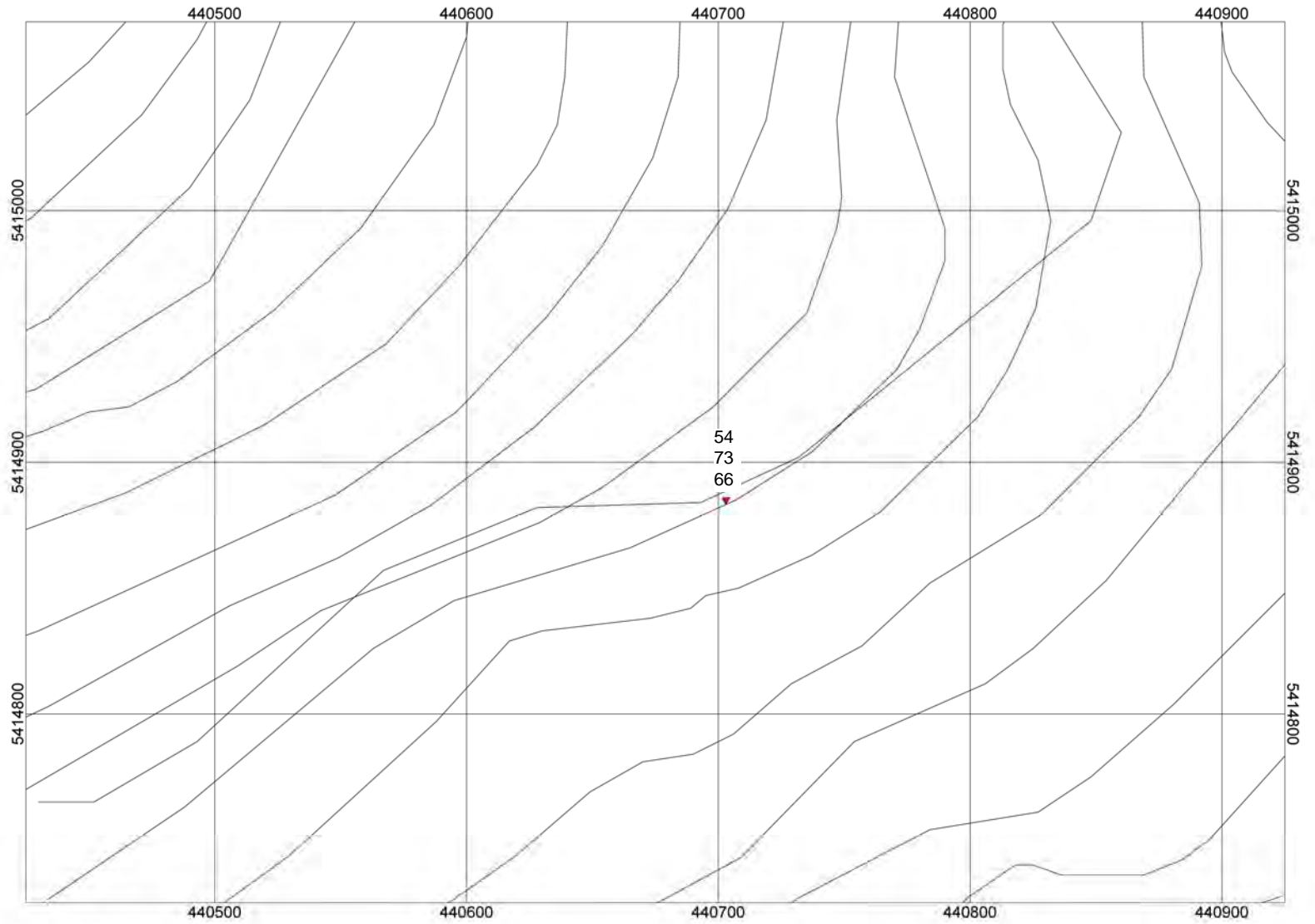
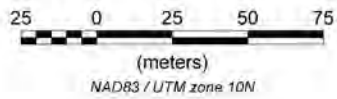


Figure 23



Mt. Sicker Property
 Rose Area
 2013 Sample Locations

Zn ppm in Rocks
 75
 45
 15



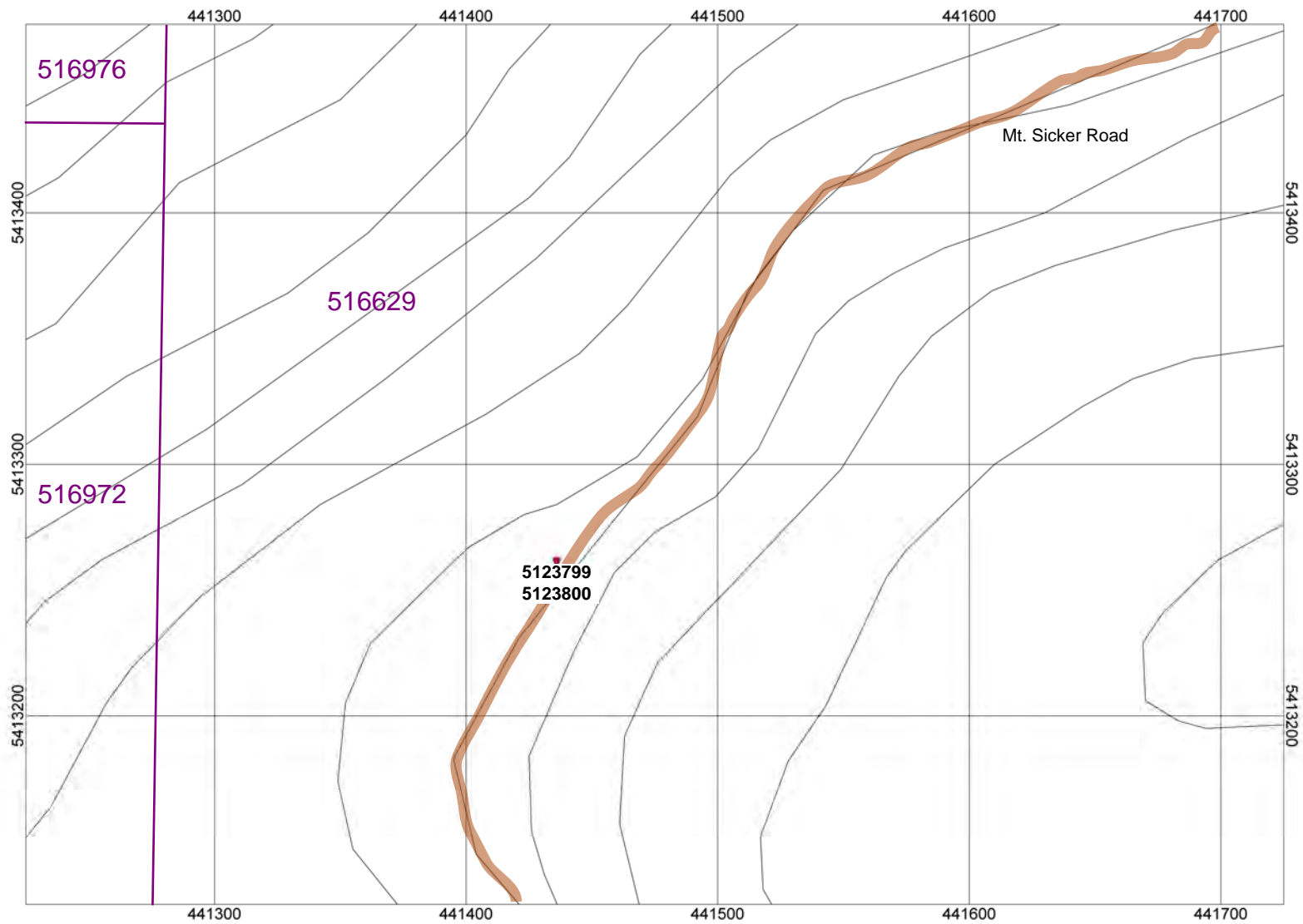
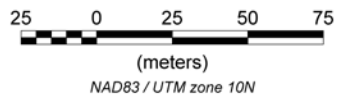
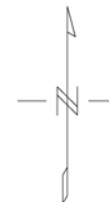


Figure 24



▼ Rock Sample
Location & No.

Mt. Sicker Property
Key City Area
2013 Sample Locations



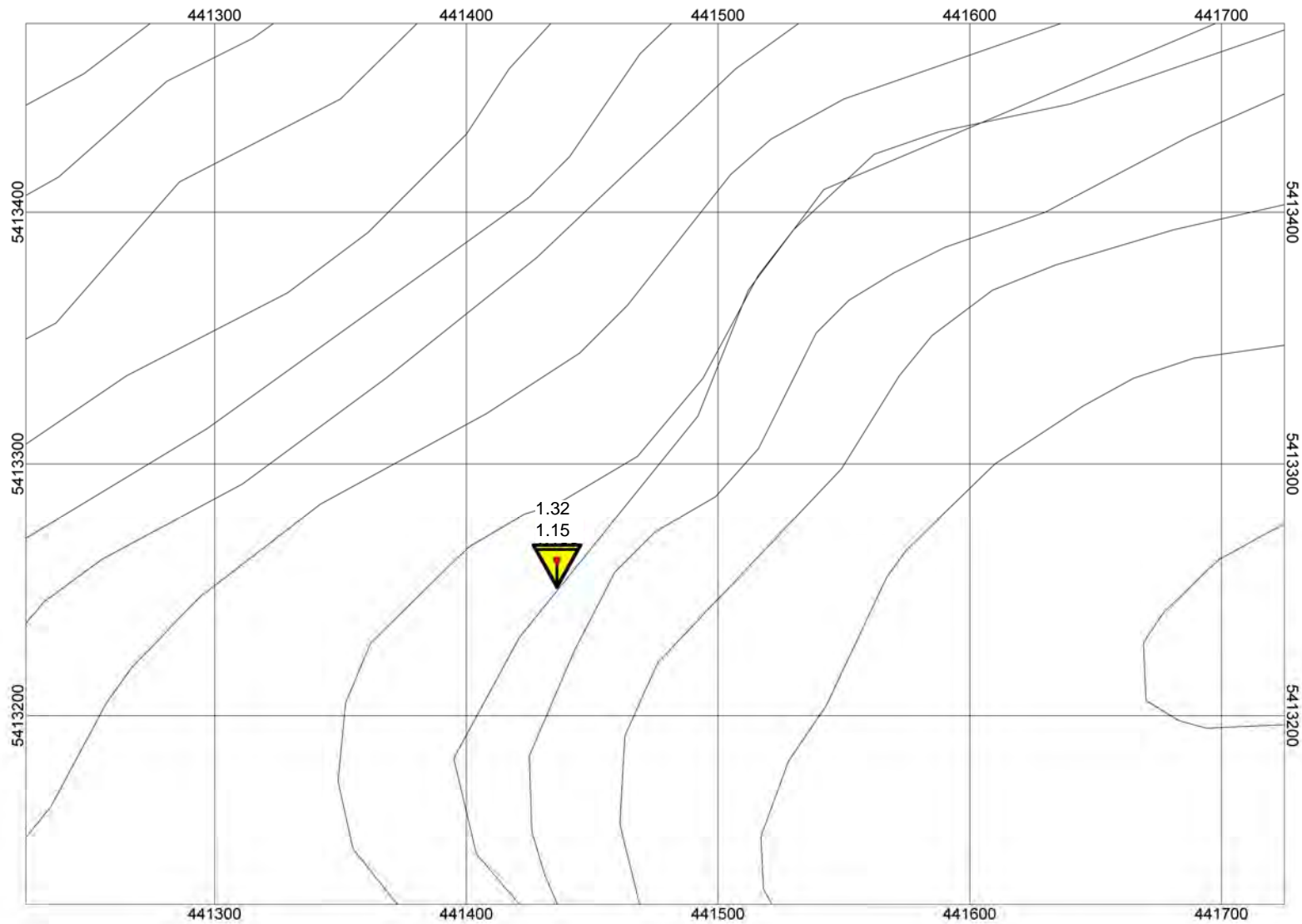
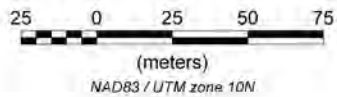


Figure 25



Mt. Sicker Property
 Key City Area
 2013 Sample Locations

Au ppm in Rocks



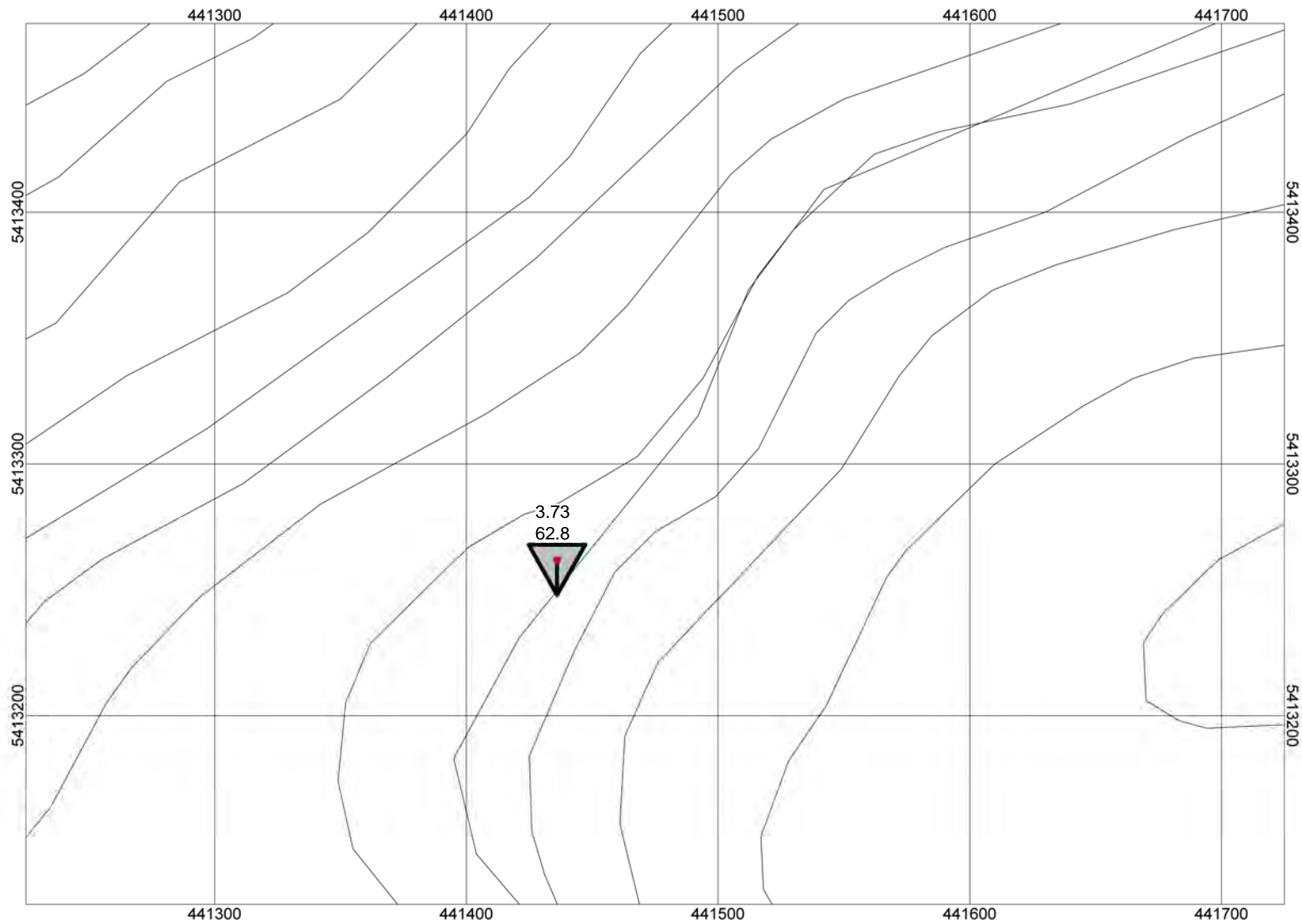
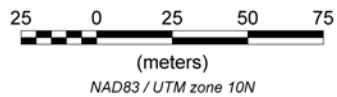
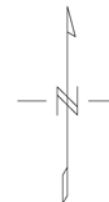


Figure 26



Mt. Sicker Property
Key City Area
2013 Sample Locations



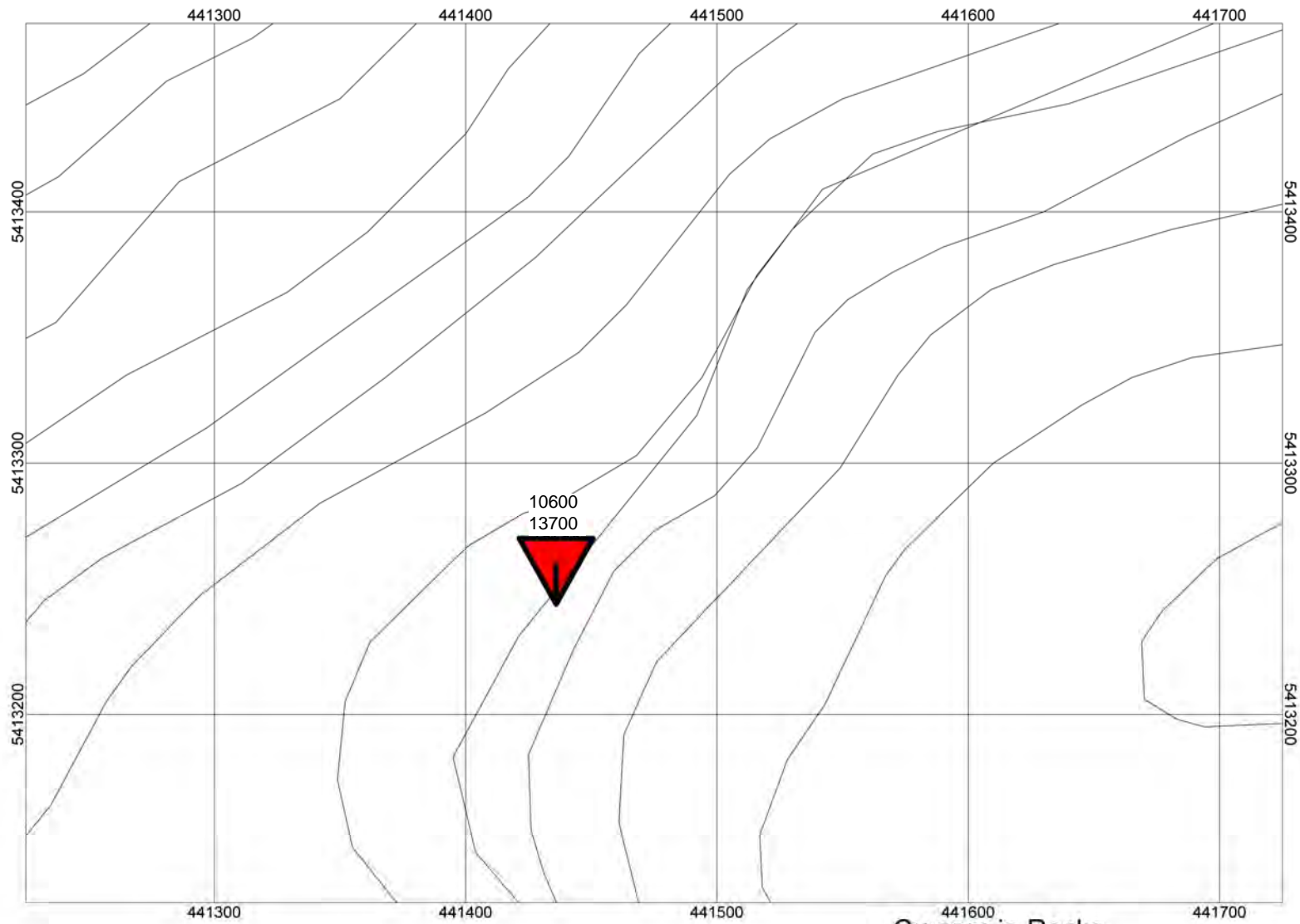
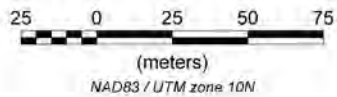
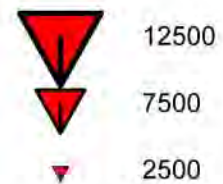


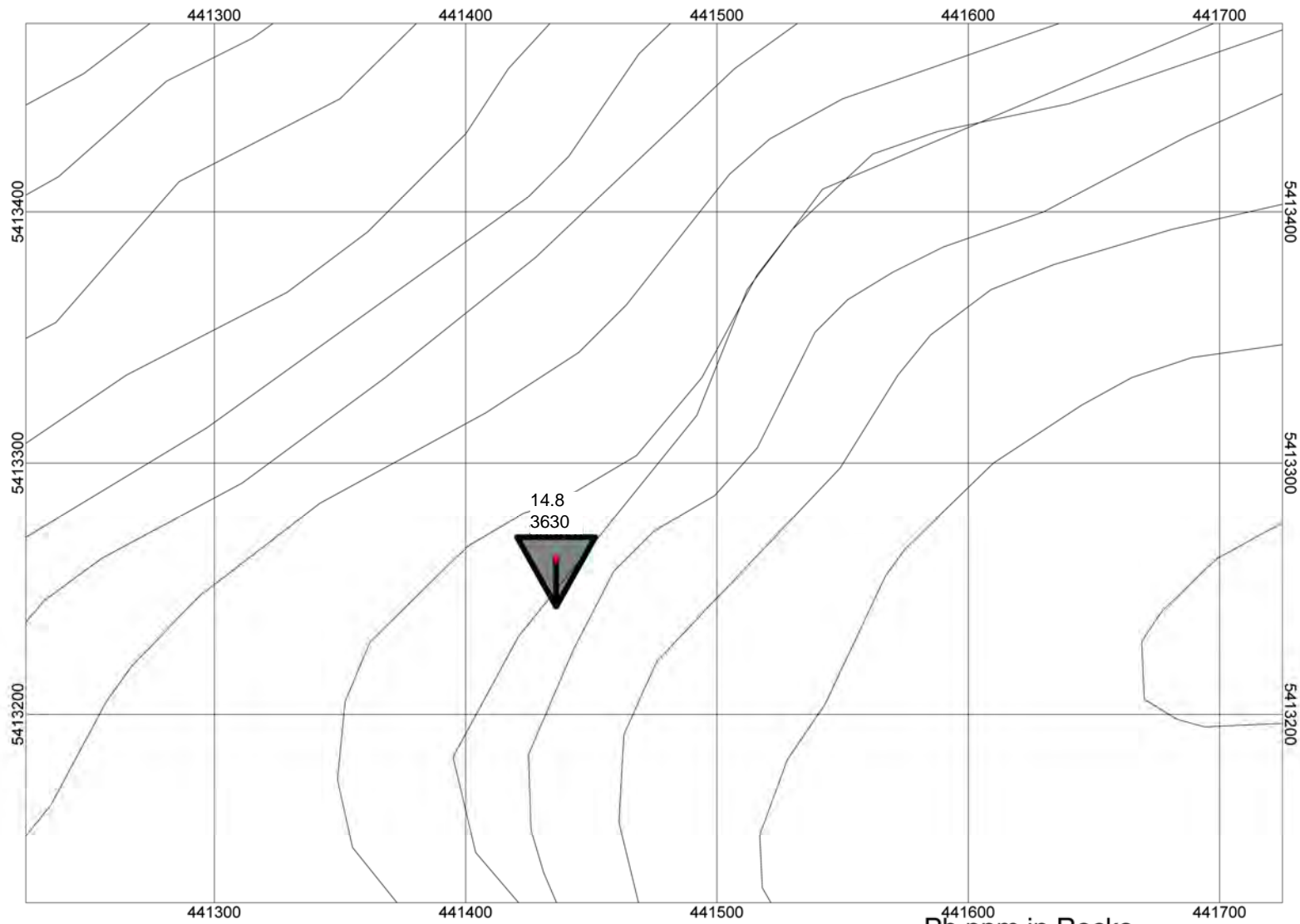
Figure 27



Mt. Sicker Property
Key City Area
2013 Sample Locations

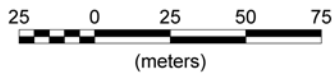
Cu ppm in Rocks





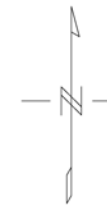
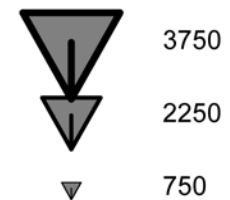
Pb ppm in Rocks

Figure 28



(meters)
NAD83 / UTM zone 10N

Mt. Sicker Property
Key City Area
2013 Sample Locations



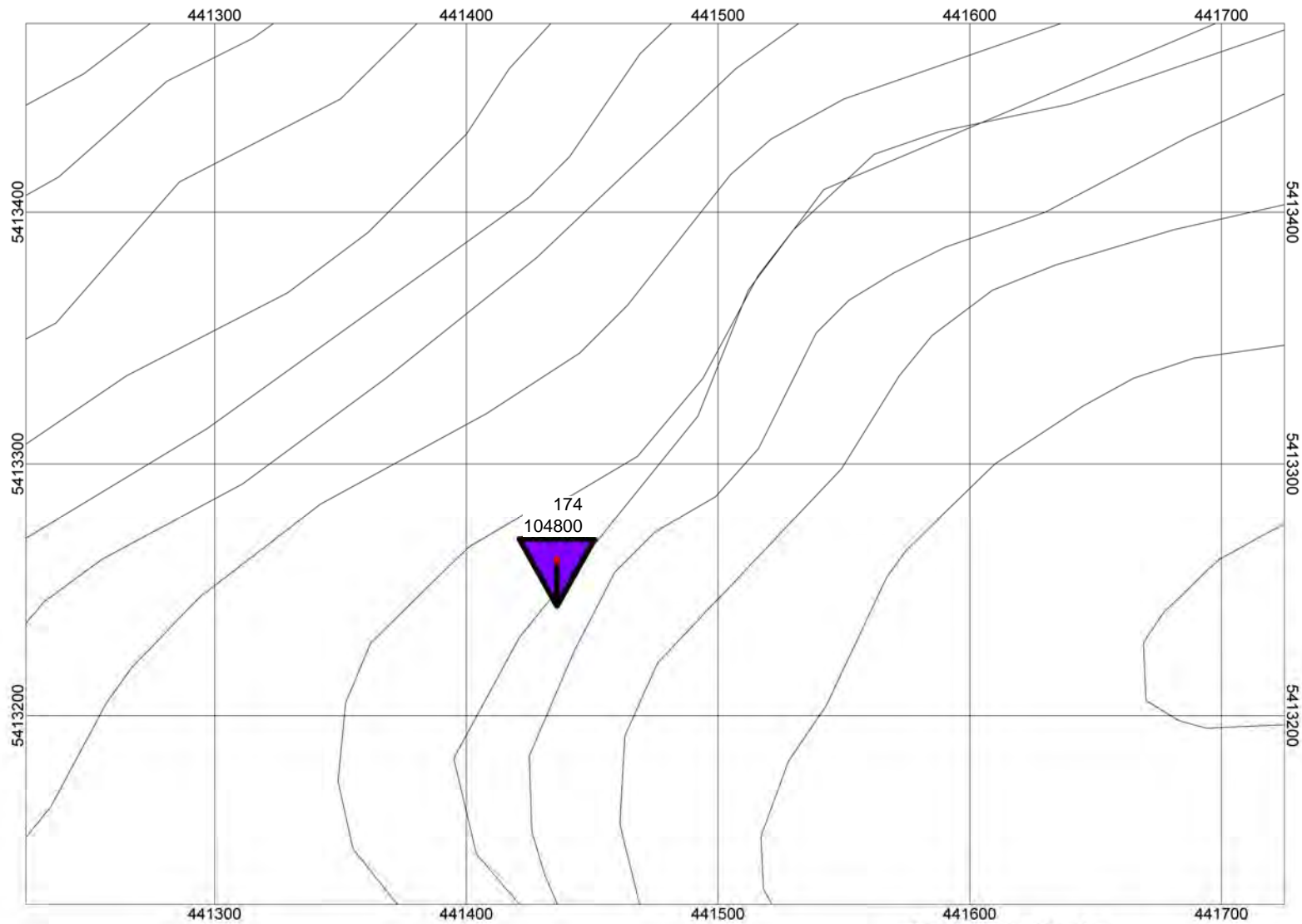
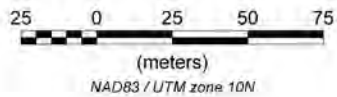
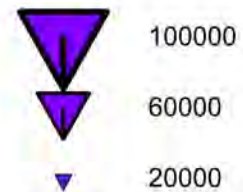


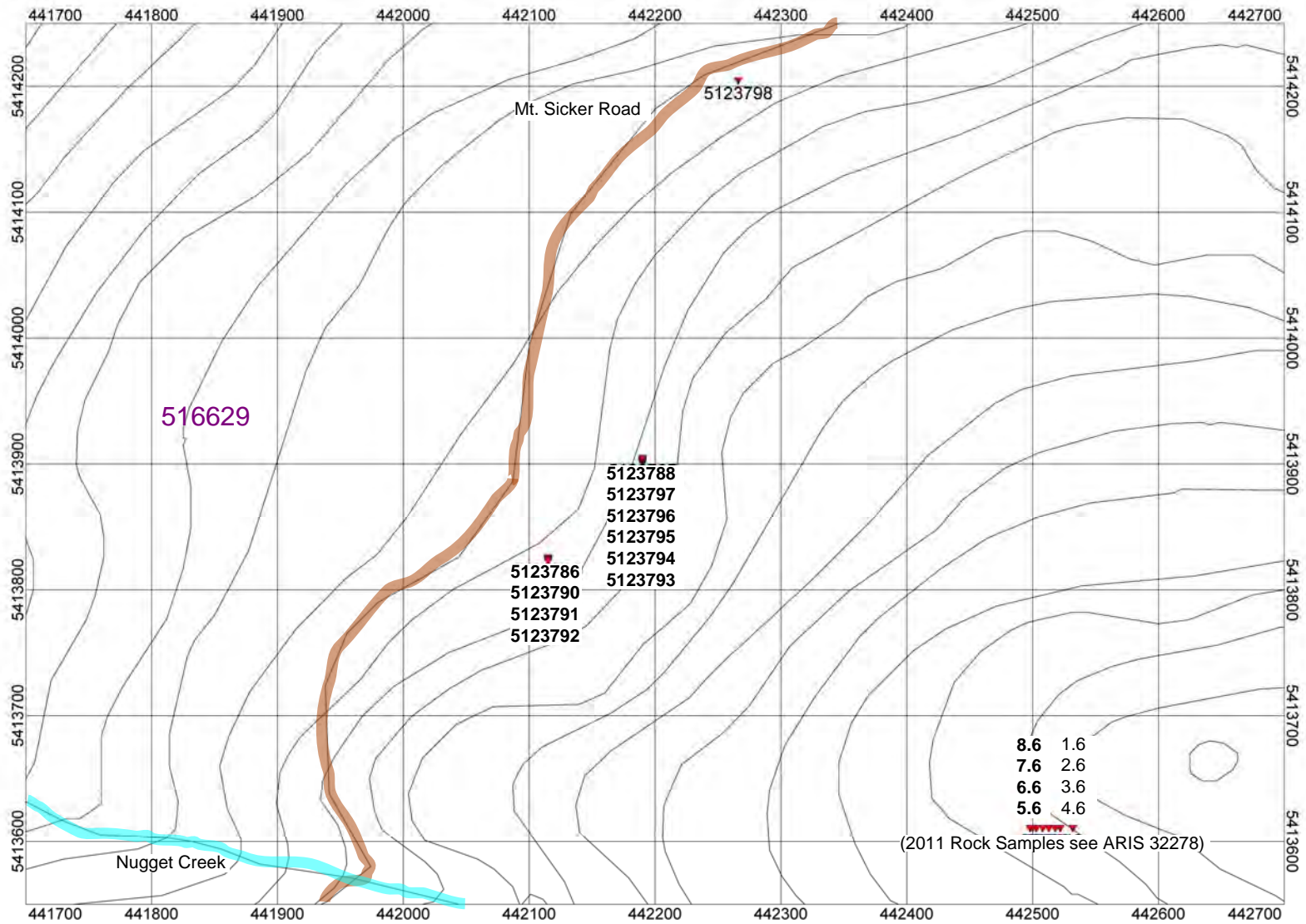
Figure 29



Mt. Sicker Property
Key City Area
2013 Sample Locations

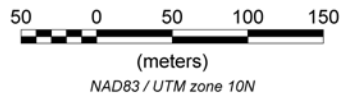
Zn ppm in Rocks



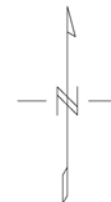


Mt. Sicker Property
 Belle & Queen Bee Area
 2013 Sample Locations

Figure 30



▼ Rock Sample Location & No.



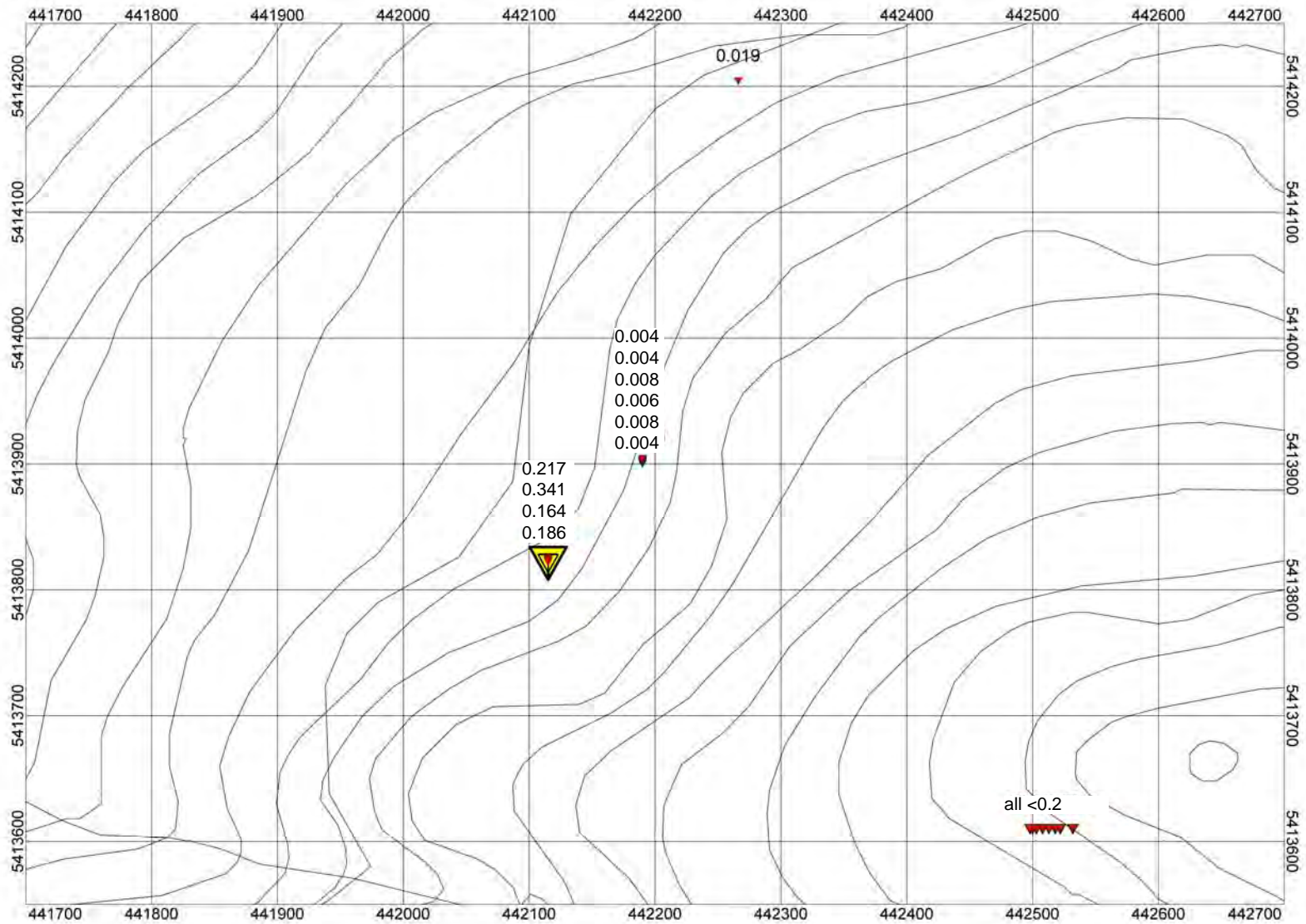
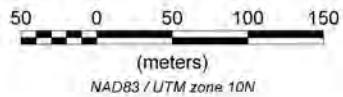


Figure 31



Mt. Sicker Property
 Belle & Queen Bee Area
 2013 Sample Locations

Au ppm in Rocks



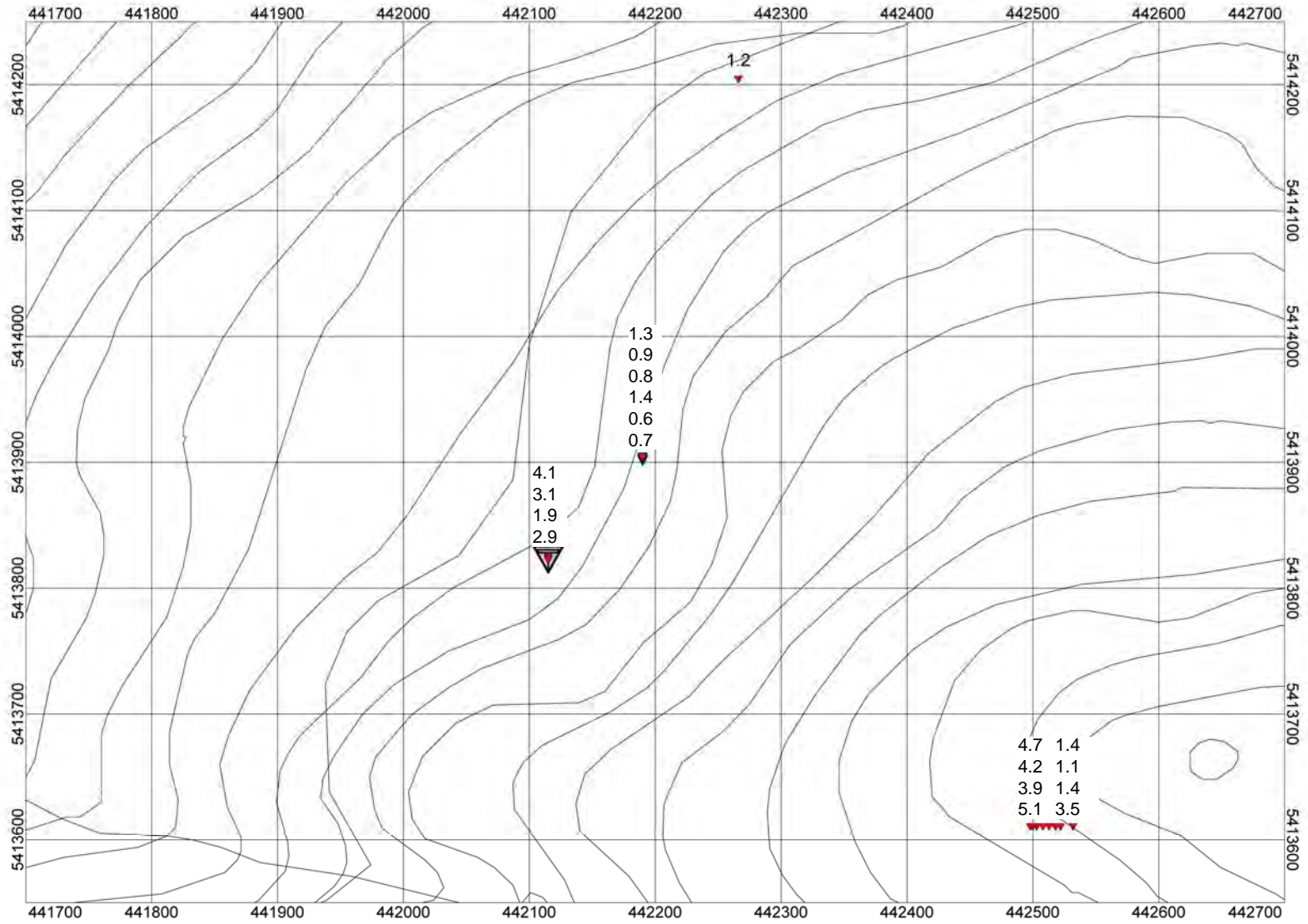
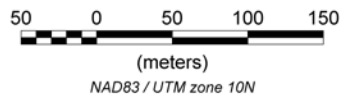





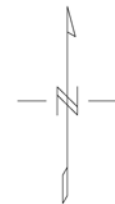
Figure 32



Mt. Sicker Property
 Belle & Queen Bee Area
 2013 Sample Locations

Ag ppm in Rocks

-  5
-  3
-  1



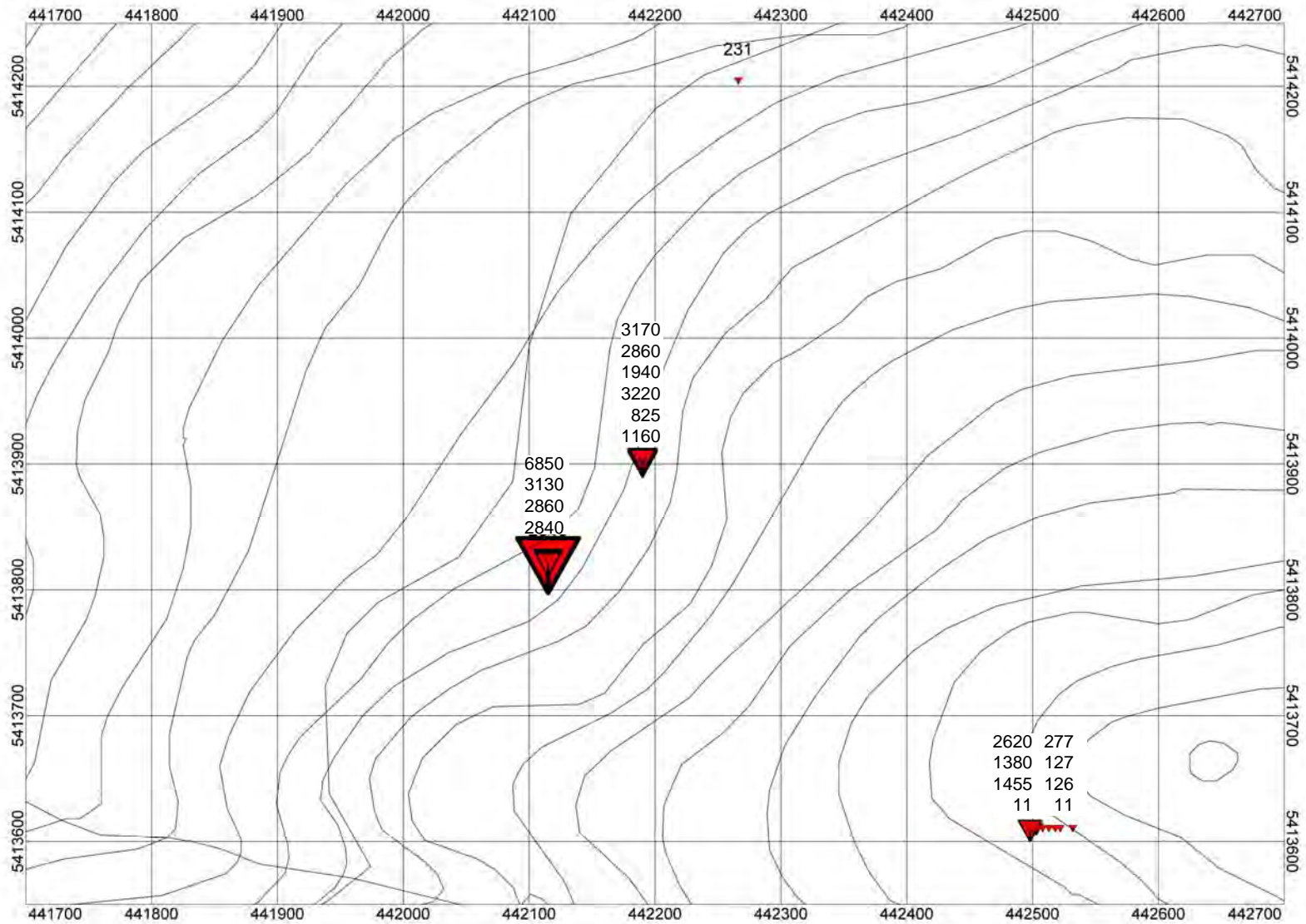
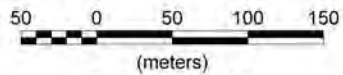


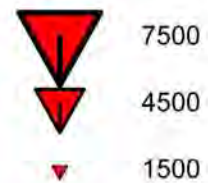
Figure 33



NAD83 / UTM zone 10N

Mt. Sicker Property
 Belle & Queen Bee Area
 2013 Sample Locations

Cu ppm in Rocks



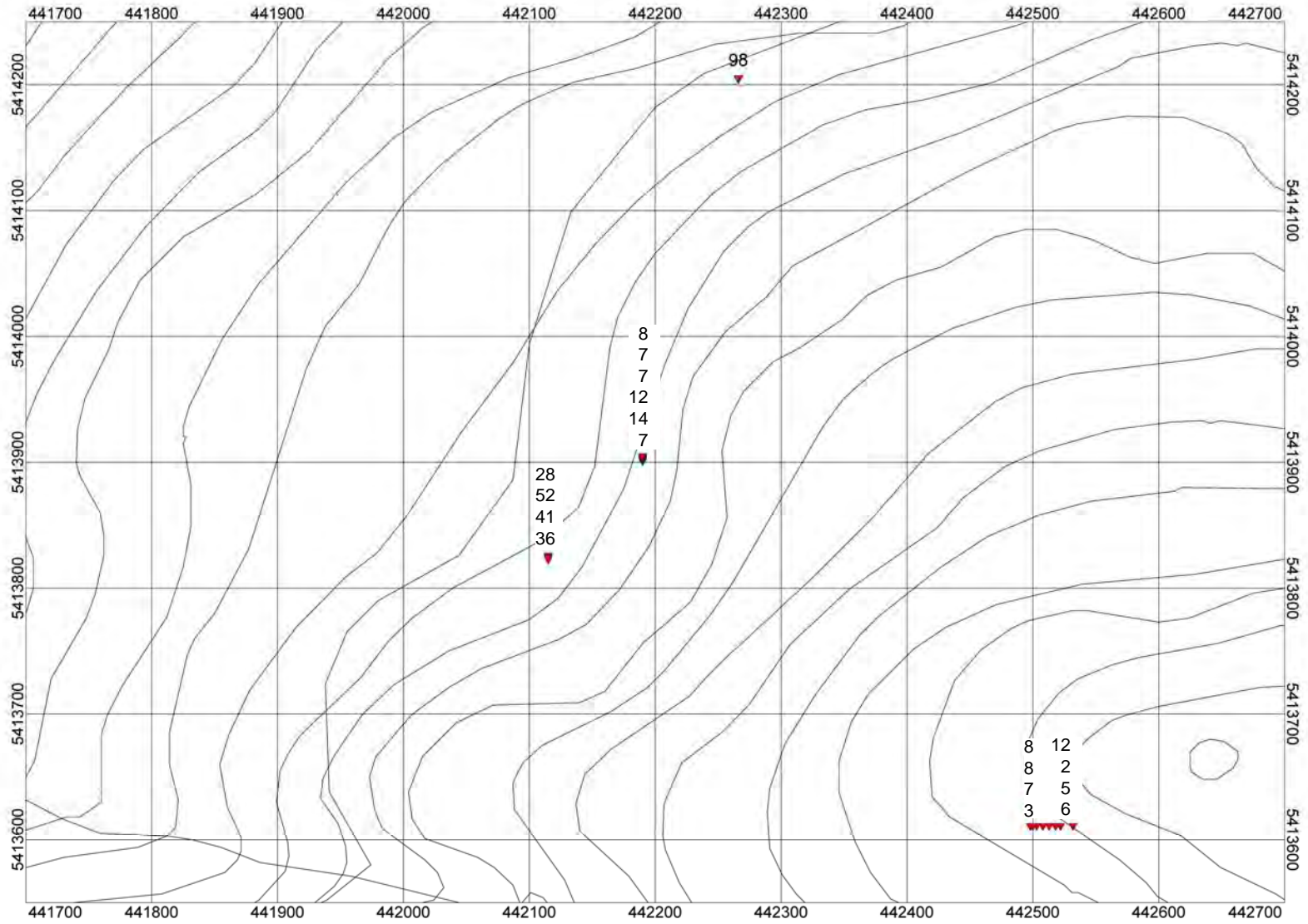
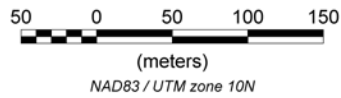
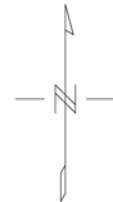


Figure 34



Mt. Sicker Property
 Belle & Queen Bee Area
 2013 Sample Locations

Pb ppm in Rocks
 ▼ 100
 ▼ 60
 · 20



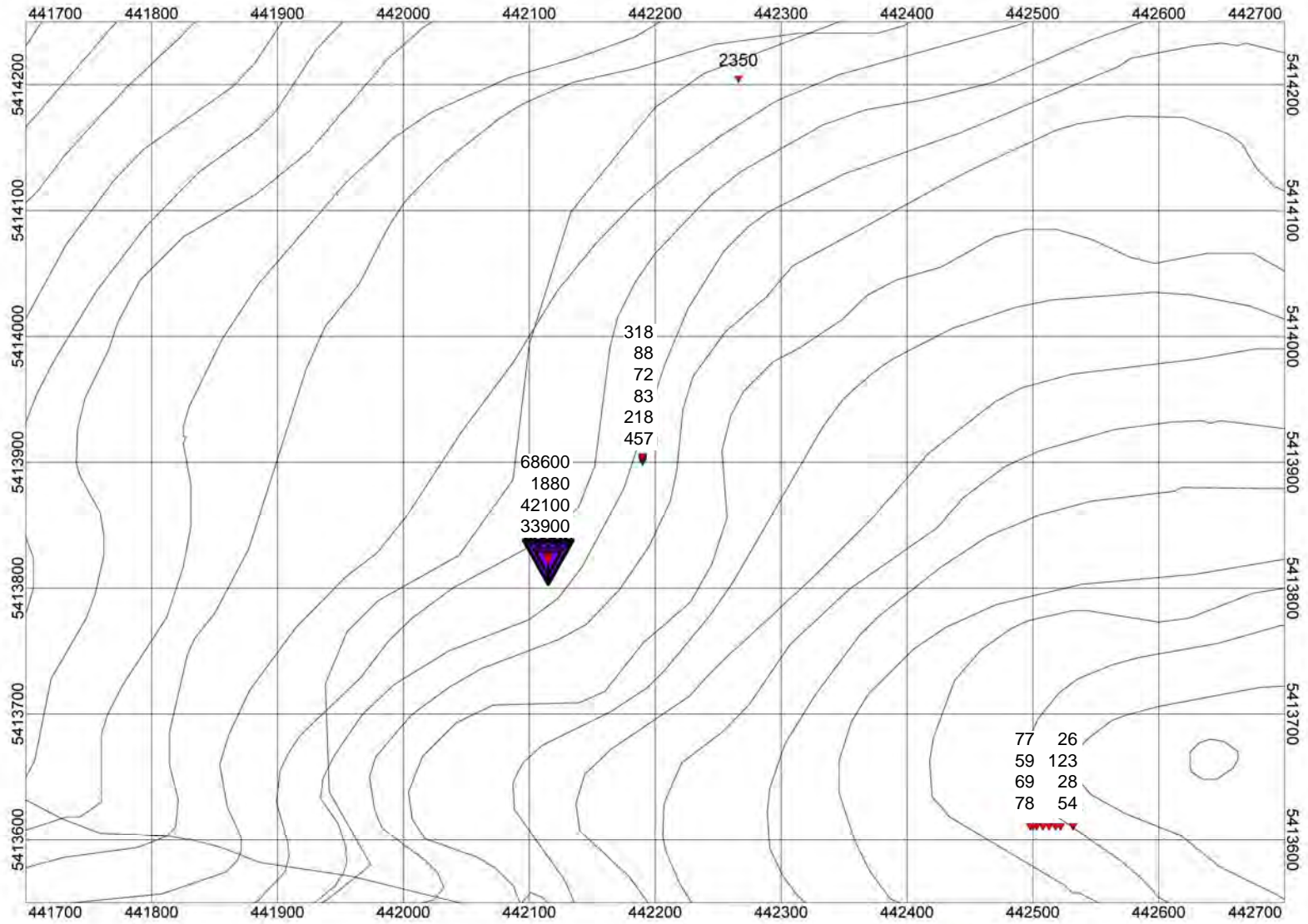
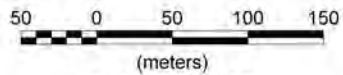


Figure 35



NAD83 / UTM zone 10N

Mt. Sicker Property
 Belle & Queen Bee Area
 2013 Sample Locations

Zn ppm in Rocks



Appendix 1
Sample Data

2010-2013 GPS Locations for Rock-Con Properties

Waypoint	Date	Taken By	Property	Location	Details	UTM Zone	Easting	Northing	Elevation
Copper Canyon Adit #1	24-Jun-11	Jacques	Mt. Sicker			10N	440548	5413003	142
Copper Canyon Shaft	24-Jun-11	Jacques	Mt. Sicker			10N	440514	5413016	154
Key City Shaft	24-Jun-11	Jacques	Mt. Sicker			10N	441523	5412768	386
Lenora Adit #3	24-Jun-11	Jacques	Mt. Sicker			10N	441980	5412927	423
Lenora Adit #2	24-Jun-11	Jacques	Mt. Sicker			10N	442033	5412885	433
Lenora Adit S Xcut	24-Jun-11	Jacques	Mt. Sicker			10N	442047	5412847	449
Lenora Pit	24-Jun-11	Jacques	Mt. Sicker			10N	442039	5412827	447
Lenora Small Shaft	24-Jun-11	Jacques	Mt. Sicker			10N	441775	5412770	401
Richard 3 Shaft	24-Jun-11	Jacques	Mt. Sicker			10N	442616	5412760	599
Twin J Millsite	24-Jun-11	Jacques	Mt. Sicker	15 x 15 m. concrete foundations		10N	441758	5412795	399
Twin J Tailings Pond	24-Jun-11	Jacques	Mt. Sicker	50 x 75 m. failed pond at least 2 m. deep		10N	441655	5412656	388
Tyee Shaft #1	24-Jun-11	Jacques	Mt. Sicker			10N	442321	5412810	526
Tyee Shaft #2	24-Jun-11	Jacques	Mt. Sicker			10N	442272	5412800	516
Tyee/Lenora Shaft ?	24-Jun-11	Jacques	Mt. Sicker			10N	442141	5412809	478

2010-2013 Rock Sample Locations for Rock-Con Properties

Sample #	Date	Sampler	Property	Location	Details	UTM Zone	Easting	Northing	Elevation
5.2	10-Oct-10	Brant & Harry	Mt.Sicker	Copper Canyon adit	Mouth of adit	10N	440527	5413038	
6.2	10-Oct-10	Brant & Harry	Mt.Sicker	Down stream from Copper Canyon adit	Quartz vien at river	10N	440527	5413040	
1.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442056	5412829	
2.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442056	5412826	
3.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442060	5412831	
4.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442062	5412831	
5.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442064	5412829	
6.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442066	5412829	
7.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442065	5412829	
8.3	14-Nov-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442067	5412829	
1.4	5-Dec-10	Brant & Harry	Mt.Sicker	Lenora adit	chip sample from 15 feet in Graphite Schist Lenora adit	10N	442041	5412848	
2.4	5-Dec-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample from the road at the end of Lenora pit	10N	442041	5412844	
3.4	5-Dec-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample from the road at the end of Lenora pit	10N	442043	5412844	
4.4	5-Dec-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442065	5412824	
5.4	5-Dec-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442073	5412824	
6.4	5-Dec-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442073	5412824	
7.4	5-Dec-10	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip samples across 6 meters 25 meters	10N	442076	5412824	
8.4	5-Dec-10	Brant & Harry	Mt.Sicker	Copper Canyon adit entrance	Mouth of adit chip from 1.5 ft across east side Quartz vien	10N	440527	5413038	
9.4	5-Dec-10	Brant & Harry	Mt.Sicker	Copper Canyon adit entrance	Mouth of adit chip from 1.5 ft across Quartz west side vien	10N	440527	5413038	
1.5	11-Dec-10	Brant & Harry	Mt.Sicker	Victoria 1 adit entrance	Mouth of adit chip from 2 ft across from 8 ft mineralized zone	10N	440537	5413038	
2.5	11-Dec-10	Brant & Harry	Mt.Sicker	Victoria 1 adit entrance	Mouth of adit chip from 2 to 4 ft across from 8 ft mineralized zone	10N	440536	5413038	
3.5	11-Dec-10	Brant & Harry	Mt.Sicker	Victoria 2 tailings at entrance	Mouth of adit tailing pile	10N	440536	5413038	
4.5	11-Dec-10	Brant & Harry	Mt.Sicker	Victoria 1 adit entrance	Mouth of adit chip from 4 to 6 ft across from 8 ft mineralized zone	10N	440536	5413038	
5.5	11-Dec-10	Brant & Harry	Mt.Sicker	Near Victoria adit	chip from Quartz vien near river	10N	440546	5413068	
6.5	11-Dec-10	Brant & Harry	Mt.Sicker	down stream from Victoria adit	chip from Quartz vien near river	10N	440562	5413075	
7.5	11-Dec-10	Brant & Harry	Mt.Sicker	down stream from Victoria adit	chip from Quartz vien near river	10N	440562	5413074	
1.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	from inside adit 5 m. into adit	10N	442513	5413611	
2.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	from inside adit 10 m. into adit	10N	442518	5413611	
3.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	from inside adit 14 m. into adit	10N	442522	5413611	
4.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	from inside adit 24 m. into adit	10N	442532	5413611	
5.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	from inside adit	10N	442508	5413611	
6.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	tailings 5 m. west of adit portal	10N	442503	5413611	
7.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	tailings from lower side of railway grade - below adit portal	10N	442500	5413611	
8.6	5-Feb-11	Brant & Harry	Mt.Sicker	Queen Bee adit area	tailings same as 8.7 - 10 m. west	10N	442498	5413611	
1.8	21-Mar-11	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample of quartz to grey felsic rock	10N	442033	5412835	
2.8	21-Mar-11	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample of grey felsic rock to quartz	10N	442033	5412835	
3.8	21-Mar-11	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample of grey felsic 1m from sample 8.2	10N	442034	5412835	
4.8	21-Mar-11	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample from 6 " quartz vein	10N	442053	5412832	455
5.8	21-Mar-11	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample from quartz vein	10N	442064	5412835	462
6.8	21-Mar-11	Brant & Harry	Mt.Sicker	Mt Sicker Lenora pit.near adit	chip sample from 1' vein	10N	442064	5412835	462
7.8	21-Mar-11	Brant & Harry	Mt.Sicker	on road near Lenora pit	chip sample from grey felsic contact to quartz	10N	442080	5412822	469
8.8	21-Mar-11	Brant & Harry	Mt.Sicker	on road near Lenora pit	chip sample from quartz contact to grey felsic	10N	442080	5412822	469
1.9	24-Mar-11	Brant & Harry	Mt.Sicker	tailings - green water adit. Lenora #2 adit	tailings. grab sample	10N	442029	5412888	437
2.9	24-Mar-11	Brant & Harry	Mt.Sicker	green water adit. Lenora #2 adit	grab sample from adit entrance	10N	442029	5412888	437
3.9	24-Mar-11	Brant & Harry	Mt.Sicker	grey felsic outcrop- on road	rock chip sample from outcrop on road	10N	442076	5412824	469
4.9	24-Mar-11	Brant & Harry	Mt.Sicker	tailings green water adit. Lenora #2 adit	tailings grab sample	10N	442029	5412888	437
19052	24-Jun-11	A. BURGERT	Mt.Sicker	Twin J. Tailings Dam approximately 50 x 75 m. in area	Representative chip 1.65 m. vertical through tailings profile near centre of dam	10N	441661	5412654	385
E5123781	19-Nov-13	Brant Bryan P.	Mt.Sicker	Holly Oak creek 50m above creek west side	Grab sample from Quartz sericite schist 30m width? near contact to chloritic schist	10N	439965	5414601	498
E5123782	19-Nov-13	Brant Bryan P.	Mt.Sicker	Holly Oak creek 50m above creek west side	Grab sample from Quartz sericite schist 30m width? near contact to chloritic schist	10N	439966	5414602	498
E5123783	19-Nov-13	Brant Bryan P.	Mt.Sicker	Near Mildred claim north side of road cut	Grab sample from Quartz W 0.5m in chloritic schist from hang wall	10N	440703	5414885	395
E5123784	19-Nov-13	Brant Bryan P.	Mt.Sicker	Near Mildred claim north side of road cut	Grab sample from Quartz vien W 0.5m in chloritic schist from center	10N	440703	5414885	395
E5123785	19-Nov-13	Brant Bryan P.	Mt.Sicker	Near Mildred claim north side of road cut	Grab sample from Quartz vien W 0.5m in chloritic schist from foot wall	10N	440703	5414885	395
E5123786	7-Nov-13	Brant Bryan P.	Mt.Sicker	West Nugget creek near two large W5mL10m puddles no other puddles on	Chip sample across 0.4m massive sulphides with in 5m of mineralization width sample 1 out of 4 along strike	10N	442115	5413826	393
E5123787	19-Nov-13	Brant Bryan P.	Mt.Sicker	Holly Oak creek 50m above creek west side	Grab sample from Quartz sericite schist 30m width? near contact to chloritic schist	10N	439964	5414601	498
E5123788	8-Nov-13	Brant Bryan P.	Mt.Sicker	Queen Bee adit with drift sample locations above 60m elev.	Grab sample 1 out of 6 chip across out crop 6m mineralized chloritic cherty tuff	10N	442190	5413905	393
E5123790	7-Nov-13	Brant Bryan P.	Mt.Sicker	West Nugget creek near two large W5mL10m puddles no other puddles on	Chip sample across 0.4m massive sulphides with in 5m of mineralization width sample 2 out of 4 along strike	10N	442115	5413825	393
E5123791	7-Nov-13	Brant Bryan P.	Mt.Sicker	West Nugget creek near two large W5mL10m puddles no other puddles on	Chip sample across 0.4m massive sulphides with in 5m of mineralization width sample 3 out of 4 along strike	10N	442115	5413824	393
E5123792	7-Nov-13	Brant Bryan P.	Mt.Sicker	West Nugget creek near two large W5mL10m puddles no other puddles on	Chip sample across 0.4m massive sulphides with in 5m of mineralization width sample 4 out of 4 along strike	10N	442115	5413823	393
E5123793	8-Nov-13	Brant Bryan P.	Mt.Sicker	Queen Bee adit with drift sample locations above 60m elev.	Grab sample 2 out of 6 chip across out crop 6m mineralized chloritic cherty tuff	10N	442190	5413901	393
E5123794	8-Nov-13	Brant Bryan P.	Mt.Sicker	Queen Bee adit with drift sample locations above 60m elev.	Grab sample 3 out of 6 chip across out crop 6m mineralized chloritic cherty tuff	10N	442190	5413902	393
E5123795	8-Nov-13	Brant Bryan P.	Mt.Sicker	Queen Bee adit with drift sample locations above 60m elev.	Grab sample 4 out of 6 chip across out crop 6m mineralized chloritic cherty tuff	10N	442190	5413903	393
E5123796	8-Nov-13	Brant Bryan P.	Mt.Sicker	Queen Bee adit with drift sample locations above 60m elev.	Grab sample 5 out of 6 chip across out crop 6m mineralized chloritic cherty tuff	10N	442190	5413904	393
E5123797	8-Nov-13	Brant Bryan P.	Mt.Sicker	Queen Bee adit with drift sample locations above 60m elev.	Grab sample 6 out of 6 chip across out crop 6m mineralized chloritic cherty tuff	10N	442190	5413905	393
E5123798	7-Nov-13	Brant Bryan P.	Mt.Sicker	North of Key Citys claim along Nugget road(Old rail way grade)	Chip sample in road cut .08m quartz f.g. vien in Rhyolite	10N	442266	5414205	393
E5123799	7-Nov-13	Brant Bryan P.	Mt.Sicker	North of Key Citys claim along Nugget road(Old rail way grade)	Chip sample in road cut .08m quartz f.g. vien in Rhyolite	10N	441436	5413262	397
E5123800	7-Nov-13	Brant Bryan P.	Mt.Sicker	North of Key Citys claim along Nugget road(Old rail way grade)	Grab from large quartz eye Rhyolite bolder in blast pit 0.1m quartz vien host mineralization source not found yet wall rock in pit	10N	441436	5413261	397
E5123801	30-Sep-13	Brant Bryan P.	Mt.Sicker	Just south west of the Sharon crown grant on Sullin crown grant	Grab from a sericite chlorite alteration in the quartz eye Rhyolite strike 100 dip 85 south	10N	439242	5413969	861
E5123802	30-Sep-13	Brant Bryan P.	Mt.Sicker	Just south west of the Sharon crown grant on Sullin crown grant	Grab from specular hematite 0.1m alteration cross cuts in quartz eye Rhyolite strike 90 dip 80	10N	439158	5413821	818
E5123803	30-Sep-13	Brant Bryan P.	Mt.Sicker	Just south west of the Sharon crown grant on Sullin crown grant	Grab from specular hematite 0.1m alteration cross cuts in quartz eye Rhyolite strike 90 dip 80	10N	439159	5413821	818
E5123804	29-Sep-13	Brant Bryan P.	Mt.Sicker	Just south west of the Sharon crown grant on Sullin crown grant	Grab from mafic out crop contact to the quartz eye Rhyolite	10N	438961	5413633	820
E5123805	29-Sep-13	Brant Bryan P.	Mt.Sicker	Just south west of the Sharon crown grant on Sullin crown grant	Grab from specular hematite 0.1m of box work the area is more altered than samples 5123801,2,3 in quartz eye Rhyolite strik	10N	439235	5413909	839
E5123806	29-Sep-13	Brant Bryan P.	Mt.Sicker	Just south west of the Sharon crown grant on Sullin crown grant	Grab from specular hematite 0.1m of box work the area is more altered than samples 5123801,2,3 in quartz eye Rhyolite strik	10N	439236	5413908	839

2010-2013 Rock Sample Descriptions for Rock-Con Properties

Sample #	Sample #	Property	Descriptions
5B	5.2	Mt.Sicker	2 - 5 % native Cu, 25% Fe, in quartz vein, .45 m width
6B	6.2	Mt.Sicker	5 - 8 % chalcopyrite, 10% Fe in 6 " quartz vein
1C	1.3	Mt.Sicker	Greywacke, Grey, white and brown banded numerous fine cross cutting veins, malachite and Fe oxidation
2C	2.3	Mt.Sicker	Greywacke, .5 m west of sample 1.3
3C	3.3	Mt.Sicker	20 cm quartz seam, 10% visible native Cu, 15 - 20% fine cubic Fe sulphide pale schist
4C	4.3	Mt.Sicker	15 cm quartz vein, 3 - 5% chalcopyrite, Similar to sample 3.3
5C	5.3	Mt.Sicker	5 - 8 % chalcopyrite, 15 % Fe fine sulphides, 15 cm quartz vein in pale schist
6C	6.3	Mt.Sicker	15 cm quartz vein 3 - 5% chalcopyrite, 15% Fe fine sulphides in pale schist
7C	7.3	Mt.Sicker	10 % malachite oxidation in pale schist
8C	8.3	Mt.Sicker	15 cm quartz vein, in pale schist 3 - 5% chalcopyrite with native Cu
1D	1.4	Mt.Sicker	Graphitic schist 10 cm quartz vein with malachite oxidation, 5% Mg sulphides
2D	2.4	Mt.Sicker	Pale schist with 20 cm massive sulphide vein with 25% Fe 10% fine dark sulphide finely diminished Cu
3D	3.4	Mt.Sicker	contact to greywacke to pale schist, 60% quartz 40% chalcopyrite
4D	4.4	Mt.Sicker	15 cm quartz vein contact pale schist, 30% brassy Zn sulphides, 10% black fine sulphides
5D	5.4	Mt.Sicker	Greywacke contact to pale schist, 90% fine sulphides
6D	6.4	Mt.Sicker	10 cm quartz vein, 15% fine sulphides
7D	7.4	Mt.Sicker	Greywacke, Numerous quartz veins cross cutting 80% very fine sulphides
8D	8.4	Mt.Sicker	60% fine sulphides, 20% coarse sulphides, 1% visible native Cu
9D	9.4	Mt.Sicker	similar to sample 8.4
1E	1.5	Mt.Sicker	90% sulphides, 10% quartz, 3 - 5% chalcopyrite.
2E	2.5	Mt.Sicker	similar to sample 1.5
3E	3.5	Mt.Sicker	pale schist 20% fine sulphides throughout, similar to sample set C, 1 through 8.
4E	4.5	Mt.Sicker	similar to samples 1.5 and 2.5.
5E	5.5	Mt.Sicker	15 cm quartz vein with 3 - 5% chalcopyrite, 8% Fe, 2 - 3% fine dark sulphides, 80% quartz
6E	6.5	Mt.Sicker	80% quartz, 10% fine Fe sulphides, 2% chalcopyrite.
7E	7.5	Mt.Sicker	85% quartz 10 -15% Fe with 1% dark fine sulphides.
	1.6	Mt.Sicker	Fe sulphides, 1 - 3% finely diminished dark sulphides 1 - 3% chalcopyrite with chocolate colored oxidation in quartz
	2.6	Mt.Sicker	95% quartz, 5% fine sulphides with Fe and chalky oxidation
	3.6	Mt.Sicker	95% quartz, 5% chalcopyrite
	4.6	Mt.Sicker	20% quartz, 20% brassy sulphides- medium grain, 60% fine sulphides
	5.6	Mt.Sicker	90% fine-grained dark sulphides, 10% finely diminished chalcopyrite throughout
	6.6	Mt.Sicker	20% chalcopyrite, 40% fine sulphides, 40% quartz with chocolate colored oxidation
	7.6	Mt.Sicker	20% chalcopyrite, 40% fine sulphides, 40% quartz with chocolate colored oxidation
	8.6	Mt.Sicker	20% chalcopyrite, 40% fine sulphides, 40% quartz with chocolate colored oxidation
	1.8	Mt.Sicker	5 - 10 % chalcopyrite 1 - 2 % fine sphalerite with malachite bornite azurite 1 - 3 % oxidized on surface in quartz
	2.8	Mt.Sicker	40 - 50 % fine metallic mineral with 5 - 10 % chalcopyrite diminished throughout in grey felsic rock
	3.8	Mt.Sicker	50 - 60 % chalcopyrite 1 - 3 % fine sphalerite in grey felsic rock
	4.8	Mt.Sicker	5 - 10 % chalcopyrite 1 - 2 % fine sphalerite in quartz
	5.8	Mt.Sicker	5 - 10 % fine sphalerite 1 - 3 % chalcopyrite in quartz
	6.8	Mt.Sicker	50 - 60 % medium grained sphalerite with 3 - 5 % chalcopyrite in quartz
	7.8	Mt.Sicker	30 - 40 % fine grey mineral 5 - 10 % fine chalcopyrite in grey felsic rock
	8.8	Mt.Sicker	3 - 5 % chalcopyrite in quartz
	1.9	Mt.Sicker	60% oxidized with 5 - 10% fine grained chalcopyrite, 3 - 5% dark sulphides 1 - 3% visible bornite
	2.9	Mt.Sicker	20 - 30% fine chalcopyrite, 3 - 5% fine grained dark mineral, 3% oxidized bornite
	3.9	Mt.Sicker	grey felsic, fine grained 20 - 30% chalcopyrite, 5 - 10% sphalerite
	4.9	Mt.Sicker	70% oxidized with bornite and azurite in a fine grained felsic rock
	E5123781	Mt.Sicker	chlorite schist with Fe oxidation 5-10% calcium 15-20% disseminated Fe trace chalcopyrite
	E5123782	Mt.Sicker	quartz sericite pale schist 15-20% disseminated Fe 1-2 fine megnesium sulfides with Fe oxidation
	E5123783	Mt.Sicker	milky to Fe stained quartz with 5-10% chalcopyrite in box work viens
	E5123784	Mt.Sicker	milky to Fe, malachite stained quartz with 3-5% chalcopyrite in box work viens
	E5123785	Mt.Sicker	milky white quartz with Fe stained 3-5% chalcopyrite in box work viens
	E5123786	Mt.Sicker	rhylolite with 25-30% chalcopyrite 5-10% sphalerite and 3-5% magnesium disseminated to massive threw out highly sulpher smell.
	E5123787	Mt.Sicker	quartz sericite pale schist 15-20% disseminated Fe 1-2% fine megnesium sulfides with Fe oxidation
	E5123788	Mt.Sicker	quartz chlorite chert with 25-30% massive chalcopyrite with 0.5-1% bornite trace cobalt and 5%calicite fragments
	E5123790	Mt.Sicker	rhylolite with 25-30% chalcopyrite 0.5% sphalerite and 3-5% magnesium disseminated to massive threw out highly sulpher smell.
	E5123791	Mt.Sicker	rhylolite with 25-30% chalcopyrite 3-5% sphalerite and 3-5% magnesium disseminated to massive threw out highly sulpher smell.
	E5123792	Mt.Sicker	rhylolite with 25-30% chalcopyrite 3-5% sphalerite and 3-5% magnesium disseminated to massive threw out highly sulpher smell.
	E5123793	Mt.Sicker	quartz chlorite chert with 25-30% massive chalcopyrite with 3-5% arsenopyrite trace cobalt and 1%calicite fragments garlic smell
	E5123794	Mt.Sicker	quartz chlorite chert with 30-40% massive chalcopyrite disseminated threw out and viens with trace cobalt and 1%calicite fragments
	E5123795	Mt.Sicker	quartz chlorite chert with 35-40% massive chalcopyrite disseminated threw out and vien with 0.5-1% bornite trace cobalt and 5%calicite fragments
	E5123796	Mt.Sicker	quartz chlorite chert with 35-40% massive chalcopyrite disseminated threw out and viens with 0.5-1% bornite trace cobalt and 5%calicite fragments
	E5123797	Mt.Sicker	quartz chlorite chert with 35-40% massive chalcopyrite disseminated threw out and viens with 0.5-1% bornite trace cobalt and 5%calicite fragments
	E5123798	Mt.Sicker	milky to Fe stained quartz with 5-10% chalcopyrite 0.5-1% black sphalerite in a vien centre or quartz sample
	E5123799	Mt.Sicker	chlorite schist with Fe and malachite oxidation 10-15% disseminated Fe in vien and 1% chalcopyrite 0.5-1%bornite
	E5123800	Mt.Sicker	quartz with semi to massive sulphides disseminated threw out 10-15% shalerite 1-2% chalcopyrite 0.5-1% trace cobalt, molly, and bornite
	E5123801	Mt.Sicker	quartz 60% sericite 30% and 10% massive chlorite pods with 1-3% chalcopyrite
	E5123802	Mt.Sicker	botryoidal on wheathered surface with Fe,malachite oxidation 40-50% vuq Fe colour sericite 50-60% specular hematite
	E5123803	Mt.Sicker	botryoidal on wheathered surface with Fe,malachite oxidation 40-50% vuq Fe colour sericite 50-60% specular hematite
	E5123804	Mt.Sicker	mafic fine grain intrusive with 5-10% chalcopyrite 5-10% megnesium 5-10% calcium fine grain
	E5123805	Mt.Sicker	botryoidal on wheathered surface with Fe,malachite oxidation 70-75% vuq Fe colour sericite 25-30% specular hematite
	E5123806	Mt.Sicker	botryoidal on wheathered surface with Fe,malachite oxidation 60-70% vuq Fe colour sericite 30-40% specular hematite

2010-2013 Rock Sample Geochemistry Highlights

Sample #	Property	Eastng	Northing	Elevation	Au ppm	Ag ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Co ppm	Cu ppm	Ga ppm	Hg ppm	In ppm	Li ppm	Mo ppm	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Te ppm	Y ppm	Zn ppm	Ca %	Fe %	S %	
5.2	Mt. Sicker	440527	5413038		<0.2	10.25	31.7	<10	28.2	3	127	19000	0.73	0.54	0.043	0.7	9.63	1.7	<10	6.9	0.69	97.2	41.6	0.62	63	0.46	24.8	>10.0	
6.2	Mt. Sicker	440527	5413040		0.4	19.9	12.3	<30	19.45	16.2	3.6	76300	0.87	0.32	0.812	0.6	25.3	0.6	40	8.4	1.01	19.2	18.05	6.08	362	3.67	11.25	9.29	
1.3	Mt. Sicker	442056	5412829		1.74	34.1	37.8	20	25.7	31.0	0.8	2510	1.58	7.82	1.845	0.1	107.5	36.6	10	1795	5.99	65.4	20.8	0.4	60800	0.46	22.4	>10.0	
2.3	Mt. Sicker	442056	5412826		1.15	65.2	57	120	11.7	>1000	2.4	12900	14.9	31.9	0.249	0.6	345	19.2	20	17200	44.8	76.7	19.15	5.05	206300	17.15	3.51	>10.0	
3.3	Mt. Sicker	442060	5412831		0.2	30.5	253	10	7.79	8.37	3.3	109000	1.16	0.46	0.215	0.4	54.2	1.5	30	280	71.9	19.9	4.04	2.45	2020	1.91	14.8	>10.0	
4.3	Mt. Sicker	442062	5412831		0.2	23.6	342	10	6.19	1.67	8.5	29600	0.64	0.27	0.252	0.4	59.6	3.2	50	230	36.2	26.2	4.66	4.26	380	2.21	17.15	>10.0	
5.3	Mt. Sicker	442064	5412829		2.74	57.9	80.7	10	4.29	114.5	10.1	31500	1.28	5.97	0.342	1.3	161	21.7	10	88.4	5	39.1	8.05	0.59	22300	0.02	13.9	>10.0	
6.3	Mt. Sicker	442066	5412829		0.3	13.65	167	10	2.4	2.77	10.4	22000	0.51	0.23	0.124	0.1	89.9	5.6	10	129.5	9.96	25.2	2.27	1.45	522	1.09	14.15	>10.0	
7.3	Mt. Sicker	442065	5412829		<0.2	0.23	6.3	2640	0.04	9.33	1.4	809	1.63	0.02	<0.005	2.9	1.46	0.6	100	38.8	0.13	0.5	0.02	12.85	1770	4.29	1.17	0.13	
8.3	Mt. Sicker	442067	5412829		0.6	32.5	38.5	50	3.62	48.4	0.8	34500	6.66	0.87	0.149	0.5	14.9	1.2	330	859	34.6	6.9	3.4	6.36	9560	2.51	4.35	2.11	
1.4	Mt. Sicker	442041	5412848		<0.2	0.23	26	80	0.35	46	15.8	5150	3.2	0.07	0.07	7.3	1.14	4.3	270	21.2	0.2	4.8	0.57	25.6	3440	10.85	6.23	6.26	
2.4	Mt. Sicker	442041	5412844		0.3	16.7	20.1	30	3.1	0.5	6.6	398	1.18	0.06	0.017	0.4	478	3.3	<10	271	2.81	44.5	4.15	0.37	76	0.04	23.7	>10.0	
3.4	Mt. Sicker	442043	5412844		2.57	34.6	90.9	20	2.36	6.6	2.9	27200	0.78	0.53	0.049	0.3	178	4	<10	113	16.7	16.2	4.21	2.45	1020	1.38	9.48	>10.0	
4.4	Mt. Sicker	442065	5412824		1.585	65.5	236	20	17.3	>1000	27.5	7390	1.33	59	3.19	0.5	2.52	17.2	10	2320	20.1	37	13.3	2.23	>300000	0.99	8.01	>10.0	
5.4	Mt. Sicker	442073	5412824		21.1	113	87.9	80	47.3	504	1.8	32300	6.09	16	2.14	0.5	110.5	28.2	10	2080	11.8	46.8	68.4	0.64	104500	0.6	20.9	>10.0	
6.4	Mt. Sicker	442073	5412824		0.6	11.1	41.8	30	1.14	11.65	56.2	1590	0.9	1.13	0.067	0.1	173.5	30.4	10	20.5	5.33	16	1.25	0.31	1240	0.08	11.55	>10.0	
7.4	Mt. Sicker	442076	5412824		4.28	176	208	10	3.78	658	0.7	11900	7.91	18.1	0.148	0.1	95.1	2.8	10	27800	740	21.8	22.3	0.11	138500	0.27	2.02	>10.0	
8.4	Mt. Sicker	440527	5413038		0.2	9.12	27.8	10	13.6	10.65	99.9	10050	0.52	1.32	0.033	0.2	14.85	20.4	<10	375	13.95	95.2	21.8	0.41	2140	0.38	23.8	>10.0	
9.4	Mt. Sicker	440527	5413038		0.2	12.25	36.2	30	45	11.05	1111	31100	0.74	0.99	0.102	0.5	9.8	0.7	10	409	10.75	115	55.6	0.89	1480	0.84	25.9	>10.0	
1.5	Mt. Sicker	440537	5413038		<0.2	16.85	44.8	10	63.5	22.2	21.8	56100	1.75	0.17	2.59	0.9	5.62	3	20	6.3	1.22	38.4	53.7	1.53	310	2.87	25.5	>10.0	
2.5	Mt. Sicker	440536	5413038		<0.2	10.85	52.9	20	28.8	9.45	35.8	34200	1.5	0.14	0.899	0.8	18.7	3.1	90	5.1	1.32	42.7	29.7	2.07	125	3.38	26.9	>10.0	
3.5	Mt. Sicker	440536	5413038		0.2	0.41	55.1	20	3	0.09	161	977	1.21	2.75	0.012	0.4	18.45	1.9	30	3.9	0.13	60.5	6.63	0.75	14	0.05	23.7	>10.0	
4.5	Mt. Sicker	440536	5413038		<0.2	1.05	21.9	10	9.79	0.56	72.6	1705	2.14	0.05	0.071	2	7.14	1.2	50	11.3	0.27	45.1	13.2	4.12	46	4.12	24.8	>10.0	
5.5	Mt. Sicker	440546	5413068		0.2	7.08	11.2	40	2.89	7.53	20.5	15500	1.94	0.08	0.384	2.2	8.07	1.3	110	4.1	0.2	17.5	3.77	2.22	134	0.99	8.8	7.65	
6.5	Mt. Sicker	440562	5413075		<0.2	1.15	11.8	10	2.86	0.2	41.1	406	0.43	0.03	0.01	0.3	6.11	1.2	20	4	0.15	24.8	4.33	0.5	8	0.32	10.25	>10.0	
7.5	Mt. Sicker	440562	5413074		0.2	2.88	67.2	10	5.03	1.07	104	3980	1.04	0.72	0.098	0.3	11.75	2.8	20	6.5	0.85	53.7	7.11	1.28	14	0.4	17.8	>10.0	
1.6	Mt. Sicker	442513	5413611		<0.2	0.5	122.5	20	0.11	0.03	96.5	277	3.1	0.04	0.017	6.9	1.47	32.1	1080	11.7	1.98	14.2	0.87	7	26	0.52	11.95	>10.0	
2.6	Mt. Sicker	442518	5413611		<0.2	0.17	57.2	80	0.07	0.64	35.5	127.5	2.2	0.55	0.031	20.1	2.07	7.5	180	2.1	11.7	1.2	0.07	13.6	123	4.47	11.25	0.64	
3.6	Mt. Sicker	442522	5413611		<0.2	0.18	97.3	40	0.04	0.02	33.9	126.5	2.62	0.03	0.014	4.2	0.76	13.4	1720	4.6	1	6.6	0.6	10.95	28	0.72	6.18	4.99	
4.6	Mt. Sicker	442532	5413611		<0.2	0.24	16.3	30	0.92	0.03	49.4	10.6	6.32	0.41	<0.005	13.5	3.82	20.8	150	5.8	0.26	4.5	1.28	3.97	54	0.62	15.25	>10.0	
5.6	Mt. Sicker	442508	5413611		<0.2	0.18	56.1	20	0.04	0.08	24.2	11.3	10.95	0.17	0.011	30.3	3.61	17.2	500	2.6	0.46	0.7	0.02	11.3	78	3.77	23	1.85	
6.6	Mt. Sicker	442503	5413611		<0.2	0.62	88.6	30	0.39	0.13	386	1455	7.98	0.11	0.124	22.7	5.17	11.5	1480	6.7	0.83	35.8	0.39	12.05	69	0.75	18.35	>10.0	
7.6	Mt. Sicker	442500	5413611		<0.2	0.62	78.3	30	0.54	0.1	543	1380	10.6	0.18	0.473	31.8	5.98	13.6	1560	8.1	2.77	42.7	0.52	11.4	59	0.53	22.6	>10.0	
8.6	Mt. Sicker	442498	5413611		<0.2	0.92	129	40	0.52	0.21	393	2620	12.55	0.19	0.636	41.4	9.5	13.2	1180	8.4	4.22	38.9	0.45	14.75	77	1.08	22.8	>10.0	
1.8	Mt. Sicker	442033	5412835		0.7	80	57.2	30	0.44	17.55	9.7	66000	0.35	1.39	0.363	0.3	85.5	2.6	50	16.5	3.99	9.5	1.82	2.08	1650	0.85	9.93	7.19	
2.8	Mt. Sicker	442033	5412835		2.87	126	54.2	60	37.2	>1000	2.7	28900	9.81	38.9	0.895	1.3	399	12	40	18700	29.8	93.4	42.3	4.72	28200	8.05	6.41	>10.0	
3.8	Mt. Sicker	442034	5412835		1.59	48.2	253	10	20.9	562	32.3	13600	7.36	14.2	1.385	1.8	99	6.6	20	8920	29.9	79.6	30.8	2.53	92700	6.2	23.3	>10.0	
4.8	Mt. Sicker	442033	5412832		455	27.4	155	124	30	6.6	11.2	16	179500	0.61	1.67	0.224	0.2	132.8	5.9	<10	186.5	9.2	36.4	9.52	0.4	2930	0.04	20	>10.0
5.8	Mt. Sicker	442060	5412832		462	1.395	94.4	114.5	20	28.9	>1000	14	3500	1.59	28.8	2.08	0.5	2.41	60	3870	24.8	48	20.7	0.27	260000	0.09	4.26	7.66	
6.8	Mt. Sicker	442064	5412835		462	1.25	79.5	185	20	13.6	>1000	22.5	6890	1.54	50.9	3.02	0.5	5.57	9.5	20	2300	23.9	45.1	10.15	1.6	300000	0.76	7.31	>10.0
7.8	Mt. Sicker	442080	5412822		469	2.87	48.9	126.5	20	17.95	433	2	16000	3.71	13.15	0.318	0.2	163.5	7.4	10	7030	17.15	37.2	20.1	0.16	83800	0.41	5.07	>10.0
8.8	Mt. Sicker	442080	5412822		469	1.235	6.92	75.8	20	0.35	22.8	8.7	8620	0.43	0.49	0.347	0.1	102.5	7.3	100	34.7	4.28	6.6	0.68	0.98	2760	0.54	2.71	2.89
1.9	Mt. Sicker	442029	5412888		437	13.4	337	2280	40	67.5	220	1.2	137000	2.99	19.3	2.11	0.2	219	18.3	10	3170	68.2	41.2	88.7	5.05	54700	2.1	24.3	>10.0
2.9	Mt. Sicker	442029	5412888		437	3.09	128	1735	110	1.6	44.1	17.8	179500	1.02	1.46	0.716	0.2	12.5	2.4	<10	182	97.3	21.2	6.12	1.94	6850	4.07	28.4	>10.0
3.9	Mt. Sicker	442076	5412824		469	6.09	212	1065	40	74.4	455	2.3	95500	5.34	6.02	2.28	2	253	13	340	7070	64.3	60.5	46.4	2.51	92200	1.6	15.95	>10.0
4.9	Mt. Sicker	442029	5412888		437	2.21	131	488	40	29.2	741	2.8	22900	16	7.99	1.675	1.1	158.5	7.8	430	20400	113.5	44.4	24.7	4.18	151500	3.52	6.36	>10.0

Appendix 2
Geochemistry Data

CLIENT NAME: BRANT PROTASIEWICH
677 BARKLEY CRES
PARKSVILLE, BC V9P1X7
(250) 468-7423

ATTENTION TO: Brant Protasiewicz

PROJECT NO:

AGAT WORK ORDER: 13V789965

SOLID ANALYSIS REVIEWED BY: Yufei Chen, Analyst

DATE REPORTED: Dec 19, 2013

PAGES (INCLUDING COVER): 11

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



Certificate of Analysis

AGAT WORK ORDER: 13V789965

PROJECT NO:

5623 McADAM ROAD
 MISSISSAUGA, ONTARIO
 CANADA L4Z 1N9
 TEL (905)501-9998
 FAX (905)501-0589
<http://www.agatlabs.com>

CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

4 Acid Digest - Metals Package, ICP/ICP-MS finish (201071)

DATE SAMPLED: Dec 03, 2013	DATE RECEIVED: Dec 03, 2013							DATE REPORTED: Dec 19, 2013				SAMPLE TYPE: Rock			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	
RDL:	0.01	0.01	0.2	1	0.05	0.01	0.01	0.02	0.01	0.05	0.5	0.01	0.2	0.01	
E5123781 (5020724)	0.18	10.7	14.3	75	0.52	0.11	5.76	0.08	27.6	39.1	7.8	0.15	147	15.6	
E5123782 (5020725)	0.17	12.1	9.2	589	0.52	0.56	3.20	0.04	13.3	65.1	18.5	0.48	23.4	5.20	
E5123783 (5020726)	4.78	0.75	27.1	83	0.10	1.53	1.55	2.78	4.53	141	110	0.21	4110	7.13	
E5123784 (5020727)	5.78	0.21	15.3	23	<0.05	1.03	0.38	4.31	3.17	75.0	90.5	0.21	5570	6.02	
E5123785 (5020728)	6.93	1.25	28.3	102	0.16	0.91	0.64	3.08	3.91	98.1	127	0.26	6790	7.38	
E5123786 (5020729)	4.08	5.83	35.7	15	<0.05	2.38	0.17	325	9.97	43.9	148	0.05	6850	24.8	
E5123787 (5020730)	0.48	14.7	2.9	523	0.92	0.30	3.41	2.02	39.9	59.8	24.8	0.40	184	4.90	
E5123788 (5020731)	1.34	8.95	24.6	515	0.44	0.41	4.80	1.53	14.0	515	13.9	0.60	3170	20.2	
E5123790 (5020732)	3.06	3.37	97.3	13	<0.05	2.24	1.66	7.74	15.5	79.8	103	0.04	3130	28.3	
E5123791 (5020733)	1.90	6.46	65.7	17	0.07	1.37	1.47	200	21.0	52.5	213	0.04	2860	21.1	
E5123792 (5020734)	2.94	4.90	64.5	11	<0.05	2.69	0.43	158	10.4	52.7	154	0.06	2840	24.7	
E5123793 (5020735)	0.71	6.77	208	7	0.11	0.24	0.49	2.10	2.94	195	14.6	0.05	1160	23.0	
E5123794 (5020736)	0.56	10.4	>10000	287	0.49	0.33	0.59	1.54	9.78	135	25.0	0.63	825	12.2	
E5123795 (5020737)	1.41	9.34	263	356	0.46	0.29	5.73	0.46	13.9	444	45.0	0.55	3220	17.8	
E5123796 (5020738)	0.85	9.40	141	749	0.46	0.26	4.17	0.24	11.1	567	17.1	0.49	1940	23.4	
E5123797 (5020739)	0.93	8.44	47.8	713	0.46	0.26	4.50	0.29	12.4	521	6.9	0.57	2860	22.2	
E5123798 (5020740)	1.16	0.59	33.4	691	0.08	1.32	4.58	20.0	5.15	23.9	118	0.11	231	3.07	
E5123799 (5020741)	3.73	6.12	17.3	217	0.49	0.35	3.62	1.39	17.6	57.3	133	0.22	>10000	5.62	
E5123800 (5020742)	62.8	0.94	634	3940	0.21	6.73	1.32	484	0.89	1190	771	0.25	>10000	2.36	
E5123801 (5020743)	1.06	2.40	9.7	2210	0.11	0.09	0.11	2.34	3.77	15.2	65.3	0.13	95.5	1.95	
E5123802 (5020744)	0.60	0.84	561	1730	0.10	0.40	0.02	1.38	1.79	11.9	8.8	0.15	2870	53.0	
E5123803 (5020745)	0.61	1.06	654	520	0.16	0.50	0.02	0.33	6.89	11.9	7.7	0.20	2550	52.3	
E5123804 (5020746)	0.72	6.80	9.1	505	1.41	0.02	7.44	0.27	75.8	44.4	336	0.15	95.7	6.90	
E5123805 (5020747)	0.34	3.30	732	1090	0.22	0.94	0.02	0.18	1.32	13.8	20.2	0.32	1150	25.9	
E5123806 (5020748)	0.36	2.54	352	735	0.19	3.08	0.01	0.12	1.41	10.7	7.7	0.32	2140	33.7	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 13V789965

PROJECT NO:

5623 McADAM ROAD
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<http://www.agatlabs.com>

CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

4 Acid Digest - Metals Package, ICP/ICP-MS finish (201071)

DATE SAMPLED: Dec 03, 2013

DATE RECEIVED: Dec 03, 2013

DATE REPORTED: Dec 19, 2013

SAMPLE TYPE: Rock

Analyte:	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Unit:	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
RDL:	0.05	0.05	0.1	0.005	0.01	0.5	0.1	0.01	1	0.05	0.01	0.1	0.2	10
E5123781 (5020724)	23.8	0.21	1.4	0.039	0.02	13.5	17.5	2.40	1560	1.55	0.25	8.4	13.7	2670
E5123782 (5020725)	19.8	0.18	0.4	0.026	2.25	6.0	9.4	1.21	273	2.14	1.92	3.7	30.4	1480
E5123783 (5020726)	1.28	0.18	0.1	0.553	0.08	3.1	1.1	0.19	751	3.76	0.12	0.7	140	102
E5123784 (5020727)	0.79	0.17	<0.1	0.441	0.02	1.4	0.3	0.10	383	3.21	0.02	0.5	148	80
E5123785 (5020728)	4.25	0.16	<0.1	0.574	0.18	1.9	1.3	0.28	553	4.17	0.18	2.3	102	227
E5123786 (5020729)	13.7	0.22	1.5	3.57	<0.01	6.1	10.1	5.84	2170	7.04	<0.01	7.9	97.3	614
E5123787 (5020730)	25.2	0.36	0.7	0.135	1.90	19.4	21.0	2.33	1690	1.97	2.37	3.5	36.7	1270
E5123788 (5020731)	18.8	0.24	0.9	0.250	0.82	5.7	9.0	1.02	1090	13.6	0.44	2.9	21.7	2030
E5123790 (5020732)	8.05	0.27	0.8	0.322	0.02	8.9	8.0	3.25	1330	9.77	<0.01	3.7	86.1	9470
E5123791 (5020733)	15.2	0.19	1.7	4.08	<0.01	11.9	10.8	6.97	2810	10.6	<0.01	7.8	102	8490
E5123792 (5020734)	14.6	0.25	1.6	3.72	0.02	6.3	12.8	5.84	2270	7.31	<0.01	6.2	88.0	2150
E5123793 (5020735)	11.7	0.20	0.6	0.445	0.01	1.3	19.1	1.13	1930	11.9	0.03	1.8	22.0	2170
E5123794 (5020736)	17.7	0.20	1.0	0.226	1.71	3.7	11.2	1.22	802	11.3	1.59	2.8	21.3	2010
E5123795 (5020737)	19.0	0.26	0.8	0.188	0.71	5.4	9.7	0.82	1100	28.3	0.32	2.9	35.9	1740
E5123796 (5020738)	15.3	0.25	0.9	0.246	1.09	4.4	8.5	1.04	1170	19.7	0.24	3.0	19.5	1270
E5123797 (5020739)	15.7	0.21	0.9	0.217	1.04	4.9	8.6	1.02	1170	16.7	0.28	3.0	18.8	1800
E5123798 (5020740)	1.12	0.10	<0.1	0.409	0.17	2.9	0.6	1.76	1120	3.39	0.04	0.2	16.1	120
E5123799 (5020741)	15.6	0.20	0.6	0.796	0.22	7.5	5.3	2.37	1150	3.70	1.88	11.1	63.2	731
E5123800 (5020742)	15.9	0.35	<0.1	0.169	0.03	0.5	1.9	0.52	443	491	0.02	0.3	514	54
E5123801 (5020743)	4.63	0.13	0.2	0.010	0.28	2.3	3.7	1.38	787	5.62	0.32	0.6	10.7	88
E5123802 (5020744)	3.59	0.33	0.1	0.417	0.10	1.1	0.3	<0.01	52	9.91	0.01	0.6	15.6	4740
E5123803 (5020745)	4.42	0.31	0.2	0.414	0.21	7.7	0.4	0.01	129	14.1	0.01	0.8	14.5	6930
E5123804 (5020746)	18.4	0.67	4.7	0.090	1.08	32.0	10.8	4.98	1700	1.60	2.41	53.7	70.9	4140
E5123805 (5020747)	9.79	0.25	1.0	0.168	1.38	0.7	0.7	0.16	56	7.98	0.04	2.3	11.2	2840
E5123806 (5020748)	8.34	0.27	0.6	0.206	1.09	0.8	0.9	0.11	50	22.8	0.03	1.5	10.5	1710

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 13V789965

PROJECT NO:

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CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

4 Acid Digest - Metals Package, ICP/ICP-MS finish (201071)

DATE SAMPLED: Dec 03, 2013	DATE RECEIVED: Dec 03, 2013					DATE REPORTED: Dec 19, 2013					SAMPLE TYPE: Rock				
Analyte:	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	
Unit:	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.1	0.1	0.002	0.01	0.05	0.1	0.5	0.2	0.2	0.05	0.01	0.1	0.01	0.01	
Sample ID (AGAT ID)															
E5123781 (5020724)	10.6	0.4	0.008	2.91	0.65	24.3	1.8	1.6	414	0.62	0.25	2.7	0.61	0.03	
E5123782 (5020725)	11.9	41.4	0.013	4.78	0.58	24.3	1.5	1.2	184	0.22	0.54	0.5	0.79	0.31	
E5123783 (5020726)	8.1	3.0	0.004	5.78	1.22	3.4	14.9	0.9	45.4	<0.05	0.37	0.2	0.03	0.13	
E5123784 (5020727)	3.5	0.6	0.004	3.32	0.59	2.3	8.5	0.9	7.9	<0.05	0.24	<0.1	0.04	0.07	
E5123785 (5020728)	4.7	3.3	0.004	4.29	0.77	6.8	10.5	1.6	19.6	0.15	0.26	0.2	0.30	0.05	
E5123786 (5020729)	28.5	0.1	0.015	>10	4.91	7.1	61.6	1.0	7.8	0.66	25.2	2.0	0.18	0.13	
E5123787 (5020730)	3.2	32.3	0.006	1.90	0.28	41.6	1.7	0.8	274	0.24	0.78	0.8	0.96	0.31	
E5123788 (5020731)	8.4	15.6	0.005	>10	1.35	25.4	46.5	11.0	234	0.17	0.85	0.6	0.61	0.10	
E5123790 (5020732)	51.9	0.1	0.015	>10	12.9	5.2	69.0	0.5	17.8	0.27	28.8	1.3	0.12	0.54	
E5123791 (5020733)	41.5	<0.1	0.026	>10	4.50	13.7	48.2	0.6	12.0	0.78	17.1	2.8	0.21	0.46	
E5123792 (5020734)	36.5	0.1	0.016	>10	3.65	8.9	47.5	0.5	4.0	0.73	30.6	2.3	0.19	0.13	
E5123793 (5020735)	7.3	<0.1	0.006	9.60	2.01	15.6	30.2	10.5	4.7	0.15	1.88	0.3	0.38	0.04	
E5123794 (5020736)	14.0	38.0	0.005	4.12	136	15.0	17.2	5.6	68.4	0.15	0.77	0.4	0.63	0.22	
E5123795 (5020737)	11.6	11.9	0.006	9.45	1.37	21.8	41.9	9.9	261	0.16	0.54	0.5	0.60	0.10	
E5123796 (5020738)	7.1	18.3	0.008	>10	0.92	22.6	53.7	11.6	211	0.14	0.92	0.5	0.61	0.11	
E5123797 (5020739)	7.1	18.4	0.008	>10	0.68	23.4	50.6	11.7	236	0.14	0.82	0.5	0.61	0.11	
E5123798 (5020740)	97.7	3.0	0.005	2.43	0.91	2.0	5.2	0.3	120	<0.05	0.23	0.2	0.01	0.08	
E5123799 (5020741)	14.8	5.6	0.004	0.45	0.57	25.0	7.6	1.2	167	0.62	0.23	0.6	0.90	0.02	
E5123800 (5020742)	3630	1.9	0.007	6.58	462	0.9	20.2	<0.2	234	<0.05	7.03	<0.1	<0.01	0.28	
E5123801 (5020743)	49.2	5.5	0.004	0.08	3.61	1.1	<0.5	<0.2	38.5	<0.05	0.53	0.9	0.02	0.03	
E5123802 (5020744)	777	2.7	0.004	0.32	42.9	0.7	4.5	<0.2	17.9	<0.05	3.15	2.0	0.02	0.06	
E5123803 (5020745)	1180	4.6	0.004	0.30	21.3	1.0	5.6	<0.2	7.4	<0.05	3.49	2.6	0.03	0.07	
E5123804 (5020746)	10.1	12.5	0.004	0.12	0.48	26.6	1.2	1.7	843	2.88	0.27	1.4	1.50	0.04	
E5123805 (5020747)	104	28.1	0.004	0.15	14.1	2.4	1.3	0.4	13.2	0.16	2.04	5.3	0.07	0.46	
E5123806 (5020748)	52.4	24.0	0.003	0.23	7.90	1.8	2.1	0.3	9.6	0.10	3.02	3.6	0.05	0.44	

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 13V789965

PROJECT NO:

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CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

4 Acid Digest - Metals Package, ICP/ICP-MS finish (201071)

DATE SAMPLED: Dec 03, 2013	DATE RECEIVED: Dec 03, 2013						DATE REPORTED: Dec 19, 2013			SAMPLE TYPE: Rock
Analyte:	U	V	W	Y	Zn	Zr	As-OL	Cu-OL	Zn-OL	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	
RDL:	0.005	0.5	0.1	0.1	0.5	0.5	0.01	0.01	0.01	
E5123781 (5020724)	1.26	283	0.8	31.6	156	47.8				
E5123782 (5020725)	1.20	457	0.8	23.3	37.8	10.4				
E5123783 (5020726)	0.078	23.7	0.2	6.0	53.7	4.3				
E5123784 (5020727)	0.064	22.0	0.2	2.2	72.8	1.1				
E5123785 (5020728)	0.044	102	0.2	3.4	65.9	2.4				
E5123786 (5020729)	2.75	418	0.4	10.2	>10000	59.5			6.86	
E5123787 (5020730)	2.29	571	0.7	38.2	276	18.0				
E5123788 (5020731)	1.67	260	0.5	23.5	318	24.9				
E5123790 (5020732)	2.34	228	0.9	9.0	1880	32.9				
E5123791 (5020733)	4.48	544	1.0	12.0	>10000	61.5			4.21	
E5123792 (5020734)	2.80	391	0.4	13.1	>10000	55.2			3.39	
E5123793 (5020735)	2.10	208	0.4	5.9	457	20.3				
E5123794 (5020736)	4.06	318	1.9	16.0	218	33.2	3.03			
E5123795 (5020737)	1.47	261	1.0	21.3	82.6	23.5				
E5123796 (5020738)	1.57	251	0.5	22.4	72.4	26.0				
E5123797 (5020739)	1.51	247	0.5	24.7	87.6	27.7				
E5123798 (5020740)	0.117	29.1	0.2	6.8	2350	3.3				
E5123799 (5020741)	0.126	254	0.3	19.7	174	19.4		1.06		
E5123800 (5020742)	0.344	43.5	6.5	1.1	>10000	3.5		1.37	10.48	
E5123801 (5020743)	0.313	26.9	0.3	1.7	484	6.7				
E5123802 (5020744)	0.191	48.6	0.2	0.6	1040	6.8				
E5123803 (5020745)	0.315	69.8	0.2	0.8	1020	7.3				
E5123804 (5020746)	0.460	318	0.5	20.2	107	192				
E5123805 (5020747)	0.923	45.5	0.7	2.1	203	37.3				
E5123806 (5020748)	0.523	43.5	0.4	1.5	241	23.2				

Comments: RDL - Reported Detection Limit
5020724-5020748 As, Sb values may be low due to digestion losses.

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 13V789965

PROJECT NO:

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CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

Fire Assay - Trace Au, ICP-OES finish (202052)

DATE SAMPLED: Dec 03, 2013

DATE RECEIVED: Dec 03, 2013

DATE REPORTED: Dec 19, 2013

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight	Au
	Unit:	kg	ppm
	RDL:	0.01	0.001
E5123781 (5020724)		0.67	0.003
E5123782 (5020725)		0.63	0.006
E5123783 (5020726)		0.61	0.122
E5123784 (5020727)		0.62	0.551
E5123785 (5020728)		0.50	0.203
E5123786 (5020729)		0.72	0.217
E5123787 (5020730)		0.39	0.007
E5123788 (5020731)		0.77	0.004
E5123790 (5020732)		0.82	0.341
E5123791 (5020733)		0.83	0.164
E5123792 (5020734)		0.77	0.186
E5123793 (5020735)		0.63	0.004
E5123794 (5020736)		0.49	0.008
E5123795 (5020737)		0.89	0.006
E5123796 (5020738)		0.67	0.008
E5123797 (5020739)		0.82	0.004
E5123798 (5020740)		1.00	0.019
E5123799 (5020741)		0.58	1.32
E5123800 (5020742)		0.76	1.15
E5123801 (5020743)		0.83	0.012
E5123802 (5020744)		0.52	0.061
E5123803 (5020745)		0.74	0.047
E5123804 (5020746)		0.72	0.001
E5123805 (5020747)		0.59	0.038
E5123806 (5020748)		0.81	0.094

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

4 Acid Digest - Metals Package, ICP/ICP-MS finish (201071)

Parameter	REPLICATE #1				RPD													
	Sample ID	Original	Replicate	RPD														
Ag	5020724	0.181	0.218	18.5%														
Al	5020724	10.7	9.88	8.0%														
As	5020724	14.3	13.9	2.8%														
Ba	5020724	75	74	1.3%														
Be	5020724	0.524	0.617	16.3%														
Bi	5020724	0.114	0.123	7.6%														
Ca	5020724	5.76	5.90	2.4%														
Cd	5020724	0.08	0.18															
Ce	5020724	27.6	31.8	14.1%														
Co	5020724	39.1	46.6	17.5%														
Cr	5020724	7.8	8.3	6.2%														
Cs	5020724	0.15	0.17	12.5%														
Cu	5020724	147	155	5.3%														
Fe	5020724	15.6	15.9	1.9%														
Ga	5020724	23.8	25.3	6.1%														
Ge	5020724	0.21	0.22	4.7%														
Hf	5020724	1.4	1.2	15.4%														
In	5020724	0.0389	0.0381	2.1%														
K	5020724	0.02	0.02	0.0%														
La	5020724	13.5	14.9	9.9%														
Li	5020724	17.5	20.3	14.8%														
Mg	5020724	2.40	2.43	1.2%														
Mn	5020724	1560	1630	4.4%														
Mo	5020724	1.55	1.64	5.6%														
Na	5020724	0.25	0.26	3.9%														
Nb	5020724	8.44	8.51	0.8%														
Ni	5020724	13.7	13.2	3.7%														
P	5020724	2670	2780	4.0%														
Pb	5020724	10.6	12.8	18.8%														
Rb	5020724	0.4	0.4	0.0%														
Re	5020724	0.008	0.008	0.0%														



CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

S	5020724	2.91	2.87	1.4%														
Sb	5020724	0.65	0.69	6.0%														
Sc	5020724	24.3	31.3	25.2%														
Se	5020724	1.83	1.95	6.3%														
Sn	5020724	1.6	1.6	0.0%														
Sr	5020724	414	410	1.0%														
Ta	5020724	0.62	0.60	3.3%														
Te	5020724	0.25	0.24	4.1%														
Th	5020724	2.69	2.96	9.6%														
Ti	5020724	0.61	0.63	3.2%														
Tl	5020724	0.025	0.021	17.4%														
U	5020724	1.26	1.42	11.9%														
V	5020724	283	299	5.5%														
W	5020724	0.75	0.75	0.0%														
Y	5020724	31.6	35.2	10.8%														
Zn	5020724	156	163	4.4%														
Zr	5020724	47.8	61.9	25.7%														

Fire Assay - Trace Au, ICP-OES finish (202052)

Parameter	REPLICATE #1				REPLICATE #2													
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD										
Au	5020724	0.003	0.003	0.0%	5020736	0.008	0.013											



CLIENT NAME: BRANT PROTASIEWICH

ATTENTION TO: Brant Protasiewich

4 Acid Digest - Metals Package, ICP/ICP-MS finish (201071)

Parameter	CRM #1 (GTS-2a)				CRM #2 (GS6D)												
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits									
Al	6.96	7.43	107%	90% - 110%													
Ba	186	186	100%	90% - 110%													
Ca	4.01	3.81	95%	90% - 110%													
Cu	88.6	83.6	94%	90% - 110%													
Fe	7.56	6.9	91%	90% - 110%													
K	2.021	1.855	92%	90% - 110%													
Mg	2.412	2.29	95%	90% - 110%													
Mn	1510	1659	109%	90% - 110%													
Na	0.617	0.559	90%	90% - 110%													
Ni	77.1	79.1	103%	90% - 110%													
P	892	990	110%	90% - 110%													
S	0.348	0.370	106%	90% - 110%													
Zn	208	200	96%	90% - 110%													

Fire Assay - Trace Au, ICP-OES finish (202052)

Parameter	CRM #1 (1P5K)				CRM #2 (GS6D)												
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits									
Au	1.44	1.3	90%	90% - 110%	6.09	5.59	92%	90% - 110%									

Method Summary

CLIENT NAME: BRANT PROTASIEWICH

AGAT WORK ORDER: 13V789965

PROJECT NO:

ATTENTION TO: Brant Protasiewicz

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Ag	MIN-200-12020		ICP-MS
Al	MIN-200-12020		ICP/OES
As	MIN-200-12020		ICP-MS
Ba	MIN-200-12020		ICP-MS
Be	MIN-200-12020		ICP-MS
Bi	MIN-200-12020		ICP-MS
Ca	MIN-200-12020		ICP/OES
Cd	MIN-200-12020		ICP-MS
Ce	MIN-200-12020		ICP-MS
Co	MIN-200-12020		ICP-MS
Cr	MIN-200-12020		ICP/OES
Cs	MIN-200-12020		ICP-MS
Cu	MIN-200-12020		ICP-MS
Fe	MIN-200-12020		ICP/OES
Ga	MIN-200-12020		ICP-MS
Ge	MIN-200-12020		ICP-MS
Hf	MIN-200-12020		ICP-MS
In	MIN-200-12020		ICP-MS
K	MIN-200-12020		ICP/OES
La	MIN-200-12020		ICP-MS
Li	MIN-200-12020		ICP-MS
Mg	MIN-200-12020		ICP/OES
Mn	MIN-200-12020		ICP/OES
Mo	MIN-200-12020		ICP-MS
Na	MIN-200-12020		ICP/OES
Nb	MIN-200-12020		ICP-MS
Ni	MIN-200-12020		ICP-MS
P	MIN-200-12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
Re	MIN-200-12020		ICP-MS
S	MIN-200-12020		ICP/OES
Sb	MIN-200-12020		ICP-MS
Sc	MIN-200-12020		ICP-MS
Se	MIN-200-12020		ICP-MS
Sn	MIN-200-12020		ICP-MS
Sr	MIN-200-12020		ICP-MS
Ta	MIN-200-12020		ICP-MS
Te	MIN-200-12020		ICP-MS
Th	MIN-200-12020		ICP-MS
Ti	MIN-200-12020		ICP/OES
Tl	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
V	MIN-200-12020		ICP/OES
W	MIN-200-12020		ICP-MS
Y	MIN-200-12020		ICP-MS
Zn	MIN-200-12020		ICP-MS
Zr	MIN-200-12020		ICP-MS
Zn-OL	MIN-200-12002/12020		ICP/OES

Method Summary

CLIENT NAME: BRANT PROTASIEWICH

AGAT WORK ORDER: 13V789965

PROJECT NO:

ATTENTION TO: Brant Protasiewicz

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Cu-OL	MIN-200-12002/12020		ICP/OES
As-OL	MIN-200-12002/12020		ICP/OES
Sample Login Weight	MIN-12009		BALANCE
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES

Appendix 3

Tenure Data

Mt. Sicker Property 2013 Assessment Cost Report

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Brant Protasiewich	Sept.29,30; Nov. 7,8,19	5	\$350.00	\$1,750.00	
Bryan Protasiewich	Sept.29,30; Nov. 7,8,19	5	\$250.00	\$1,250.00	
				\$3,000.00	\$3,000.00
Office Studies	List Personnel (note - Office only, do not include field days)				
Report preparation	Jacques Houle	2	\$831.60	\$1,663.20	
				\$1,663.20	\$1,663.20
Ground Exploration Surveys	Area in Hectares/List Personnel				
Prospecting	250 ha / see field personnel				
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Rock	<i>25 samples by AGAT estimate</i>	25.0	\$38.43	\$960.75	
				\$960.75	\$960.75
Transportation		No.	Rate	Subtotal	
truck rental	Protasiewich 4x4 Truck	5.00	\$110.00	\$550.00	
sample shipment				\$26.26	
				\$576.26	\$576.26
<i>TOTAL Expenditures</i>					\$6,200.21



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: HOULE, JACQUES R. (137830) Submitter: HOULE, JACQUES R. (137830)
 Recorded: 2013/DEC/04 Effective: 2013/DEC/04
 D/E Date: 2013/DEC/04

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: **5479714**

Work Type: Technical Work
 Technical Items: Geochemical, Prospecting

Work Start Date: 2013/SEP/01
 Work Stop Date: 2013/DEC/03
 Total Value of Work: \$ 5597.40
 Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
501465	L109	2005/jan/12	2013/dec/09	2015/jan/22	409	21.24	\$ 119.01	\$ 0.00
501774	L108	2005/jan/12	2013/dec/09	2015/jan/22	409	21.24	\$ 119.00	\$ 0.00
510156	055A055D	2005/apr/04	2013/dec/09	2015/jan/22	409	42.48	\$ 238.00	\$ 0.00
513291		2005/may/25	2013/dec/09	2015/jan/22	409	84.99	\$ 476.17	\$ 0.00
513390		2005/may/26	2013/dec/09	2015/jan/22	409	84.96	\$ 476.01	\$ 0.00
516963		2005/jul/11	2013/dec/09	2015/jan/22	409	42.49	\$ 238.04	\$ 0.00
516972		2005/jul/11	2013/dec/09	2015/jan/22	409	42.49	\$ 238.08	\$ 0.00
516976		2005/jul/11	2013/dec/09	2015/jan/22	409	21.24	\$ 119.02	\$ 0.00
516980		2005/jul/11	2013/dec/09	2015/jan/22	409	84.95	\$ 475.96	\$ 0.00
517577	LENORATYEE	2005/jul/12	2013/dec/09	2015/jan/22	409	42.50	\$ 238.09	\$ 0.00
516629		2005/jul/10	2013/dec/09	2015/jan/22	409	382.37	\$ 2142.33	\$ 0.00
533072	HOLYOAK	2006/apr/26	2013/dec/09	2015/jan/22	409	127.42	\$ 713.91	\$ 0.00

Financial Summary:

Total applied work value: \$ 5593.62

PAC name: McCombs
 Debited PAC amount: \$ 0.0
 Credited PAC amount: \$ 3.78

Total Submission Fees: \$ 0.0

Total Paid: \$ 0.0

Please print this page for your records.

Appendix 4
BC MINFILE Data


[MINFILE Home page](#) | [ARIS Home page](#) | [MINFILE Search page](#) | [Property File Search](#)

MINFILE Record Summary

MINFILE No 092B 001

[XML Extract/Production Report/Inventory Report](#)

Print Preview	PDF	-- SELECT REPORT --	<input checked="" type="checkbox"/> New Window
File Created:	24-Jul-85	by BC Geological Survey (BCGS)	
Last Edit:	25-Jun-13	by Karl A. Flower(KAF)	

SUMMARY

[Summary Help](#)

<p>Name LENORA (L.35G), TWIN J MINE, MOUNT SICKER, LENORA-TYEE, TYEE, RICHARD III, BARITE ORE</p> <p>Status Past Producer</p> <p>Latitude 48° 52' 02" N</p> <p>Longitude 123° 47' 22" W</p> <p>Commodities Copper, Gold, Silver, Lead, Zinc, Cadmium, Barite</p> <p>Tectonic Belt Insular</p> <p>Capsule The Lenora past-producer is located on the western slopes of Mount Sicker, approximately 1.5 kilometres east of the Chemainus River.</p> <p>Geology</p> <p>Several past-producers are located on Mount Sicker in the Cowichan uplift, one of three geanticlinal uplifts that expose rocks of the Paleozoic Sicker and Buttle Lake groups on Vancouver Island. Cretaceous sediments of the Nanaimo Group unconformably overlie the Paleozoic rocks; the contact is marked by a basal conglomerate containing volcanic fragments derived from the Sicker Group. The local stratigraphy is disrupted by folding, faulting (pre-Triassic as well as Tertiary) and the intrusions of two gabbro sills (informally known as the Mount Hall Gabbro) that are coeval with the Upper Triassic Karmutsen Formation. The target of exploration activity has been the volcanogenic, polymetallic massive sulphides that are hosted within felsic volcanic tuffs of the McLaughlin Ridge Formation (Sicker Group) and restricted to a belt running from Chipman Creek to Mount Richards, in the hangingwall of the Fulford fault.</p> <p>Massive sulphides were discovered on Mount Sicker in the late 1800's and production issued from three separate underground mines (Lenora - 092B 001, Tyee - 092B 002 and Richard III - 092B 003) for several years. These mines were later held as one operating mine, the Twin J mine (1942-1952). The Twin J mine was examined by J.S. Stevenson in the 1940's and the following description is derived from his paper (Geology of the Twin J Mine; Structural Geology of Canadian Ore Deposits, Volume 1, The Canadian Institute of Mining and Metallurgy, 1948). The rocks in the mine, and nearby, include cherty tuffs, graphitic schists, rhyolite porphyry and diorite. The chert and graphitic schists together form a band of sediments 30 to 45 metres wide that near the workings are at least 640 metres long. The trend of the band and the strike of the sediments are 110 degrees. The dip of the sediments is 50 degrees southwest. Where relatively undeformed, the rocks are slaty, where moderately deformed their laminae are bent into small canoe-shaped folds, and where intensely deformed, either by close folding or shearing, they are highly schistose.</p> <p>Rhyolite porphyry and diorite are the two most widespread rocks in the area. Rhyolite porphyry sills follow the folding of the sediments and dykes cut early phases of the diorite. Two phases of the diorite, fine grained and coarse grained, are present. Fine-grained diorite occurs as sills in the sediments; coarse-grained diorite is found as irregular intrusive bodies, and as well-defined dykes. Although all phases of the diorite are younger than the sediments, some phases are older and others younger than the rhyolite porphyry.</p> <p>Two types of ore are found in association with cherty tuffs and graphitic schists: a barite ore consisting of a fine grained mixture of pyrite, chalcocopyrite, sphalerite and a little galena in a gangue of barite, quartz and calcite; and a quartz ore consisting of mainly quartz and chalcocopyrite.</p> <p>The two main orebodies, known as the North orebody and the South orebody, are long, lenticular bodies lying along two main dragfolds in the band of sediments. The North orebody measures about 500 metres along strike, 37 metres downdip and from 0.3 to 3 metres in thickness. The South orebody, which is 46 metres from the North, and has its upper limit 45 metres higher, measures 640 metres along the strike, 45 metres downdip and is about 6 metres in thickness. Most of the ore mined in the early period came from the South orebody, but most of that mined by Twin J came from the North orebody.</p> <p>Two main faults, striking east and nearly vertical, displace the orebodies. The north fault is between the two orebodies, and in going westward strikes into the South orebody at a small angle. This fault displaces the south orebody about 60 metres upward and an unknown distance eastward with respect to the North orebody. Long sections of barite drag-ore may be seen in the north fault below the South orebody. The south fault is south of the South orebody. Several diagonal faults cut the orebodies, but displace them only slightly horizontally and vertically. A few flat, or very gently dipping faults also cut the orebodies; but these displace the ore even less than most of the diagonal faults. In addition to movement along well-defined faults, considerable slippage has occurred between sharply folded beds in the graphitic schists.</p> <p>A regional silicified and pyritized fracture zone can be traced by widely separated, mineralized outcrops, from Mount Richards on the east through the Twin J on Mount Sicker to Mount Brenton on the west, a total of 13 kilometres. The displacement along this break is unknown. At the Twin J, the fracture zones are manifested by vertical silicified zones on the south sides of both the North and South orebodies and by post-mineral breaks such as the north and south faults.</p> <p>The first claim in the area was staked in 1895 by F.L. Sullivan, T. McKay and Henry Buzzard. The partners were later joined by Harry Smith.</p> <p>The Lenora mine, worked between 1898 and 1903 (inclusive) and in 1907, produced 321,886 grams of gold, 8,706,817 grams of silver and 3,226,034 kilograms of copper from a total of 71,650 tonnes mined. The Tyee mine was worked intermittently from 1901 to 1909 producing 762,553 grams of gold, 13,725,069 grams of silver and 5,840,593 kilograms of copper from a total of 152,668 tonnes mined. The Richard III mine produced, in three years between 1903 and 1907, 22,830 grams of gold, 522,714 grams of silver and 113,604 kilograms of copper from a total of 4,903 tonnes of ore mined (Mineral Policy data).</p> <p>The three mines were amalgamated and operated intermittently between 1942 and 1952 as the Twin J mine. From a total of 48,082 tonnes mined, the operation produced 63,730 grams of gold, 2,002,971 grams of silver, 364,755 kilograms of copper, 164,587 kilograms of lead, 1,926,111 kilograms of zinc and 4,546 kilograms of cadmium (Mineral Policy data). The property has undergone steady exploration by various companies from 1964 to present. Based on mapping, geochemical and geophysical surveys, trenching and diamond drilling from 1967 to 1970, ore reserves were estimated at 317,485 tonnes grading 1.6 per cent copper, 4.11 grams per tonne gold, 140.54 grams per tonne silver, 0.65 per cent lead and 6.6 per cent zinc (Northern Miner - September 25, 1969).</p> <p>In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property. A 6.0 metre chip sample (7D) from the Lenora pit, near the adit, assayed 4.8 grams per tonne gold, 176 grams per tonne silver, 2.78 per cent lead, 1.19 per cent copper and 13.85 per cent zinc. Other chip samples assayed up to 16.9 grams per tonne gold, 155 grams per tonne silver, 10.9 per cent copper, 2.78 per cent lead and greater than 30.0 per cent zinc over 6.0 metres (Assessment Report 32278).</p>	<p>NMI 092B13 Cu1</p> <p>Mining Division Victoria</p> <p>BCGS Map 092B082</p> <p>NTS Map 092B13W</p> <p>UTM 10 (NAD 83)</p> <p>Northing 5412996</p> <p>Easting 442105</p> <p>Deposit Types G06 : Noranda/Kuroko massive sulphide Cu-Pb-Zn</p> <p>Terrane Wrangell</p>
Bibliography	EMPR AR 1897-567; 1898-809,852; 1900-928,929,944; 1901-1117,1112; *1902-238-250; *1903-206-209; 1904-252; 1905-216; 1906-207;

1907-154; 1916-311; *1924-252,368; 1925-303; 1926-334; 1927-339;
1928-365; 1929-371; 1930-289; 1931-264; 1935-G46; 1936-F63;
1939-90; 1940-74; 1942-70; 1943-69; 1944-67; 1946-191; 1947-183;
1949-224; 1950-180; 1951-199; 1952-214; 1964-A53,168; 1967-79;
1968-107
EMPR ASS RPT [1104](#), [1714](#), [3741](#), [3950](#), [3951](#), [5164](#), [8264](#), [12317](#), [14735](#),
[16716](#), [17834](#), [18859](#), [19754](#), *[32278](#)
EMPR BC METAL MM00051, MM00058
EMPR EXPL 1978-E119; 1980-153
EMPR FIELDWORK 1982, p. 46; *1987, pp. 81-91
EMPR GEM 1969-224; 1970-291; 1972-240; 1974-163
EMPR INDEX 3-203,217; 4-123
EMPR OF 1988-8; 1998-10; 1999-2
EMPR P 1991-4, pp. 102,104,105
EMPR PF (The Tyee Mines, Report by Pacific Tidewater Mines, April
1928; Geology map of Mount Sicker mines area by J.S. Stephenson,
Scale 1:1200, 1940's(?) Nelson, N.E. (1940): Report on the Tyee
Consolidated Gold Mines; The Geology and Mineralization of the
Lenora-Tyee Mine, Preliminary notes by J.S. Stephenson, Feb.13,
1942; Tyee-Lenora, Report by H. Sargent, June 26, 1942; Summary
of Monthly Report, Twin J Mines, April 1944; General Comments by
R.B. Gayer, May and April 1944; Twin J Mines, Report by V.
Dolmage, April or May 1945; Report on the Mount Sicker Mine,
Feb.7, 1945; Suggestions on Future Explorations by J.S. Stephen-
son, Aug.7, 1945; Various mine plans, 1940's; Sheppard, E.P.
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EMR MP CORPFILE (Tyee Copper Company Limited; Ladysmith Smelting
Corporation Limited; Ladysmith Tidewater Smelters Limited; Pacific
Tidewater Mines Limited; Tyee Consolidated Mining Company Limited;
Tyee Mining and Milling Company Limited; The Twin J Mines Limited;
Jason Mines Limited; Vancouver Island Base Metals Limited; Base
Metals Mining Corporation Limited; Mount Sicker Mines Limited)
EMR MIN BULL MR 223 (1989) B.C. 88
EMR MP Metal Controller File 167-Z1-2-17 C
GSC MAP 42A; 1386A; 1553A
GSC MEM *13, pp. 180-187; 36; *96, pp. 387-390
GSC OF 463
GSC P 1972-44; 1975-1A, p. 23; 1979-30
CIM Transactions *Vol.XLVIII, 1945, pp. 294-308
CIM *Vol.1, pp. 88-93
CMH 1972-1973, p. 232
GCNL #64,#218, 1984; #136,#157,#215, 1985; #83, 1986
N MINER Sept.25, 1969
Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with
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Deposits, Ph.D. Thesis, Carleton University
Holbek, P. (1980): Geology and Geochronometry of the Sharron
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of British Columbia, Vol. 1: Vancouver Island, pp. 92-93
Times Colonist, Feb.16, 1997, p. C8
Chevron File

MINFILE Number: 092B 001	Name: LENORA (L.35G)	Status: Past Producer
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Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
MOUNT SICKER 2010 N	Assay/analysis Chip	Gold Silver Lead Copper Zinc	4.8 g/t 176 g/t 2.78 % 1.19 % 13.85 %	A 6.0 metre chip sample (7D) from the Lenora pit, near the adit Assessment Report 32278
MOUNT SICKER 1952 Y	317,485 t Indicated	Silver Gold Copper Lead Zinc	140.5400 g/t 4.1100 g/t 1.6000 % 0.6500 % 6.6000 %	Reserves based on mapping, geochemical and geophysical surveys, trenching and diamond drilling. Northern Miner - September 25, 1969.

MINFILE Number: 092B 001	Name: LENORA (L.35G)	Status: Past Producer
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Production Year	Tonnes Mined	Tonnes Milled	Commodity	Grams Recovered	Kilograms Recovered
1964	151	151	Silver	11,757	
			Gold	529	
			Copper		4,608
1952	0	1	Cadmium		200
1951	8,849	8,849	Silver	483,776	
			Gold	9,829	
			Zinc		323,842
			Copper		39,359
			Lead		38,899
			Cadmium		1,192
1947	7,525	7,525	Silver	514,755	
			Gold	15,769	
			Zinc		286,544
			Copper		81,239
			Lead		8,400
1944	15,731	15,731	Silver	521,815	
			Gold	20,870	
			Zinc		1,060,728
			Copper		146,161
			Lead		76,342
			Cadmium		3,154
1943	15,923	15,923	Silver	482,625	
			Gold	17,262	
			Zinc		254,997
			Copper		97,996
			Lead		40,946
1907	1,558	1,558	Silver	177,287	
			Gold	5,319	
			Copper		29,937
1903	34,030	34,030	Silver	2,259,788	
			Gold	130,415	
			Copper		986,805
1902	14,126	14,126	Silver	3,633,048	
			Gold	60,558	
			Copper		585,231
1901	14,220	14,220	Silver	1,653,124	
			Gold	84,818	
			Copper		901,244
1900	6,392	6,392	Silver	780,436	
			Gold	32,192	
			Copper		601,361

1899	1,308	1,308	Silver	196,913	
			Gold	8,273	
			Copper		119,642
1898	18	18	Silver	6,221	
			Gold	311	
			Copper		1,814

Summary Totals

MINFILE Number: 092B 001 **Name:** LENORA (L.35G) **Status:** Past Producer

	Metric	Imperial
Mined	119,831 tonnes	132,091 tons
Milled	119,832 tonnes	132,092 tons

Recovery:

Silver	10,721,545 grams	344,706 ounces
Gold	386,145 grams	12,415 ounces
Copper	3,595,397 kilograms	7,926,494 pounds
Zinc	1,926,111 kilograms	4,246,348 pounds
Lead	164,587 kilograms	362,852 pounds
Cadmium	4,546 kilograms	10,022 pounds

Comments:

- 1952 The actual amount of ore milled is not known.
- 1951 Twin J.
- 1947 Twin J. closed from Aug. 31, 1947 to 1951.
- 1944 Twin J.
- 1943 Twin J.


[MINFILE Home page](#) | [ARIS Home page](#) | [MINFILE Search page](#) | [Property File Search](#)

MINFILE Record Summary

MINFILE No 092B 002

[XML Extract/Production Report](#)

Print Preview	PDF	-- SELECT REPORT --	<input checked="" type="checkbox"/> New Window
File Created:	24-Jul-85	by BC Geological Survey (BCGS)	
Last Edit:	25-Jun-13	by Karl A. Flower(KAF)	

SUMMARY

[Summary Help](#)

Name	TYEE (L.36G), TWIN J, MOUNT SICKER, RICHARD III, LENORA, LENORA-TYEE	NMI Mining Division	092B13 Cu1 Victoria
Status	Past Producer	BCGS Map	092B082
Latitude	48° 51' 53" N	NTS Map	092B13W
Longitude	123° 46' 59" W	UTM	10 (NAD 83)
Commodities	Copper, Gold, Silver, Zinc, Lead, Cadmium, Barite	Northing	5412713
Tectonic Belt	Insular	Easting	442571
Capsule Geology	The Tyee (L.36G) past-producer is located on the western slopes of Mount Sicker, approximately 2 kilometres east of the Chemainus River.	Deposit Types	G06 : Noranda/Kuroko massive sulphide Cu-Pb-Zn
	Volcanogenic massive sulphides were discovered on Mount Sicker in the late 1800's with production from one main orebody issuing from three independent underground mines (Lenora - 092B 001, Tyee - 092B 002 and Richard III - 092B 003) for several years. These mines were later amalgamated and operated as the Twin J mine (1942-1952). The massive sulphides are hosted within rhyolitic tuffs and associated sediments of the McLaughlin Ridge Formation, Sicker Group. The rocks in the mine include cherty tuffs and graphitic schists which together form a band of folded and/or sheared sediments 30 to 45 metres wide that near the workings are at least 640 metres long. The trend of the band and the strike of the sediments are 110 degrees. The dip of the sediments is 50 degrees southwest. See the Lenora deposit for further details of the geology.	Terrane	Wrangell
	Two types of ore are found in association with the cherty tuffs and graphitic schists: a barite ore consisting of a fine grained mixture of pyrite, chalcopyrite, sphalerite and a little galena in a gangue of barite, quartz and calcite; and a quartz ore consisting of mainly quartz and chalcopyrite.		
	The two main orebodies, known as the North orebody and the South orebody, are long, lenticular bodies lying along two main dragfolds in the band of sediments. The North orebody measures about 500 metres along strike, 37 metres downdip and from 0.3 to 3 metres in thickness. The South orebody, which is 46 metres from the North, and has its upper limit 45 metres higher, measures 640 metres along the strike, 45 metres downdip and is about 6 metres in thickness. Two main faults, striking east and nearly vertical, displace the orebodies. A fracture zone is manifested by vertical silicified zones on the south sides of both the North and South orebodies.		
	The area was staked by Harry Smith in 1897. The Tyee mine was worked intermittently from 1901 to 1909 producing 762,553 grams of gold, 13,725,069 grams of silver and 5,840,593 kilograms of copper from a total of 152,668 tonnes mined (Mineral Policy data). See Lenora (092B 001) for the combined production and reserve figures that were derived after the three mines were amalgamated as the Twin J mine. Zinc, lead and cadmium are also reported in the Twin J production records.		

In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property.

Bibliography

EMPR AR 1897-567; 1898-809,852; 1900-928,929,944; 1901-1117,1112; *1902-238-250; *1903-206-209; 1904-252; 1905-216; 1906-207; 1907-154; 1916-311; *1924-252,368; 1925-303; 1926-334; 1927-339; 1928-365; 1929-371; 1930-289; 1931-264; 1935-G46; 1936-F63; 1939-90; 1940-74; 1942-70; 1943-69; 1944-67; 1946-191; 1947-183; 1949-224; 1950-180; 1951-199; 1952-214; 1964-168; 1967-79; 1968-107
 EMPR ASS RPT [1104](#), [1714](#), [3741](#), [3950](#), [5164](#), [8264](#), [12317](#), [14735](#), [16716](#), [17834](#), [18859](#), [19754](#), [32278](#)
 EMPR BC METAL MM00058
 EMPR EXPL 1978-E119; 1980-153
 EMPR FIELDWORK 1982, p. 46; *1987, pp. 81-91
 EMPR GEM 1969-224; 1970-291; 1972-240; 1974-163
 EMPR INDEX 3-216
 EMPR OF 1988-8; 1998-10; 1999-2
 EMPR P 1991-4, pp. 102,105
 EMPR PF (The Tyee Mines, Report by Pacific Tidewater Mines, April 1928; Nelson, N.E. (1940): Report on the Tyee Consolidated Gold Mines; The Geology and Mineralization of the Lenora-Tyee Mine, Preliminary notes by J.S. Stephenson, Feb.13, 1942; Tyee-Lenora, Report by H. Sargent, June 26, 1942; Summary of Monthly Report, Twin J Mines, April 1944; General Comments by R.B. Gayer, May and April 1944; Twin J Mines, Report by V. Dolmage, April or May 1945; Report on the Mount Sicker Mine, Feb.7, 1945; Suggestions on Future Explorations by J.S. Stephenson, Aug.7, 1945; Various mine plans, 1940'S; Sheppard, E.P. (1966) Geology - Mount Sicker Mines)
 EMR MP CORPFILE (Tyee Copper Company Limited; Ladysmith Smelting Corporation Limited; Ladysmith Tidewater Smelters Limited; Pacific Tidewater Mines Limited; Tyee Consolidated Mining Company Limited; Tyee Mining and Milling Company Limited; The Twin J Mines Limited; Jason Mines Limited; Vancouver Island Base Metals Limited; Base Metals Mining Corporation Limited; Mount Sicker Mines Limited)
 EMR MP Metal Controller File 167-Z1-2-17 C
 GSC MAP 42A; 1386A; 1553A
 GSC MEM *13, pp. 180-187; 36; *96, pp. 387-390
 GSC OF 463
 GSC P 1972-44; 1975-1A, p. 23; 1979-30
 CIM Transactions *Vol.XLVIII, 1945, pp. 294-308
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Times Colonist, Feb.16, 1997, p. C8
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MINFILE Production Detail Report
 BC Geological Survey
 Ministry of Energy, Mines & Petroleum Resources

MINFILE Number: 092B 002 **Name:** TYEE (L.36G) **Status:** Past Producer

Production Year	Tonnes Mined	Tonnes Milled	Commodity	Grams Recovered	Kilograms Recovered
1909	669	0	Silver	24,602	
			Gold	12,877	
			Copper		13,400
1907	11,039	0	Silver	860,122	
			Gold	40,309	
			Copper		218,099
1906	21,621	0	Silver	1,920,859	
			Gold	104,040	
			Copper		816,267
1905	28,939	0	Silver	2,706,832	
			Gold	155,608	
			Copper		1,219,679
1904	52,117	0	Silver	4,401,510	
			Gold	242,697	
			Copper		1,929,123
1903	38,102	0	Silver	3,792,482	
			Gold	205,902	
			Copper		1,634,953
1901	181	0	Silver	18,662	
			Gold	1,120	
			Copper		9,072

Summary Totals

MINFILE Number: 092B 002 **Name:** TYEE (L.36G) **Status:** Past Producer

	Metric	Imperial
Mined	152,668 tonnes	168,287 tons
Milled	0 tonnes	0 tons

Recovery:

Silver	13,725,069 grams	441,271 ounces
Gold	762,553 grams	24,517 ounces
Copper	5,840,593 kilograms	12,876,303 pounds

Comments:

1909 Subsequent production included with Lenora (092B 001).


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MINFILE Record Summary

MINFILE No 092B 003

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File Created:	24-Jul-85	by BC Geological Survey (BCGS)	
Last Edit:	25-Jun-13	by Karl A. Flower(KAF)	

SUMMARY

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Name	RICHARD III (L.39G), TWIN J, MOUNT SICKER, LENORA, TYEE	NMI	092B13 Cu1
Status	Past Producer	Mining Division	Victoria
Latitude	48° 51' 53" N	BCGS Map	092B082
Longitude	123° 46' 47" W	NTS Map	092B13W
Commodities	Copper, Gold, Silver, Lead, Zinc, Cadmium, Barite	UTM	10 (NAD 83)
Tectonic Belt	Insular	Northing	5412711
Capsule Geology	The Richard III past-producer is located on the western slopes of Mount Sicker, approximately 2.3 kilometres east of the Chemainus River.	Easting	442815
		Deposit Types	G06 : Noranda/Kuroko massive sulphide Cu-Pb-Zn
		Terrane	Wrangell

Volcanogenic massive sulphides were discovered on Mount Sicker in the late 1800's with production from one main orebody issuing from three independent underground mines (Lenora - 092B 001, Tyee - 092B 002 and Richard III - 092B 003) for several years. These mines were later amalgamated and operated as the Twin J mine (1942-1952). The massive sulphides are hosted within rhyolitic tuffs and associated sediments of the McLaughlin Ridge Formation, Sicker Group. The rocks in the mine include cherty tuffs and graphitic schists which together form a band of folded and/or sheared sediments 30 to 45 metres wide that near the workings is at least 640 metres long. The trend of the band and the strike of the sediments are 110 degrees. The dip of the sediments is 50 degrees southwest. See the Lenora occurrence for further details of the geology.

Two types of ore are found in association with the cherty tuffs and graphitic schists: a barite ore consisting of a fine grained mixture of pyrite, chalcocopyrite, sphalerite and a little galena in a gangue of barite, quartz and calcite; and a quartz ore consisting of mainly quartz and chalcocopyrite.

The two main orebodies, known as the North orebody and the South orebody, are long, lenticular bodies lying along two main dragfolds in the band of sediments. The North orebody measures about 500 metres along strike, 37 metres downdip and from 0.3 to 3 metres in thickness. The South orebody, which is 46 metres from the North, and has its upper limit 45 metres higher, measures 640 metres along the strike, 45 metres downdip and is about 6 metres in thickness. Two main faults, striking east and nearly vertical, displace the orebodies. A fracture zone is manifested by vertical silicified zones on the south sides of both the North and South orebodies.

The Richard III mine operated in three years between 1903 and 1907, producing 22,830 grams of gold, 522,714 grams of silver and 113,604 kilograms of copper from a total of 4903 tonnes of ore mined (Mineral Policy data). See Lenora (092B 001) for the combined production and reserve figures that were derived after the three mines were amalgamated as the Twin J mine. Zinc, lead and cadmium are also reported in the Twin J production records.

In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property.

Bibliography

EMPR AR 1897-567; 1898-809,852; 1900-928,929,944; 1901-1117,1112; *1902-238-250; *1903-206-209; 1904-252; 1905-216; 1906-207; 1907-154; 1916-311; *1924-252,368; 1925-303; 1926-334; 1927-339; 1928-365; 1929-371; 1930-289; 1931-264; 1935-G46; 1936-F63; 1939-90; 1940-74; 1942-70; 1943-69; 1944-67; 1946-191; 1947-183; 1949-224; 1950-180; 1951-199; 1952-214; 1964-168; 1967-79; 1968-107

EMPR ASS RPT [1104](#), [1714](#), [3741](#), [3950](#), [3951](#), [5164](#), [8264](#), [12317](#), [14735](#), [16716](#), [17834](#), [18859](#), [19754](#), [32278](#)

EMPR BC METAL MM00055

EMPR EXPL 1978-E119; 1980-153

EMPR FIELDWORK 1982, p. 46; *1987, pp. 81-91

EMPR GEM 1969-224; 1970-291; 1972-240; 1974-163

EMPR INDEX 3-210

EMPR OF 1988-8; 1998-10; 1999-2

EMPR P 1991-4, pp. 102,105

EMPR PF (The Tyee Mines, Report by Pacific Tidewater Mines, April 1928; Nelson, N.E. (1940): Report on the Tyee Consolidated Gold Mines; The Geology and Mineralization of the Lenora-Tyee Mine, Preliminary notes by J.S. Stephenson, Feb.13, 1942; Tyee-Lenora, Report by H. Sargent, June 26, 1942; Summary of Monthly Report, Twin J Mines, April 1944; General Comments by R.B. Gayer, May and April 1944; Twin J Mines, Report by V. Dolmage, April or May 1945; Report on the Mount Sicker Mine, Feb.7, 1945; Suggestions on Future Explorations by J.S. Stephenson, Aug.7, 1945; Various mine plans, 1940'S; Sheppard, E.P. (1966): Geology - Mount Sicker Mines)

EMR MP CORPFILE (Tyee Copper Company Limited; Ladysmith Smelting Corporation Limited; Ladysmith Tidewater Smelters Limited; Pacific Tidewater Mines Limited; Tyee Consolidated Mining Company Limited; Tyee Mining and Milling Company Limited; The Twin J Mines Limited; Jason Mines Limited; Vancouver Island Base Metals Limited; Base Metals Mining Corporation Limited; Mount Sicker Mines Limited)

EMR MP Metal Controller File 167-Z1-2-17 C

GSC MAP 42A; 1386A; 1553A

GSC MEM *13, pp. 180-187; 36; *96, pp. 387-390

GSC OF 463

GSC P 1972-44; 1975-1A, p. 23; 1979-30

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Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of
British Columbia, Vol. 1: Vancouver Island, pp. 92-93
Times Colonist, Feb.16, 1997, p. C8
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MINFILE Production Detail Report
 BC Geological Survey
 Ministry of Energy, Mines & Petroleum Resources

MINFILE Number: 092B 003	Name: RICHARD III (L.39G)	Status: Past Producer
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Production Year	Tonnes Mined	Tonnes Milled	Commodity	Grams Recovered	Kilograms Recovered
1907	3,603	0	Silver	327,048	
			Gold	14,650	
			Copper		101,766
1904	1,299	0	Silver	194,829	
			Gold	8,149	
			Copper		11,819
1903	1	0	Silver	840	
			Gold	31	
			Copper		19

Summary Totals

MINFILE Number: 092B 003	Name: RICHARD III (L.39G)	Status: Past Producer
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	Metric	Imperial
Mined	4,903 tonnes	5,404 tons
Milled	0 tonnes	0 tons

Recovery:

Silver	522,717 grams	16,806 ounces
Gold	22,830 grams	734 ounces
Copper	113,604 kilograms	250,454 pounds

Comments:

1907 See Lenora (092B 001) for subsequent production.


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MINFILE Record Summary**MINFILE No 092B 004**
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File Created:	24-Jul-85	by BC Geological Survey (BCGS)	
Last Edit:	25-Jun-13	by Karl A. Flower(KAF)	

SUMMARY
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<p>Name VICTORIA (L.21G), ELMORE FRACTION, CANAMERA, COPPER CANYON (L.22G)</p> <p>Status Past Producer</p> <p>Latitude 48° 52' 02" N</p> <p>Longitude 123° 48' 33" W</p> <p>Commodities Copper, Gold, Silver</p> <p>Tectonic Belt Insular</p> <p>Capsule Geology The Victoria past-producer is located on the east bank of the Chemainus River, west of, and along the strike of, the Lenora-Tyee volcanogenic massive sulphide past-producers on Mount Sicker (see 92B 001).</p> <p>The deposit is located within the Cowichan uplift, one of three geanticlinal uplifts that expose rocks of the Paleozoic Sicker and Buttle Lake groups on Vancouver Island. Cretaceous sediments of the Nanaimo Group unconformably overly the Paleozoic rocks; the contact is marked by a basal conglomerate containing volcanic fragments derived from the Sicker Group. The local stratigraphy is disrupted by folding, faulting (pre-Triassic as well as Tertiary) and the intrusions of gabbro and diabase sills and dykes (informally known as the Mount Hall Diorite) that are coeval with the Upper Triassic Karmutsen Formation.</p> <p>The Sicker Group rocks mainly comprise felsic volcanic tuffs of the McLaughlin Ridge Formation. The rocks in the mine, and nearby, include graphitic schists and cherty sediments and tuffs which form a band within the rhyolitic volcanics. This is the same band of sediments which hosts the massive sulphides of the Lenora-Tyee deposit to the east. The strike of the sediments along the Chemainus River is about 080 degrees and the dip is 70 degrees south.</p> <p>On the property a tunnel has been driven in for 46 metres at 110 degrees. From the end of the tunnel a crosscut has been run to the south for about 8 metres ending in diorite. Another crosscut was made to the north for about 11 metres in the schist, of which about 3 metres is mineralized with pyrite and chalcopyrite. A sample of this assayed 17.1 grams per tonne silver and trace copper and gold (Minister of Mines Annual Report 1902, page 253). On the steep banks of the river, outcrops of massive iron sulphides with a small amount of copper were exposed and tested by adits. Small pits have exposed quartz veins and stringers up to 75 centimetres wide mineralized with iron sulphides and chalcopyrite.</p> <p>The mine has a combined production from 1904, 1905 and 1907 totalling 115 tonnes of ore, from which was recovered 124 grams of gold, 3,452 grams of silver and 4,346 kilograms of copper (Mineral Policy data). Details of the deposit and workings were not reported after 1902.</p> <p>In 1998, a self potential geophysical survey was completed. In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property. Chip samples, taken near the mouth of the adit, assayed up to 16.85 grams per tonne silver and 5.61 per cent copper (1E; Assessment Report 32278).</p>	<p>NMI Mining Division Victoria</p> <p>BCGS Map 092B081</p> <p>NTS Map 092B13W</p> <p>UTM 10 (NAD 83)</p> <p>Northing 5413011</p> <p>Eastings 440659</p> <p>Deposit Types G06 : Noranda/Kuroko massive sulphide Cu-Pb-Zn</p> <p>Terrane Wrangell</p>	<p>Bibliography EMPR AR 1897-567; 1901-1118; *1902-239,252; 1905-250; 1907-221; 1916-312; 1920-222; 1928-365 EMPR ASS RPT 3099, 4626, 6600, 6599, 6972, 7183, 7435, 16871, 17836, 25714, 29537, 29840, 31970, *32278 EMPR BC METAL MM00059 EMPR EXPL 1977-E104; 1978-E120; 1979-122; 1988-C71 EMPR FIELDWORK 1987, pp. 81-91 EMPR GEM 1973-224 EMPR INDEX 3-217 EMPR OF 1988-8; 1999-2 GSC MAP 42A; 1386A; 1553A GSC MEM 13; 36; 96 GSC OF 463 GSC P 1972-44; 1975-1A, p. 23; 1979-30 Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Plutonic Rocks and Mineral Deposits, Ph.D. Thesis, Carleton University Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of British Columbia, Vol. 1: Vancouver Island, p. 92</p>
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MINFILE Number: 092B 004	Name: VICTORIA (L.21G)	Status: Past Producer
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Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
SAMPLE 2010 N	Assay/analysis Chip	Silver Copper	16.85 g/t 5.61 %	Chip samples, taken near the mouth of the adit Assessment Report 32278
UNDERGROUND WORKINGS 1902 N	Assay/analysis Grab	Silver	17.1000 g/t	Minister of Mines Annual Report, 1902, page 253.

MINFILE Number: 092B 004	Name: VICTORIA (L.21G)	Status: Past Producer
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Production Year	Tonnes Mined	Tonnes Milled	Commodity	Grams Recovered	Kilograms Recovered
1907	72	0	Silver	156	
			Gold	124	
			Copper		702
1905	10	0	Silver	746	
			Copper		1,072
1904	33	0	Silver	2,550	
			Copper		2,572

Summary Totals

MINFILE Number: 092B 004	Name: VICTORIA (L.21G)	Status: Past Producer
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	Metric	Imperial
Mined	115 tonnes	126 tons
Milled	0 tonnes	0 tons

Recovery:

Silver	3,452 grams	111 ounces
Gold	124 grams	4 ounces
Copper	4,346 kilograms	9,581 pounds

Comments:



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MINFILE Record Summary

MINFILE No 092B 028

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 Last Edit: 25-Jun-13 by Karl A. Flower(KAF)

SUMMARY

[Summary Help](#)

<p>Name ROSE</p> <p>Status Showing</p> <p>Latitude 48° 53' 01" N</p> <p>Longitude 123° 48' 52" W</p> <p>Commodities Mica, Sericite</p> <p>Tectonic Belt Insular</p> <p>Capsule The Rose occurrence is located on the southern slopes of Mount Brenton, approximately 2.2 kilometres south east of Holyoak Lake.</p> <p>Geology The area is underlain mainly by volcanic rocks of the Late Devonian McLaughlin Ridge Formation (Sicker Group) and by sediments of the Mississippian to Pennsylvanian Fourth Lake Formation (Buttle Lake Group). The local stratigraphy is disrupted by folding, faulting, (pre-Triassic as well as Late Tertiary) and the intrusions of gabbro and diabase sills and dykes (informally called the Mount Hall Gabbro) that are coeval with the Upper Triassic Karmutsen Formation.</p> <p>Most of the original rock textures and structures have been obliterated by extensive faulting, shearing and polyphase deformation, resulting in the formation of cataclastic schists. About 70 metres of sericite and graphitic schists, as well as non-schistose argillite have been exposed along the north side of a road. In the rocks a strongly developed schistosity strikes 065 degrees and dips 79 degrees north (Minister of Mines Annual Report 1965, page 268).</p> <p>In 2007, Laramide Resources completed a regional program of geochemical sampling and airborne geophysical surveys on the area as apart of the Lara property.</p>	<p>NMI</p> <p>Mining Division Victoria</p> <p>BCGS Map 092B081</p> <p>NTS Map 092B13W</p> <p>UTM 10 (NAD 83)</p> <p>Northing 5414837</p> <p>Easting 440291</p> <p>Deposit Types</p> <p>Terrane Wrangell</p>
<p>Bibliography</p> <p>EMPR AR *1965-268</p> <p>EMPR ASS RPT 29840, 31970</p> <p>EMPR FIELDWORK 1979, pp. 49-51</p> <p>EMPR IND MIN FILE (Mica Occurrences in BC (in Ministry Library))</p> <p>EMPR OF 1988-8</p> <p>GSC MAP 42A; 1386A; 1553A</p> <p>GSC MEM 13; 36; 96</p> <p>GSC OF 463; 701</p> <p>GSC P 72-44; 75-1A, p. 23; 79-30</p>	


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MINFILE Record Summary

MINFILE No 092B 040
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Last Edit:	25-Jun-13	by Karl A. Flower(KAF)	

SUMMARY

[Summary Help](#)

<p>Name SHARON COPPER, PAUPER (L.31G), BRENT, OAK, MONS, SHARRON</p> <p>Status Prospect</p> <p>Latitude 48° 52' 38" N</p> <p>Longitude 123° 49' 26" W</p> <p>Commodities Copper</p> <p>Tectonic Belt Insular</p> <p>Capsule The Sharon Copper prospect is located on the western side of the Chemainus River, approximately 14 kilometres north west of Duncan.</p> <p>Geology Several past-producers are located on Mount Sicker in the Cowichan uplift, one of three geanticlinal uplifts that expose Paleozoic Sicker and Buttle Lake Group rocks on Vancouver Island. Cretaceous sediments of the Nanaimo Group unconformably overlie the Paleozoic rocks; the contact is marked by a basal conglomerate containing volcanic fragments derived from the Sicker Group. The local stratigraphy is disrupted by folding, faulting (pre-Triassic as well as Tertiary) and the intrusions of diabase and gabbro sills (informally called the Mount Hall Gabbro) that are coeval with the Upper Triassic Karmutsen Formation (Vancouver Group). The target of exploration activity has been the volcanogenic, polymetallic massive sulphides that are hosted within felsic volcanic tuffs of the McLaughlin Ridge Formation (Sicker Group) and restricted to a belt running from Chipman Creek to Mount Richards, in the hangingwall of the Fulford fault.</p> <p>There are four main units underlying the Sharon area: andesitic feldspar porphyry, tuff breccia and rhyolite porphyry of the McLaughlin Ridge Formation intruded by a dyke and sill of metadiorite. The stratigraphic sequence is poorly exposed. Textures and assemblages indicate that the area has undergone regional greenschist metamorphism.</p> <p>Most of the original rock textures and structures have been obliterated by late shearing and extensive faulting. Structural styles are different between the lower volcanics and the upper sediments of the Paleozoic rock. The volcanics exhibit polyphase deformation, resulting in cataclastic schists. Adjacent sediments, interbedded cherts, siltstones and cherty tuffs, appear undeformed with only tilting or broad open folding. A major portion of the volcanic rocks exhibit strong, steeply dipping axial plane cleavage. Severe alteration has removed most indications of bedding, but isoclinal folding can be inferred from fold structures and extension joints perpendicular to lineations. An additional phase of folding, or a continuation of the first phase, is shown by small, tight isoclinal folding of axial plane cleavage. A possible third phase is indicated by box folds displayed by well foliated units in Copper Canyon.</p> <p>Sulphides are hosted by extremely sheared chlorite-sericite schist. Slabbed and polished rock surfaces have revealed that the schists were coarse lapilli tuffs. The sulphides are concentrated in two 10-metre wide horizons, forming the core of an antiform. Adjacent to the chlorite schists is the intrusive quartz-albite porphyry, which appears to be conformable. Sulphides, pyrite with very minor chalcocopyrite, are generally semi-massive to coarsely disseminated. The sulphides are recrystallized after deformation but appear to have undergone some later shearing. Similar sulphides are also encountered in fractures and quartz stringers in chlorite schist and in white quartz veins in gabbro.</p> <p>The Sharon prospect is believed to have originally been covered by the Pauper Crown grant (Lot 31G), a Crown grant that was issued in 1903. Underground development over the years has included three parallel adits 46 metres, 1.5 metres and 11 metres in length, respectively. The longer adit also has two crosscuts, totalling about 23 metres. The crosscuts averaged 1.45 per cent copper over 11 metres, 0.71 per cent over 7 metres and 0.92 per cent over 5.5 metres (Property File - Sharon Copper Mines, Plan of workings and drill holes, 1963).</p> <p>From 1977 through 1983, Esso completed various exploration programs in the area including soil sampling and geophysical surveys. In 1985, Kidd Creek Mines Limited drilled the property, intersecting 9.2 metres (4.6 metres true width) of 0.55 per cent copper, with up to 1.44 per cent copper over 2 metres (Assessment Report 14411).</p> <p>In 1990, Falconbridge Ltd. completed a four hole diamond drilling program, totalling 1801.7 metres. Hole CH90-126 intersected a 5.64 metres zone of chlorite-chalcocopyrite-pyrite stringers returning up to 0.57 per cent copper over 0.35 metres (Assessment Report 20957).</p> <p>In 2007, Laramide Resources completed a regional program of geochemical sampling and airborne geophysical surveys on the area as apart of the Lara property.</p>	<p>NMI Mining Division Victoria</p> <p>BCGS Map 092B081</p> <p>NTS Map 092B13W</p> <p>UTM 10 (NAD 83)</p> <p>Northing 5414134</p> <p>Easting 439591</p> <p>Deposit Types G06 : Noranda/Kuroko massive sulphide Cu-Pb-Zn</p> <p>Terrane Wrangell</p>
<p>Bibliography EMPR AR 1903-250; 1923-274; 1924-368; 1927-339 EMPR ASS RPT 936, 6548, 7323, 11116, 12379, 13744, *14411, 17649, *20957, 29840, 31970 EMPR EXPL 1977-E105; 1978-E121 EMPR FIELDWORK 1987, pp. 81-91 EMPR OF 1988-8; 1999-2 EMPR PF (Drill logs, and plans of Sharon workings, Sharon Copper Mines, 1963; See various related documents in the Lara file (092B 129)) GSC MAP 42A; 1386A; 1553A GSC MEM 13; 96 GSC OF 463 GSC P 1972-44; 1975-1A, p. 23; 1979-30 Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Plutonic Rocks and Mineral Deposits, Ph.D. Thesis, Carleton University Falconbridge File *Holbek, P. (1980): Geology and Geochronometry of the Sharron Volcanogenic Prospect, Mt. Brenton Area, Southwestern B.C., B.Sc. Thesis, University of British Columbia</p>	



MINFILE Inventory Detail Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

MINFILE Number: 092B 040	Name: SHARON COPPER	Status: Prospect
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Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
UNDERGROUND WORKINGS 1963 N	Assay/analysis Chip	Copper	1.4500 %	The sample interval was 11 metres. Plans of workings and drill holes, Sharon Copper Mines, 1963.


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MINFILE Record Summary**MINFILE No 092B 041**[XML Extract/Inventory Report](#)

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SUMMARY[Summary Help](#) **Name** WATER POWER-BRENTON, MILDRED (L.96)

Status Showing
Latitude [48° 52' 51" N](#)
Longitude [123° 49' 06" W](#)

Commodities Copper, Silver
Tectonic Belt Insular

Capsule Geology

The Water Power-Brenton occurrence is located on Holyoak Creek, approximately 1.5 kilometres north west of its junction with the Chemainus River.

The area is within the Cowichan uplift, is located in an area underlain mainly by andesitic to rhyolitic volcanics of the McLaughlin Ridge Formation, Sicker Group. The local stratigraphy is disrupted by folding, faulting (pre-Triassic as well as Tertiary) and the intrusions of gabbro and diabase sills and dykes (informally called the Mount Hall Gabbro) that are coeval with the Upper Triassic Karmutsen Formation (Vancouver Group). The showing is in the vicinity of the Lenora-Tyee (092B 001) and Lara (092B 110) volcanogenic massive sulphide deposits and may be considered to be of related origin.

The Sicker rocks on the Mildred Crown grant (Lot 96) have been locally metamorphosed to sericitic and chloritic schists which have a general northwest trending strike and foliation. Pyrite, with minor chalcopyrite, occurs as stringers, elongate masses or as disseminations within the schistose units. Sulphide content varies within the units but is generally between 2 and 5 per cent. Lenses of massive sulphides up to 2 metres thick occur throughout some of the schistose units.

On the old Water Power-Brenton claims on Holyoak Creek, down stream from the Mildred claim, a selected sample assayed 20.5 per cent copper, 103 grams per tonne silver and a trace of gold (Minister of Mines Annual Report 1923, page 274).

In 2007, Laramide Resources completed a regional program of geochemical sampling and airborne geophysical surveys on the area as apart of the Lara property.

Bibliography EMPR AR 1903-250; *1923-275
 EMPR ASS RPT *[6216](#), [6518](#), [6699](#), [7273](#), [7434](#), [11329](#), [19765](#), [29840](#), [31970](#)
 EMPR EXPL 1977-E105; 1978-E122; 1979-122
 EMPR FIELDWORK 1987, pp. 81-91
 EMPR OF 1988-8; 1999-2
 GSC MAP 42A; 1386A; 1553A
 GSC MEM 13; 36; 96
 GSC OF 463
 GSC P 1972-44; 1975-1A, p. 23; 1979-30
 Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Plutonic Rocks and Mineral Deposits, Ph.D. Thesis, Carleton University



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Ministry of Energy, Mines & Petroleum Resources

MINFILE Number: 092B 041 Name: WATER POWER-BRENTON Status: Showing

Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
SAMPLE 1923 N	Assay/analysis Grab	Silver Copper	103.0000 g/t 20.5000 %	Selected sample. Minister of Mines Annual Report 1923, page 275.



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MINFILE Record Summary

MINFILE No 092B 086

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SUMMARY

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Name	COPPER CANYON (L.22G), VICTORIA, ELMORE FRACTION	NMI	
Status	Showing	Mining Division	Victoria
Latitude	48° 52' 01" N	BCGS Map	092B081
Longitude	123° 48' 41" W	NTS Map	092B13W
Commodities	Copper, Silver	UTM	10 (NAD 83)
Tectonic Belt	Insular	Northing	5412982
Capsule	The Copper Canyon showing is located on the west bank of the Chemainus River, west and along strike of the volcanogenic-type Victoria (092B 004) past-producer, located on the opposite bank of the river.	Easting	440495
Geology	The area is underlain mainly by felsic volcanic tuffs of the McLaughlin Ridge Formation, Sicker Group. The rocks at the showing include graphitic schists and cherty sediments and tuffs which form a band within the rhyolitic volcanics. This is the same band of sediments which host the massive sulphides at the Lenora-Tyee (092B 001) deposit to the east. The strike of the sediments along the Chemainus River is about 080 degrees and the dip is 70 degrees south. An adit has been driven on a quartz vein which varies in width from 2.5 to 46 centimetres, averaging about 33 centimetres. The tunnel follows the vein for 41 metres at which point it stops (Minister of Mines Annual Report 1902). The vein is reported to contain mostly pyrite with some chalcopyrite and traces of sphalerite and galena. Gold values are reported to be low. A 91 metre shaft was later put down on the Copper Canyon group (presumably on the claim of the same name) with drifts driven off it. Some attractive copper showings were reported. Assessment Report 4626 (Figure 3) shows a shaft on the claim near the Chemainus River. In 1998, a self potential geophysical survey was completed. In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property. Chip samples, taken near the mouth of the adit, assayed up to 12.25 grams per tonne silver and 3.11 per cent copper (Assessment Report 32278).	Deposit Types	Wrangell
Bibliography	EMPR AR 1897-567; 1898-1148; 1901-1118; *1902-239,252; 1905-216; 1907-254; 1916-312; 1928-365 EMPR ASS RPT 3099 , 4626 , 6600 , 6599 , 6972 , 7183 , 7435 , 16871 , 17836 , 25714 , 31970 , *32278 EMPR EXPL 1977-E104; 1978-E120; 1979-122; 1988-C71 EMPR FIELDWORK 1987, pp. 81-91 EMPR GEM 1973-224 EMPR OF 1988-8 GSC MAP 42A; 1386A; 1553A GSC MEM 13; 36; 96 GSC OF 463 GSC P 1972-44; 1975-1A, p. 23; 1979-30 Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Plutonic Rocks and Mineral Deposits, Ph.D. Thesis, Carleton University *Holbek, P. (1980): Geology and Geochronometry of the Sharron Volcanogenic Prospect, Mt. Brenton Area, Southwestern B.C., B.Sc. Thesis, University of British Columbia		



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MINFILE Number: 092B 086	Name: COPPER CANYON (L.22G)	Status: Showing
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Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
SAMPLE		Copper	3.11 %	Chip samples, taken near the mouth of the adit
	Assay/analysis	Silver	12.25 g/t	Assessment Report 32278
2010 N	Chip			


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SUMMARY[Summary Help](#)

<p>Name KEY CITY (L.37G)</p> <p>Status Prospect</p> <p>Latitude 48° 52' 00" N</p> <p>Longitude 123° 47' 44" W</p> <p>Commodities Copper</p> <p>Tectonic Belt Insular</p> <p>Capsule Geology</p>	<p>NMI</p> <p>Mining Division Victoria</p> <p>BCGS Map 092B082</p> <p>NTS Map 092B13W</p> <p>UTM 10 (NAD 83)</p> <p>Northing 5412939</p> <p>Easting 441656</p> <p>Deposit Types</p> <p>Terrane Wrangell</p>	<p>The Key City occurrence is located on the western slopes of Mount Sicker, approximately 1.2 kilometres east of the Chemainus River.</p> <p>The area is within the Cowichan uplift; one of three geanticlinal uplifts that expose Paleozoic Sicker and Buttle Lake Group rocks on Vancouver Island. Cretaceous sediments of the Nanaimo Group unconformably overlie the Paleozoic rocks; the contact is marked by a basal conglomerate containing volcanic fragments derived from the Sicker Group. The local stratigraphy is disrupted by folding, faulting (pre-Triassic as well as Tertiary) and the intrusions of gabbro and diabase sills and dykes (informally known as the Mount Hall Gabbro) that are coeval with the Upper Triassic Karmutsen Formation.</p> <p>The Sicker Group rocks mainly comprise felsic volcanic tuffs of the McLaughlin Ridge Formation. The rocks in the area include graphitic schists and cherty sediments and tuffs which form a band within the rhyolitic volcanics. This is the same band of rock which hosts the massive sulphides on the Lenora-Tyee mines (092B 001) to the immediate east.</p> <p>The property was first explored by an adit run from south to north for about 160 metres in order to intersect the projected extension of the Lenora orebody. Overall the adit cuts about 60 metres of diorite and 100 metres of schist. A shaft runs 30 metres from the surface to intersect the adit about 100 metres from the portal. The shaft then continues down to the 60 metre-level where a crosscut is made 60 metres to the south. There are several places in the schists where a small amount of pyrite and chalcopyrite show in small stringers or disseminations but no orebody was intersected.</p> <p>In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property.</p>
<p>Bibliography</p>	<p>EMPR AR 1897-567; 1900-995; *1902-240,251; 1916-312; 1924-252</p> <p>EMPR ASS RPT 1104, 1714, 3950, 3951, 5164, 12371, 14735, 15719, 18859, 19754, 32278</p> <p>EMPR EXPL 1978-E119; 1980-153</p> <p>EMPR FIELDWORK 1982, p. 46; 1987, pp. 81-91</p> <p>EMPR GEM 1969-224; 1970-291; 1972-240; 1974-163</p> <p>EMPR OF 1988-8</p> <p>EMPR PF (See Lenora - 92B 001 for related material)</p> <p>GSC MAP 42A; 1386A; 1553A</p> <p>GSC MEM 13; 36; 96</p> <p>GSC OF 463</p> <p>GSC P 1972-44; 1975-1A, p. 23; 1979-30</p> <p>CIM Transactions Vol.XLVIII, 1945, pp. 294-308</p> <p>CIM Vol.1, pp. 88-93</p> <p>Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Plutonic Rocks and Mineral Deposits, Ph.D. Thesis, Carleton University</p>	


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SUMMARY[Summary Help](#)

<p>Name QUEEN BEE (L.100G)</p> <p>Status Showing</p> <p>Latitude 48° 52' 29" N</p> <p>Longitude 123° 47' 05" W</p> <p>Commodities Copper, Zinc, Gold</p> <p>Tectonic Belt Insular</p> <p>Capsule Geology The Queen Bee occurrence is located on the western slopes of Mount Sicker, north of Nugget Creek.</p> <p>The area is within the Cowichan uplift and is underlain mainly by andesitic and rhyolitic volcanics of the McLaughlin Ridge Formation, Sicker Group. The local stratigraphy is disrupted by folding, faulting (pre-Triassic as well as Tertiary) and the intrusions of gabbro and diabase sills and dykes (informally known as the Mount Hall Gabbro) that are coeval with the Upper Triassic Karmutsen Formation. The showing lies 1 kilometre to the north of the Lenora-Tyee volcanogenic massive sulphide deposit (092B 001) and is of related origin.</p> <p>By 1898, a 20-metre tunnel had been driven into a reef (quartz vein) that contained free milling gold. Two shafts were reported in 1900; one 21 metres deep with 37 metres of drifting and the other almost 11 metres deep with 24 metres of opencut.</p> <p>In 1986, Corporation Falconbridge Copper (Minnova) drilled two holes on the old Queen Bee Crown grant, in order to test the "Mine Package". Both holes (MTS-25,26) intersected a mineralized, chloritized and locally barium enriched package consisting of well-bedded dacitic ash, tuff and chert. The package contained up to 20 per cent pyrite and 6 per cent chalcopyrite. One sample assayed 0.99 per cent copper and 1.18 per cent zinc over 1.45 metres (Assessment Report 15719). Pyrite-pyrrhotite-chalcopyrite stringer mineralization was encountered in epidotized andesitic volcanics stratigraphically above the "Mine Package" in both holes.</p> <p>In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property. Chip samples, taken from the adit, assayed up to 0.26 per cent copper (Assessment Report 32278).</p> <p>Bibliography EMPR AR *1898-1148; 1900-929; 1901-1232A; 1903-250 EMPR ASS RPT 3950, 3951, 4904, 5164, 7714, *7875, 8264, 12172, 14735, *15719, 16716, 17834, 19754, *32278 EMPR EXPL 1977-E104; 1978-E121; 1979-121 EMPR FIELDWORK 1987, pp. 81-91 EMPR GEM 1972-240; 1974-163; 1977-E104; 1978-E121 EMPR OF 1988-8; 1999-2 GSC MAP 42A; 1386A; 1553A GSC MEM 13; 36; 96 GSC OF 463 GSC P 1972-44; 1975-1A, p. 23; 1979-30 Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Plutonic Rocks and Mineral Deposits, Ph.D. Thesis, Carleton University</p>	<p>NMI</p> <p>Mining Division Victoria</p> <p>BCGS Map 092B082</p> <p>NTS Map 092B13W</p> <p>UTM 10 (NAD 83)</p> <p>Northing 5413826</p> <p>Easting 442460</p> <p>Deposit Types G06 : Noranda/Kuroko massive sulphide Cu-Pb-Zn</p> <p>Terrane Wrangell</p>
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MINFILE Number: 092B 088	Name: QUEEN BEE (L.100G)	Status: Showing
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Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
SAMPLE 2010 N	Assay/analysis Chip	Copper	0.26 %	Chip samples, taken from the adit Assessment Report 32278
DRILLHOLE 1986 N	Assay/analysis Drill Core	Copper Zinc	0.9900 % 1.1800 %	From a 1.45 metre drill interval. Assessment Report 15719.



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MINFILE Record Summary**MINFILE No 092B 089**[XML Extract/Inventory Report](#)

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SUMMARY

Summary Help

<p>Name BELLE (L.55G), LITTLE NUGGET (L.33G), SEATTLE (L.57G), SCOTCH, L.55G</p> <p>Status Showing</p> <p>Latitude 48° 52' 29" N</p> <p>Longitude 123° 47' 03" W</p> <p>Commodities Copper</p> <p>Tectonic Belt Insular</p> <p>Capsule Geology The Belle occurrence is located on the western slopes of Mount Sicker, north of Nugget Creek.</p> <p>The area is located within the Cowichan uplift and is underlain mainly by andesitic to rhyolitic tuffs of the McLaughlin Ridge Formation, Sicker Group. The local stratigraphy is disrupted by folding, faulting (pre-Triassic as well as Late Cretaceous) and the intrusions of gabbro and diabase sills and dykes that are coeval with the Upper Triassic Karmutsen Formation. The showing lies about 1 kilometre to the north of the Lenora-Tyee volcanogenic massive sulphide deposit (092B 001) and is of related origin.</p> <p>In 1897, it was reported that two very large veins 6 to 12 metres in width occur about 30 metres apart in dioritic rock. No work was done on them at that time.</p> <p>In 1980, Serem Limited drilled four diamond drill holes in order to test a package of variably siliceous schists that originated as tuffs and flows and which are similar in nature to the package hosting the Lenora-Tyee deposit. The schists, locally chlorite and sericite altered, appear to form a south dipping panel having a hanging wall and footwall of gabbro. North of the drill holes there is a transition to andesitic rock. Pyrite and chalcopyrite occur as disseminations or in association with quartz-calcite veins. It is common to see the sulphides concentrated along the schistosity as fine to coarse grains. In drill hole SRM 18 an average grade of 0.37 per cent copper occurs over 4.6 metres (Assessment Report 8264).</p> <p>In 2010 and 2011, Rock-Con Resources completed a program of prospecting and rock sampling on the Mount Sicker property.</p> <p>Bibliography EMPR AR 1897-567; 1920-222 EMPR ASS RPT 3950, 3951, 4904, 5164, 7714, *7875, *8264, 12172, 14735, 15719, 16716, 19754, 32278 EMPR FIELDWORK 1987, pp. 81-91 EMPR GEM 1972-240; 1974-163 EMPR OF 1988-8; 1999-2 GSC MAP 42A; 1386A; 1553A GSC MEM 13; 36; 96 GSC OF 463 GSC P 1972-44; 1975-1A, p. 23; 1979-30 Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island with Emphasis on the Relationship of Plutonic Rocks and Mineral Deposits, Ph.D. Thesis, Carleton University</p>	<p>NMI Mining Division Victoria</p> <p>BCGS Map 092B082</p> <p>NTS Map 092B13W</p> <p>UTM 10 (NAD 83)</p> <p>Northing 5413826</p> <p>Easting 442501</p> <p>Deposit Types Terrane G06 : Noranda/Kuroko massive sulphide Cu-Pb-Zn Wrangell</p>
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MINFILE Inventory Detail Report
BC Geological Survey
Ministry of Energy, Mines & Petroleum Resources

MINFILE Number: 092B 089 **Name:** BELLE (L.55G) **Status:** Showing

Ore Zone/ Year/Report On	Tonnage/ Category	Commodity	Grade	Reference/ Comments
DRILLHOLE 1979 N	Assay/analysis Drill Core	Copper	0.3700 %	The assay is from a 4.6 metre drill interval. Assessment Report 8264.

Mt. Sicker Property Production Summary

MINFILE No.	MINFILE Name	Year From	Year To	Tonnes Mined	Copper kilograms	Copper Grade %	Lead kilograms	Lead Grade %	Zinc kilograms	Zinc Grade %	Cadmium kilograms	Cadmium Grade %	Silver grams	Silver Grade g/t	Gold grams	Gold Grade g/t
092B 001	Lenora	1898	1964	119,831	3,595,397	3.00%	164,587	0.14%	1,926,111	1.61%	4,546	0.004%	10,721,545	89.47	386,145	3.22
092B 002	Tyee	1901	1909	152,668	5,840,593	3.83%		0.00%		0.00%		0.000%	13,725,069	89.90	762,553	4.99
092B 003	Richard 3	1903	1907	4,903	113,604	2.32%		0.00%		0.00%		0.000%	522,717	106.61	22,830	4.66
092B 004	Victoria	1904	1907	115	4,346	3.78%		0.00%		0.00%		0.000%	3,452	30.02	124	1.08
TOTALS/AVERAGES		1898	1964	277,517	9,553,940	3.44%	164,587	0.14%	1,926,111	1.61%	4,546	0.004%	24,972,783	89.99	1,171,652	4.22

Appendix 5

BC Mineral Deposit Profiles

NORANDA/KUROKO MASSIVE SULPHIDE Cu-Pb-Zn

G06

by Trygve Höy
British Columbia Geological Survey

Høy, Trygve (1995): Noranda/Kuroko Massive Sulphide Cu-Pb-Zn, in Selected British Columbia Mineral Deposit Profiles, Volume 1 - Metallics and Coal, Lefebvre, D.V. and Höy, T., Editors, British Columbia Ministry of Employment and Investment, Open File 1995-20, pages 53-54.

IDENTIFICATION

SYNONYM: Polymetallic volcanogenic massive sulphide.

COMMODITIES (BYPRODUCTS): Cu, Pb, Zn, Ag, Au (Cd, S, Se, Sn, barite, gypsum).

EXAMPLES (British Columbia - Canada/International): Homestake ([082M 025](#)), Lara ([092B 001](#)), Lynx ([092B 129](#)), Myra ([092F 072](#)), Price ([092F 073](#)), H-W ([092F 330](#)), Ecstall ([103H 011](#)), Tulsequah Chief ([104K 011](#)), Big Bull ([104K 008](#)), Kutcho Creek ([104J 060](#)), Britannia ([092G 003](#)); Kidd Creek (Ontario, Canada), Buchans (Newfoundland, Canada), Bathurst-Newcastle district (New Brunswick, Canada), Horne-Queumont (Québec, Canada), Kuroko district (Japan), Mount Lyell (Australia), Rio Tinto (Spain), Shasta King (California, USA), Lockwood (Washington, USA).

GEOLOGICAL CHARACTERISTICS

CAPSULE DESCRIPTION: One or more lenses of massive pyrite, sphalerite, galena and chalcopyrite commonly within felsic volcanic rocks in a calcalkaline bimodal arc succession. The lenses may be zoned, with a Cu-rich base and a Pb-Zn-rich top; low-grade stockwork zones commonly underlie lenses and barite or chert layers may overlie them.

TECTONIC SETTING: Island arc; typically in a local extensional setting or rift environment within, or perhaps behind, an oceanic or continental margin arc.

DEPOSITIONAL ENVIRONMENT / GEOLOGICAL SETTING: Marine volcanism; commonly during a period of more felsic volcanism in an andesite (or basalt) dominated succession; locally associated with fine-grained marine sediments; also associated with faults or prominent fractures.

AGE OF MINERALIZATION: Any age. In British Columbia typically Devonian; less commonly Permian-Mississippian, Late Triassic, Early (and Middle) Jurassic, and Cretaceous.

HOST/ASSOCIATED ROCK TYPES: Submarine volcanic arc rocks: rhyolite, dacite associated with andesite or basalt; less commonly, in mafic alkaline arc successions; associated epiclastic deposits and minor shale or sandstone; commonly in close proximity to felsic intrusive rocks. Ore horizon grades laterally and vertically into thin chert or sediment layers called informally "exhalites".

DEPOSIT FORM: Concordant massive to banded sulphide lens which is typically metres to tens of metres thick and tens to hundreds of metres in horizontal dimension; sometimes there is a peripheral apron of "clastic" massive sulphides; underlying crosscutting "stringer" zone of intense alteration and stockwork veining.

TEXTURE/STRUCTURE: Massive to well layered sulphides, typically zoned vertically and laterally; sulphides with a quartz, chert or barite gangue (more common near top of deposit); disseminated, stockwork and vein sulphides (footwall).

ORE MINERALOGY (Principal and subordinate): Upper massive zone: pyrite, sphalerite, galena, chalcopyrite, pyrrhotite, tetrahedrite-tennantite, bornite, arsenopyrite. Lower massive zone: pyrite, chalcopyrite, sphalerite, pyrrhotite, magnetite.

GANGUE MINERALOGY: Barite, chert, gypsum, anhydrite and carbonate near top of lens, carbonate quartz, chlorite and sericite near the base.

ALTERATION MINERALOGY: Footwall alteration pipes are commonly zoned from the core with quartz, sericite or chlorite to an outer zone of clay minerals, albite and carbonate (siderite or ankerite).

ORE CONTROLS: More felsic component of mafic to intermediate volcanic arc succession; near centre of felsic volcanism (marked by coarse pyroclastic breccias or felsic dome); extensional faults.

ASSOCIATED DEPOSIT TYPES: Stockwork Cu deposits; vein Cu, Pb, Zn, Ag, Au.

EXPLORATION GUIDES

GEOCHEMICAL SIGNATURE: Zn, Hg and Mg halos, K addition and Na and Ca depletion of footwall rocks; closer proximity to deposit - Cu, Ag, As, Pb; within deposit - Cu, Zn, Pb, Ba, As, Ag, Au, Se, Sn, Bi, As.

GEOPHYSICAL SIGNATURE: Sulphide lenses usually show either an electromagnetic or induced polarization signature depending on the style of mineralization and presence of conductive sulphides. In recent years borehole electromagnetic methods have proven successful.

OTHER EXPLORATION GUIDES: Explosive felsic volcanics, volcanic centres, extensional faults, exhalite (chert) horizons, pyritic horizons.

ECONOMIC FACTORS

GRADE AND TONNAGE: Average deposit size is 1.5 Mt containing 1.3% Cu, 1.9 % Pb, 2.0 % Zn, 0.16 g/t Au and 13 g/T Ag (Cox and Singer, 1986). British Columbia deposits range from less than 1 to 2 Mt to more than 10 Mt. The largest are the H-W (10.1 Mt with 2.0 % Cu, 3.5 % Zn, 0.3 % Pb, 30.4 g/t Ag and 2.1 g/t Au) and Kutcho (combined tonnage of 17 Mt, 1.6 % Cu, 2.3 % Zn, 0.06 % Pb, 29 g/t Ag and 0.3 g/t Au).

IMPORTANCE: Noranda/Kuroko massive sulphide deposits are major producers of Cu, Zn, Ag, Au and Pb in Canada. Their high grade and commonly high precious metal content continue to make them attractive exploration targets.

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