

2013 DATA COMPILATION AND GEOCHEMICAL ASSESSMENT REPORT
FOR THE

FIRE (Chzerpnough) and ICE (BNOB) Properties

Watson Lake Mining Division
Mapsheets 105-F-09,10
Latitude 61° 35' N, Longitude 132°29'W
NTS 6832001 N / 633500 E

Prepared for

EAGLE PLAINS RESOURCES LTD

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SUMMARY

The FIRE (formerly the Chzerpnough), ICE (formerly the BNOB) properties consist of 292 units located in the McConnell / Ketz River area of the Yukon Territory, approximately 40 km south of Ross River in the Watson Lake Mining district. The claims are centered at Latitude 61° 35' N, Longitude 132°29'W; NTS 6832001 N / 633500 E. The claims are owned 100% by Eagle Plains Resources Ltd.

The claims overlie Mississippian aged intermediate to felsic volcanic rocks and similar aged sediments of the Pelly Mountain Volcanic Belt (PMVB). The stratigraphy includes pyritic trachyte, pyritic lapilli tuffs, crystal tuffs, and volcanoclastic debris flows and is thought to be correlative to the host stratigraphy at the nearby Wolf and MM VMS exhalative type base metal deposits. Historical geological fieldwork on the properties by Atna Resources, Cyprus Anvil and others identified favorable stratigraphy and mineralization associated with Volcanogenic Massive Sulphide (VMS) deposits including extensive barium-mercury-lead-zinc-silver soil geochemical anomalies and barite-sphalerite-galena-pyrite mineralization within a pyrite-altered felsic volcanic package.

The 2013 data compilation involved integration of multiple sources of historic data into a modern, normalized digital database. Such a compilation was warranted since only a small number of the major elements of interest (Ag, Pb, Zn and Ba) were in the current database. Compilation involved the consolidation of various historic databases into one modern format along with digitization of sample locations, sample descriptions and geochemical results.

Although this allowed for 1st order targeting of obvious rock, silt and soil geochemical anomalies, it is also strongly believed that geochemical analysis utilizing trace element geochemistry (Fe, Sc, Sb, Cd ... ect.) can readily identify false anomalies resulting from hydromorphic transport. In particular, residual analysis of certain economic elements with respect to iron can identify hydromorphic anomalies associated with the co-precipitation of cations with Fe. Geostatistical analysis of background values of different rock types on the property can also help identify false soil and perhaps silt anomalies as well.

Analysis of the revised database was successful in defining a number of Cu and Zn anomalies that suggest a primary nature rather than hydromorphic. Analysis of soil data, subdivided into geologic domains also suggest that there are highly variable background/anomalous values for all elements of interest depending on underlying bedrock geology.

Total expenditures for the 2013 data compilation and analysis were \$6,287.70.

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INTRODUCTION

The Fire-Ice properties are situated in south-central Yukon (Figure 1) roughly 44 kilometres south of Ross River. The Fire, Ice, Ash, Salt, Char, Eva and Cole claim groups comprise a number of adjoining claims that make up the property.

Through mapping of correlative PMVB rocks on other Eagle Plains Resources properties elsewhere in Pelly Mountains, mainly on the MM (Ash, Brown and Gallagher, 2007) and EROS properties (Ash and Brown, 2006), in conjunction with a detailed analysis of the available PMVB literature (Ash, 2007), a stratigraphic section for the belt is being developed. Results of this work to date have shown that mafic volcanic rocks are much more prevalent than previously recognized and are suggested to be a lower stratigraphic component of the PMVB. The presence of these rocks also appear to play an important role in localizing VMS styles of mineralization.

Location And Access

The FIRE (Chzerpnough) and ICE (BNOB) properties are located in the south-central Yukon Territory between the Ketza River and McConnell River drainages, centered at approximately Latitude 61° 35' N, Longitude 132°29'W; NTS 6832001 N / 633500 E (Figure 1). Access to the property is by helicopter, with the nearest base located in Ross River, approximately 35 km north of the property boundary. Gear and personnel mobilization can be carried out from the Ketza River Mine road located approximately 15 km east of the property boundary. There is also an established exploration trail located west of the ICE / BNOB showing area which could provide access from the Seagull Lake–Ground Hog Creek area. The claims cover alpine to sub-alpine terrain within the St. Cyr Range of the Pelly Mountains. Elevations on the claims range from 1150 to 2001 metres, with topography ranging from moderate to very steep. Outcrop exposure is 10 – 20 % with a thin veneer of colluvium or talus typically developed.

Tenure

The property consists of 112 Quartz claims (Table 1; Figure 2), located on the Cloutier Creek and Pass Peak Map sheets within the Watson Lake Mining District. The claims, once contiguous, now consist of three separate groupings: the Fire (18 claim blocks), Ice (88 claim blocks) and the Melt (6 claim blocks). Only the Fire and Ice claim blocks are included in this report. The claims are owned 100% by Eagle Plains Resources Ltd., with an underlying 1% NSR carried by Bernie Kreft of Whitehorse, Yukon.

Table 1 – Fire – Ice Tenure Summary

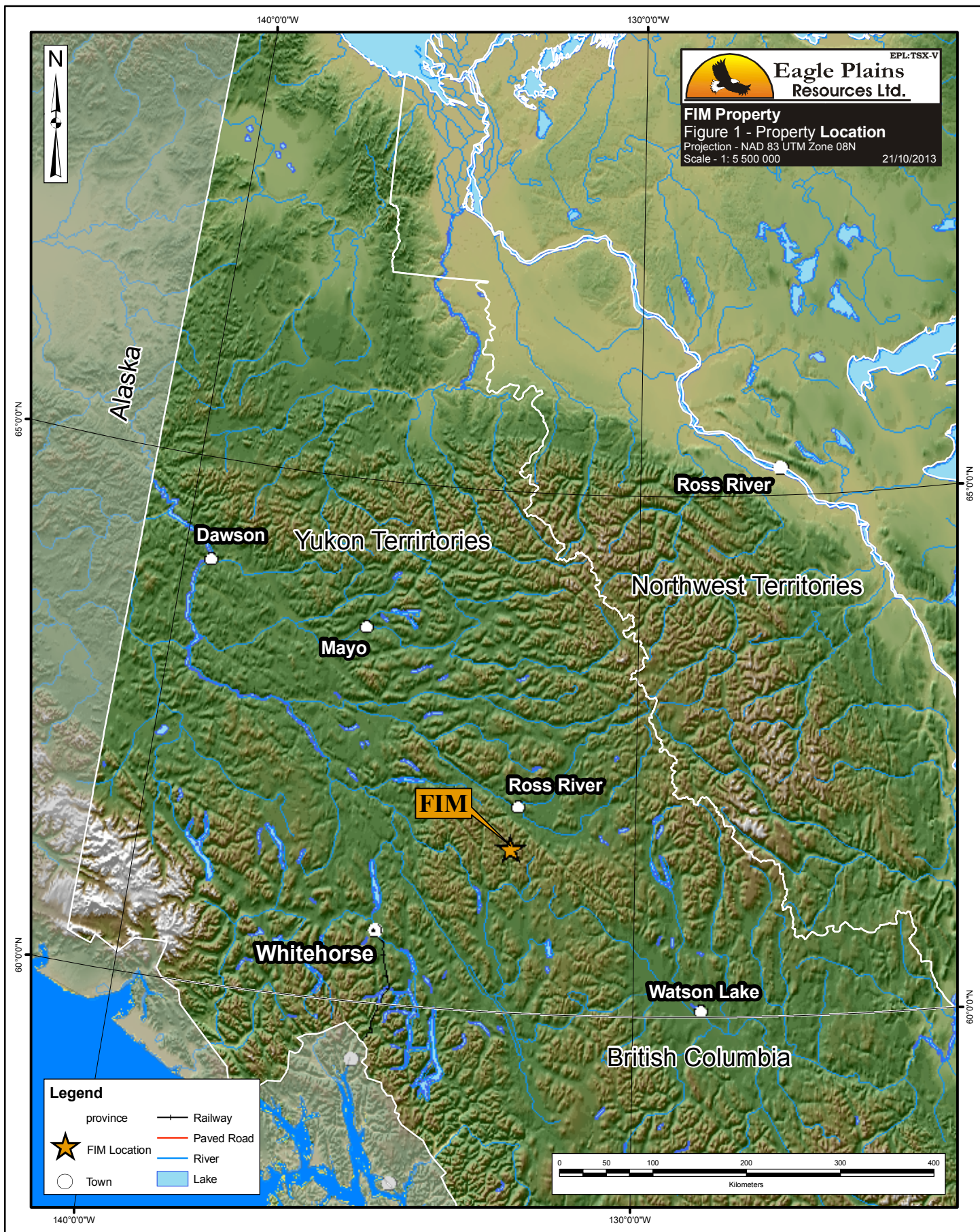
Grant	Type	Status	Name	Number	Owner	Recorded	GoodTo	Area_ha
YB93574	Quartz	Active	EVA 8	210358	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5296346*
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YB93583	Quartz	Active	EVA 17	210358	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5259188*
YB74417	Quartz	Active	FIRE 7	210357	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.4988971*
YB89931	Quartz	Active	ICE 15	210357	EAGLE PLAINS RESOURCES	9/16/1997	11/6/2013	3.4832804*

Grant	Type	Status	Name	Number	Owner	Recorded	GoodTo	Area_ha
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YB74419	Quartz	Active	FIRE 9	210361	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.4808017*
YB92847	Quartz	Active	ASH 18	210361	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5303971*
YB74425	Quartz	Active	ICE 3	210361	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2013	3.5571381*
YB93027	Quartz	Active	SALT 14	210361	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5864490*
YB92842	Quartz	Active	ASH 13	210360	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5304293*
YB92846	Quartz	Active	ASH 17	210360	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5299824*
YB74416	Quartz	Active	FIRE 6	210360	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.4427234*
YB74418	Quartz	Active	FIRE 8	210360	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.5261878*
YB74413	Quartz	Active	FIRE 3	210360	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.4334124*
YB92942	Quartz	Active	CHAR 37	210360	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5348144*
YB74422	Quartz	Active	FIRE 12	210360	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.5882887*
YB93025	Quartz	Active	SALT 12	210374	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.4341403*
YB89927	Quartz	Active	ICE 11	210374	EAGLE PLAINS RESOURCES LTD. - 100%	9/16/1997	11/6/2013	3.5448426*
YB93028	Quartz	Active	SALT 15	210385	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.6008654*
YB92935	Quartz	Active	ICE 104	210385	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5229102*
YB92836	Quartz	Active	ASH 7	210385	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5316675*
YB93571	Quartz	Active	EVA 5	210403	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5289863*
YB93568	Quartz	Active	EVA 2	210403	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5286156*
YB92941	Quartz	Active	CHAR 36	210402	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5718202*
YB74426	Quartz	Active	ICE 4	210401	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2013	3.5448460*
YB92940	Quartz	Active	CHAR 35	210402	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5638280*
YB74412	Quartz	Active	FIRE 2	210402	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.4533399*
YB93578	Quartz	Active	EVA 12	210402	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5290777*
YB93580	Quartz	Active	EVA 14	210402	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5295635*
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Grant	Type	Status	Name	Number	Owner	Recorded	GoodTo	Area_ha
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YB93576	Quartz	Active	EVA 10	210455	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5288640*
YB92853	Quartz	Active	ICE 22	210455	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5528715*
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YB92927	Quartz	Active	ICE 96	210461	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.4508828*
YB93585	Quartz	Active	EVA 19	210465	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5286166*
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YB93023	Quartz	Active	SALT 10	210474	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.4523328*
YB93026	Quartz	Active	SALT 13	210480	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5861119*
YB92933	Quartz	Active	ICE 102	210483	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5318549*
YB92924	Quartz	Active	ICE 93	210483	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.4840789*
YB93567	Quartz	Active	EVA 1	210488	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5283697*
YB92833	Quartz	Active	ASH 4	210488	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5306662*
YB92837	Quartz	Active	ASH 8	210486	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5312318*
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YB74424	Quartz	Active	ICE 2	210498	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2013	3.5299745*
YB93588	Quartz	Active	EVA 22	210498	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5284588*
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YB74427	Quartz	Active	ICE 5	210515	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2013	3.5721490*
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YB89932	Quartz	Active	ICE 16	210529	EAGLE PLAINS RESOURCES LTD. - 100%	9/16/1997	11/6/2013	3.5020392*
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YB93024	Quartz	Active	SALT 11	210541	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.4330678*
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Grant	Type	Status	Name	Number	Owner	Recorded	GoodTo	Area_ha
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YB89928	Quartz	Active	ICE 12	210564	EAGLE PLAINS RESOURCES LTD. - 100%	9/16/1997	11/6/2013	3.5628937*
YB92844	Quartz	Active	ASH 15	210559	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5301868*
YB92926	Quartz	Active	ICE 95	210562	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.4640461*
YB92855	Quartz	Active	ICE 24	210562	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5727847*
YB93593	Quartz	Active	EVA 27	210599	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5296217*
YB92943	Quartz	Active	CHAR 38	210599	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5306928*
YB74421	Quartz	Active	FIRE 11	210600	EAGLE PLAINS RESOURCES LTD. - 100%	2/6/1996	11/6/2014	3.4658218*
YB93572	Quartz	Active	EVA 6	210588	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5293793*
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YB89930	Quartz	Active	ICE 14	210625	EAGLE PLAINS RESOURCES LTD. - 100%	9/16/1997	11/6/2013	3.5035379*
YB93029	Quartz	Active	SALT 16	210612	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5907592*
YB93586	Quartz	Active	EVA 20	210606	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5282150*
YB92932	Quartz	Active	ICE 101	210640	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5321627*
YB92945	Quartz	Active	CHAR 40	210648	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5388173*
YB93569	Quartz	Active	EVA 3	210646	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5285700*
YB93581	Quartz	Active	EVA 15	210635	EAGLE PLAINS RESOURCES LTD. - 100%	11/6/2001	11/6/2013	3.5221490*
YB84555	Quartz	Active	ICE 7	210634	EAGLE PLAINS RESOURCES LTD. - 100%	6/20/1996	11/6/2013	3.5222083*
YB92944	Quartz	Active	CHAR 39	210638	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5370832*
YB92840	Quartz	Active	ASH 11	210630	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5251837*
YB92850	Quartz	Active	ICE 19	210650	EAGLE PLAINS RESOURCES LTD. - 100%	9/14/2000	11/6/2013	3.5716928*



History And Previous Work

The FIRE and ICE claim blocks are located approximately seven kilometres apart and have been worked in the past as separate properties. The original FIRE 1 – 12 claims were staked by Bernie Kreft of Whitehorse, YT, in 1996 on behalf of Eagle Plains Resources. The twelve contiguous claims were staked to cover a soil geochemical anomaly, a geophysical (magnetic and I.P.) target and associated mineralized outcrops which were thought to represent a positive exploration environment for volcanogenic massive sulphide (VMS) mineralization.

The exploration target was originally recognized during an exploration program carried out by Cyprus-Anvil Mining Corporation in 1977 that worked the area described as the Chzernpough Claims. A soil geochemical survey conducted in 1977, using a chained and picketed grid, outlined soil anomalies that were interpreted as being (potentially) more extensive than would be expected from the mineralization observed in outcrop. Ground based magnetic and IP geophysical surveys conducted by Cyprus-Anvil revealed a small conductive target associated with a magnetic anomaly, coincident with both a large Zn-Pb soil geochemical anomaly and a sedimentary barite horizon outlined by previous exploration work.

After staking the FIRE claims in 1996, Eagle Plains Resources undertook a reconnaissance geological exploration program consisting of geological mapping, minor hand trenching and geochemical sampling. The work program was designed to test the mineral potential of the property through following up on anomalous results from previous soil geochemical surveys and a previous geological mapping and sampling program. The program was conducted under the direction of John Dickie, M.Sc., identifying many features associated with VMS type deposits including vent-proximal felsic volcanic stratigraphy, represented by lapilli-boulder tuff and clastic debris shed from a volcanic edifice, and a strong geochemical trend in talus fines, reflected by large anomalies with highly anomalous zinc, lead, silver and copper values.

Anomalous fluorine, occurring as purple fluorite, was found associated with the vent-proximal stratigraphy. Since high fluorine values are commonly associated with lead-zinc mineralization in other volcanogenic massive sulphide deposits, fluorite is regarded as a prospective exploration target on the FIRE claims. The program also identified a distinct stratigraphic horizon mineralized with barite-sphalerite-galena and minor chalcopyrite that appeared to explain part of the soil anomaly. Selected rock samples returned up to 7.12% zinc, 7.82% lead, 72.9 gm/t silver and 1.063 gm/t gold. The sedimentary barite horizon containing sphalerite and galena could not be sampled due to extensive snow cover. The conclusions from the program were that mineralization appears to be stratiform and the strongest geochemical indications, from rock and talus fine sampling, are that the target horizon lies along the northwest edge of the property. As part of the 1996 program, additional contiguous claims (CHAR 1 – 30) were staked to cover prospective VMS stratigraphy to the northwest. Additional work was recommended for the FIRE 1-12 and CHAR 1-30 claims in order to further test the extent of known mineralization.

In 1997, Eagle Plains Resources continued geological work on the FIRE and CHAR claims with a program of hand trenching, geological mapping and rock sampling. The purpose of this work was to locate and assess a barite float train reported to occur on the property. The program successfully identified the barite float train but did not find the source. Samples of barite float returned values of up to 56.1 gm/t Ag, 5760 ppm Pb and 812 ppm Zn. The program also located a heavily pyritized, flow

banded rhyolite which returned values of up to 2280 ppm Pb and 1709 ppm Zn. Again, more work was recommended.

Eagle Plains Resources optioned the FIRE/CHAR claims to Atna Resources Ltd in October 1997 after Atna's discovery of VMS mineralization at the Wolf property in the Finlayson Lake area. In 1998 Atna carried out geological mapping, soil and rock geochemistry and airborne and ground geophysical surveys. Geological mapping confirmed the presence of a widespread package of silica and sericite altered intermediate to felsic volcanic and volcanoclastic rocks containing pyrite, barite, and galena. Associated with these rocks were a number of coincident barium–mercury–lead–zinc soil geochemical anomalies. Both the ground based MaxMin horizontal loop EM survey and the airborne EM–VLF surveys located anomalies consistent with the signature associated with the Wolf deposit. Although Atna recommended further work on the property including diamond drilling, the option agreement was terminated in 1999 and the property was returned to Eagle Plains Resources.

The ICE property was originally staked in 1976 as the BNOB claims during a prospecting joint venture between Hudson's Bay Oil and Gas Company Limited and Cyprus Anvil Mining Corporation. The claims were staked to cover a surface showing of massive sedimentary barite. Work completed from 1976 to 1980 by Cyprus Anvil included soil sampling, mapping and magnetometre and EM geophysical surveying. In 1980 a single drillhole was completed in an attempt to test for VMS style mineralization associated with the barite horizon. The hole failed to intersect barite or VMS mineralization and it was interpreted to have been collared below the barite horizon (Pigage, 1980). This interpretation is borne out by more recent work which indicates that the hole was collared in the stratigraphic footwall of the barite horizon.

The area was restaked in 1996 on behalf of Eagle Plains Resources Ltd as the ICE claims by Bernie Kreft of Whitehorse, Yukon. A program of limited geological mapping/prospecting plus soil/talus geochemical sampling was completed during the 1996 field season. The grid geochemistry outlined an anomalous area of lead-zinc spatially associated with the trend of a bedded exhalative barite showing. A new showing of barite-galena-sphalerite was also discovered and sampled. In 1997, Eagle Plains Resources continued geological assessment of the ICE claims for VMS style mineralization. Hand trenching and rock sampling in the areas of the barite showings was completed. Results confirmed the tenor and style of the mineralization as VMS type and further work was recommended.

Atna Resources Ltd. optioned the ICE property in 1997. The 1998 Atna program included geological mapping, soil sampling and 5.6 km of ground HLEM geophysical surveys. Soil geochemistry defined three zones of coincident anomalous lead and zinc corresponding to the BNOB, ICE 1 and GULLY Zone showing areas. Geological mapping of the BNOB showing area defined a NE trending NW dipping strataform barite body occurring within a pyrite-lapilli tuff and a pyritic trachyte. The HLEM survey located two weak conductors which were interpreted to be related to a black, graphitic argillite unit occurring in the area of the anomaly trace. Atna geologists concluded that the BNOB barite showing occurs in the correct stratigraphic position relative to the Wolf property to represent the same mineralized horizon. A single drillhole was recommended to test the BNOB stratigraphy but was not drilled. The property was returned to Eagle Plains Resources in 1999.

Eagle Plains Resources completed a two phase work program on the FIRE/ICE properties in 2000. The initial phase was completed in July 2000 and consisted of geological mapping and ground truthing of historic work. Field crews were stationed in Ross River and mobilized to the properties using a Trans North Helicopters Bell 206. Field mapping carried out by C. J. Greig, PhD focused on areas of

prospective VMS host stratigraphy identified by historic work programs. Priority drill targets on both properties were identified. The second phase of the 2000 FIRE/ICE exploration work involved diamond drill testing of selected phase one targets. On the FIRE property, six holes were collared on two different sites, and a single hole was completed on the ICE property. A total of 616 m (2021 ft) was completed using a heli-portable diamond drill.

VMS exhalative type base metal mineralization similar to the nearby Wolf and MM occurrences was intersected on both the FIRE and ICE properties at drill locations approximately 7km apart. On the FIRE property one of the targets was a coincident lead-zinc soil geochemical anomaly associated with a well developed gossanous trachyte outcrop. A fan of holes from the second drillsite intersected strataform barite mineralization. The barite horizon is hosted within an argillaceous to muddy subunit of a thin bedded to thinly laminated weakly sericitized volcanoclastic package. This is underlain in turn by a package of volcanic and volcanoclastic rocks including tuffs, crystal tuffs, lapilli tuffs, fragmentals, and multilithic breccias with local well developed silicification and pyritization, which is associated in part with anomalous metal values. The barite occurs in part as replacement and nodules within the muddy unit, and as a distinct massive to semi-massive strataform horizon. The best intersection was in DDHF00-02 which returned values of 22.39 gm/T Ag, 50 ppm Cu, 51 ppm Cd, 4930 ppm Pb, 6033 ppm Zn from 23.0-38.1m including 3.3m averaging 65.5 gm/T Ag, 109 ppm Cu, 162 ppm Cd, 4930 ppm Pb and 2.16% Zn.

A single drillhole was completed on the ICE property. DDH I00-01 targeted an outcrop of sucrosic bedded barite with sphalerite, pyrite and galena identified by Charlie Greig during 2000 fieldwork. The hole was collared in a blocky, strongly jointed syenite sill unit which overlies a volcanic package that includes pyritic lapilli tuffs and multilithic breccias and debris flows. Within this volcanic package is a sequence of barite / pyrite / sphalerite mineralization thought to be of exhalative origin. The barite exhalative horizon is approximately 48 m in thickness and consists of a 10 m thick massive to semi massive barite cap overlying a series of barite horizons associated with a pyritic lapilli tuff unit. The best interval within the barite cap zone was 33.2-36.3 m which returned values of 11.4 gm/t Ag, 61 ppm Cu, 3180 ppm Pb and 1.1% Zn over 3.1m true width. Field relationships and drilling results confirmed that the only other hole drilled on the ICE property to date was collared stratigraphically below the barite horizon.

Based on the preliminary results of the diamond drilling program, Eagle Plains Resources carried out an aggressive staking program in the McConnell River – Ketzia River area in the late summer of 2000. A further 212 claims were staked to cover prospective geology. Total 2000 exploration expenditures by Eagle Plains Resources was \$149,921.10. The 2000 work report by Eagle Plains Resources recognized the potential for VMS style deposits in the McConnell River area and further work was recommended.

The 2001 Eagle Plains Resources field program focused on geological mapping and extensive silt and soil geochemical sampling and prospecting. The program identified several areas underlain by favorable stratigraphy (submarine volcanism, intensely altered felsic volcanics and locally associated fine-grained clastic sedimentary rocks that would be conducive to preservation of sulphides deposited on the sea floor) which also have strongly anomalous VMS-type geochemical signatures. Eagle Plains Resources staked a further 65 claims contiguous with the established property boundary to cover prospective stratigraphy in the area. The total cost of the 2001 geological exploration work on the FIRE /ICE/MELT properties was \$118,269.18.

In 2006, Eagle Plains commissioned an helicopter borne time domain geophysical survey over the Fire

- Ice - Melt project area. The geophysical contractor was GeoTech Limited, with helicopter support provided by TransNorth Helicopters Helicopters using an AStar 350B2. The original contract was for 1250.6 line-km, but due to issues related to the relatively rugged nature of the terrain and inexperience of the pilot, only 368 line km were completed. All preliminary survey data was integrated into the GIS data base and was followed up by a two man one day site visit. Site visit included geochemical sampling for whole rock analysis. Total 2006 exploration expenditures by Eagle Plains Resources on the Fire-Ice-Melt (FIM) Project was \$157,636.73.

The 2007 field program consisted of detailed mapping and sampling to follow up the 2006 exploration program which included a geophysical survey. An Aster survey of the properties was also performed during the 2007 field season. Conclusions from the mapping program are as follows:

Mapping of the FIM properties in 2007 has been successful in confirming the consistency of the stratigraphic section developed largely from the mapping of other Eagle Plains Resources properties (MM and EROS) elsewhere in the PMVB. Significantly it also demonstrates the stratigraphic controls on the preferred setting for the development of VMS mineralization. Mineralization is developed within either the felsic or mafic volcanic unit and appears to be concentrated at the stratigraphic contact interval between felsic and mafic volcanic rocks.

This work has also highlighted that the intermediate volcanics which comprises the dominant volcanic component of the PMVB on the FIM properties is not a particularly perspective host rock for VMS styles of mineralization. Such a realization is helpful in focusing exploration attention on the more prospective lithologies and the observation of gossanous felsic lapilli appearing within this unit on approaching more perspective felsic volcanic rocks provides a useful prospecting vectoring tool.

Quartz-Fe-Mn-carbonate veined and often associated flooded zones have been recognized to occur intermittently throughout the belt. Although insignificant from an economic standpoint these zones are locally elevated in precious and base metal and may influence the interpretation of soil and silt exploration sampling results. Previous mapping has not delineated the distribution of these zones within the belt.

Though a relatively localized feature at this stage, the broad, flat-lying, Fe-Mn-carbonate thrust fault identified within or above the South Fire Creek Section may represent a significant feature in modifying the stratigraphy. Therefore, a more detailed examination of the feature to delineate its overall extent and influence may prove useful in understanding the distribution of the volcanic stratigraphy on the FIM property.

Mapping on the BNOB property has demonstrated that the expanse of felsic volcanic rocks at this locality defines a bedded stratigraphic interval that has been affect by large scale upright open folding. More importantly the identification mafic volcanic rocks on the BNOB anticlinal dome area suggest that the contact interval between the felsic and mafic volcanic rocks occurs below the dome area. An IP survey across this dome could test the potential for VMS development along that contact zone. The total expenditures for the 2007 exploration program was \$77,312.99.

In 2010 a small program focused on evaluating the potential for the numerous alkalic intrusives in the area to host REE +/- Nb mineralization. A camp of three was set up and 5 days were spent prospecting and sampling in areas with syenite stocks or anomalous REE assay values. Scintillometres were used to find rocks with high Th values as Th, the mineral monazite in particular, is closely associated with REE mineralization. Other minerals of interest include fluorite and xenotime. A total of 26 rock

samples were taken in the vicinity of the Fire camp.

The MM camp moved over to the BNOB, where one day was spent using the scintillometre and prospecting to test the syenite and its surrounding areas for potential REE mineralization. A total of 3 rock samples were taken on the property.

GEOLOGY

Regional Geology

The volcano-sedimentary rocks which host the Wolf and MM deposits as well as underlie the FIRE/ICE claims form a narrow arcuate belt that extends 80 kilometres along a northwesterly trend within the Pelly Mountains of the southwestern Yukon (Figure 3). These rocks have been termed the Pelly Mountains Volcanic Belt (PMVB) by Hunt (1999) and are characterized by high potassium content and, locally, bedded barite and volcanogenic massive sulphide deposits and showings. The PMVB is early to middle Paleozoic in age and occurs within the Pelly-Cassiar Platform, considered to be part of ancestral North America (Templeman-Kluit, 1977). The tectonic framework for the Pelly Mountains area is described by Gabrielse and Yorath (1991), Templeman-Kluit and Blusson, (1977) and Gordey (1977) and is summarized below.

The miogeoclinal sequence and related rocks which underlie much of the Pelly Mountains are part of a large area about 70km wide and 600km long that is referred to as the Pelly-Cassiar Platform (PCP) (Figure 3). The PCP formed slightly outboard of, but parallel to the craton edge and consisted of a thick accumulation of volcanic rocks and related sediments upon which shallow water sedimentation, predominantly carbonate, took place until late Devonian time. To the northeast of the PCP during late Proterozoic through to Silurian time, a sequence of shallow water carbonates, tuffaceous shale and andesitic rocks were deposited on the western edge of ancestral North America in the Selwyn Basin and, to the south, in the Kechika Trough.

During late Devonian to Mississippian time, shale, greywacke, and chert pebble conglomerate was deposited over much of the PCP and Selwyn Basin. These rocks were derived from a westerly source, or from locally uplifted parts of the PCP. Felsic igneous activity, including intrusion and volcanism, occurred locally within the PCP, possibly within rifts or graben-like structures created by variable uplift and block faulting within the platformal rocks. Sedimentation resumed within PCP sub-basins during the Upper Triassic.

Deformation of the Paleozoic rocks took place post-Late Triassic and consisted of compression and/or transpression along a northeasterly axis which resulted in northwesterly trending and northeasterly verging folds and southwesterly dipping thrust faults. The Anvil-Campbell allochthon, part of the Omineca Crystalline belt, was emplaced during this event as a large thrust-sheet and is now preserved as local klippen on mountain ridges. An anastomosing system of steeply dipping, strike-slip faults related to movement along the northwesterly trending Tintina Fault cuts the folds and thrust faults and extends for up to 20 kilometres southwest of the Tintina Trench. Late normal faults cross-cut earlier structures and divide the region into a number of panels which commonly represent different structural levels. Cretaceous intrusions develop thermal and structural aureoles in the western part of the Pelly Mountains. Metamorphism and degree of deformation varies from block to block but generally increases in a westerly direction and varies from lower to upper greenschist facies.

The Pelly Mountains Volcanic Belt is composed of localized volcanic centres separated by basins infilled with sediments and volcanoclastic rocks. Associated with these volcanic rocks are at least two VMS deposits (the Wolf and the MM) and a number of historical showings, including the Chzernpough (FIRE claims), and the BNOB (ICE claims).

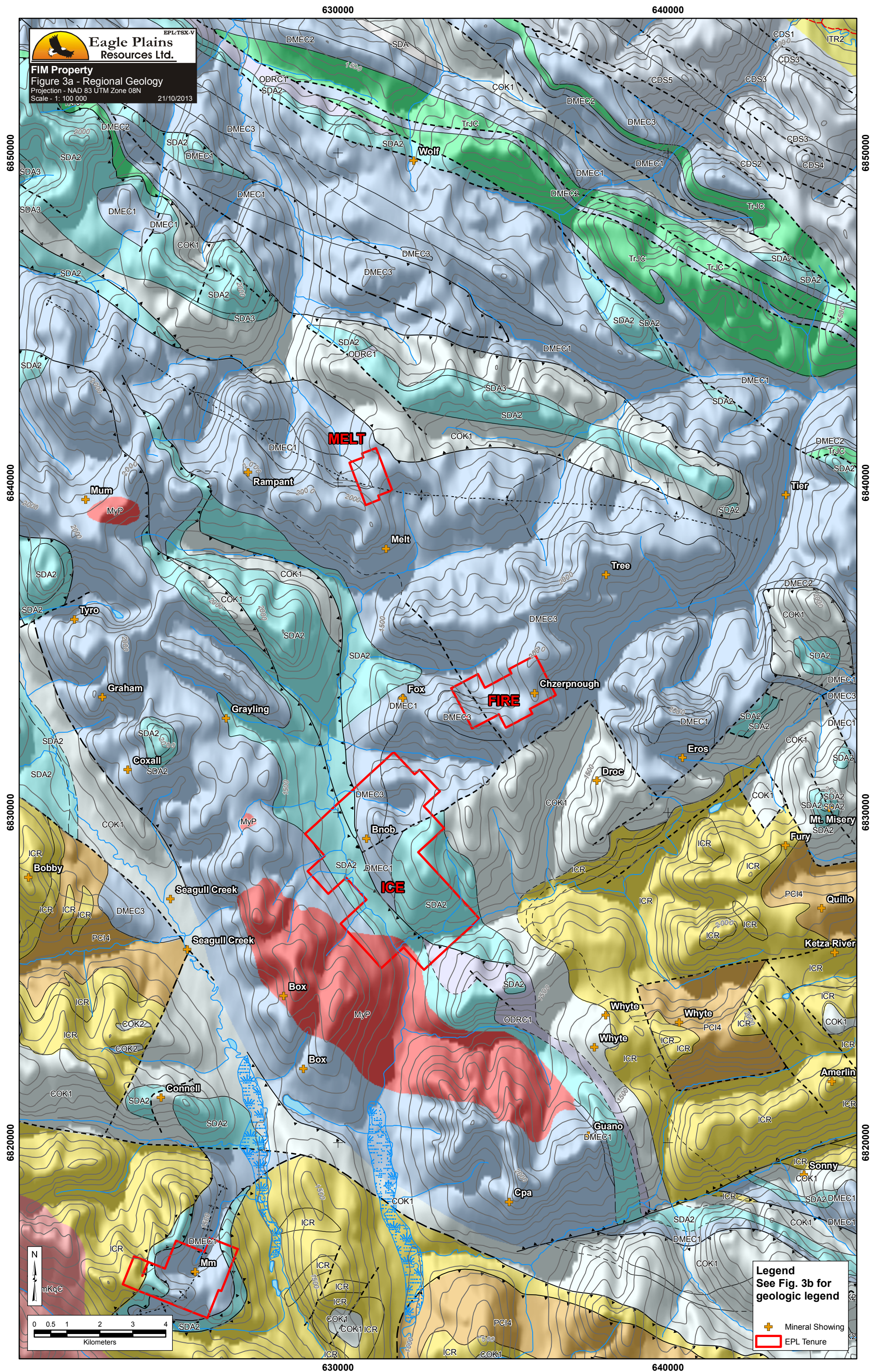
The volcanic rocks are predominantly felsic, but in some areas significant accumulations of andesite to

basalt occur. The most common feature of the belt are flows, epizonal sills, and small plugs of trachyte. The trachyte flows and/or sills are laterally very extensive, probably due to low magmatic viscosity caused in part by high alkali element content. Typically the trachyte contains significant amounts of pyrite which gives rise to extensive gossans. The trachytes are commonly cream coloured, with very fine to medium grained phenocrysts of feldspar and rare quartz and are locally massive, amygdaloidal or brecciated. Syenite intrusions have been noted at a number of locations within the PMVB (Mortensen, 1981; Morin, 1977) and are thought to be rounded plugs which represent volcanic feeders. Although they may still represent volcanic feeders, drill data from the Wolf and ICE properties indicates that the syenite intrusions are sills.

The structural and stratigraphic relationship of the Pelly Mountains Volcanic Belt with other parts of the Pelly-Cassiar Platform are not always clear. In the southern part in the belt near the Wolf deposit, the PMVB rocks are separated from platform carbonates and associated sediments by thrust, and possibly, steeply dipping normal faults. In the northeastern most part of the belt, immediately northeast of Ketz River Mine site, the volcanic sequence is very thin ($\pm 100\text{m}$) and is overlain by chert and chert pebble conglomerate and underlain by shale. Both contacts appear conformable but are not well exposed.

The shale and conglomerate are considered age equivalent with the volcanic rocks that have been mapped in conformable relationships by Gordey (1977). On the FIRE (Chzerpnough) and Tree claim area, the PMVB appears to conformably overlie, and in places be intercalated with, a relatively thick sequence of shale and minor greywacke. Similarly on the Mamu property, adjacent to the McConnell River, volcanic rocks conformably overlie an extensive shale-greywacke sequence. On the ICE (BNOB) property, between the Tree-FIRE and Mamu properties, the volcanic rocks are surrounded by an argillite-limestone sequence that appears to be continuous with the shale-sequence of the FIRE property. Gordey (1977) describes a Siluro-Devonian assemblage of shallow water dolomite and platy siltstone which represent a stable marine carbonate bank environment, and are the supposed basement for the PMVB. The Siluro-Devonian siltstones, however, are quartz bearing and tan weathering and do not seem to be a good match with the shale attached to the Pelly Mountain Volcanic rocks. Similarly, the younger Triassic sedimentary package has not been observed in contact with PMVB. Consequently, there is little or no contact information that gives a clear indication of the tectono-stratigraphic environment in which the PMVB was deposited other than the nature of the rocks within the belt itself.

The platform setting on the continental margin, the high potassium geochemistry of the volcanic rocks, and the presence of bedded barite and volcanogenic massive sulphide deposits indicate that the Pelly Mountain Volcanic Belt was likely deposited in a continental rift-type environment (Mortensen and Godwin, 1982). The coarse volcanic debris flows that overlie the Wolf deposit indicate a high energy environment consistent with a graben type structure.





EPL:TSX-V

Eagle Plains
Resources Ltd.

FIM Property

Figure 3b - Regional Geology Legend

Projection - NAD 83 UTM Zone 08N

Scale - 1: 100 000

31/01/2011

Geology Legend* Geology after Gordey and Makepeace, (1999)
Contacts Faults and Folds
- Fault, approximate, movement undefined
- Fault, approximate, normal/reverse
- Fault, approximate, thrust, upright
- - Fault, assumed
- - Fault, defined, movement undefined
- - Fault, defined, normal/reverse
-▲ Fault, defined, thrust, upright
- Contact, approximate
- - Contact, inferred
Contact, defined
↕ Fold, approximate, anticline, upright
↗ Fold, approximate, syncline, upright
Bedrock Geology
LOWER TERTIARY, MOSTLY(?) EOCENE
ITR2: ROSS: rhyolite flows, tuffs, ash-flow tuffs and breccias, locally laminated; small stocks and necks of white weathering, flow-banded, quartz-sanidine porphyry to granite porphyry, locally obsidian bearing; local shale, sandstone and conglomerate
MID-CRETACEOUS
mKqC: CASSIAR SUITE: medium to coarse grained, equigranular to porphyritic (K-feldspar) granite and biotite quartz monzonite; biotite-hornblende quartz monzonite and granodiorite (Cassiar Suite)
UPPER TRIASSIC
TrJC: JONES LAKE - CASSIAR: calcareous siltstone and shale, commonly finely cross laminated; dark grey and buff weathering, recessive, thin bedded locally bioclastic limestone and interbedded sandy or silty limestone
MISSISSIPPIAN
MyP: PELLY MOUNTAINS SUITE: resistant, massive, medium to fine grained equigranular syenite; magmatic hornblende replaced by actinolite, but K-feldspar is fresh perthite; gradational to trachyte; intrusive equivalents to felsic volcanics of the Earn assemblage
UPPER DEVONIAN TO LOWER MISSISSIPPIAN
DMEC1: EARN - CASSIAR: dark grey, recessive weathering, thin bedded, black siliceous slate with interbeds and members of quartz-chert greywacke, chert granule grit and chert pebble to cobble conglomerate; may include lenses of intermediate to felsic volcanoclastic rocks
DMEC2: EARN - CASSIAR: rusty orange weathering, resistant, apple green and dark grey, thin bedded chert and cherty tuff; local nodular and bedded barite
DMEC3: EARN - CASSIAR: heterogeneous, rusty, black, white, and orange weathering rhyolite-trachyte to andesite flows, breccias and tuffs; locally highly pyritic; local black slate and grey-green cherty tuff; minor fine crystalline limestone; locally abundant trachyte dykes
MIDDLE SILURIAN TO MIDDLE DEVONIAN
SDA2: ASKIN: medium grey to buff weathering, medium to thick bedded dolostone, silty and sandy dolostone, limestone; medium to thick bedded, medium grained mature orthoquartzite; dolomitized laminated mudstone and dolostone with vugs, birdseye and fenestral cavities (Askin Gp.)
SDA3: ASKIN: orange weathering, recessive, maroon and green lapilli tuff and volcanic breccia with interbedded bioclastic dolomite (Askin Gp.)
ORDOVICIAN TO DEVONIAN, LOCALLY ?MISSISSIPPIAN
ODRC1: ROAD RIVER - CASSIAR: recessive, black, locally calcareous, fissile, graptolitic shale; local thick to very thick interbeds of grey quartz arenite; includes thin sills or flows of dark green basalt undifferentiated
CAMBRIAN TO DEVONIAN OR YOUNGER
CDS1: ST. CYR: orange to brown weathering, recessive, medium grey interlaminated calcareous shale and silty limestone or calcareous siltstone; proportion of carbonate to clastic material varies widely; includes slaty and phyllitic equivalents (Cambro-Ordovician?)
CDS2: ST. CYR: orange brown weathering, recessive, thin bedded, medium to dark grey, calcareous shale, siltstone and argillaceous limestone; includes slate and phyllitic slate (Cambrian to Lower Devonian?)
CDS3: ST. CYR: black, recessive weathering, calcareous graphitic "sooty" slate and silty shale; includes thin beds of dark grey graphitic, very fine grained quartzite and black "sooty" crinoidal limestone (Ordovician and Silurian?)
CDS4: ST. CYR: orange buff weathering, medium grey, thin to medium bedded, finely laminated and cross-laminated calcareous quartz siltstone and very fine grained orthoquartzite, with slaty phyllite partings; minor massive, light grey orthoquartzite (Siluro-Devonian?)
CDS5: ST. CYR: orange to dark blue-grey phyllite and thinly laminated phyllitic limestone; minor laminated siltstone, green slate, and rare chert; platy, fetid limestone, locally crinoidal; minor shale, basalt, tuff and breccia (Upper Devonian or younger?)
UPPER CAMBRIAN AND ORDOVICIAN
COK1: KECHIKA: thin bedded, lustrous, calcareous, grey slate, phyllite, limestone, minor grey dolostone and dolomitic limestone; quartz-carbonate veins; minor sills and flows of basalt and basaltic tuff ; may include Ordovician black slate at top of succession (Kechika)
COK2: KECHIKA: massive, dark green and maroon amygdaloidal basalt flows and volcanoclastics; medium to fine grained diabase or diorite sills with chilled margins; medium grey, chlorite muscovite quartz phyllite with abundant undifferentiated lenses of "greenstone"
LOWER CAMBRIAN
ICR: ROSELLA: resistant, thick bedded to massive, limestone and argillaceous limestone; local archaeocyathid buildups, trilobite fragments, oolites, and pisolites; pisolitic massive dolostone and limestone; marble, calc-silicate, calcareous phyllite and minor schist (Rosella)
UPPER PROTEROZOIC TO LOWER CAMBRIAN
PC1: INGENIKA: calcareous sandstone, shale, quartz-eye grit, quartzite, micaceous quartzite and minor grey limestone generally overlain by phyllite, quartzite, and dolomitic marble; muscovite-chlorite schist, biotite schist, metasandstone and minor calc-silicate (Swannel and Tsaydiz of the Ingenika Gp.)
PC14: INGENIKA: thin bedded slate, siltstone, quartzite and minor limestone with local medium to coarse grained, feldspathic sandstone to orthoquartzite; muscovite biotite garnet schist, micaceous quartzite, minor amphibolite and marble; rare granodiorite gneiss (Ketza Gp., Harvey Gp.)

Property Geology

Stratigraphy

In general, the rocks exposed in the FIRE/ICE property area are similar to parts of the stratigraphy on Atna Resources' Wolf property (Wilson, Holbek 1999). The volcanic rocks of the Pelly Mountains Volcanic Belt (PMVB) are bounded to the west by a fault, marked by the McConnell River. On the other three sides the volcanic rocks are bounded by underlying or overlying shale and argillite (+/- carbonate) that appear to be conformable and part of the PMVB, or the Devonian to Mississippian Black Clastic unit (Pigage, 1980), or the Upper Triassic assemblage of shale, siltstone and carbonate (Gordey, 1977).

The general stratigraphy of the FIRE/ICE claim area consists of (1) a basal carbonate unit of probable Silurian-Devonian age which crops out close to the McConnell River Valley and appears to be related to other base-metal and skarn-type mineral showings in the region, (2) siliceous, medium-to dark-grey, carbonaceous argillite (commonly phyllite to slate), believed to be Mississippian in age, and (3) rhyodacite to rhyolite tuffs and flows, ranging from unwelded ash to lapilli tuff and agglomerate, to aphyric, locally amygdaloidal flows. The felsic volcanic succession is dominated by fine to coarse lapilli tuffs and flows. Felsic (rhyodacite to dacite) dykes and sills intrude the felsic stratigraphy but are probably comagmatic with the surrounding rhyolitic-trachytic extrusive succession.

Felsic volcanic rocks weather pale green-grey to buff and are dark green-grey on fresh surfaces in non-mineralized zones. Where pervasive mineralization occurs, typically in the form of disseminated pyrite, reaching 10-12% locally, the rocks are heavily oxidized and stained bright red. Amygdules within flows contain either silica or a combination of silica and pyrite. The latter is a positive exploration indicator and, where base metal mineralization within amygdules can be identified, amygdules may serve as a vector for locating massive sulphide bodies, as has been demonstrated for the deposits in the Noranda region in the Canadian Shield. A number of chalcopyrite (rare galena) blebs within amygdaloidal rhyolites on the property indicate a proximity to a base metal source.

The stratigraphy of the property is relatively simple, although intercalations of various volcanic flows and fragmental facies have created a repetitious succession, a feature expected of near-vent (proximal) facies associations in a VMS setting. Following is a more detailed description of the McConnell River area stratigraphy based on Eagle Plains and Atna Resources observations and using Fig. 2 map unit contacts:

UNITS 1 & 2

Limestone and argillite units: Brown to buff weathering, fine-grained grey fresh surface, probably in most part tuffaceous limestone interbedded on a centimetre to decimetre scale with dark grey to black argillite. Locally, this unit maybe intercalated with lapilli lithic tuff. On the western portions of the FIRE claim block this unit is thin, less than 20 metres, and forms a readily recognizable marker unit that is stratigraphically positioned directly over the mineralized horizon. Where the stratigraphy is less well defined, on the eastern portions of the claim block, a limestone-argillite unit is positioned above one mineralized horizon, but is separated from the horizon by 75+ metres of lithic lapilli tuffs. These tuffs grade up into bedded tuffs and into a lime-stone-argillite unit. Close to this locality, a mineralized horizon occurs above the limestone –argillite unit. A limestone-argillite unit was not seen in much of the volcanic stratigraphy that underlies the claim block.

UNIT 3

Purple weathering volcanic or volcanoclastic lithic lapilli tuff: A distinctive purple, flaggy weathering, fine-grained, feldspathic, minor black argillite (?) lithic fragments volcanic or volcanoclastic unit that occurs locally at the northeast end of the property.

Argillite: Grey to black weathering and fresh surface, generally foliated, often well laminated or bedded, occasionally lineation or crenulated, occasionally carbonaceous, fine-grained argillite. This unit occurs in thick (10-75 metre) “sub basins” in the volcanic stratigraphy, as thin (less than 10 metre) inter-volcanic flow sedimentary packages throughout the volcanic stratigraphy. Argillite is frequently intercalated with thick to thin bedded tuffs, minor limestone, or more rarely, thick bedded volcanic flows(?).

UNIT 4

Volcanoclastic rocks: Intermediate to felsic volcanoclastic debris flows and deposits, crystal or ash tuffs with evidence of tuffaceous layering (reworking). This unit includes clast supported heterolithic lapilli tuffs, heterolithic lapilli tuffs with extreme clast variability, lapilli tuffs with a large percentage of sedimentary fragments. Clast size is usually less than 10cm. This unit also encompasses sections that include pyroclastic flows (not uncommon) or other volcanic flows or sills. However, this assemblage is dominantly composed of volcanoclastics +/- argillite. Also included in this unit is a rare occurrence of monolithic lapilli tuff with rounded siliceous clasts.

Mineralized horizon: Intermediate to felsic volcanic to volcanoclastic rocks that are altered (silica and/or sericite) or altered and mineralized with pyrite, barite or rarely galena. Although dominantly composed of ash and lapilli and lithic lapilli tuffs, this unit hosts a significant quantity of mineralized “yellow” trachyte. In hand sample, the trachyte typically displays ghosts of <2mm feldspar and/or monolithic or heterolithic fragments and /or a breccia texture defined by silica +/- sericite veinlets. Less commonly, a <2mm white feldspar porphyritic trachyte occurs. The trachyte, and to a lesser degree, all the rocks comprising this unit can be extremely hard, grey, silica over sericite altered or softer yellowish green sericite over silica altered. Less intensely altered and mineralized trachytes that are interpreted to occur in the less intensely altered and mineralized “distal” portions of the mineralized horizon can appear to have a chalky, more brittle “porcelaneous” alteration. The mineralization that defines the mineralized horizon consists of fine-grained disseminated pyrite and approximately 1% green barium mica (?). Locally and usually internal to the horizon the pyrite mineralization intensifies to massive dissemination's and/or irregularly oriented ptigmatically folded veinlets.

Trachyte and mud chip conglomerate: A 1 to 5 metre thick, well sorted and graded trachyte and mud chip conglomerate, or bedded tuff grading to massive lithic lapilli tuff unit that directly overlies the mineralized horizon.

UNIT 5

Volcanic rocks: Augite bearing mafic through to felsic or unmineralized trachytic primary volcanic flows, crystal tuffs, and synvolcanic intrusions. Includes monolithic or near monolithic lapilli tuffs, crystal or ash matrix supported heterolithic lapilli tuffs, lapilli tuffs with large, generally angular, (10cm to greater than 40cm) blocks or bombs, lapilli tuffs bearing evidence for deposition in hot volcanic flows (alteration rims on clasts or fragments or partially reabsorbed clasts or fragments). Included within this unit are altered (silicified) rocks, often of uncertain protolith. Alteration of these rocks is

assumed to be hydrothermal and syngenetic, suggesting a proximal position to a volcanic centre. The occurrence of occasional accidental sedimentary fragments was noted in all the above rock types. While this unit is primarily volcanic it also includes minor layered tuffs and argillites that are interpreted as interflow deposits.

UNIT 6

Trachydacite to trachybasalt sills or flows and syenite: This unit is most prominent in the area of the BNOB showing and was the collar lithology for the diamond drillhole I00-01. This unit consists of fine to medium grained, equigranular, pink to grey feldspar and hornblende. The rock is fresh in appearance, unfoliated and has blocky weathering in outcrop due to widely spaced, perpendicular joint sets. Initially this unit was thought to represent a small plug or pipe-like intrusion. Based on limited exposure, however, the lower contact appears to be somewhat strataform and this unit wasn't intersected in the Cyprus-Anvil drill hole, indicating that it may be sill like. This is consistent with 2001 field observations of the same unit near the northern part of the ICE claims.

UNIT 7

Undifferentiated Intermediate to mafic metavolcanic rocks

Structure

Most of the rocks on the property lie on the gently northerly-dipping limb of a large-scale antiform that is part of a train of west-northwesterly to northwesterly trending, gently dipping folds that appear, in general, to be tighter to the NW. Although the rocks have been deformed, the stratigraphy appears to be intact and many primary volcanic textures are preserved and readily recognizable; although the work is preliminary, the minor structures observed are not suggestive of severe structural disruption, overturning or other such complication.

The rocks have a ubiquitous S1 fabric, expressed in the less competent lithologies (fine grained clastic rocks; ash, and fine to medium grained tuffs) as a pervasive phyllitic foliation, and in the more competent lithologies as a less obvious though still pervasive spaced cleavage; a second phase crenulation cleavage is also common, and particularly notable in the well-foliated metasedimentary rocks and finer grained tuff. The stratified rocks on the property outline broad-wavelength, open folds which appear to post-date the foliation-forming event. A strong joint system measured on the property is best developed within either massive flows or indurated, coarse crystal, lithic tuff.

Alteration And Mineralization

Fire Property Area

Mineralization identified to date on the FIRE is of two types. The first is sucrosic sedimentary barite with bands of disseminated pyrite and galena. Barite mineralization is best developed as float boulders, but has been identified in-situ in some locations on the property and was intersected in 2000 diamond drilling in diamond drillholes F00-02,03,04, and 05. Where found in place, the barite is associated with yellow to orange gossan horizons developed within a trachyte unit. Geochemically the barite mineralization is highly anomalous in silver, lead, and cadmium, and weakly anomalous in zinc. The second type of mineralization is flow-banded rhyolite with syngenetic pyrite. In comparison to the barite mineralization, the rhyolite is more anomalous in zinc, copper and cadmium, and weakly anomalous in silver and lead.

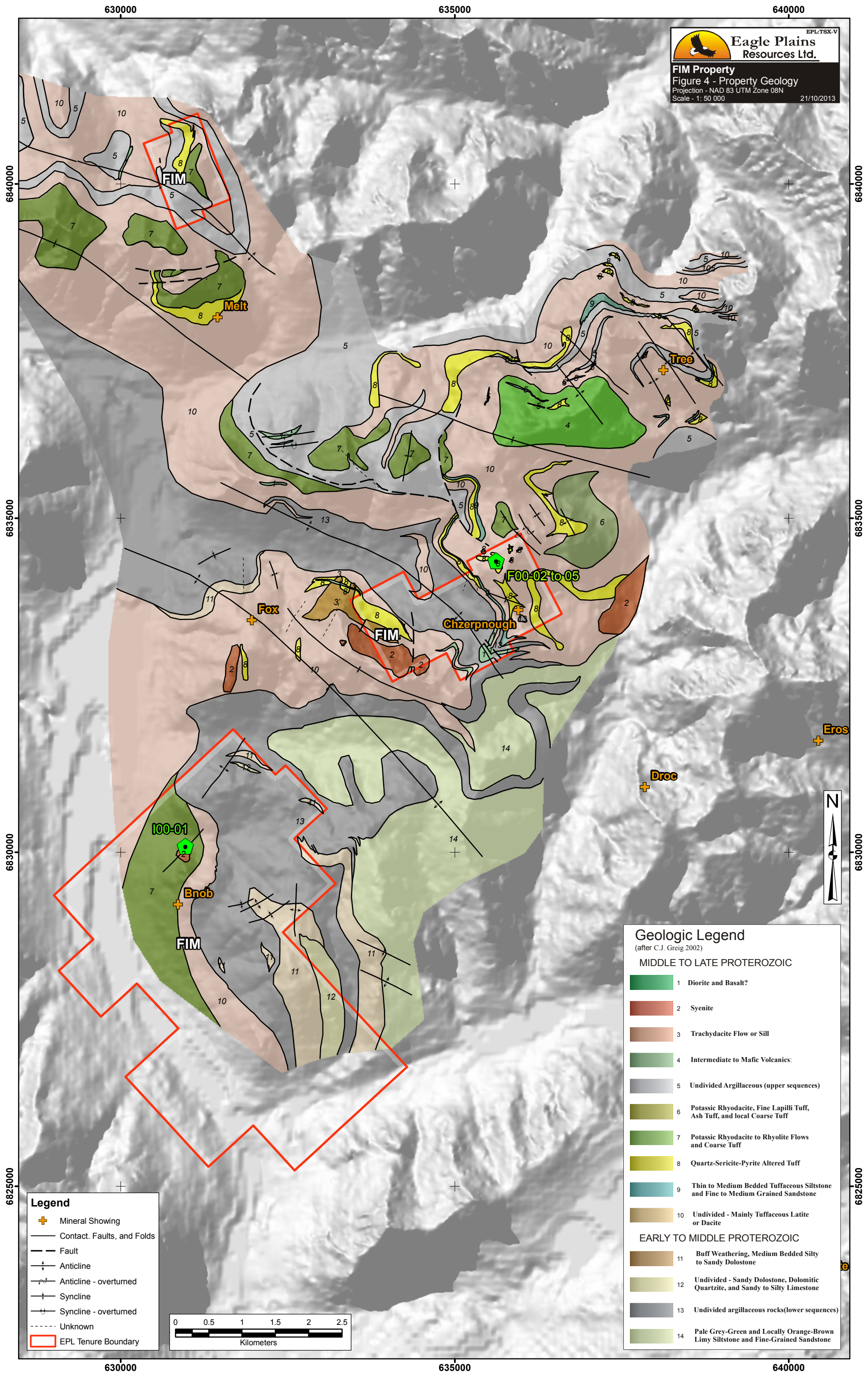
Alteration on the FIRE property is predominantly represented by a quartz - sericite – pyrite assemblage, with local chlorite and rare fluorite. Diamond drill hole F00-01 intersected a zone that possibly represents a skarn type of alteration with pervasive hematite - silica – epidote flood. The hole also cut a zone of pervasive to selective-pervasive potassium feldspar flood and veining.

Ice Property Area

Mineralization on the ICE property consists of bedded barite locally containing significant galena, sphalerite, and accessory pyrite. Mineralization is found in-situ at the BNOB and Greig showing areas, and also in extensive float boulder showings in a number of locations including the Gully Zone and the ICE1 Zone. At the BNOB showing the barite is strataform, up to 4m in width, and is exposed in trenches and outcrop over a strike length of 250m. The Greig showing area, identified by Eagle Plains Resources in 2000 and successfully tested by 2000 drilling, is only partially exposed at the toe of a syenite talus field. The strataform bedded barite here contains sphalerite, galena and pyrite.

Alteration noted from drillhole I00-01 includes strong sericite and pyrite flood with local strong silicification.

As part of the 2001 exploration program about three days were spent in the Whitehorse Core Library examining drill core from previous programs (Eagle Plains in 2000, and Cyprus Anvil in 1980), and slabbing and staining representative samples collected from the core and from traverses undertaken in 2000 and 2001. Staining indicates that extremely potassium feldspar-rich rocks are common on the property, as they are elsewhere in the vicinity of VMS-style mineralization in the Pelly Mountains (e.g., the Wolf property) and in similar VMS-hosting volcanic environments in the Yukon (e.g., Wolverine) and beyond. Reexamination of the Cyprus Anvil drill core revealed that the exhalative barite horizon intersected in the 2000 drill program is underlain by a thick package of very poorly exposed, but heavily pyrite- and sericite-altered tuffaceous rocks which also contain local sphalerite, chalcopyrite, and galena—the core from this hole has never been analyzed.



2013 WORK PROGRAM

Work in 2013 consisted of consolidation of a variety of splintered datasets into a cohesive modern database. Such a compilation was warranted since only a couple of major elements of interest (Ag, Pb, Zn and Ba) from the 2000 and 2001 exploration programs were in the current database. Compilation involved the digitization of 35 rock sample locations and descriptions from and entry of analytical results for 26 elements for a total of 918 rock silt and soil samples; all data was sourced from existing assessment report numbers 094200 and 094267.

Due to the reduction of the property since 2001, not all samples entered into the database are located within the current property boundaries (cost of the work to enter this data has been weighted proportionally) but all data has been included in the analysis to provide the largest dataset possible.

Although existing digital geochemical data allowed for 1st order targeting of obvious rock, silt and soil geochem anomalies, it is also strongly believed that geochemical analysis utilizing trace/vector element geochemistry (Fe, Sc, Sb, Cd, ect.) can readily identify false anomalies or alternatively increase confidence in existing targets. Key elements of interest for VMS deposits, such as Cu and Au, were also added.

In particular, determining the relationship of certain economic elements with respect to iron can distinguish between hydromorphic anomalies associated with the co-precipitation of cations with Fe (ref) and “primary” or mechanically transported anomalies.

Geostatistical analysis of background values of different rock types on the property can also help identify false soil and perhaps silt anomalies consisting of elevated background values.

2013 WORK PROGRAM RESULTS

Univariate Statistics

Initial analysis of the data involved calculating global statistics and creating probability plots to help identify elements with background values at or below the various analytic detection limits historically utilized; suspect elements were removed from subsequent analysis. The following elements were removed from subsequent multivariate statistical analysis due to this reason:

- Soils – removed B, W, Ga, Se and Zr
- Rocks – removed U, Au, Th, Ti, B, Na, W, Hg, Sc, Tl, S, Ga, Se, Sn, Y, Zr
- Silts – removed S, U, Th, Ti, B, Na, W, Hg, Sc, Tl, Ga and Se

Table 2a – Geochemical Statistics – Soils – Total Population

1862 rows - Univariate	Mo_pp m	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_pp m	Fe_pct	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_pct	P_pct	La_ppm	Cr_ppm	Mg_pct	Ba_ppm	Ti_pct	Al_pct	Na_pct	K_pct	Hg_ppm	Sc_ppm	Tl_ppm	S_pct
Count Numeric	1534	1534	1534	1534	1534	1534	1534	1534	1515	1534	1035	876	1079	1534	1534	1534	1534	1528	1520	1534	1534	1534	1534	1534	1441	1534	1512	1534	1440	1448	812	1031
Count Text	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Null	44	44	44	44	44	44	44	44	63	44	543	702	499	44	44	44	44	50	58	44	44	44	44	44	137	44	66	44	138	130	766	547
Unique Values	176	483	827	431	59	445	301	1019	647	344	53	58	132	104	76	111	48	65	230	206	114	220	166	629	44	155	63	86	64	99	22	93
Minimum	0.1	0.8	0.6	4.0	0.1	0.5	0.5	9.0	0.18	0.5	0.1	0.5	0.1	2.0	0.1	0.1	0.1	1.0	0.01	0.01	1.0	0.5	0.01	15.0	0.00	0.1	0.00	0.01	0.0	0.1	0.1	0.0
Maximum	71.0	452.0	13903.0	12889.0	39.0	335.0	77.0	9847.0	21.23	261.0	10.0	39.7	49.0	237.0	50.1	268.0	71.0	89.0	17.40	0.46	420.0	68.2	8.68	3800.0	0.10	2.5	0.81	1.55	64.1	17.4	6.2	2.5
Mean	5.5	26.1	113.7	198.6	0.5	20.3	10.8	900.5	3.69	12.0	0.9	1.5	3.4	23.6	0.8	2.8	2.6	19.0	0.64	0.10	29.3	7.9	0.37	304.2	0.01	0.6	0.02	0.12	0.6	2.0	0.2	0.1
Median	4.0	21.0	40.1	84.0	0.2	16.0	8.3	571.0	3.47	8.6	0.6	1.0	2.3	17.0	0.2	2.4	0.3	17.0	0.25	0.09	24.5	6.4	0.12	222.0	0.01	0.6	0.01	0.08	0.1	1.5	0.1	0.1
Standard Deviation	5.5	23.8	474.7	579.4	1.5	21.6	8.9	1059.3	2.18	14.8	1.0	2.0	3.9	22.5	2.7	7.6	5.3	10.2	1.56	0.05	24.5	6.0	0.93	311.5	0.01	0.3	0.02	0.16	1.8	2.0	0.4	0.3
Coefficient of Variation	100.3	91.2	417.6	291.7	284.5	106.2	82.3	117.6	59.04	123.4	112.9	133.5	112.8	95.4	354.1	274.1	207.4	53.6	241.74	53.42	83.5	75.8	255.20	102.4	90.30	47.3	153.82	127.15	325.9	97.8	166.8	178.1
Interquartile Range	4.3	19.5	66.0	130.0	0.4	17.5	8.9	857.0	2.54	13.2	0.6	0.9	4.2	17.3	0.4	1.3	2.9	12.0	0.45	0.05	23.0	6.4	0.19	233.3	0.01	0.4	0.01	0.09	1.5	2.1	0.1	0.1
Range	70.9	451.2	13902.4	12885.0	39.0	334.5	76.5	9838.0	21.05	260.5	9.9	39.2	48.9	235.0	50.1	267.9	70.9	88.0	17.40	0.45	419.0	67.7	8.67	3785.0	0.10	2.4	0.81	1.54	64.1	17.3	6.1	2.5
25 percentile	2.4	13.0	20.0	40.0	0.1	8.0	5.0	258.0	2.23	2.5	0.4	0.8	0.8	11.0	0.1	1.2	0.1	12.0	0.08	0.06	14.0	3.9	0.07	130.0	0.00	0.4	0.01	0.04	0.0	0.6	0.1	0.0
50 percentile	4.0	21.0	40.1	84.0	0.2	16.0	8.3	571.0	3.47	8.6	0.6	1.0	2.3	17.0	0.2	2.4	0.3	17.0	0.25	0.09	24.5	6.4	0.12	222.0	0.01	0.6	0.01	0.08	0.1	1.5	0.1	0.1
75 percentile	6.7	32.5	86.0	170.0	0.5	25.5	13.9	1115.0	4.77	15.7	1.0	1.7	5.0	28.3	0.5	2.5	3.0	24.0	0.53	0.12	37.0	10.3	0.26	363.3	0.01	0.8	0.02	0.13	1.5	2.7	0.2	0.2
90 percentile	11.1	48.0	201.0	353.0	1.1	39.8	21.9	2012.5	6.27	25.0	1.8	2.5	7.3	45.0	1.3	4.6	8.0	32.0	1.08	0.15	54.0	16.0	0.59	609.0	0.02	1.0	0.03	0.25	1.5	4.3	0.5	0.3
95 percentile	14.6	60.6	347.3	599.8	1.8	52.2	28.0	2841.5	7.61	33.6	2.6	3.3	9.6	61.0	2.2	6.3	11.3	38.0	2.18	0.19	68.3	19.0	1.22	851.8	0.02	1.2	0.03	0.44	1.5	5.8	0.8	0.7
99 percentile	26.2	108.0	1321.3	2349.5	4.7	101.0	45.0	5519.3	10.52	63.6	6.0	7.1	19.2	121.3	14.2	14.4	23.0	52.0	8.66	0.29	119.0	25.9	5.46	1593.7	0.04	1.6	0.06	0.81	1.5	9.5	1.9	1.4

Table 2b – Geochemical Statistics – Rocks – Total Population

171 rows - Univariate	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_pct	As_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_pct	P_pct	La_ppm	Cr_ppm	Mg_pct	Ba_ppm	Al_pct	K_pct
Count Numeric	77	77	55	54	55	77	77	77	71	77	74	76	76	77	76	72	77	73	77	76	55	77	72
Count Text	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Null	1	1	23	24	23	1	1	1	7	1	4	2	2	1	2	6	1	5	1	2	23	1	6
Unique Values	23	48	49	41	32	34	29	70	67	28	47	21	18	19	19	53	31	39	39	42	41	43	30
Minimum	0.5	1.0	0.5	1.0	0.1	0.5	0.5	5.0	0.17	1.0	1.0	0.1	1.5	1.0	1.0	0.01	0.00	1.0	0.5	0.01	3.0	0.01	0.01
Maximum	60.0	1185.0	2800.0	54819.0	31.5	238.0	78.0	10000.0	39.65	264.0	698.0	1000.0	147.0	60.0	151.0	18.73	1.00	89.0	106.0	10.00	364.0	1.72	2.00
Mean	8.6	92.8	243.8	2200.3	3.8	17.3	10.1	1051.8	7.07	21.8	47.6	19.2	9.3	5.1	9.3	2.25	0.05	19.6	22.9	0.98	63.3	0.30	0.17
Median	6.0	19.0	81.0	26.0	0.8	9.0	5.0	169.0	4.11	2.5	21.0	0.1	2.5	1.5	4.0	0.30	0.02	12.0	20.0	0.06	39.0	0.19	0.15
Standard Deviation	9.6	205.1	438.8	8349.4	7.4	32.0	13.8	1886.7	7.73	42.6	89.7	117.3	23.3	9.0	21.9	4.14	0.12	19.9	22.9	2.05	73.0	0.36	0.24
Coefficient of Variation	112.0	221.0	180.0	379.5	193.5	184.6	137.1	179.4	109.23	196.0	188.5	610.5	251.1	176.8	235.1	183.70	256.99	101.3	100.0	209.74	115.3	118.74	139.52
Interquartile Range	8.0	48.0	266.0	130.3	3.0	17.5	10.0	1049.0	6.95	20.0	47.3	1.9	1.5	4.0	5.0	2.26	0.05	22.5	31.5	0.61	76.0	0.19	0.15
Range	59.5	1184.0	2799.5	54818.0	31.5	237.5	77.5	9995.0	39.48	263.0	697.0	1000.0	145.5	59.0	150.0	18.73	1.00	88.0	105.5	10.00	361.0	1.71	2.00
25 percentile	2.0	7.0	26.0	10.0	0.2	1.0	2.0	26.5	2.18	2.5	7.0	0.1	2.5	1.0	2.0	0.07	0.01	6.5	3.0	0.01	15.0	0.13	0.07
50 percentile	6.0	19.0	81.0	26.0	0.8	9.0	5.0	169.0	4.11	2.5	21.0	0.1	2.5	1.5	4.0	0.30	0.02	12.0	20.0	0.06	39.0	0.19	0.15
75 percentile	10.0	55.0	292.0	140.3	3.2	18.5	12.0	1075.5	9.13	22.5	54.3	2.0	4.0	5.0	7.0	2.33	0.05	29.0	34.5	0.62	91.0	0.32	0.22
90 percentile	20.4	252.2	712.6	4433.0	13.8	49.6	25.6	3605.4	15.86	71.6	112.5	7.4	27.3	10.6	17.0	6.79	0.08	45.0	56.4	4.13	128.8	0.68	0.26
95 percentile	27.3	630.5	1057.2	16035.3	26.8	72.1	43.0	5898.6	29.39	118.9	173.8	56.1	40.9	22.3	35.5	12.68	0.17	66.7	76.7	6.79	276.8	1.36	0.28
99 percentile	60.0	1185.0	2800.0	54819.0	31.5	238.0	78.0	10000.0	39.65	264.0	698.0	1000.0	147.0	60.0	151.0	18.73	1.00	89.0	106.0	10.00	364.0	1.72	2.00

Table 2c – Geochemical Statistics – Silts – Total Population

439 rows - Univariate	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_pct	As_ppm	Au_ppb	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_pct	P_pct	La_ppm	Cr_ppm	Mg_pct	Ba_ppm	Al_pct	K_pct	Zr_ppm
Count Numeric	401	401	406	406	406	401	401	400	394	401	400	401	400	401	401	401	394	401	401	401	401	406	401	401	392
Count Text	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Count Null	5	5	0	0	0	5	5	6	12	5	6	5	6	5	5	5	12	5	5	5	5	0	5	5	14
Unique Values	30	77	120	301	22	111	63	358	265	15	35	108	88	14	28	44	230	31	110	38	148	245	121	21	13
Minimum	1	1	5	39	0.05	0.5	2	42	1.27	2.5	0.7	4	0.05	1.6	0.1	4	0.06	0.02	5	0.5	0.02	20	0.08	0.01	0.5
Maximum	47	191	2466	12797	5.1	356	122	9630	25.17	29	65	375	41.7	80	47	89	9.32	0.49	1016	40	7.99	806	3.47	0.34	18
Mean	7.6	34.4	63.5	548.5	0.4	44.3	19.2	1196.6	3.83	3.0	8.0	48.1	2.5	2.9	7.5	17.9	1.82	0.11	53.0	8.4	0.68	191.0	0.6	0.07	2.3
Median	7.0	30.0	40.5	253.5	0.3	34.0	15.0	790.5	3.55	2.5	7.0	34.0	0.1	2.5	7.0	17.0	0.96	0.11	27.0	7.0	0.37	161.0	0.5	0.06	2.0
Standard Deviation	4.5	18.7	136.7	1042.5	0.5	37.0	15.8	1131.5	1.70	2.7	6.8	44.6	5.9	4.0	4.6	9.5	1.92	0.04	103.6	6.2	0.88	112.7	0.4	0.04	1.8
Coefficient of Variation	59.5	54.3	215.4	190.1	114.9	83.6	82.4	94.6	44.36	91.2	84.7	92.7	237.7	138.3	61.5	53.5	105.35	34.72	195.2	73.8	130.83	59.0	65.1	55.86	76.0
Interquartile Range	4.0	17.5	31.0	345.8	0.3	22.0	11.0	1049.0	1.71	0.0	5.4	32.5	2.1	0.0	4.0	9.0	1.83	0.05	36.0	5.0	0.72	162.0	0.3	0.04	1.0
Range	46.0	190.0	2461.0	12758.0	5.1	355.5	120.0	9588.0	23.90	26.5	64.3	371.0	41.7	78.4	46.9	85.0	9.26	0.47	1011.0	39.5	7.97	786.0	3.4	0.33	17.5
25 percentile	5.0	24.0	30.0	151.0	0.2	26.0	11.0	477.5	2.86	2.5	3.7	24.0	0.1	2.5	5.0	12.0	0.53	0.08	16.0	5.0	0.18	108.0	0.4	0.04	2.0
50 percentile	7.0	30.0	40.5	253.5	0.3	34.0	15.0	790.5	3.55	2.5	7.0	34.0	0.1	2.5	7.0	17.0	0.96	0.11	27.0	7.0	0.37	161.0	0.5	0.06	2.0
75 percentile	9.0	41.5	61.0	496.8	0.5	48.0	22.0	1526.5	4.57	2.5	9.0	56.5	2.1	2.5	9.0	21.0	2.36	0.13	52.0	10.0	0.90	270.0	0.7	0.08	3.0
90 percentile	12.0	50.8	94.0	1059.9	0.7	83.6	30.0	2669.4	5.54	2.5	13.0	97.6	6.4	2.5	12.0	28.0	5.13	0.15	80.8	14.8	1.36	346.3	1.2	0.11	3.0
95 percentile	14.0	61.9	130.6	2147.9	1.0	110.4	43.0	3480.4	6.23	2.5	21.0	122.7	15.3	4.1	14.0	33.0	6.20	0.17	156.9	22.0	2.21	389.7	1.5	0.13	4.0
99 percentile	22.0	109.0	481.2	4395.3	2.6	202.7	104.9	5680.5	8.28	17.5	34.0	307.0	31.1	7.0	22.0	57.9	8.28	0.21	520.4	32.0	4.88	508.1	2.0	0.20	13.1

Figure 5a – Probability Plots – Soils – Total Population

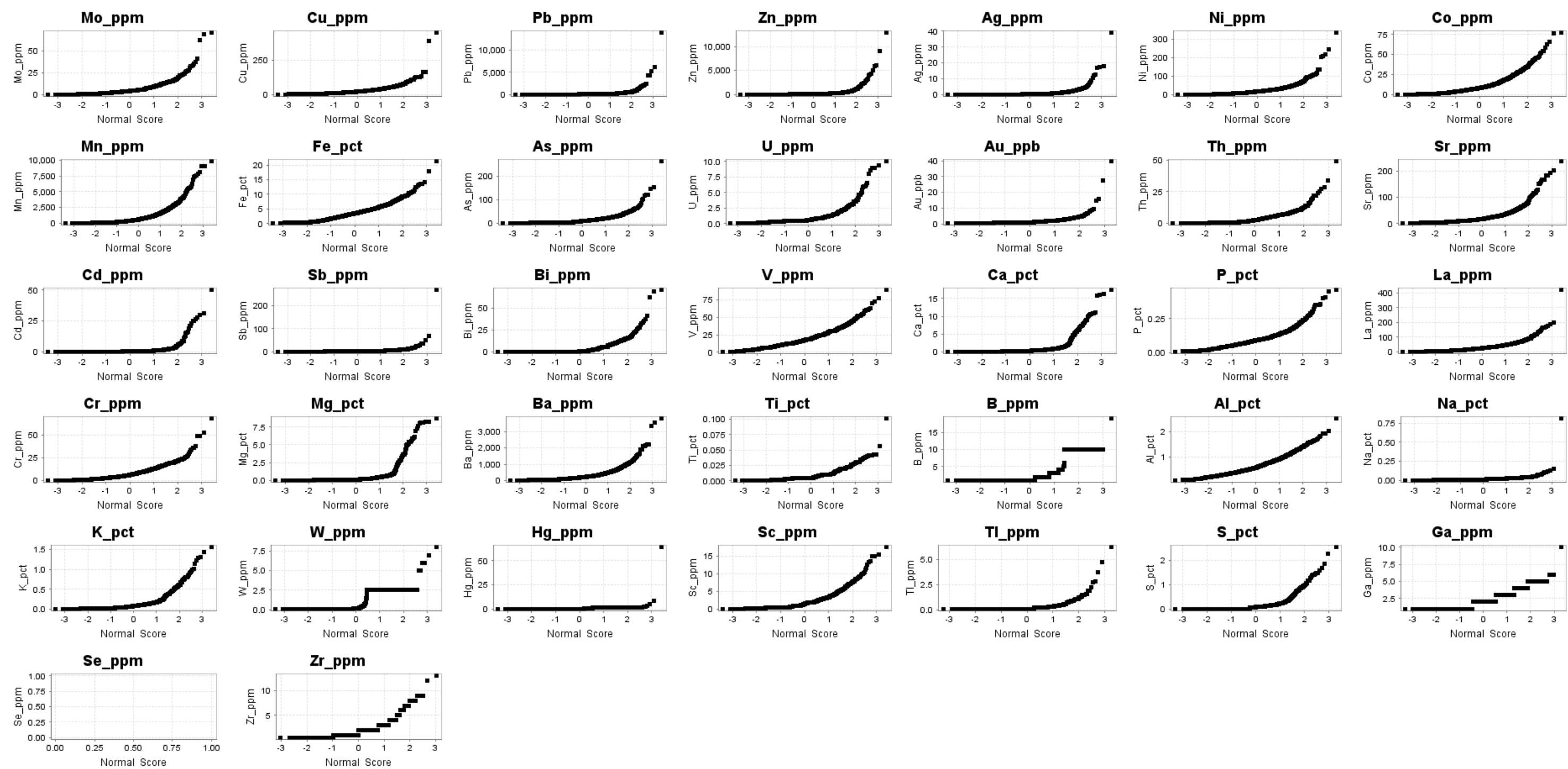


Figure 5b – Probability Plots – Rocks – Total Population

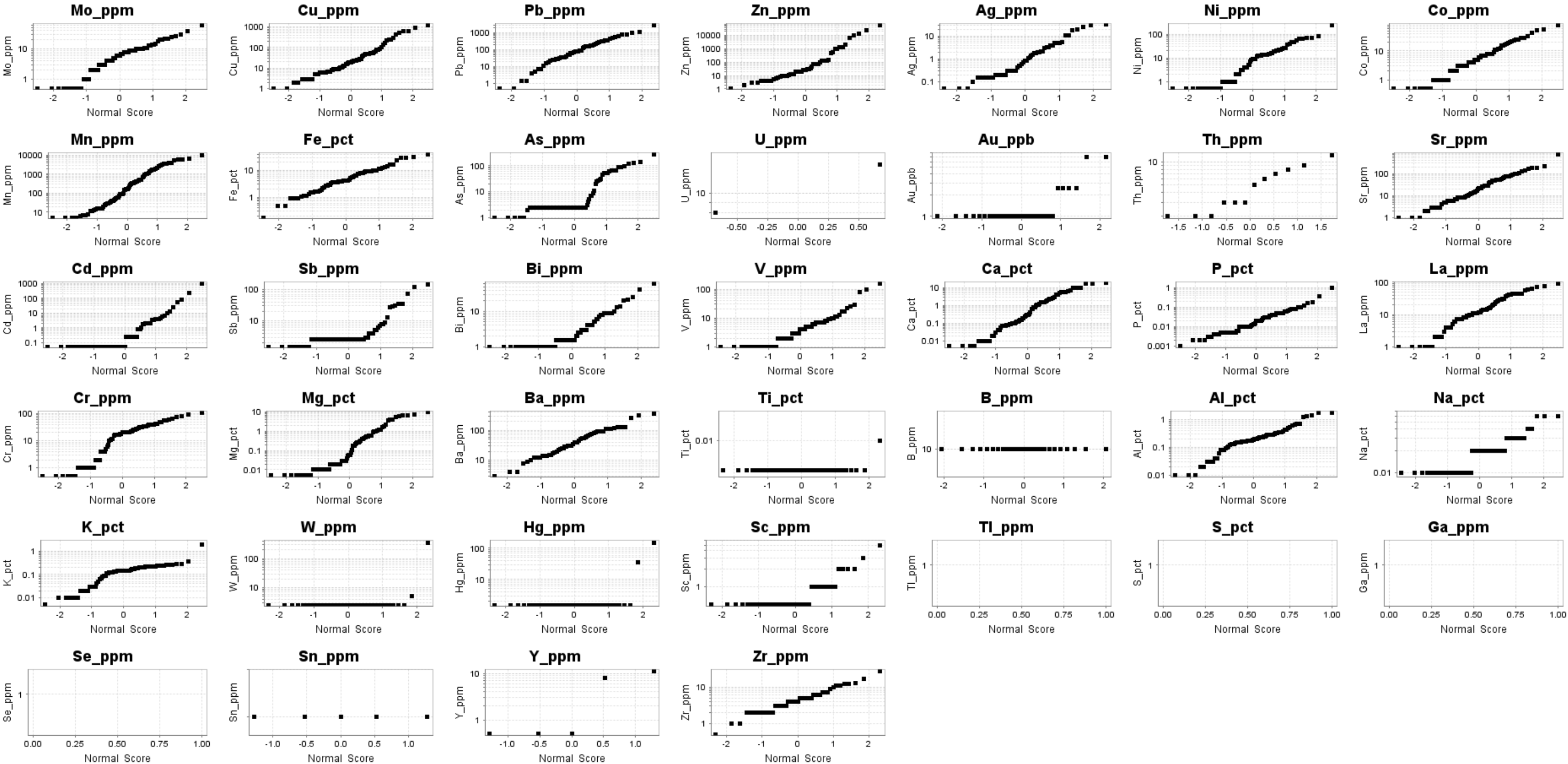
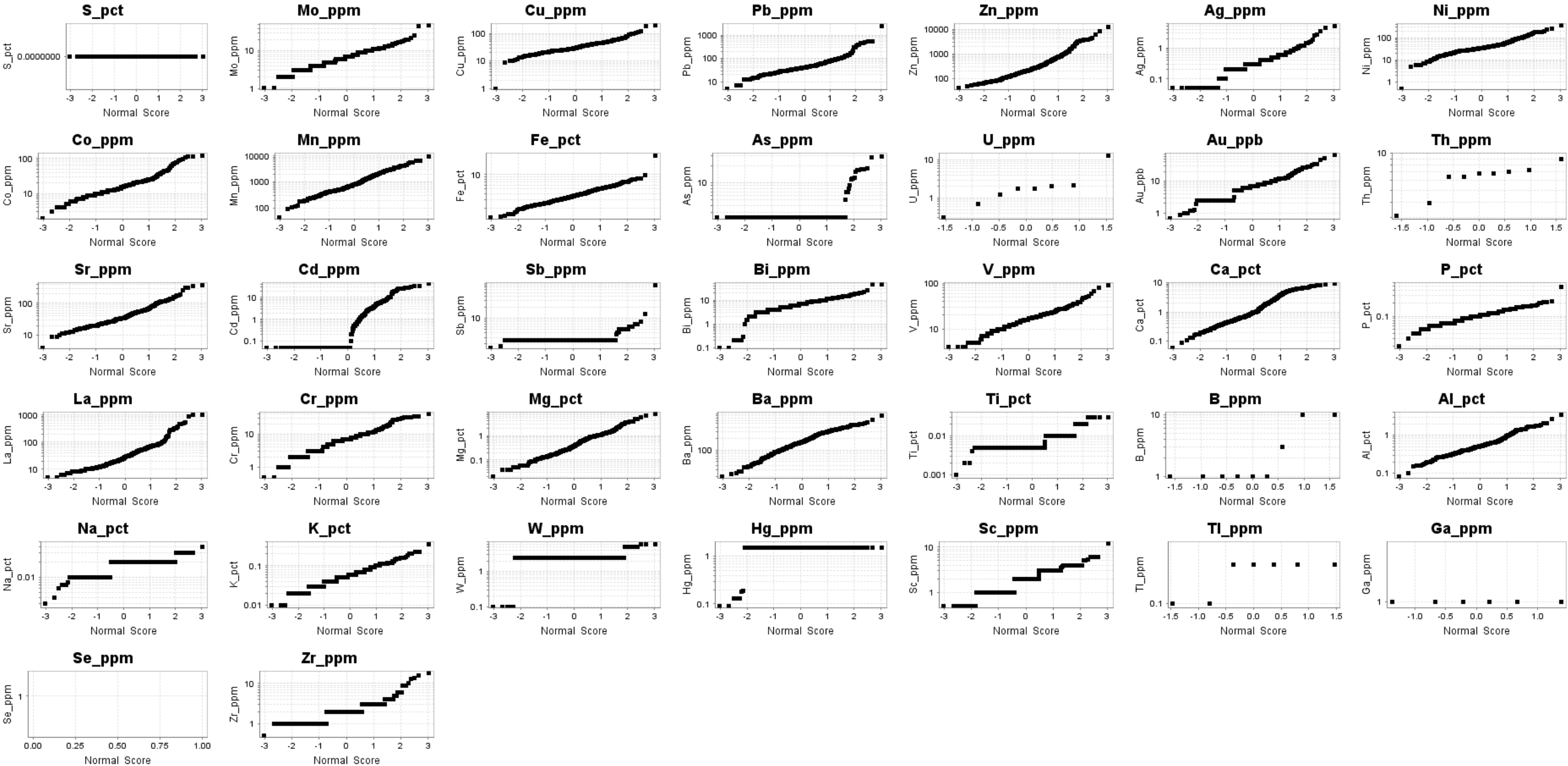


Figure 5c – Probability Plots – Silts – Total Population



The remaining reliable elements were analyzed via a classical Pearson's correlation matrix and color coded with respect to their correlation co-efficient. This analytic technique determines the linear relationship between two elements and ranks it between -1 and 1 with -1 being a perfect negative correlation and 1 being the opposite.

- High Correlation: +/- 0.5 to 1
- Medium Correlation +/- 0.3 to 0.5
- Low Correlation +/- 0.1 to 0.3

In general, many of the correlations one would expect to see are present, due to ionic substitution, such as Pb – Ag – Sb, Fe – Sc and Zn – Cd.

The following groups of positive correlations were observed in the soil data set (no negative high correlations are present):

- Cu – Ni – Co – Sb
- Pb – Ag – Sb
- Zn – Cd
- Fe – Co – K – Sc – Tl
- Au did not show strong negative or positive correlations with any elements

In general, the rock dataset did not display as many and as strong multi-element correlations; again no strong negative correlations are present:

- Cu – Ag – Sb
- Pb – As – K
- Zn – Cd
- Fe – As
- Mg – Mn – Ca
- Au data was not considered reliable in the rock dataset and was therefore not entered into the correlation matrix

The following groups of positive correlations were observed in the silt data set (no negative high correlations are present):

- Pb – Ag – Sb
- Zn – Fe – Cd – La
- Mg – Ca – Sr
- Au did not show strong negative or positive correlations with any elements

Table 3a – Correlation Matrix – Soils – Total Population

	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_pct	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_pct	P_pct	La_ppm	Cr_ppm	Mg_pct	Ba_ppm	Ti_pct	Al_pct	Na_pct	K_pct	Hg_ppm	Sc_ppm	Tl_ppm	S_pct
Mo_ppm	1	0.2	0.093	0.028	0.2	0.094	0.14	0.092	0.42	0.17	0.32	0.1	0.47	0.3	-0.016	0.16	0.74	0.029	-0.11	0.19	0.33	-0.17	-0.075	-0.02	-0.2	-0.078	0.099	0.37	0.13	0.01	0.35	0.25
Cu_ppm	0.2	1	0.49	0.33	0.44	0.53	0.52	0.098	0.39	0.24	0.14	0.092	0.27	0.14	0.29	0.51	0.13	0.082	0.076	0.23	0.073	0.15	0.056	0.0026	-0.15	0.011	-0.05	0.11	0.067	0.41	0.13	0.11
Pb_ppm	0.093	0.49	1	0.49	0.89	0.027	0.018	0.13	0.15	0.33	0.055	0.27	0.034	0.1	0.45	0.86	0.11	0.07	0.23	0.0052	-0.035	0.071	0.28	0.0094	0.022	0.0039	0.042	0.14	0.041	-0.0094	0.17	0.28
Zn_ppm	0.028	0.33	0.49	1	0.42	0.093	0.025	0.37	0.16	0.35	0.048	0.37	0.066	0.062	0.89	0.36	0.044	0.077	0.35	-0.067	-0.051	0.11	0.41	0.032	0.012	-0.0091	-0.0054	-0.073	0.12	-0.0027	-0.043	-0.03
Ag_ppm	0.2	0.44	0.89	0.42	1	0.016	0.029	0.086	0.23	0.3	0.13	0.24	0.12	0.17	0.37	0.79	0.2	0.019	0.15	0.066	-0.017	0.011	0.21	0.013	-0.0011	-0.036	0.039	0.29	0.063	0.011	0.35	0.43
Ni_ppm	0.094	0.53	0.027	0.093	0.016	1	0.68	0.088	0.25	0.12	0.27	-4.40E-04	0.066	0.071	0.069	0.078	0.0057	0.22	0.18	0.16	-0.087	0.33	0.11	0.065	-0.15	-0.05	-0.16	-0.11	0.009	0.52	-0.015	-0.059
Co_ppm	0.14	0.52	0.018	0.025	0.029	0.68	1	0.35	0.56	0.1	0.056	-0.022	0.12	0.24	0.028	0.023	0.064	0.07	0.075	0.52	0.12	0.16	-0.036	0.047	-0.2	-0.018	-0.12	0.12	0.12	0.75	0.13	0.089
Mn_ppm	0.092	0.098	0.13	0.37	0.086	0.088	0.35	1	0.43	0.18	0.047	0.16	0.062	0.082	0.32	0.065	0.012	0.043	0.25	0.18	0.17	0.038	0.29	0.18	-0.051	0.048	-0.08	0.022	0.084	0.21	0.22	0.086
Fe_pct	0.42	0.39	0.15	0.16	0.23	0.25	0.56	0.43	1	0.39	0.15	0.092	0.39	0.34	0.12	0.15	0.15	0.04	0.0072	0.48	0.42	0.11	0.034	0.094	-0.12	0.15	-0.071	0.55	0.12	0.51	0.58	0.52
As_ppm	0.17	0.24	0.33	0.35	0.3	0.12	0.1	0.18	0.39	1	0.22	0.25	0.31	0.098	0.33	0.26	-0.16	0.13	0.13	0.05	0.15	0.21	0.15	0.096	0.063	0.14	-0.11	0.17	-0.054	0.22	0.33	0.37
U_ppm	0.32	0.14	0.055	0.048	0.13	0.27	0.056	0.047	0.15	0.22	1	0.043	0.28	0.22	0.075	0.21	0.084	0.13	0.032	0.022	0.08	0.17	0.049	0.12	0.066	0.3	-0.0086	0.073	-0.0041	-0.002	0.3	0.076
Au_ppb	0.1	0.092	0.27	0.37	0.24	-4.40E-04	-0.022	0.16	0.092	0.25	0.043	1	0.075	0.063	0.27	0.24	-0.069	-0.017	0.17	-0.02	0.16	0.019	0.19	0.016	0.029	0.039	-0.011	0.028	0.05	-0.039	0.038	0.058
Th_ppm	0.47	0.27	0.034	0.066	0.12	0.066	0.12	0.062	0.39	0.31	0.28	0.075	1	0.18	0.1	0.18	0.047	-0.15	-0.11	-0.03	0.64	0.0076	-0.067	0.064	0.0086	0.11	-0.005	0.26	0.032	0.22	0.22	0.23
Sr_ppm	0.3	0.14	0.1	0.062	0.17	0.071	0.24	0.082	0.34	0.098	0.22	0.063	0.18	1	0.043	0.076	0.27	-0.063	0.22	0.5	0.1	-0.03	0.16	0.032	-0.085	-0.086	0.15	0.42	0.16	0.17	0.3	0.51
Cd_ppm	-0.016	0.29	0.45	0.89	0.37	0.069	0.028	0.32	0.12	0.33	0.075	0.27	0.1	0.043	1	0.32	-0.036	0.082	0.29	-0.051	-0.026	0.096	0.25	0.028	0.032	-0.0048	-0.0095	-0.067	0.15	0.018	-0.024	-0.012
Sb_ppm	0.16	0.51	0.86	0.36	0.79	0.078	0.023	0.065	0.15	0.26	0.21	0.24	0.18	0.076	0.32	1	0.1	0.092	0.16	-0.01	-0.022	0.038	0.2	-0.0045	-0.0078	-0.029	0.014	0.04	0.048	4.50E-05	0.39	0.31
Bi_ppm	0.74	0.13	0.11	0.044	0.2	0.0057	0.064	0.012	0.15	-0.16	0.084	-0.069	0.047	0.27	-0.036	0.1	1	0.016	-0.031	0.13	0.071	-0.16	0.015	-0.09	-0.035	-0.093	0.22	0.3	0.21	-0.12	-0.047	-0.095
V_ppm	0.029	0.082	0.07	0.077	0.019	0.22	0.07	0.043	0.04	0.13	0.13	-0.017	-0.15	-0.063	0.082	0.092	0.016	1	0.13	0.073	-0.21	0.63	0.19	0.043	0.31	0.38	-0.11	-0.13	-0.025	0.16	0.016	-0.14
Ca_pct	-0.11	0.076	0.23	0.35	0.15	0.18	0.075	0.25	0.0072	0.13	0.032	0.17	-0.11	0.22	0.29	0.16	-0.031	0.13	1	-0.059	-0.17	0.15	0.94	0.041	0.014	-0.12	-0.029	-0.15	-0.012	0.095	-0.096	-0.062
P_pct	0.19	0.23	0.0052	-0.067	0.066	0.16	0.52	0.18	0.48	0.05	0.022	-0.02	-0.03	0.5	-0.051	-0.01	0.13	0.073	-0.059	1	0.14	-0.021	-0.15	0.0081	-0.23	0.0025	-0.013	0.36	0.11	0.32	0.14	0.35
La_ppm	0.33	0.073	-0.035	-0.051	-0.017	-0.087	0.12	0.17	0.42	0.15	0.08	0.16	0.64	0.1	-0.026	-0.022	0.071	-0.21	-0.17	0.14	1	-0.11	-0.16	0.066	-0.14	0.14	-0.017	0.3	-0.014	0.1	0.27	0.29
Cr_ppm	-0.17	0.15	0.071	0.11	0.011	0.33	0.16	0.038	0.11	0.21	0.17	0.019	0.0076	-0.03	0.096	0.038	-0.16	0.63	0.15	-0.021	-0.11	1	0.26	0.18	0.44	0.57	-0.14	-0.047	-0.087	0.28	-0.12	-0.15
Mg_pct	-0.075	0.056	0.28	0.41	0.21	0.11	-0.036	0.29	0.034	0.15	0.049	0.19	-0.067	0.16	0.25	0.2	0.015	0.19	0.94	-0.15	-0.16	0.26	1	0.056	0.087	-0.016	-0.016	-0.14	0.015	0.0015	-0.087	-0.082
Ba_ppm	-0.02	0.0026	0.0094	0.032	0.013	0.065	0.047	0.18	0.094	0.096	0.12	0.016	0.064	0.032	0.028	-0.0045	-0.09	0.043	0.041	0.0081	0.066	0.18	0.056	1	-0.024	0.13	-0.097	0.0019	-0.049	0.11	-0.028	-0.019
Ti_pct	-0.2	-0.15	0.022	0.012	-0.0011	-0.15	-0.2	-0.051	-0.12	0.063	0.066	0.029	0.0086	-0.085	0.032	-0.0078	-0.035	0.31	0.014	-0.23	-0.14	0.44	0.087	-0.024	1	0.42	0.086	0.027	-0.039	-0.065	0.025	-0.086
Al_pct	-0.078	0.011	0.0039	-0.0091	-0.036	-0.05	-0.018	0.048	0.15	0.14	0.3	0.039	0.11	-0.086	-0.0048	-0.029	-0.093	0.38	-0.12	0.0025	0.14	0.57	-0.016	0.13	0.42	1	-0.023	0.072	-0.049	0.04	0.17	0.026
Na_pct	0.099	-0.05	0.042	-0.0054	0.039	-0.16	-0.12	-0.08	-0.071	-0.11	-0.0086	-0.011	-0.005	0.15	-0.0095	0.014	0.22	-0.11	-0.029	-0.013	-0.017	-0.14	-0.016	-0.097	0.086	-0.023	1	0.15	0.059	-0.15	0.24	0.4
K_pct	0.37	0.11	0.14	-0.073	0.29	-0.11	0.12	0.022	0.55	0.17	0.073	0.028	0.26	0.42	-0.067	0.04	0.3	-0.13	-0.15	0.36	0.3	-0.047	-0.14	0.0019	0.027	0.072	0.15	1	0.069	0.12	0.47	0.9
Hg_ppm	0.13	0.067	0.041	0.12	0.063	0.009	0.12	0.084	0.12	-0.054	-0.0041	0.05	0.032	0.16	0.15	0.048	0.21	-0.025	-0.012	0.11	-0.014	-0.087	0.015	-0.049	-0.039	-0.049	0.059	0.069	1	-0.023	0.024	0.076
Sc_ppm	0.01	0.41	-0.0094	-0.0027	0.011	0.52	0.75	0.21	0.51	0.22	-0.002	-0.039	0.22	0.17	0.018	4.50E-05	-0.12	0.16	0.095	0.32	0.1	0.28	0.0015	0.11	-0.065	0.04	-0.15	0.12	-0.023	1	0.14	0.056
Tl_ppm	0.35	0.13	0.17	-0.043	0.35	-0.015	0.13	0.22	0.58	0.33	0.3	0.038	0.22	0.3	-0.024	0.39	-0.047	0.016	-0.096	0.14	0.27	-0.12	-0.087	-0.028	0.025	0.17	0.24	0.47	0.024	0.14	1	0.54
S_pct	0.25	0.11	0.28	-0.03	0.43	-0.059	0.089	0.086	0.52	0.37	0.076	0.058	0.23	0.51	-0.012	0.31	-0.095	-0.14	-0.062	0.35	0.29	-0.15	-0.082	-0.019	-0.086	0.026	0.4	0.9	0.076	0.056	0.54	1

Table 3b – Correlation Matrix – Rocks – Total Population

	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_pct	As_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_pct	P_pct	La_ppm	Cr_ppm	Mg_pct	Ba_ppm	Al_pct	K_pct
Mo_ppm	1	-0.045	0.2	-0.14	0.15	0.3	0.24	-0.23	0.25	0.2	-0.19	-0.074	-0.022	0.46	0.063	-0.25	-0.079	-0.077	-0.12	-0.22	-0.21	0.15	0.033
Cu_ppm	-0.045	1	0.085	0.26	0.61	0.35	0.21	0.019	0.038	0.13	0.45	0.36	0.74	0.23	-0.013	0.065	-0.048	-0.19	-0.23	0.1	-0.19	-0.2	-0.16
Pb_ppm	0.2	0.085	1	0.36	0.44	0.32	0.23	-0.057	0.29	0.59	-0.066	0.14	0.089	-0.12	-0.12	-0.1	-0.095	0.051	-0.21	-0.14	-0.26	0.38	0.75
Zn_ppm	-0.14	0.26	0.36	1	0.21	0.032	-0.054	0.06	0.018	0.15	0.16	0.51	0.14	-0.13	0.011	0.1	-0.077	-0.0094	-0.021	0.15	-0.13	0.12	0.27
Ag_ppm	0.15	0.61	0.44	0.21	1	0.29	0.18	0.11	0.37	0.4	0.48	0.21	0.71	-0.15	-0.07	0.19	-0.13	-0.14	-0.21	0.17	-0.21	-0.02	0.14
Ni_ppm	0.3	0.35	0.32	0.032	0.29	1	0.71	-0.07	0.37	0.46	0.16	0.11	0.16	-0.042	0.1	-0.11	0.025	-0.17	-0.17	-0.059	-0.22	-0.056	-0.072
Co_ppm	0.24	0.21	0.23	-0.054	0.18	0.71	1	0.018	0.34	0.28	0.025	0.075	0.052	-0.1	0.095	-0.026	0.14	-0.21	-0.2	-0.13	-0.2	0.099	-0.046
Mn_ppm	-0.23	0.019	-0.057	0.06	0.11	-0.07	0.018	1	0.012	-0.17	0.3	0.17	0.27	0.049	7.90E-04	0.75	0.51	-0.12	-0.18	0.69	0.25	0.031	0.027
Fe_pct	0.25	0.038	0.29	0.018	0.37	0.37	0.34	0.012	1	0.63	-0.082	0.047	0.095	-0.06	0.0025	-0.012	0.0041	-0.3	-0.44	-0.0081	5.40E-04	-0.022	0.073
As_ppm	0.2	0.13	0.59	0.15	0.4	0.46	0.28	-0.17	0.63	1	-0.17	0.043	0.044	-0.022	-0.09	-0.16	-0.091	-0.09	-0.34	-0.13	-0.16	-0.016	0.22
Sr_ppm	-0.19	0.45	-0.066	0.16	0.48	0.16	0.025	0.3	-0.082	-0.17	1	0.24	0.48	-0.098	-0.021	0.84	0.019	-0.047	-0.13	0.42	-0.068	-0.072	-0.15
Cd_ppm	-0.074	0.36	0.14	0.51	0.21	0.11	0.075	0.17	0.047	0.043	0.24	1	0.59	-0.025	-0.019	0.018	-0.052	0.19	-0.13	-0.0035	-0.04	0.0014	0.81
Sb_ppm	-0.022	0.74	0.089	0.14	0.71	0.16	0.052	0.27	0.095	0.044	0.48	0.59	1	-0.05	-0.027	0.36	-0.095	-0.034	-0.21	0.35	-0.058	-0.14	0.0082
Bi_ppm	0.46	0.23	-0.12	-0.13	-0.15	-0.042	-0.1	0.049	-0.06	-0.022	-0.098	-0.025	-0.05	1	0.092	-0.013	0.19	-0.078	0.063	0.073	0.074	-0.18	-0.041
V_ppm	0.063	-0.013	-0.12	0.011	-0.07	0.1	0.095	7.90E-04	0.0025	-0.09	-0.021	-0.019	-0.027	0.092	1	-0.019	0.085	-0.19	0.39	0.0026	0.13	0.23	-0.081
Ca_pct	-0.25	0.065	-0.1	0.1	0.19	-0.11	-0.026	0.75	-0.012	-0.16	0.84	0.018	0.36	-0.013	-0.019	1	0.22	-0.075	-0.23	0.84	0.067	-0.086	-0.08
P_pct	-0.079	-0.048	-0.095	-0.077	-0.13	0.025	0.14	0.51	0.0041	-0.091	0.019	-0.052	-0.095	0.19	0.085	0.22	1	0.01	0.065	0.25	0.42	0.018	0.069
La_ppm	-0.077	-0.19	0.051	-0.0094	-0.14	-0.17	-0.21	-0.12	-0.3	-0.09	-0.047	0.19	-0.034	-0.078	-0.19	-0.075	0.01	1	-0.048	-0.12	0.43	0.19	0.4
Cr_ppm	-0.12	-0.23	-0.21	-0.021	-0.21	-0.17	-0.2	-0.18	-0.44	-0.34	-0.13	-0.13	-0.21	0.063	0.39	-0.23	0.065	-0.048	1	-0.13	0.051	-0.027	-0.14
Mg_pct	-0.22	0.1	-0.14	0.15	0.17	-0.059	-0.13	0.69	-0.0081	-0.13	0.42	-0.0035	0.35	0.073	0.0026	0.84	0.25	-0.12	-0.13	1	0.15	-0.15	-0.17
Ba_ppm	-0.21	-0.19	-0.26	-0.13	-0.21	-0.22	-0.2	0.25	5.40E-04	-0.16	-0.068	-0.04	-0.058	0.074	0.13	0.067	0.42	0.43	0.051	0.15	1	0.11	0.058
Al_pct	0.15	-0.2	0.38	0.12	-0.02	-0.056	0.099	0.031	-0.022	-0.016	-0.072	0.0014	-0.14	-0.18	0.23	-0.086	0.018	0.19	-0.027	-0.15	0.11	1	0.47
K_pct	0.033	-0.16	0.75	0.27	0.14	-0.072	-0.046	0.027	0.073	0.22	-0.15	0.81	0.0082	-0.041	-0.081	-0.08	0.069	0.4	-0.14	-0.17	0.058	0.47	1

Table 3b – Correlation Matrix – Silts – Total Population

	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_pct	As_ppm	Au_ppb	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_pct	P_pct	La_ppm	Cr_ppm	Mg_pct	Ba_ppm	Al_pct	K_pct	Zr_ppm
Mo_ppm	1	0.38	0.064	0.24	0.19	0.42	0.12	0.28	0.35	0.056	0.02	-0.21	0.18	0.053	0.99	0.4	-0.29	0.017	0.19	-0.31	-0.22	-0.046	-0.14	0.18	0.55
Cu_ppm	0.38	1	0.17	0.19	0.45	0.36	0.18	0.24	0.31	0.11	0.031	-0.19	0.3	0.15	0.36	0.25	-0.27	0.24	0.35	-0.11	-0.23	0.088	0.17	0.24	0.25
Pb_ppm	0.064	0.17	1	0.12	0.58	0.013	0.0079	0.06	0.13	0.086	-0.048	-0.022	0.11	0.92	0.058	-0.011	0.069	0.4	0.045	-0.072	0.24	0.054	-0.065	0.07	0.054
Zn_ppm	0.24	0.19	0.12	1	0.15	0.4	0.17	0.41	0.55	0.031	-0.038	-0.15	0.84	0.032	0.24	0.0058	-0.13	-0.17	0.54	-0.2	-0.027	-0.05	-0.09	0.003	0.39
Ag_ppm	0.19	0.45	0.58	0.15	1	0.08	-0.012	0.13	0.18	0.34	-0.0049	-0.15	0.2	0.43	0.16	0.074	-0.058	0.11	0.11	-0.15	0.14	0.045	-0.012	0.13	0.18
Ni_ppm	0.42	0.36	0.013	0.4	0.08	1	0.59	0.45	0.32	0.042	-0.0038	-0.035	0.29	0.019	0.41	0.46	-0.13	0.17	0.044	-0.055	-0.11	0.027	-0.012	0.0081	0.3
Co_ppm	0.12	0.18	0.0079	0.17	-0.012	0.59	1	0.62	0.35	0.0028	-0.045	-0.036	0.075	0.0091	0.11	0.07	-0.15	0.3	0.038	-0.076	-0.21	0.1	0.32	0.31	0.15
Mn_ppm	0.28	0.24	0.06	0.41	0.13	0.45	0.62	1	0.5	-0.058	-0.042	-0.18	0.41	-0.017	0.27	-0.018	-0.22	0.11	0.35	-0.28	-0.16	0.1	0.064	0.33	0.12
Fe_pct	0.35	0.31	0.13	0.55	0.18	0.32	0.35	0.5	1	0.091	-0.033	-0.21	0.32	0.092	0.35	-0.026	-0.29	0.15	0.24	-0.15	-0.26	-0.031	0.14	0.36	0.2
As_ppm	0.056	0.11	0.086	0.031	0.34	0.042	0.0028	-0.058	0.091	1	-0.11	-0.034	0.018	0.079	-0.039	0.0028	-0.09	-0.071	-0.036	0.0024	-0.026	-0.011	-0.12	0.05	0.2
Au_ppb	0.02	0.031	-0.048	-0.038	-0.0049	-0.0038	-0.045	-0.042	-0.033	-0.11	1	0.0013	-0.01	-0.051	0.039	0.018	0.15	-0.01	-0.06	0.13	0.13	-0.042	0.025	-0.11	0.024
Sr_ppm	-0.21	-0.19	-0.022	-0.15	-0.15	-0.035	-0.036	-0.18	-0.21	-0.034	0.0013	1	-0.14	0.071	-0.21	-0.094	0.72	-0.16	-0.2	0.38	0.18	-0.3	0.14	-0.29	0.014
Cd_ppm	0.18	0.3	0.11	0.84	0.2	0.29	0.075	0.41	0.32	0.018	-0.01	-0.14	1	0.018	0.17	-0.095	-0.1	-0.12	0.6	-0.2	-0.032	-0.056	-0.089	-0.023	0.076
Sb_ppm	0.053	0.15	0.92	0.032	0.43	0.019	0.0091	-0.017	0.092	0.079	-0.051	0.071	0.018	1	0.044	0.037	0.012	0.48	-0.028	-0.031	0.042	0.04	-0.063	0.061	0.025
Bi_ppm	0.99	0.36	0.058	0.24	0.16	0.41	0.11	0.27	0.35	-0.039	0.039	-0.21	0.17	0.044	1	0.39	-0.27	0.019	0.19	-0.3	-0.2	-0.058	-0.13	0.16	0.55
V_ppm	0.4	0.25	-0.011	0.0058	0.074	0.46	0.07	-0.018	-0.026	0.0028	0.018	-0.094	-0.095	0.037	0.39	1	-0.11	0.25	-0.18	0.2	-0.018	0.1	0.013	0.095	0.21
Ca_pct	-0.29	-0.27	0.069	-0.13	-0.058	-0.13	-0.15	-0.22	-0.29	-0.09	0.15	0.72	-0.1	0.012	-0.27	-0.11	1	-0.2	-0.23	0.46	0.77	-0.22	0.14	-0.43	-0.008
P_pct	0.017	0.24	0.4	-0.17	0.11	0.17	0.3	0.11	0.15	-0.071	-0.01	-0.16	-0.12	0.48	0.019	0.25	-0.2	1	-0.17	-0.12	-0.24	0.2	-0.018	0.31	-0.033
La_ppm	0.19	0.35	0.045	0.54	0.11	0.044	0.038	0.35	0.24	-0.036	-0.06	-0.2	0.6	-0.028	0.19	-0.18	-0.23	-0.17	1	-0.21	-0.18	0.049	0.11	0.17	0.078
Cr_ppm	-0.31	-0.11	-0.072	-0.2	-0.15	-0.055	-0.076	-0.28	-0.15	0.0024	0.13	0.38	-0.2	-0.031	-0.3	0.2	0.46	-0.12	-0.21	1	0.35	-0.22	0.55	-0.23	-0.022
Mg_pct	-0.22	-0.23	0.24	-0.027	0.14	-0.11	-0.21	-0.16	-0.26	-0.026	0.13	0.18	-0.032	0.042	-0.2	-0.018	0.77	-0.24	-0.18	0.35	1	-0.11	0.017	-0.37	-0.0087
Ba_ppm	-0.046	0.088	0.054	-0.05	0.045	0.027	0.1	0.1	-0.031	-0.011	-0.042	-0.3	-0.056	0.04	-0.058	0.1	-0.22	0.2	0.049	-0.22	-0.11	1	-0.12	0.34	-0.18
Al_pct	-0.14	0.17	-0.065	-0.09	-0.012	-0.012	0.32	0.064	0.14	-0.12	0.025	0.14	-0.089	-0.063	-0.13	0.013	0.14	-0.018	0.11	0.55	0.017	-0.12	1	0.16	0.066
K_pct	0.18	0.24	0.07	0.003	0.13	0.0081	0.31	0.33	0.36	0.05	-0.11	-0.29	-0.023	0.061	0.16	0.095	-0.43	0.31	0.17	-0.23	-0.37	0.34	0.16	1	-0.041
Zr_ppm	0.55	0.25	0.054	0.39	0.18	0.3	0.15	0.12	0.2	0.2	0.024	0.014	0.076	0.025	0.55	0.21	-0.008	-0.033	0.078	-0.022	-0.0087	-0.18	0.066	-0.041	1

Multivariate Statistics and Geochemical Analysis

The solubility of most cations is strongly controlled by the pH and to some degree the Eh of the environment they are exposed to. Most metallic elements are soluble under acidic conditions and will precipitate out as hydroxides as the pH rises; this is known as the pH of hydrolysis. The pH of hydrolysis of Fe 2+ is particularly low compared to that of other common cations such as Zn, Cd, Mo and As. In a process known as adsorption, such cations can be coprecipitated with Fe 2+ at much lower pHs than their pH of hydrolysis. Acidic groundwater will scavenge cations from a deposit or unmineralized host rock; when this groundwater encounters neutral water or the earth's atmosphere its pH rises above the pH of hydrolysis for Fe 2+ and it is precipitated, along with other cations such as Zn, Cd, As. This is known as a hydromorphic anomaly – and it has no spatial association with a deposit (if one even exists).

One can look at the relationship between base metals and iron to help identify possible hydromorphic silt/soil anomalies – theoretically hydromorphic anomalies should show a strong relationship between base metals and iron. Alternatively, primary / mechanically transported anomalies will be significantly elevated in base metals vs iron.

Figures 6a – 6d are scatter plots of Zn and Cu vs Fe and have been classified according to their residual value (actual Zn or Cu value – value of Zn or Cu defined by the line of best fit). Identification of samples with high residual values identify areas where silts/soils are elevated in base metals vs iron and should be interpreted as much more likely to represent primary/mechanically transported anomalies.

For the soil dataset, one can see populations that have high residual values with respect to Fe content; one must then plot these results on a map to identify the spatial association of the anomalous samples. Results of the Fe residual analysis are presented in Figures 8a to 8d which show Cu and Zn residual values for silts and soils for the Fire and Ice claim blocks. Gridded soil values, utilizing Inverse Distance Weighting (IDW), were also included on the Ice block to highlight soil anomalies for Cu and Zn.

Residual values in the soils highlight two separate concentrated anomalous zones; Cu (Figure 8b) highlights the soil lines approximately 2km to the north of the BNOB showing and are coincident with a Cu anomaly while residual values for Zn (Figure 8d) show a well defined concentration of elevated values approximately 1.5 km SE of the BNOB showing – it too is spatially coincident with a well defined Zn and Cu anomaly. There is very limited soil data on the Fire claims and it therefore is very difficult to interpret.

Residual analysis of silt data is spotty at best and does not display any spatial associations with defined Cu or Zn silt anomalies although the main drainage running east out of the Fire claim block (Figure 8a) does show consistently high residual Cu values.

Scandium is also useful in the determination of hydromorphic vs primary anomalies as it commonly substitutes for Fe in minerals but is considered immobile. Therefore base metal anomalies that correlate well with scandium should also be considered as likely primary soil anomalies. Figure 7a and 7b are probability plots of Sc in soils which has been colour coded by the Cu and Zn residuals respectively. One can see in Figure 7a that samples with high Cu residual values also correlate well with elevated Sc values - highly suggestive that the anomaly is primary in nature. Unfortunately the same relationship is not seen with zinc (Figure 7b) as the highest residuals show no relationship to Sc values.

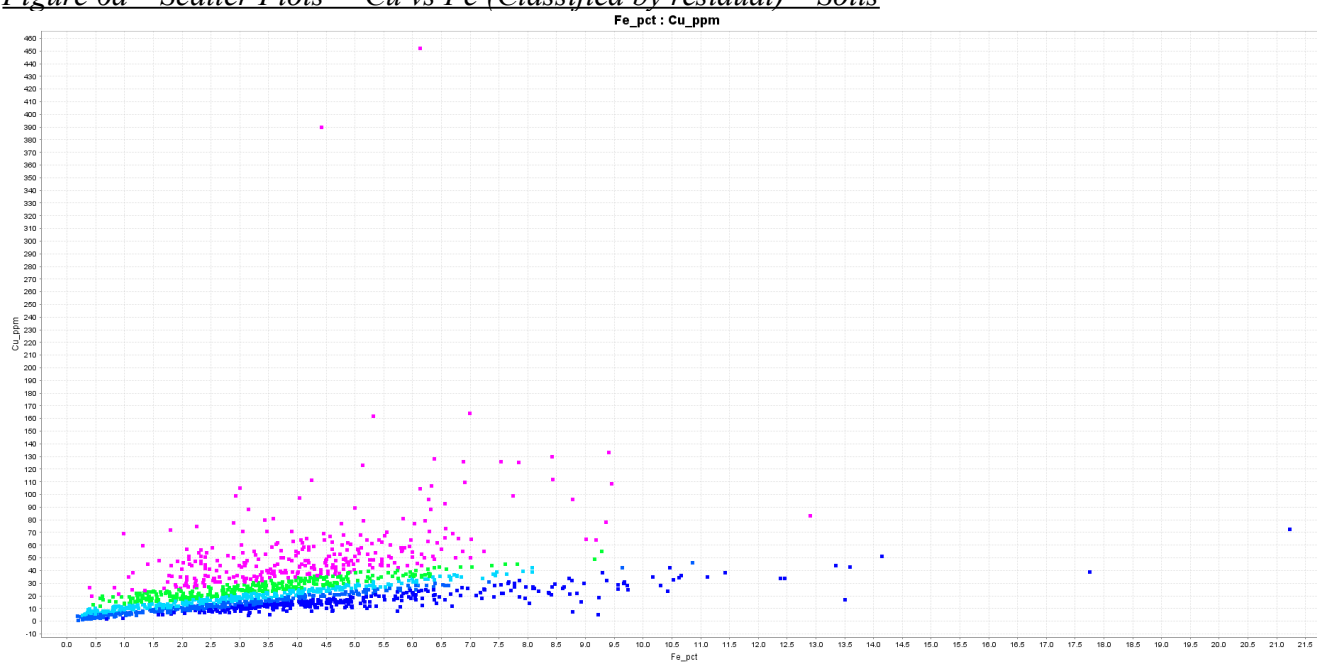
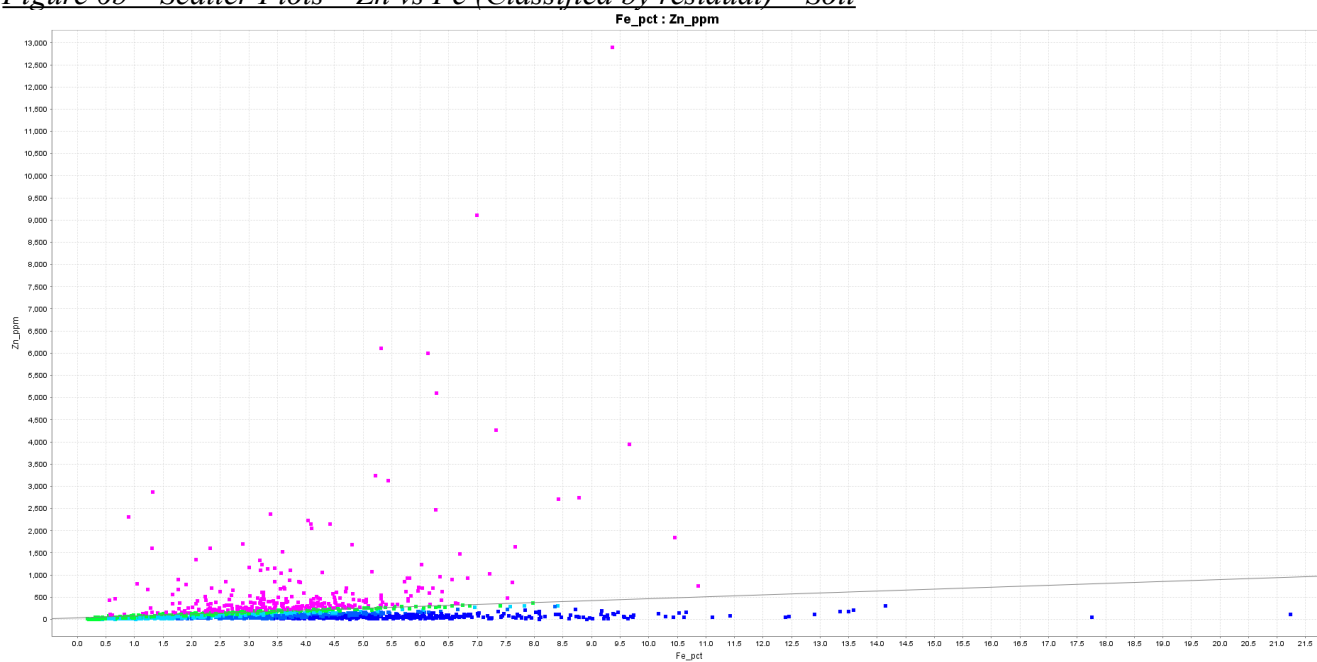
Figure 6a – Scatter Plots – Cu vs Fe (Classified by residual) – SoilsFigure 6b – Scatter Plots – Zn vs Fe (Classified by residual) – Soil

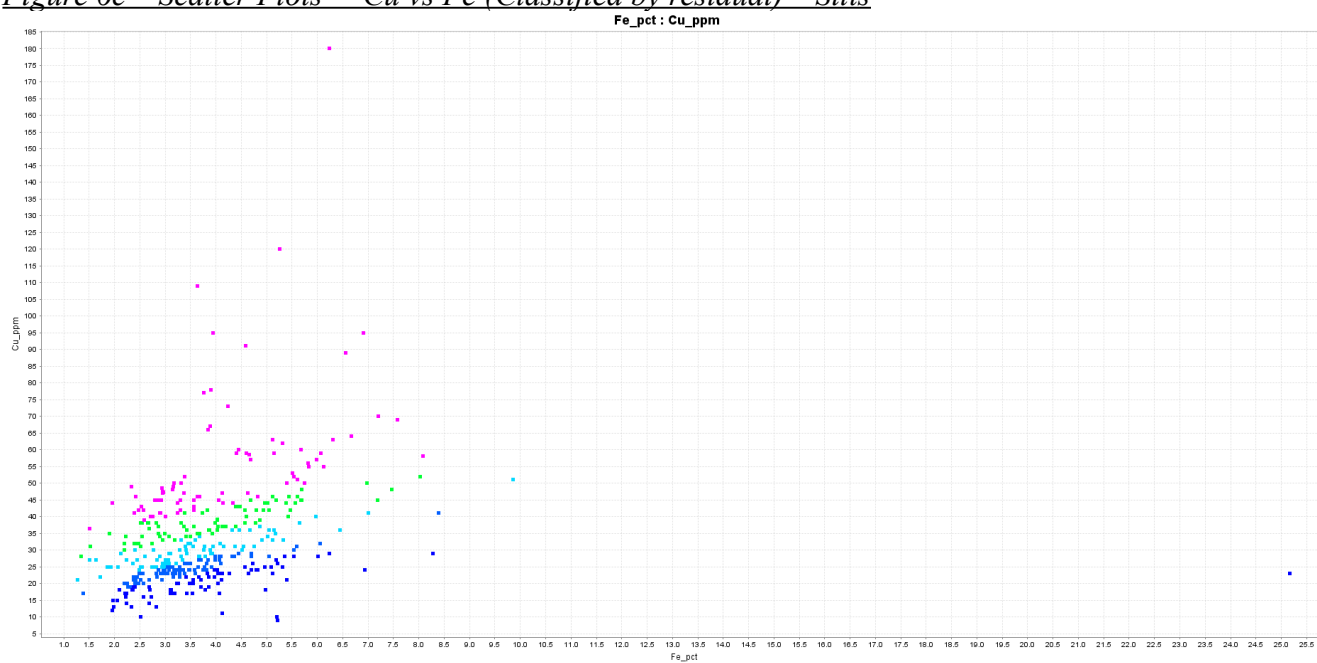
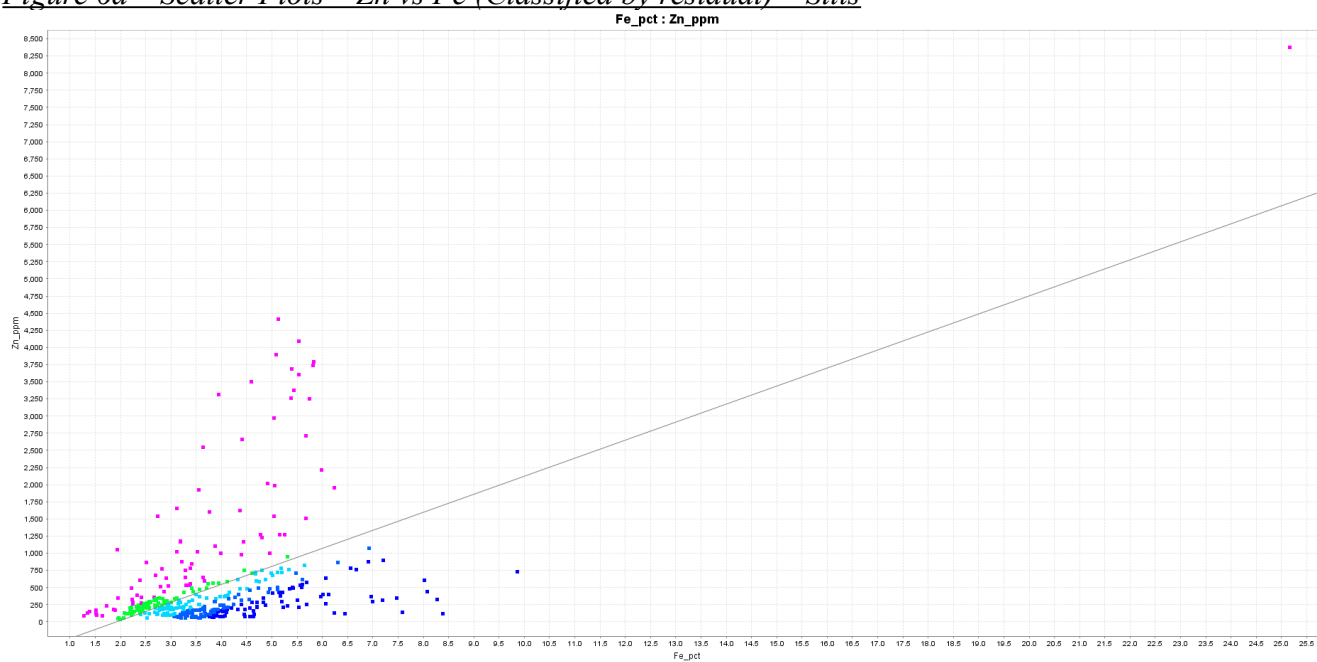
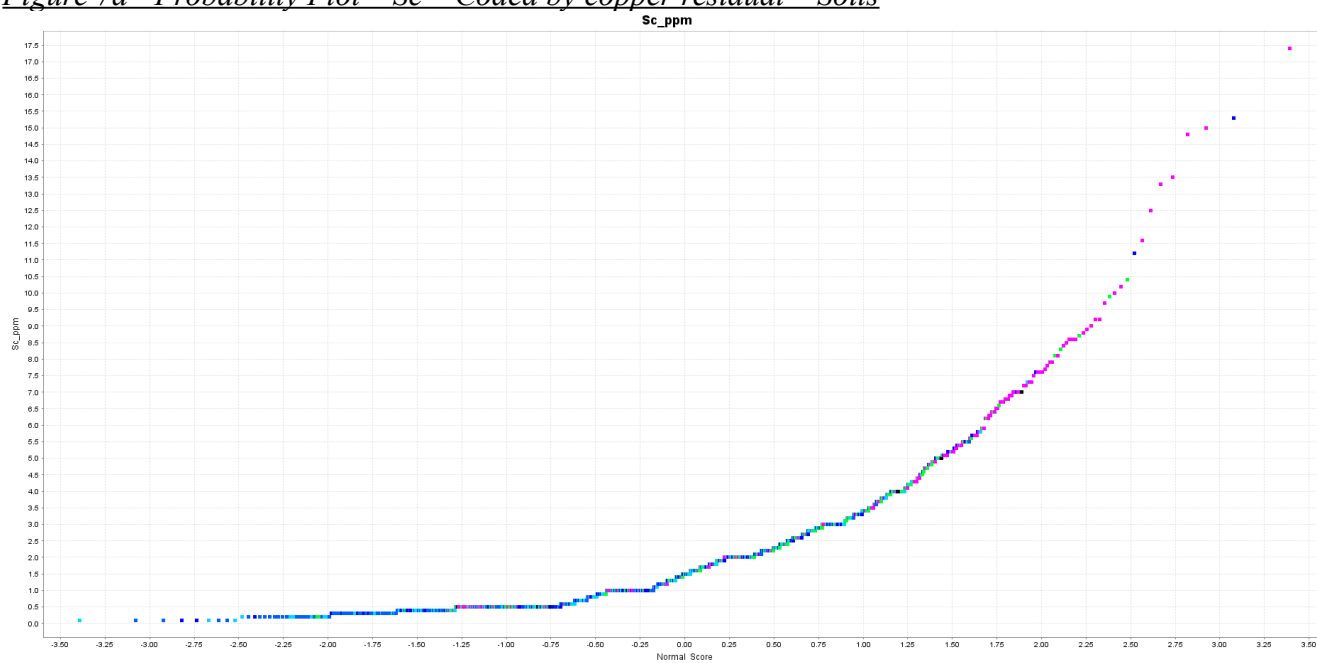
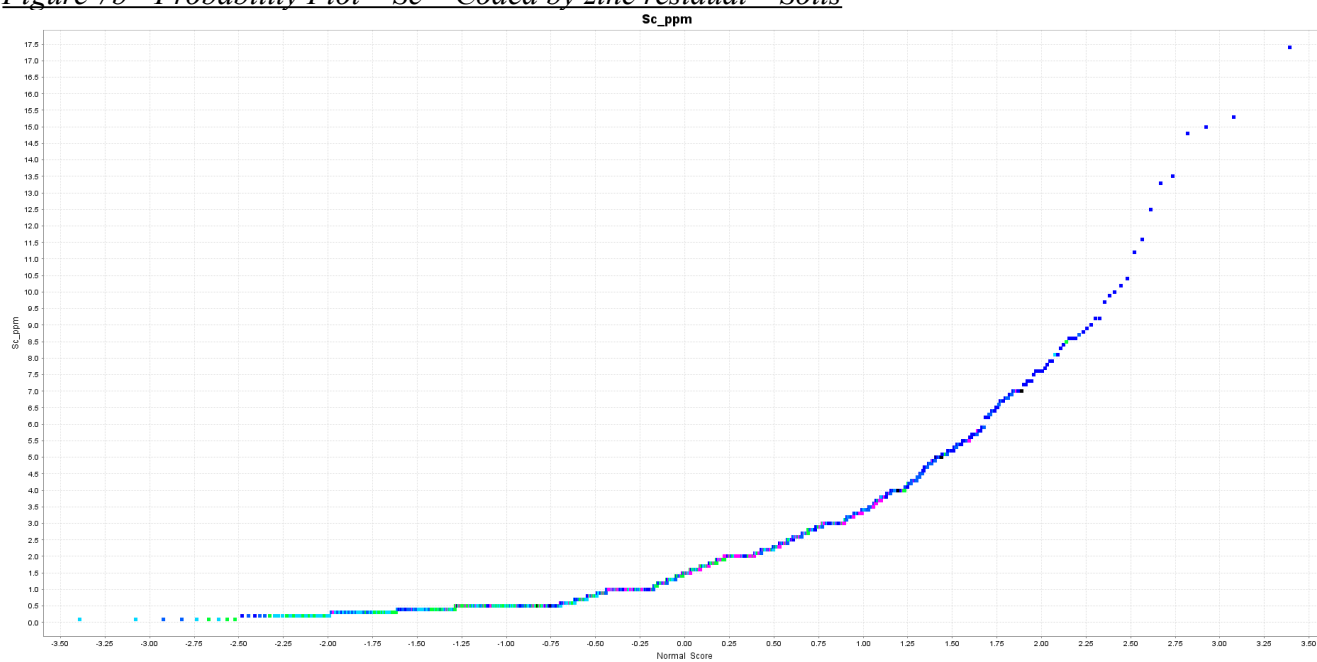
Figure 6c – Scatter Plots – Cu vs Fe (Classified by residual) – SiltsFigure 6d – Scatter Plots – Zn vs Fe (Classified by residual) – Silts

Figure 7a - Probability Plot – Sc – Coded by copper residual – SoilsFigure 7b - Probability Plot – Sc – Coded by zinc residual – Soils



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FIM Property
Figure 8a - Residual Cu - Fire
Projection - NAD 83 UTM Zone 08N
Scale - 1: 10 000
21/10/2013

Legend

Silts - Residual Cu (ppm)

- 76.0 - -11.0
- 10.9 - -1.2
- 1.1 - 11.2
- 11.3 - 37.9
- 38.0 - 138.8

Soils - Residual Cu Resid_Cu_p

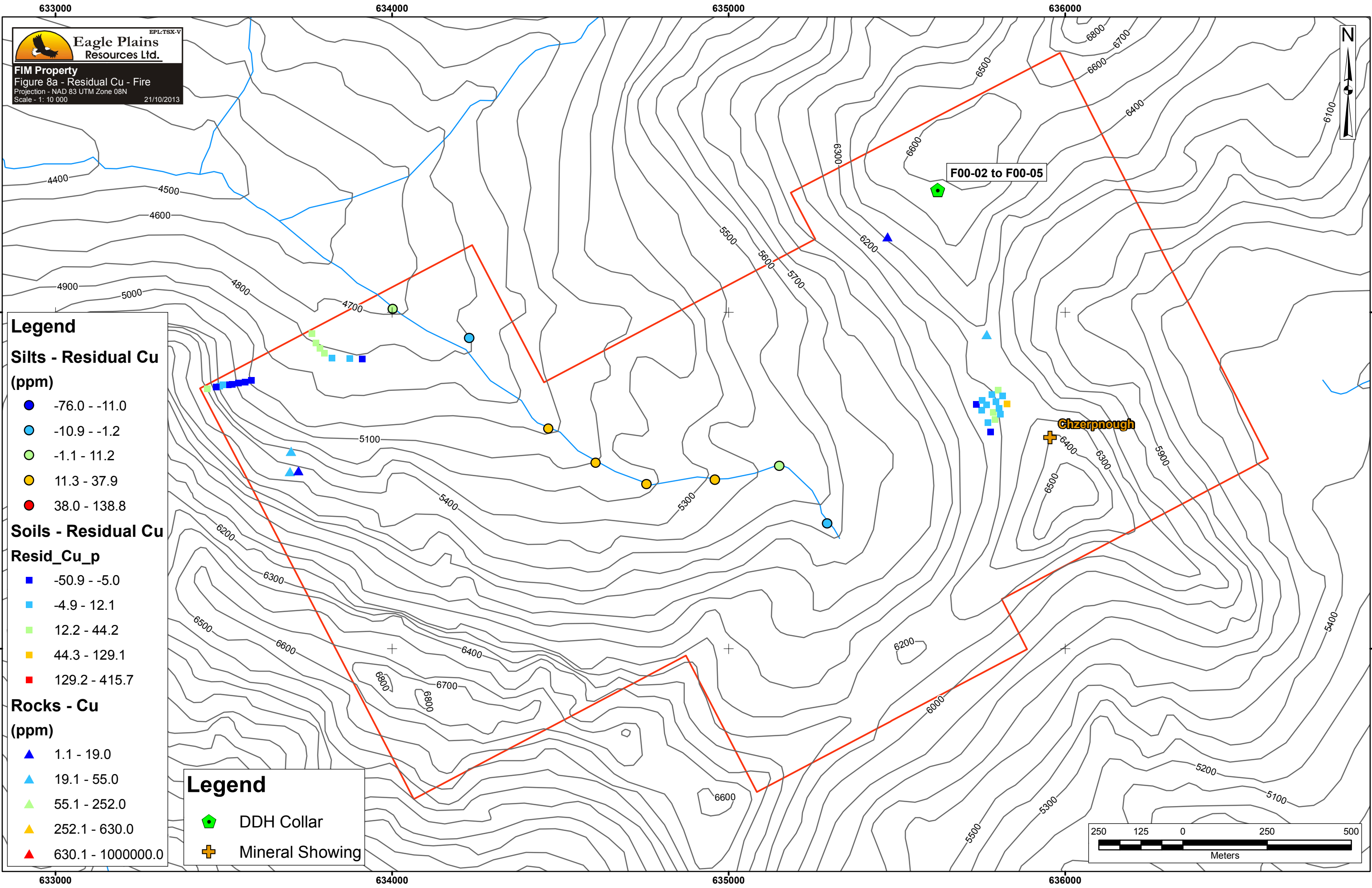
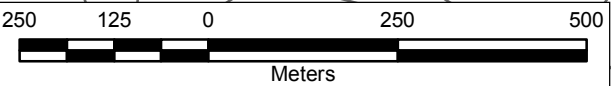
- 50.9 - -5.0
- 4.9 - 12.1
- 12.2 - 44.2
- 44.3 - 129.1
- 129.2 - 415.7

Rocks - Cu (ppm)

- 1.1 - 19.0
- 19.1 - 55.0
- 55.1 - 252.0
- 252.1 - 630.0
- 630.1 - 1000000.0

Legend

- DDH Collar
- Mineral Showing



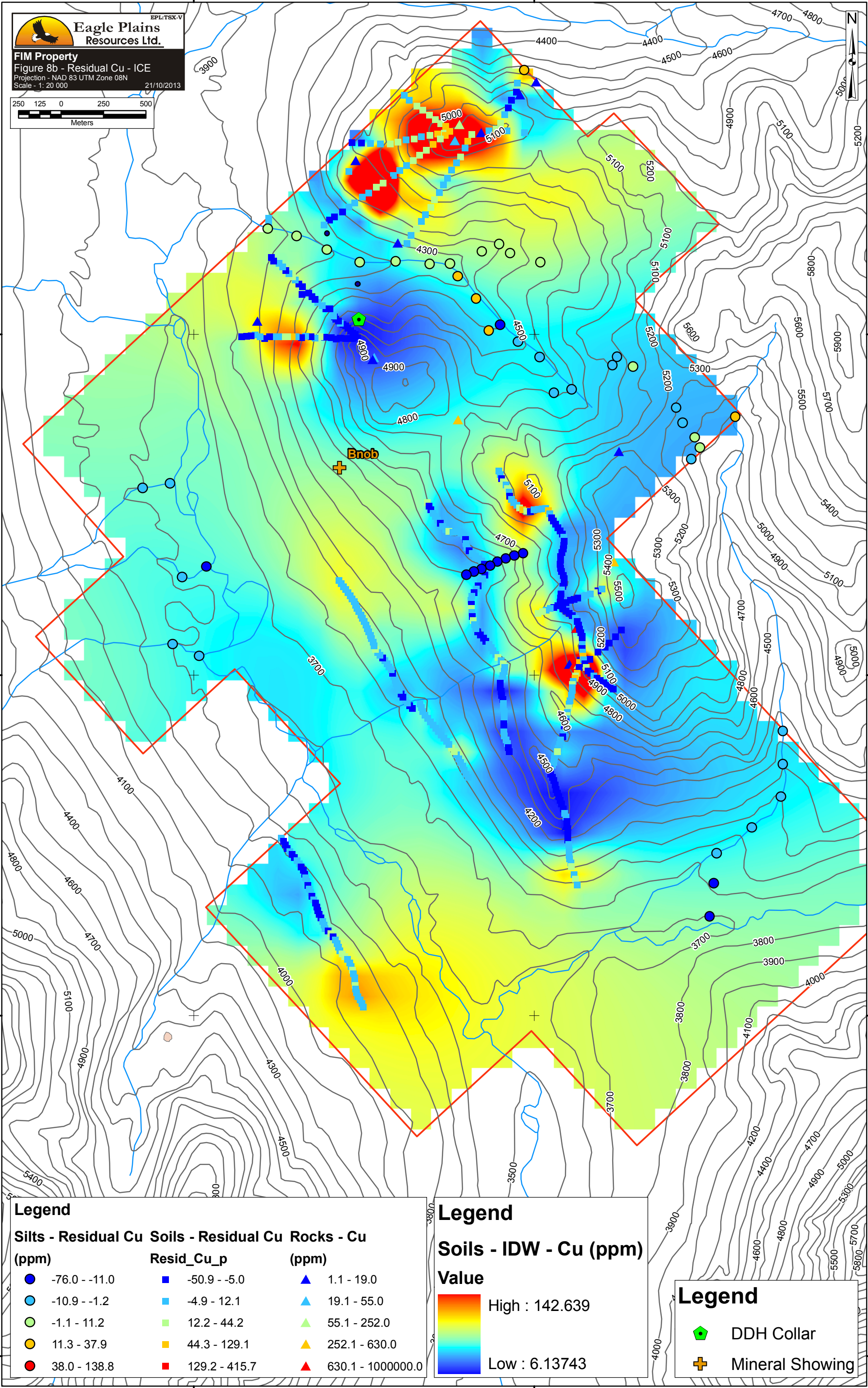


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FIM Property
Figure 8b - Residual Cu - ICE
Projection - NAD 83 UTM Zone 08N
Scale - 1: 20 000
21/10/2013

2501250250500

Meters



Legend

Silts - Residual Zn
Resid_Zn_p

- 1587.6 - -736.7
- 736.6 - -155.9
- 155.8 - 415.1
- 415.2 - 1494.2
- 1494.3 - 3573.0

Soils - Residual Zn
Resid_Zn_p

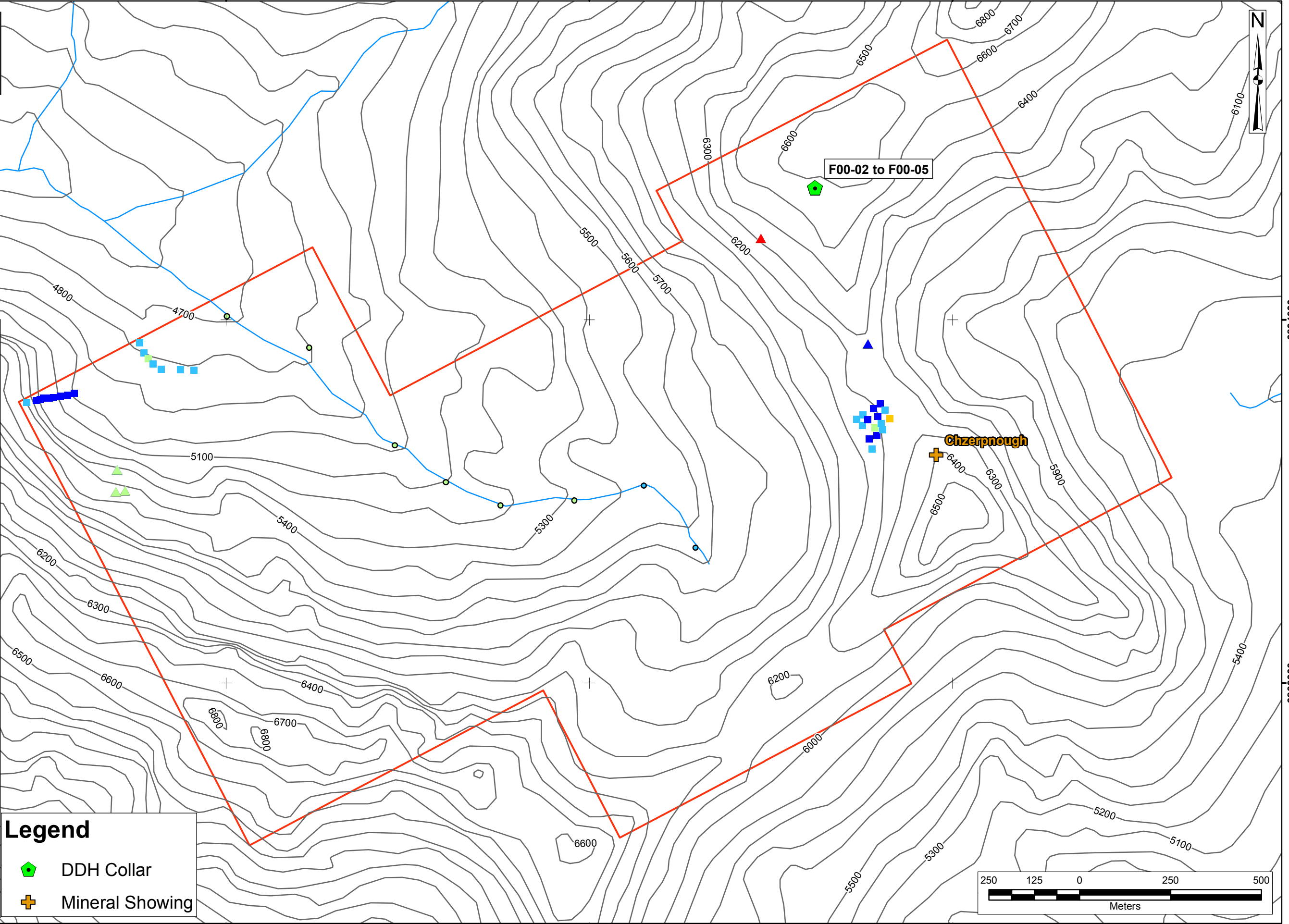
- 843.5 - -97.6
- 97.5 - 353.3
- 353.4 - 1538.3
- 1538.4 - 4789.5
- 4789.6 - 12447.6

Rocks - Zn
(ppm)

- 2.0 - 26.0
- 26.1 - 140.3
- 140.4 - 4433.0
- 4433.1 - 16035.0
- 16035.1 - 1000000.0

Legend

- DDH Collar
- Mineral Showing



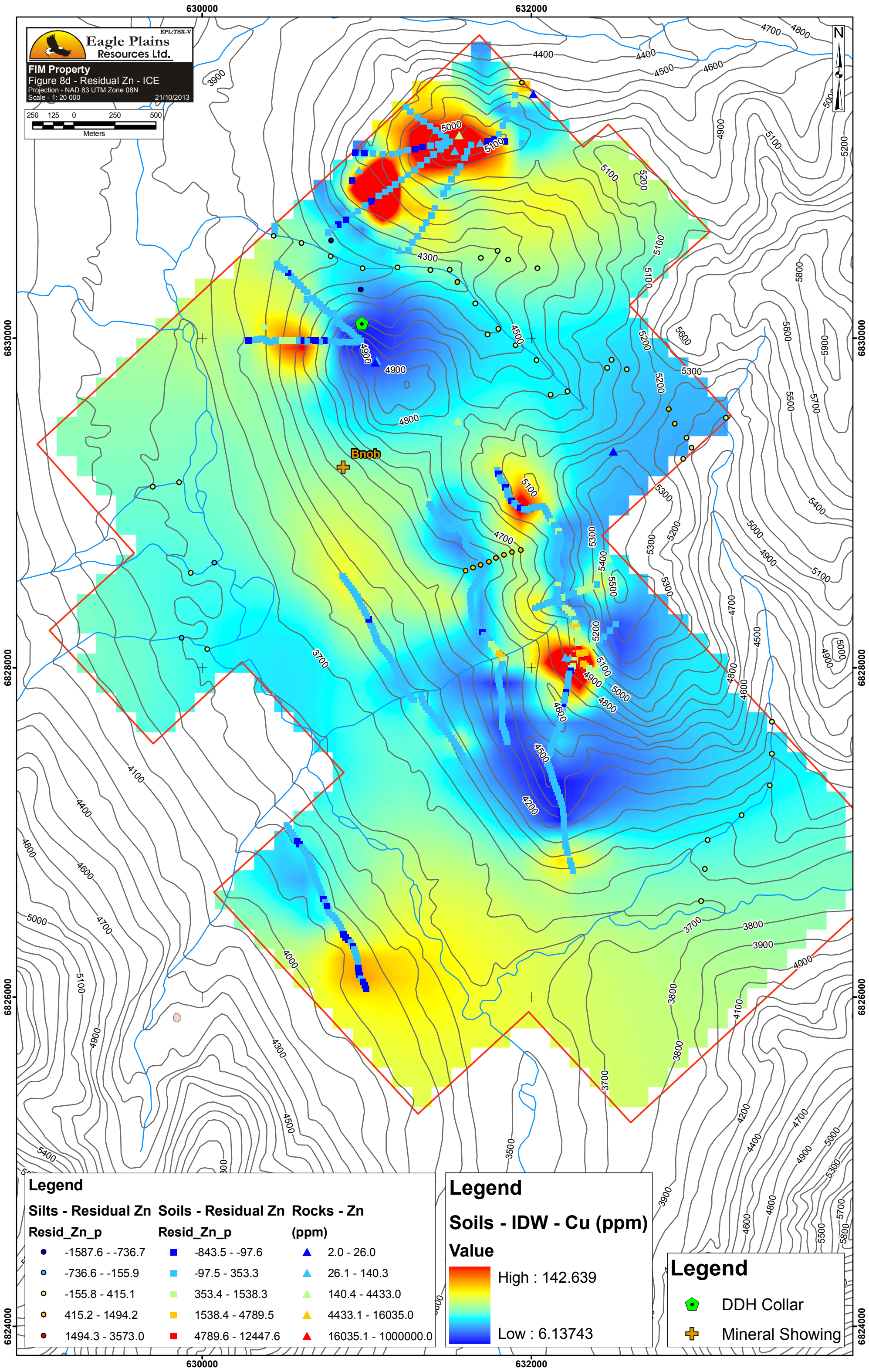


Eagle Plains
Resources Ltd.

FIM Property
Figure 8d - Residual Zn - ICE
Projection - NAD 83 UTM Zone 08N
Scale - 1: 20 000
21/10/2013

2501250250500

Meters

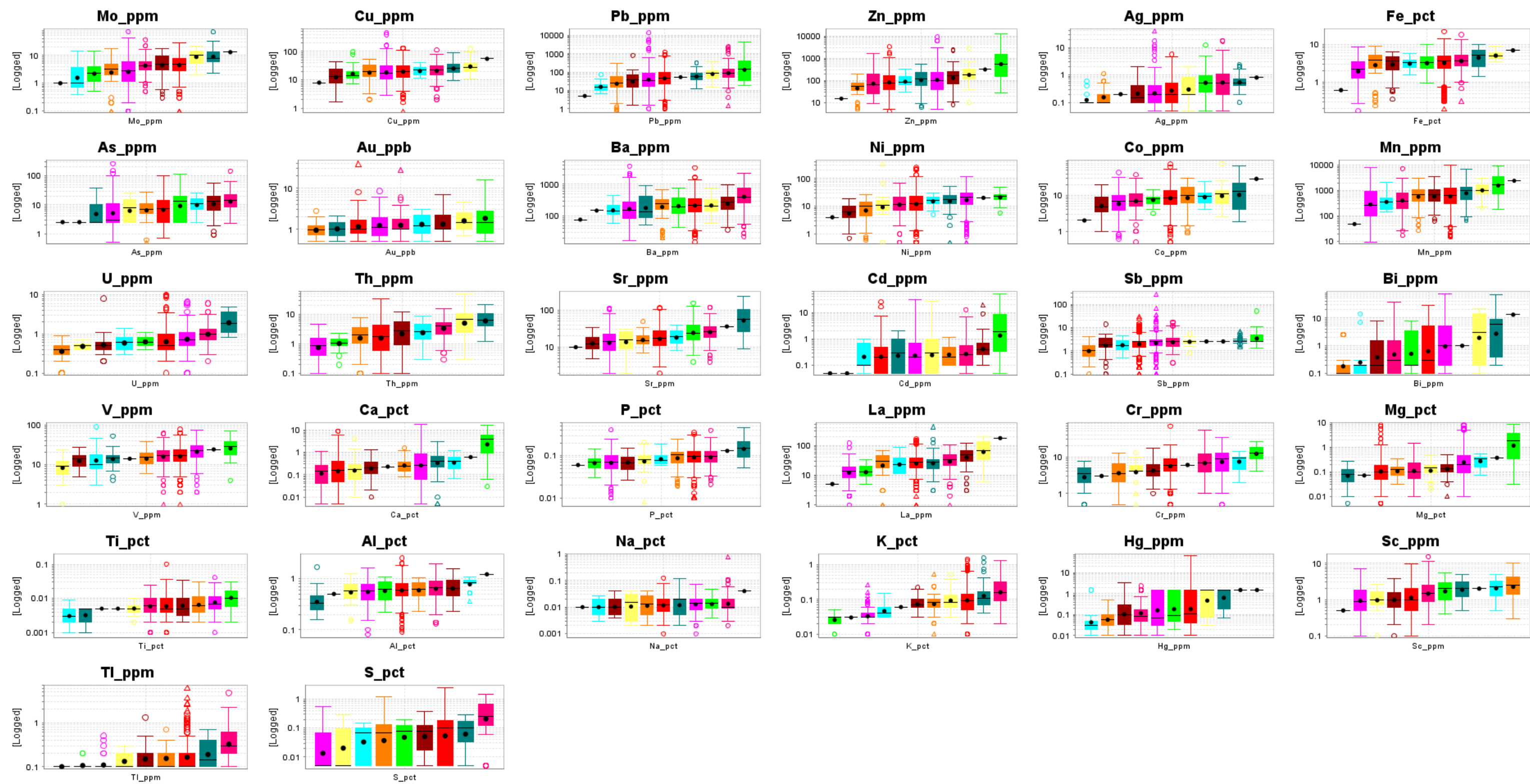


Samples were also coded with their underlying bedrock geology unit according to the geology map produced by Grieg in 2001. Coding of samples allows for statistical analysis of different geologic subpopulations to better define background/anomalous values of different elements of interest as well as identify possible unique geochemical signatures for particular lithologies to aid in mapping.

Figure 9 is a Tukey Box Plot of all elements for soils, which have been divided into geologic subpopulations, ordered from lowest to highest median. A first order visual analysis of Figure 9 suggests the following relationships between soil geochemistry and inferred underlying bedrock geology. Soils overlying the following map units are elevated in:

- Silty to Sandy Dolomite (Unit 11) is elevated in Pb, Zn, Au, Mn, Cd, V, Ca and Mg;
- Upper Argillaceous Sequence (Unit 5) is elevated in Mo, Cu, Ag, Fe, Co, U, Th, Sr, Bi, and P;
- Quartz Sericite Pyrite Tuff (Unit 8) is elevated in Mo, Cu, Pb, Zn, Fe, Au, Th and Bi;
- Potassic Rhyodacite (Unit 7) is elevated in As, Ba, K, Tl and S.

Figure 9 – Tukey Box Plot – Soils – Entire Population



CONCLUSIONS

The FIM property boasts an impressive stratigraphic package which has great potential to host VMS mineralization. This potential has been defined by diamond drilling, detailed mapping and numerous large geochemical surveys. Geochemical anomalies in rocks, soils and silts are consistent with distal to proximal VMS mineralization and are present along a stratigraphic horizon. Diamond drill testing intersected bedded exhalative type barite mineralization on both the FIRE and ICE properties approximately 7 kilometres apart. The barite is highly anomalous in silver, zinc, lead and copper and appears in part to be strataform. Conclusions from the 2013 data compilation project are as follows:

- Consolidation of multiple geochemical datasets has allowed for advanced statistical analysis of the historic Fire/Ice geochemical programs for the first time;
- Cu and Zn residual analysis of soil and silt data has identified several anomalies on the property that are interpreted as likely candidates to represent primary or mechanically transported anomalies; these residual anomalies are also spatially coincident with elevated Cu and Zn values in soils;
- Scandium data for soils also shows a strong positive correlation with elevated residual values for Cu – further improving confidence in such anomalies;
- Preliminary analysis of soil data subdivided into geologic domains suggest that there is highly variable background values/anomalous values and that soil geochemistry could be utilized to possibly differentiate underlying bedrock geology utilizing techniques such as principal component analysis.

RECOMMENDATIONS

The following recommendations for the Fire Ice Melt property include:

- Complete detailed soil grid and geologic mapping over anomalous residual Cu and Zn soil lines for DDH targeting purposes on the Ice claim block
- Continued geochemical analysis of complete data set, including principal component analysis of the soil geochemical data to identify multi-element anomalies
- Compilation of the 2000 diamond drill program downhole/geochemical data into a consolidated database for similar analysis and integration with surficial data;
- obtaining ASTER multispectral imagery and analyzing it for alteration minerals;
- use of a portable spectrometer, both in the field and on existing core, for analysis of sericite crystallinity and chemistry to distinguish high temperature alteration assemblages;
- geostatistical analysis of whole rock geochemistry;
- incorporation of alteration indices to measure intensity of sericite, chlorite, carbonate and pyrite replacement of feldspars (Large et al., 2001);

- possible reanalysis of existing pulps via INAA or fusion, possibly coupled with an airborne radiometric survey, to aid in the assessment of REE/Nb targets on the property.

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- Higgs, A. and Brown, J., 2010 Geological And Geochemical Assessment Report For The FIRE (Chzerpnough) and ICE (BNOB) Properties, Yukon Territory, Yukon Assessment Report 095323.
- Wheeler, J.O., 1960, Quiet Lake, Yukon Territory; *Geological Survey of Canada*, Map 7-1960.

Appendix I
Statement of Qualifications

I, Christopher S. Gallagher of 616 Nelson St., in the city of Nelson in the Province of British Columbia hereby certify that:

I am currently employed as Chief Geotechnician for TerraLogic Exploration Inc. with a business address: Suite 200, 44-12 Ave.S., Cranbrook, BC V1C 2R7.

I am a graduate of Carleton University with the degree of Master of Science in Geology (1999).

I am a graduate of Carleton University with the degree of Bachelor of Geology (1997).

I have practiced my profession in North America since 1999, having worked for various Junior Resource Companies and government surveys.

I have authored this report titled 2013 DATA COMPILATION AND GEOCHEMICAL ASSESSMENT REPORT FOR THE FIRE (Chzerpnough) and ICE (BNOB) Properties, based on data collected through research and on observations and results from physical work on the property. Data sources include reports from Yukon Assessment Reports, internal reports produced for Eagle Plains Resources Ltd., the Geologic Survey of Canada and direct contact with persons involved with past exploration programs on the Fire - Ice property.

I have authored and co-authored numerous other assessment reports on the Fire-Ice-Melt property from 2002 to 2007.

I hold an option to purchase 140,000 and 130,000 Common Shares of Eagle Plains Resources at a price of \$0.40 and \$0.25 per share respectively.

Dated this 4th day of November, 2013, in Cranbrook, British Columbia.

A handwritten signature in black ink, consisting of a stylized 'C' followed by a long horizontal line that curves slightly upwards at the end.

Christopher S. Gallagher, M. Sc.

Appendix II
Statement of Expenditures

2013 Fire-Ice Expenditures					
Exploration Work type	Comment	Days			Totals
Personnel (Name) / Position	Work Description	Days	Rate	Subtotal	
Chris Gallagher, M Sc., Project Geologist	Database consolidation and translation	1.73	725	\$ 1,254.25	
Leigh Block, Administrator	Soil, rock and silt geochem data entry	2.40	263	\$ 631.20	
Chris Gallagher, M Sc., Project Geologist	Sample location digitizing and data entry	1.47	725	\$ 1,065.75	
Chris Gallagher, M Sc., Project Geologist	Data QAQC	0.53	725	\$ 384.25	
Chris Gallagher, M Sc., Project Geologist	Geologic Coding of Samples	0.27	725	\$ 195.75	
Chris Gallagher, M Sc., Project Geologist	Geostatistics and Analysis	0.87	725	\$ 630.75	
Chris Gallagher, M Sc., Project Geologist	Report writing and figure production	2.07	725	\$ 1,500.75	
Aaron Higgs, B. Sc., Report Manager	Report Editing and Printing	1.00	625	\$ 625.00	
				\$6,287.70	\$6,287.70
<i>TOTAL Expenditures</i>					\$6,287.70

Appendix III
Geochemical Data

Appendix 3.1
Geochemical Data – Soils

Sample Number	Map Unit	Date	Easting	Northing	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Zr_ppm
BL1 0+25	13	1/1/2001	632373.7	6828495	5	16	84	1231	1	24	7	1033	3.23	2.5				58	0.2	7	5	16		0.05	9	12	5.72	132	0.01		0.32	0.02	0.03	2.5	1.5	2				2
BL1 0+50	13	1/1/2001	632353.8	6828486	6	50	1541	1108	8.9	24	8	1182	3.72	41				51	0.05	36	6	14		0.05	6	11	5.08	104	0.005		0.26	0.02	0.04	2.5	1.5	1				2
BL1 0+75	13	1/1/2001	632329.6	6828478	5	27	249	1701	1.7	29	7	804	2.9	2.5				69	1.8	7	5	12		0.06	10	12	2.13	105	0.005		0.31	0.02	0.03	2.5	1.5	1				1
BL1 00+00	11	1/1/2001	632400.2	6828505	6	36	167	4228	4.9	21	9	733		2.5				23	21.3	2.5	6	18	5.69	0.03	5	8	3.12	76	0.005		0.22	0.02	0.03	2.5	1.5	1				9
BL1 1+00	13	1/1/2001	632304.9	6828470	4	19	297	785	1.1	17	5	671	1.9	2.5				31	3.4	5	4	13	5.76	0.07	7	8	2.16	119	0.01		0.39	0.02	0.03	2.5	1.5	0.5				1
BL1 1+25	13	1/1/2001	632283.6	6828464	3	23	548	666	1.6	21	6	1073	1.77	2.5				25	1.8	5	3	17	5.5	0.11	8	11	2.85	104	0.005		0.5	0.02	0.06	2.5	1.5	1				2
BL1 1+50	11	1/1/2001	632256.4	6828456	3	11	37	150	0.1	11	6	1521	1.96	2.5				20	0.05	2.5	3	32	3.9	0.1	9	13	1.83	130	0.01		0.78	0.02	0.03	2.5	1.5	0.5				1
BL1 1+75	11	1/1/2001	632234.7	6828446	3	12	32	121	0.05	16	8	894	2.32	2.5				22	0.05	2.5	3	38	3.81	0.08	13	21	2.2	138	0.03		0.93	0.02	0.05	2.5	1.5	1				2
BL1 2+00	11	1/1/2001	632213.7	6828440	4	9	120	354	0.5	9	4	1400	1.66	2.5				36	0.6	2.5	4	25		0.09	9	10	6.13	139	0.01		0.35	0.02	0.02	2.5	1.5	0.5				1
BL1 2+25	11	1/1/2001	632186.8	6828428	4	8	1279	531	0.7	12	8	5401	3.02	2.5				16	2.4	2.5	4	52	4.64	0.11	13	13	2.52	234	0.01		0.56	0.01	0.02	2.5	1.5	1				1
BL1 2+50	13	1/1/2001	632164.6	6828422	4	7	83	169	0.3	17	7	1050	2.38	2.5				23	0.05	2.5	4	27	8.12	0.05	15	12	4.93	114	0.005		0.41	0.02	0.02	2.5	1.5	1				2
BL1 2+75	13	1/1/2001	632139.2	6828409	6	11	45	373	0.3	26	10	3959	4.32	2.5				22	0.05	2.5	6	36	4.71	0.08	12	13	2.45	1160	0.01		0.6	0.02	0.03	2.5	1.5	1				2
BL1 3+00	13	1/1/2001	632116.8	6828398	6	10	299	501	0.4	29	10	2546	4.5	2.5				23	0.05	2.5	6	47	5.15	0.07	21	18	2.91	770	0.01		0.66	0.02	0.02	2.5	1.5	2				2
BL1 3+25	13	1/1/2001	632095.5	6828392	9	27	18	158	0.3	35	5	69	3.83	2.5				8	0.05	2.5	9	52	0.06	0.13	41	21	0.67	148	0.005		1.37	0.01	0.04	2.5	1.5	0.5				2
BL1 3+50	13	1/1/2001	632072.1	6828382	4	22	16	40	0.1	16	4	125	2.02	2.5				3	0.05	2.5	4	31	0.03	0.08	18	9	0.12	105	0.005		0.73	0.01	0.03	2.5	1.5	0.5				0.5
BL1 3+75	13	1/1/2001	632049.1	6828374	6	47	15	42	0.05	40	7	67	2.22	2.5				2	0.05	2.5	6	15	0.03	0.07	27	4	0.02	67	0.005		0.33	0.01	0.04	2.5	1.5	0.5				1
BL1 4+00	13	1/1/2001	632023.4	6828363	9	34	32	95	0.2	27	5	106	2.54	2.5				11	0.05	2.5	9	29	0.02	0.12	22	7	0.03	121	0.005		0.31	0.01	0.06	2.5	1.5	0.5				0.5
BL2 0+50	11	1/1/2001	632477.3	6828227	4	8	23	27	0.4	18	6	185	1.58	2.5				153	0.05	2.5	4	11		0.06	9	11	0.56	42	0.01		0.31	0.02	0.02	2.5	1.5	2				2
BL2 00+00	11	1/1/2001	632511.9	6828265	5	10	21	52	0.3	17	5	301	1.39	2.5				123	0.05	2.5	5	12		0.05	9	12	0.33	99	0.01		0.4	0.02	0.03	2.5	1.5	1				1
BL2 1+00	11	1/1/2001	632441.7	6828189	4	14	29	107	1.5	26	8	342	2.12	2.5				111	0.05	2.5	4	20		0.08	16	17	0.95	65	0.03		0.54	0.02	0.04	2.5	1.5	2				2
BL2 1+50	11	1/1/2001	632416.6	6828165	4	10	37	145	0.5	24	8	504	2.26	2.5				40	0.05	2.5	4	16	5.23	0.06	8	13	1.03	537	0.01		0.3	0.02	0.01	2.5	1.5	2				1
BL2 10+00	13	1/1/2001	632120.4	6827529	0.5	13	7	22	0.2	6	2	28	0.45	2.5				18	0.05	2.5	1	9	0.45	0.05	3	3	0.09	184	0.01		0.38	0.03	0.03	2.5	1.5	0.5				1
BL2 10+25	13	1/1/2001	632118.3	6827510	1	12	8	17	0.1	10	2	31	0.58	2.5				23	0.05	2.5	1	11	0.74	0.07	4	3	0.11	279	0.01		0.48	0.03	0.03	2.5	1.5	0.5				2
BL2 10+50	13	1/1/2001	632115.2	6827487	4	23	73	74	0.05	32	6	168	1.48	2.5				14	0.05	2.5	4	23	0.29	0.13	32	11	0.4	286	0.005		0.76	0.02	0.04	2.5	1.5	1				0.5
BL2 10+75	13	1/1/2001	632109.4	6827470	4	22	16	25	0.05	16	4	71	1.27	2.5				19	0.05	2.5	4	24	0.01	0.06	19	8	0.24	55	0.005		0.63	0.03	0.04	2.5	1.5	0.5				0.5
BL2 11+00	10	1/1/2001	632092.3	6827449	0.5	3	2	8	0.05	0.5	1	16	0.36	2.5				6	0.05	2.5	1	11	0.03	0.01	1	1	0.03	15	0.02		0.34	0.03	0.01	2.5	1.5	0.5				1
BL2 11+25	10	1/1/2001	632099.2	6827421	2	6	14	34	0.05	6	2	183	1.08	2.5				5	0.05	2.5	2	23	0.07	0.03	11	4	0.1	88	0.01		0.57	0.02	0.02	2.5	1.5	0.5				0.5
BL2 11+50	10	1/1/2001	632107.5	6827399	1	4	5	9	0.05	0.5	1	15	0.32	2.5				4	0.05	2.5	1	11	0.02	0.01	7	2	0.03	32	0.01		0.37	0.02	0.02	2.5	1.5	0.5				0.5
BL2 11+75	10	1/1/2001	632117.5	6827382	3	5	21	41	0.05	17	2	80	1.08	2.5				6	0.05	2.5	3	39	0.05	0.04	10	15	0.92	73	0.005		1.19	0.02	0.03	2.5	1.5	0.5				1
BL2 12+00	10	1/1/2001	632123.1	6827356	2	7	17	43	0.2	9	4	429	1.27	2.5				4	0.05	2.5	2	24	0.04	0.05	15	5	0.14	88	0.01		0.56	0.02	0.03	2.5	1.5	0.5				0.5
BL2 12+25	10	1/1/2001	632129	6827330	1	4	5	17	0.05	1	2	42	0.58	2.5				5	0.05	2.5	1	17	0.03	0.01	8	3	0.04	213	0.02		0.41	0.03	0.02	2.5	1.5	0.5				0.5
BL2 12+50	10	1/1/2001	632137	6827308	2	5	5	20	0.05	4	2	40	0.78	2.5				5	0.05	2.5	2	18	0.04	0.02	10	3	0.08	46	0.01		0.51	0.03	0.03	2.5	1.5	0.5				0.5
BL2 12+75	10	1/1/2001	632144.5	6827288	3	5	3	24	0.05	5	4	205	0.92	2.5				6	0.05	2.5	3	23	0.04	0.02	10	4	0.07	79	0.02		0.43	0.03	0.03	2.5	1.5	0.5				0.5
BL2 13+00	10	1/1/2001	632152.1	6827266	2	6	12	23	0.05	3	2	83	0.95	2.5				4	0.05	2.5	2	31	0.03	0.02	10	4	0.06	58	0.03		0.62	0.02	0.03	2.5	1.5	0.5				1
BL2 13+25	10	1/1/2001	632161.1	6827245	0.5	4	2	11	0.05	0.5	1	32	0.35	2.5				10	0.05	2.5	1	9	0.09	0.02	1	1	0.04	28	0.02		0.26	0.03	0.01	2.5	1.5	0.5				0.5
BL2 13+50	10	1/1/2001	632171.1	6827216	1	7	1	12	0.05	1	2	57	0.52	2.5				10	0.05	2.5	1	15	0.08	0.02	3	1	0.04	33	0.02		0.38	0.03	0.02	2.5	1.5	0.5				0.5
BL2 13+75	10	1/1/2001	632179.2	6827190	1	11	1	22	0.05	3	4	664	0.85	2.5				15	0.05	2.5	1	15	0.31	0.04	6	2	0.08	56	0.02		0.63	0.03	0.03	2.5	1.5	0.5				0.5
BL2 14+00	10	1/1/2001	632186	6827169	2	8	1	15	0.05	8	1	33	0.45	2.5				6	0.05	2.5	2	14	0.12	0.02	9	5	0.19	49	0.01		0.37	0.02	0.03	2.5	1.5	0.5				0.5
BL2 14+25	10	1/1/2001	632190.9	6827141	1	5	4	9	0.05	4	2	17	0.39	2.5				8	0.05	2.5	1	12	0.05	0.03	7	3	0.11	44												

Sample Number	Map Unit	Date	Easting	Northing	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Zr_ppm	
BL3 2+50	13	1/1/2001	631325.7	6831054	3	49	51	208	0.5	40	14	208	2.12	2.5				15	0.05	2.5	3	20	0.07	0.08	26	11	0.16	177	0.005		0.48	0.01	0.04	2.5	1.5	1					1
BL3 3+00	13	1/1/2001	631290.2	6831023	4	44	36	97	0.3	38	12	170	1.81	2.5				16	0.05	2.5	4	13	0.14	0.09	34	5	0.09	121	0.005		0.33	0.01	0.05	2.5	1.5	0.5					0.5
BL3 3+50	13	1/1/2001	631249.2	6830994	1	15	9	35	0.5	9	4	47	0.85	2.5				7	0.05	2.5	1	16	0.05	0.04	9	3	0.04	64	0.01		0.26	0.03	0.03	2.5	1.5	0.5					0.5
BL3 4+00	13	1/1/2001	631211.6	6830966	3	23	19	105	0.8	21	6	88	1.41	2.5				14	0.05	2.5	3	22	0.23	0.06	11	8	0.16	166	0.01		0.55	0.03	0.04	2.5	1.5	0.5					0.5
BL3 4+50	13	1/1/2001	631173.8	6830936	1	18	6	31	0.6	8	2	26	0.58	2.5				10	0.05	2.5	1	13	0.18	0.03	4	2	0.05	110	0.01		0.25	0.04	0.04	2.5	1.5	0.5					1
BL3 5+00	13	1/1/2001	631143.7	6830911	10	390	171	301	0.3	104	25	155	4.42	2.5				15	0.05	2.5	10	18	0.08	0.14	23	4	0.03	102	0.005		0.4	0.02	0.05	2.5	1.5	0.5					1
BL3 5+50	13	1/1/2001	631112.1	6830892	6	50	18	220	0.3	43	16	268	3.75	2.5				26	0.05	2.5	6	37	0.42	0.19	32	10	0.6	162	0.005		1.25	0.01	0.04	2.5	1.5	2					1
BL3 6+00	13	1/1/2001	631073.7	6830867	4	51	27	207	0.5	44	8	120	2.12	2.5				32	0.05	2.5	4	17	0.23	0.1	31	8	0.28	121	0.005		0.56	0.01	0.05	2.5	1.5	1					2
BL3 6+50	13	1/1/2001	631029.1	6830832	8	44	53	108	0.4	20	9	194	5.46	2.5				39	0.05	2.5	8	16	0.19	0.09	33	10	0.16	270	0.005		0.66	0.04	0.1	2.5	1.5	1					2
BL3 7+00	13	1/1/2001	630990.9	6830809	5	29	36	148	0.3	24	6	175	2.39	2.5				21	0.05	2.5	5	17	0.4	0.1	20	6	0.19	209	0.005		0.57	0.02	0.05	2.5	1.5	1					2
BL3 7+50	7	1/1/2001	630945.7	6830774	4	20	71	63	0.2	11	7	179	2.15	2.5				18	0.05	2.5	4	18	0.25	0.06	9	6	0.15	401	0.01		0.56	0.04	0.04	2.5	1.5	1					1
BL3 8+00	7	1/1/2001	630913.4	6830751	22	17	32	19	0.2	0.5	4	27		2.5				81	0.05	2.5	22	18	0.03	0.18	12	8	0.04	22	0.005		0.42	0.81	0.14	2.5	1.5	0.5					2
BL3 8+50	7	1/1/2001	630873.5	6830722	10	22	72	70	0.05	18	12	155	5.32	2.5				40	0.05	2.5	10	30	0.02	0.07	17	13	0.29	253	0.005		1.49	0.11	0.09	2.5	1.5	1					1
BL3 9+00	7	1/1/2001	630828	6830693	7	22	86	80	0.2	17	10	205	4.97	2.5				30	0.05	2.5	7	25	0.03	0.05	18	13	0.37	208	0.005		1.18	0.11	0.09	2.5	1.5	1					1
BL3 9+50	7	1/1/2001	630798.4	6830672	2	9	37	45	0.3	8	6	80	1.44	2.5				17	0.05	2.5	2	17	0.19	0.04	7	5	0.1	518	0.01		0.57	0.05	0.04	2.5	1.5	0.5					0.5
BL4 5+50	13	1/1/2001	631237.5	6831407	2	17	12	74	0.6	8	3	42	1.1	2.5				8	0.05	2.5	2	16	0.03	0.05	13	3	0.05	36	0.005		0.41	0.03	0.04	2.5	1.5	0.5					0.5
BL4 6+00	13	1/1/2001	631267.8	6831378	3	22	21	103	0.9	13	5	158	1.2	2.5				9	0.05	2.5	3	13	0.04	0.05	7	3	0.04	28	0.01		0.27	0.02	0.03	2.5	1.5	0.5					0.5
BL4 6+50	13	1/1/2001	631313.1	6831344	4	34	52	106	0.4	29	11	565	2.56	2.5				14	0.05	2.5	4	21	0.07	0.08	12	9	0.16	83	0.01		0.82	0.03	0.05	2.5	1.5	0.5					1
BL4 7+00	13	1/1/2001	631346.9	6831318	7	69	47	214	0.6	77	24	350	4.46	2.5				39	0.05	2.5	7	31	0.11	0.13	25	17	0.49	53	0.005		1.13	0.02	0.05	2.5	1.5	1					3
BL4 7+50	13	1/1/2001	631386.3	6831289	3	39	19	94	0.2	30	30	626	3.38	2.5				15	0.05	2.5	3	29	0.42	0.19	28	9	0.47	81	0.01		1.04	0.03	0.03	2.5	1.5	2					1
BL4 8+00	13	1/1/2001	631421.1	6831265	4	32	27	144	0.2	25	7	135	2.24	2.5				10	0.05	2.5	4	30	0.06	0.08	21	12	0.34	39	0.01		0.85	0.02	0.04	2.5	1.5	0.5					1
BL4 8+50	13	1/1/2001	631451.9	6831241	5	34	30	147	0.4	27	6	91	2.21	2.5				12	0.05	2.5	5	34	0.05	0.11	23	12	0.32	53	0.01		0.9	0.02	0.05	2.5	1.5	0.5					1
BL4 9+00	13	1/1/2001	631482	6831224	6	71	45	296	0.8	46	13	203	3.05	2.5				21	0.05	2.5	6	38	0.07	0.14	22	15	0.39	66	0.01		1.14	0.02	0.08	2.5	1.5	0.5					1
BL5 0+00	13	1/1/2001	631634.7	6831178	5	60	26	392	0.6	57	15	206	3.03	2.5				15	0.05	2.5	5	27	0.18	0.13	30	11	0.35	48	0.005		0.81	0.01	0.05	2.5	1.5	1					1
BL5 0+50	13	1/1/2001	631611	6831137	7	97	33	168	0.4	80	23	308	4.04	2.5				31	0.05	2.5	7	30	0.22	0.15	31	16	0.51	51	0.005		0.97	0.02	0.05	2.5	1.5	1					1
BL5 1+00	13	1/1/2001	631594.3	6831096	4	29	32	119	0.5	20	10	527	1.88	2.5				26	0.05	2.5	4	21	0.16	0.2	14	8	0.05	261	0.005		0.61	0.02	0.06	2.5	1.5	0.5					0.5
BL5 1+50	13	1/1/2001	631568.6	6831045	5	41	28	198	0.4	34	11	448	2.47	2.5				20	0.2	2.5	5	27	0.2	0.15	10	10	0.08	290	0.005		0.59	0.01	0.06	2.5	1.5	0.5					0.5
BL5 2+00	13	1/1/2001	631544.5	6831011	3	30	22	144	0.2	18	9	498	2.22	2.5				11	0.05	2.5	3	33	0.08	0.13	9	14	0.05	149	0.005		0.58	0.01	0.04	2.5	1.5	0.5					0.5
BL5 2+50	13	1/1/2001	631514.2	6830968	3	26	12	133	0.2	20	13	1151	1.97	2.5				29	0.5	2.5	3	47	0.45	0.12	8	33	0.22	494	0.01		0.87	0.02	0.09	2.5	1.5	0.5					0.5
BL5 3+00	13	1/1/2001	631493	6830921	2	17	10	56	0.3	10	5	210	1.37	2.5				8	0.05	2.5	2	32	0.07	0.08	7	16	0.09	121	0.005		0.59	0.02	0.04	2.5	1.5	0.5					0.5
BL5 3+50	13	1/1/2001	631469.2	6830879	2	15	25	74	0.05	11	5	258	1.59	2.5				5	0.05	2.5	2	31	0.02	0.08	11	14	0.12	81	0.005		0.47	0.02	0.05	2.5	1.5	0.5					0.5
BL5 4+00	13	1/1/2001	631442.9	6830836	5	26	540	632	0.5	30	8	87	2.5	2.5				22	0.05	2.5	5	12	0.08	0.1	14	4	0.04	94	0.005		0.28	0.02	0.04	2.5	1.5	0.5					0.5
BL5 4+50	13	1/1/2001	631416.4	6830793	4	40	26	63	0.05	32	10	289	2.6	2.5				7	0.05	2.5	4	21	0.03	0.1	12	10	0.21	237	0.005		0.63	0.02	0.03	2.5	1.5	0.5					1
BL5 5+00	13	1/1/2001	631391.6	6830750	6	41	272	272	0.2	46	21	335	4.3	2.5				25	0.05	2.5	6	26	0.09	0.1	14	13	0.39	267	0.005		0.83	0.02	0.03	2.5	1.5	1					1
BL5 5+50	13	1/1/2001	631362.3	6830705	2	25	4	39	0.1	11	4	47	1.13	2.5				5	0.05	2.5	2	19	0.03	0.05	14	3	0.02	87	0.005		0.3	0.02	0.03	2.5	1.5	0.5					0.5
BL5 6+00	13	1/1/2001	631337.5	6830667	1	9	4	31	0.5	5	3	71	0.82	2.5				6	0.05	2.5	1	13	0.05	0.05	4	3	0.12	124	0.005		0.5	0.03	0.02	2.5	1.5	0.5					0.5
BL5 6+50	13	1/1/2001	631307.9	6830623	6	54	27	81	0.05	43	11	102	3.05	2.5				9	0.05	2.5	6	20	0.11	0.07	18	6	0.19	256	0.005		0.68	0.02	0.03	2.5	1.5	1					1
BL5 7+00	10	1/1/2001	631277.7	6830583	6	29	201	99	0.1	21	11	174	2.78	2.5				32	0.05	2.5	6	18	0.61	0.11	14	6	0.41	218	0.005		0.81	0.01	0.04	2.5	1.5	1					

Sample Number	Map Unit	Date	Easting	Northing	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Zr_ppm	
F10 1+25N	10	1/1/2002	631556.3	6827510	4.8	27.8	41.1	114	0.2	29.5	6.5	210	2.38	15.3	0.8	2	6.1	21	0.6	2.7	0.6	24	0.52	0.107	26	12.8	0.5	473	0.005	1	0.8	0.009	0.05	0.3	0.03	1.9		0.07	3		
F10 1+50N	10	1/1/2002	631544.2	6827531																																					
F10 1+75N	10	1/1/2002	631530.9	6827552	2.6	30.7	43.7	92	0.1	24.2	10.2	235	1.74	7.4	4.2	1.3	3.4	31	0.4	2.1	0.4	21	1.05	0.095	15	11.2	0.55	593	0.003	1	0.87	0.008	0.06	1.1	0.04	1.7		0.12	3		
F10 2+00N	10	1/1/2002	631516.7	6827573	2.1	26.4	17.6	114	0.2	19.1	5.8	219	0.82	5.4	3.5	1.4	2	47	1.8	2.7	0.2	13	1.72	0.113	9	7.5	0.5	524	0.003	4	0.51	0.007	0.05	0.4	0.06	1		0.25	1		
F10 2+25N	10	1/1/2002	631501.4	6827592	1	19.8	9.4	90	0.1	12.7	3	74	0.61	2.6	0.7	0.5	1.1	50	1.9	2.4	0.2	9	1.73	0.084	4	5.7	0.39	524	0.004	4	0.46	0.013	0.03	0.4	0.05	0.6		0.17	1		
F10 2+50N	10	1/1/2002	631485.6	6827612	2.8	20.3	32.6	140	0.1	22.6	5.9	202	1.21	6.9	1.5	4.2	3.2	30	1.3	2.8	0.3	19	1	0.107	12	11.2	0.58	579	0.002	1	0.72	0.006	0.06	0.7	0.03	1.2		0.07	2		
F10 2+75N	10	1/1/2002	631469.8	6827631	1.4	11.6	15.3	58	0.1	13.9	5.2	257	0.83	3.2	1.9	0.7	1.5	23	0.3	1.2	0.2	17	0.68	0.068	8	8	0.36	457	0.005	1	0.65	0.016	0.04	0.2	0.03	1.3		0.1	2		
F10 3+00N	10	1/1/2002	631454.5	6827651																																					
F10 3+25N	10	1/1/2002	631439.2	6827670	3	16.4	22.6	114	0.1	20.9	3.8	85	1.44	7.7	2.3	0.9	3.3	18	0.6	1.9	0.4	26	0.55	0.059	15	12.7	0.61	472	0.003	1	0.84	0.005	0.07	0.4	0.04	1.4		0.1	3		
F10 3+50N	10	1/1/2002	631423.6	6827690	2.3	11.4	25.1	80	0.1	18.2	4.4	162	1.35	6.4	1.3		4.1	10	0.1	1.4	0.4	25	0.21	0.07	19	13.4	0.56	203	0.005	1	0.93	0.009	0.05	0.4	0.02	1.2		0.005	3		
F10 3+75N	10	1/1/2002	631407.3	6827708	2.7	16.6	24.1	80	0.1	21.3	4.6	96	1.56	7.3	1.9	1.1	3.4	14	0.1	1.4	0.4	29	0.25	0.07	16	14.4	0.52	333	0.003	1	1	0.012	0.07	0.4	0.02	1.6	0.1	0.005	3		
F10 4+00N	10	1/1/2002	631391.1	6827727	2.1	20.4	21.9	50	0.3	20	4.1	122	1.31	6.4	1.5	1	2.8	32	0.1	1.9	0.4	23	0.77	0.088	14	11.5	0.47	851	0.004	1	0.98	0.01	0.06	0.4	0.05	1.4	0.1	0.1	3		
F10 4+25N	10	1/1/2002	631375.3	6827747	3	22	29.2	137	0.1	24.2	6.6	209	1.71	9.3	4.1	0.9	4.1	23	1.2	3.3	0.4	24	0.9	0.096	17	11.2	0.5	453	0.005	1	0.83	0.009	0.08	0.8	0.03	1.6		0.09	3		
F10 4+50N	10	1/1/2002	631359.6	6827766	8.2	28.2	40.4	114	0.2	28.4	7	139	2.38	16.2	4.6	1.7	4.3	24	0.3	6	0.7	30	0.6	0.074	15	14.4	0.57	437	0.003	1	1.09	0.005	0.07	1.2	0.03	1.7	0.1	0.11	4		
F10 4+75N	10	1/1/2002	631345.2	6827786	4.7	27.2	60.2	414	0.2	26.8	7.3	179	2.1	14.1	3.4	1.2	4.2	22	0.9	3.5	0.6	23	0.81	0.108	16	12.4	0.51	460	0.004	1	0.81	0.006	0.05	0.7	0.04	1.6		0.005	3		
F10 5+00N	10	1/1/2002	631338	6827810	3.4	26.6	65.8	431	0.2	30.1	8.3	248	2.25	12.6	2.2	1.3	3.7	17	1.4	2.5	0.5	21	0.64	0.085	20	12.4	0.5	319	0.004	1	0.86	0.005	0.05	0.4	0.03	1.5	0.1	0.07	3		
F10 5+25N	10	1/1/2002	631329.7	6827833	2.9	16.6	52.1	226	0.1	24.1	8.3	183	2.12	10.5	1.6	0.7	3.7	14	0.5	1.8	0.5	24	0.44	0.082	20	12.4	0.48	474	0.004	1	0.77	0.005	0.04	0.5	0.02	1.7		0.005	2		
F18 10+00S	13	1/1/2002	631669.9	6828255	2.1	6.8	5.8	10	0.1	13.8	2.5	18	0.85	4.9	0.3		1.1	2	0.5	0.4	0.4	29	0.005	0.023	25	7.4	0.42	51	0.005	2	0.71	0.003	0.02	0.1		0.5		0.005	3		
F18 10+25S	13	1/1/2002	631685.4	6828237	2.8	7.6	9.4	18	0.1	19.7	3.5	55	1.53	6.6	0.4	0.5	3	3	0.1	0.7	0.4	45	0.02	0.039	23	11.7	0.66	48	0.007	1	0.94	0.004	0.03	0.2	0.01	0.6		0.005	4		
F18 10+50S	13	1/1/2002	631701.7	6828219	8.1	13.4	28.6	36	0.1	27.3	5.8	77	2.69	12.6	0.6	0.6	3.5	4	0.5	1.7	0.7	60	0.02	0.068	25	18.5	0.83	71	0.006	2	1.35	0.003	0.04	0.6	0.01	1		0.005	5		
F18 10+75S	13	1/1/2002	631717.9	6828201	1.2	5	5	10	0.1	7.2	1.4	18	0.52	3.1	0.2	0.9	0.3	3	0.5	0.2	0.2	21	0.005	0.052	17	5.3	0.22	42	0.004	1	0.63	0.006	0.03	0.2	0.01	0.3		0.005	4		
F18 11+00S	13	1/1/2002	631733.9	6828183	3.9	12.1	17.2	29	0.1	15.3	3.7	82	1.61	8.9	0.5		0.8	3	0.1	0.9	0.4	45	0.02	0.049	26	12.4	0.37	62	0.006	4	1	0.005	0.03	0.4	0.01	0.6		0.005	5		
F18 11+25S	13	1/1/2002	631747.9	6828163	3.2	23.7	19.3	26	0.1	20.1	4.6	30	1.73	7.6	1		0.8	4	0.1	1.2	0.6	31	0.01	0.085	18	9.2	0.35	50	0.005	1	0.74	0.004	0.03	0.3	0.02	0.5		0.005	3		
F18 11+50S	13	1/1/2002	631760	6828142	0.7	8.2	14.8	462	0.2	7	1.8	58	0.66	2.6	0.8	0.6	0.4	15	2.1	0.4	0.1	11	0.68	0.044	6	3	0.19	77	0.012	5	0.44	0.073	0.04	0.1	0.01	1.3		0.005	2		
F18 11+75S	13	1/1/2002	631773	6828122	4.4	12.9	58.6	565	0.4	22	6.4	218	1.67	12.2	0.8	0.9	1.9	8	1.6	2	0.5	26	0.33	0.063	24	9.6	0.35	173	0.004	3	0.71	0.006	0.04	0.3	0.04	1.3	0.1	0.005	2		
F18 12+00S	13	1/1/2002	631788.6	6828104	3.3	32.4	424	1339	1.9	32.1	6.9	408	2.08	13	2.9	1.7	1.2	22	8.5	3.8	0.3	23	1.38	0.116	14	11.4	0.53	494	0.007	4	0.72	0.012	0.06	0.4	0.09	1.7		0.08	2		
F18 12+25S	13	1/1/2002	631805	6828086	1.1	21.3	46.3	2302	0.4	14.2	2.6	214	0.9	5.1	1.3	0.6	0.4	17	15.3	1.2	0.1	11	1.29	0.048	5	3.4	0.2	362	0.01	1	0.52	0.03	0.03	0.2	0.04	0.8	0.1	0.06	1		
F18 12+50S	13	1/1/2002	631820.5	6828068	1.9	59.5	610.3	2866	3.4	28.4	4.3	233	1.32	16.8	3	3.8	0.7	21	15.7	4.3	0.2	16	1.5	0.072	8	5.8	0.34	205	0.009	4	0.71	0.023	0.05	0.3	0.09	0.9	0.1	0.11	2		
F18 12+75S	13	1/1/2002	631827.9	6828046	2.7	18.8	105	1596	0.5	37.3	7	454	2.32	11.2	1	2.4	1.9	26	3.1	2.6	0.2	19	1.74	0.104	14	9.6	0.74	334	0.008	6	0.75	0.013	0.07	0.2	0.06	1.6	0.1	0.13	2		
F18 13+00S	13	1/1/2002	631824	6828023																																					
F18 13+25S	13	1/1/2002	631817.3	6828000	1.7	12.9	14.1	44	0.1	10.2	2.4	68	1.32	6.5	0.3		0.2	5	0.1	0.8	0.2	25	0.02	0.061	17	5.8	0.15	34	0.006	1	0.52	0.016	0.03	0.1	0.01	0.5		0.005	3		
F18 13+50S	13	1/1/2002	631810.4	6827977	2	13.6	6.6	17	0.1	9.4	2.6	31	1	6.5	0.3		0.3	4	0.5	0.6	0.2	22	0.005	0.031	27	5	0.09	30	0.008	1	0.39	0.008	0.03	0.3	0.01	0.4		0.005	3		
F18 13+75S	13	1/1/2002	631802.5	6827954	0.3	5.2	2	9	0.1	1.6	1.2	28	0.57	0.7	0.1		0.4	6	0.5	0.1	2.5	16	0.03	0.012	3	2.5	0.05	20	0.029	1	0.38	0.041	0.03	0.1	0.01	0.6		0.005	2		
F18 14+00S	13	1/1/2002	631802.6	6827930	0.2	4.6	3.6	7	0.1	2.7	0.6	9	0.33	1.5	0.2	0.5	0.3	5	0.5	0.1	2.5	10	0.01	0.055	13	4.3	0.08	39	0.004	1	0.38	0.016	0.03		0.01	0.2		0.005	2		
F18 14+25S	13	1/1/2002	631805.1	6827906	0.2	2.8	2.8	13	0.1	1.6	0.8	15	0.31	2.5	0.1		6	0.2	0.1	2.5	9	0.02	0.022	3	1.5	0.03	33	0.009	1	0.2	0.025	0.02			0.3		0.005	1			
F18 14+50S	13	1/1/2002	631809.2	6827882	1.6	5.4	14.3	53	0.1	15.2	2.3	112	1.02	4.9	0.3	1.7	0.5	4	0.2	0.7	0.2	22	0.05	0.046	20	8.9	0.38	62	0.004	2	0.56	0.006	0.04	0.1	0.02	0.4		0.005	2		

Sample Number	Map Unit	Date	Easting	Northing	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Zr_ppm
FIL20 7+25S		1/1/2002	630671.5	6826767	1.3	12.2	16.2	50	0.1	10.9	4.3	369	1.69	10.9	0.5	0.6	2.8	16	0.1	0.6	0.2	16	0.3	0.053	16	10.1	0.29	115	0.019	1	0.77	0.022	0.07	0.2	0.02	1.2	0.1	0.005	3	
FIL20 7+50S		1/1/2002	630678.8	6826745	1.2	16.1	14.6	57	0.1	14.6	4.6	175	1.8	11.3	1	0.5	2.3	22	0.1	0.7	0.2	15	0.44	0.053	18	10.8	0.33	160	0.016	1	0.9	0.018	0.08	0.2	0.02	1.3	0.1	0.005	3	
FIL20 7+75S		1/1/2002	630687.2	6826724	2.4	29.4	32.2	101	0.1	27.5	11.1	598	3.61	22.5	1	4.8	10.4	16	0.2	1.4	0.4	29	0.37	0.079	44	24.4	0.72	185	0.042	5	1.35	0.01	0.16	0.3	0.02	3.8	0.1	0.005	5	
FIL20 8+00S		1/1/2002	630697	6826703	2	14.7	22	107	0.1	19.7	6.3	271	2.97	17.8	1.1	1.7	6	16	0.3	0.9	0.3	25	0.41	0.071	29	18.2	0.6	210	0.024	1	1.28	0.007	0.14	0.4	0.02	2.1	0.1	0.005	4	
FIL20 8+25S		1/1/2002	630706.4	6826682	2.9	20.8	30.8	97	0.1	19.4	7.3	362	3.13	24.3	1.2	0.8	5.4	22	0.3	1	0.3	26	0.48	0.078	30	16.7	0.57	188	0.021	2	1.31	0.013	0.14	0.5	0.03	2.2	0.1	0.005	4	
FIL20 8+50S		1/1/2002	630715.6	6826661	3.1	18.4	27.8	88	0.1	19.2	7.9	401	3.2	21.8	1	1.8	5.9	19	0.2	1	0.3	26	0.47	0.069	30	19.6	0.64	174	0.021	1	1.22	0.007	0.13	0.5	0.03	2.2	0.1	0.005	5	
FIL20 8+75S		1/1/2002	630723.6	6826640	4.4	19.2	26.6	87	0.1	17.8	8.3	456	3.29	23.4	1.4		4.3	24	0.2	1.2	0.3	23	0.57	0.045	23	16.4	0.56	168	0.02	1	1.08	0.008	0.13	0.5	0.02	2.1	0.1	0.005	4	
FIL20 9+00S		1/1/2002	630730.8	6826618	3.5	18	22.4	90	0.1	18.2	7.7	440	3.03	17.8	2	1.9	4	27	0.2	0.8	0.3	23	0.67	0.06	22	16.4	0.59	214	0.022	1	1.23	0.014	0.16	0.4	0.03	2.2	0.1	0.005	4	
FIL20 9+25S		1/1/2002	630738.6	6826596	4.1	14.3	25.8	77	0.1	16.4	9.1	505	3.32	20.4	1	1.4	4.8	18	0.2	1	0.3	24	0.41	0.046	23	16.3	0.56	158	0.024	2	1.09	0.011	0.15	0.4	0.02	2.2	0.1	0.005	4	
FIL20 9+50S		1/1/2002	630747	6826575	4.9	17.3	29	114	0.1	19	8	398	3.81	27.2	2.6	1.1	5	27	0.2	0.9	0.3	32	0.64	0.057	25	20	0.66	237	0.03	2	1.4	0.012	0.22	0.3	0.03	2.3	0.2	0.005	5	
FIL20 9+75S		1/1/2002	630756.6	6826554	3.3	26.4	31.4	100	0.1	21.6	8.4	425	4.7	29.1	2	2	6.4	30	0.2	1.1	0.3	29	0.84	0.08	27	19.1	0.67	276	0.038	3	1.49	0.012	0.32	1	0.02	2.6	0.2	0.005	5	
FIL7 0+00	13	1/1/2002	631794.1	6829200	6.5	32.2	24.9	109	0.1	19.3	6.8	131	3.07	21.4	1	2.2	1.1	3	0.3	3	0.6	35	0.02	0.144	27	11.3	0.13	78	0.003	2	0.68	0.003	0.04	0.1	0.03	0.4	0.1	0.005	4	
FIL7 0+25S	13	1/1/2002	631800	6829177	4.8	31.6	139.5	94	0.2	38.5	13.3	601	4.21	23.3	1.5	0.7	1.9	6	0.3	3.2	0.7	27	0.09	0.122	18	11.4	0.23	363	0.003	1	0.77	0.003	0.03	0.1	0.02	1.6	0.1	0.005	2	
FIL7 0+50S	13	1/1/2002	631809.3	6829157	1.2	7.7	10.9	18	0.1	16.8	1.8	45	0.79	4	1.1		2.2	19	0.3	0.2	0.2	10	0.19	0.144	28	4.7	0.07	169	0.002	1	0.33	0.003	0.04		0.02	0.6		0.005	1	
FIL7 0+75S	13	1/1/2002	631821.6	6829137	4.6	54	46.5	64	0.3	28.4	4.4	103	2.29	11.7	6.6	1.9	1.8	35	0.2	2	0.7	22	0.27	0.242	15	12.6	0.22	552	0.003	1	1.14	0.009	0.06	0.1	0.02	1.1	0.1	0.15	3	
FIL7 1+00S	13	1/1/2002	631833.5	6829117	6.3	22.5	7.9	56	0.1	27.5	5.1	66	1.34	5.7	1.2		4.3	13	0.1	0.7	0.2	15	0.26	0.104	27	4.3	0.17	106	0.006	2	0.51	0.011	0.03	0.1	0.01	0.6		0.005	2	
FIL7 1+25S	13	1/1/2002	631843.8	6829097	7.4	38.6	15.4	34	0.1	32.2	6.9	140	2.77	6.9	2.8	0.9	3.3	16	0.5	1.4	0.6	18	0.31	0.089	20	9.3	0.26	305	0.001	2	0.75	0.003	0.03	0.1	0.02	1.6		0.005	2	
FIL7 1+50S	13	1/1/2002	631852.2	6829076	2.6	21	27.3	81	0.3	24.1	4.4	234	1.9	7.4	6.3		1.6	16	0.2	1.6	0.2	22	0.37	0.105	11	11.4	0.31	341	0.005	1	0.85	0.01	0.03	0.1	0.04	1.9	0.1	0.06	3	
FIL7 1+75S	13	1/1/2002	631857	6829053	3.2	14.9	168.6	213	0.2	17.7	5.8	244	2.63	6.9	1.1	0.7	2.3	4	0.2	6.2	0.7	23	0.04	0.056	17	11.6	0.24	142	0.002	1	0.69	0.002	0.02	0.1	0.03	1.9		0.005	2	
FIL7 10+00S	11	1/1/2002	632168.2	6828522	1.3	11.8	500.3	291	1.2	22.9	7.6	2547	3.59	13.7	0.6	3.4	2	24	1.9	2.9	0.2	41	5.68	0.062	20	18	2.99	655	0.017	1	0.69	0.009	0.02	0.3	0.07	3.3	0.1	0.09	2	
FIL7 10+25S	11	1/1/2002	632161.9	6828500	1.2	26.5	1545.9	1688	3.5	23.2	9.1	2549	4.8	42.3	0.8	6.4	1.6	28	10.7	9.1	0.2	43	7.25	0.071	14	16.8	3.6	350	0.018	1	0.69	0.009	0.02	0.2	0.07	3.3	0.1	0.19	2	
FIL7 10+50S	11	1/1/2002	632157	6828478	1.7	7.3	30.3	117	0.1	14.1	4.1	2026	2.52	6	0.4		1.2	38	0.4	1.5	0.1	24	10.86	0.037	9	8.8	5.45	368	0.01	1	0.38	0.015	0.02	0.1	0.03	1.7	0.1	0.08	1	
FIL7 10+75S	11	1/1/2002	632154.5	6828455	2.6	12.9	41	124	0.2	41.3	13.6	2026	3.45	14.1	0.8	0.8	1.1	60	0.4	3.2	0.1	24	15.88	0.043	9	9	6.96	528	0.005	2	0.29	0.01	0.02	0.1	0.02	2.2	0.1	0.09	1	
FIL7 11+00S	13	1/1/2002	632152.1	6828432	4.8	22.9	70.3	226	0.1	30.6	7	538	4.4	21.9	1.1	0.9	0.9	6	0.4	4.4	0.3	32	0.28	0.085	18	12.1	0.13	637	0.003	1	0.53	0.002	0.02	0.1	0.02	0.9	0.1	0.005	1	
FIL7 11+25S	13	1/1/2002	632157.5	6828410	1.3	4.3	46.2	116	0.2	27.8	8.9	1811	3.15	10.8	0.5		0.4	61	0.8	2.8	0.8	25	17.4	0.05	9	9.5	8.15	151	0.003	1	0.2	0.013	0.01	0.1	0.05	1.3		0.15	3	
FIL7 11+50S	13	1/1/2002	632169.3	6828391	1.4	6.7	94.9	144	0.5	38.1	7.1	1244	2.66	11	0.5		0.6	35	0.5	3.8	0.1	20	8.64	0.065	12	13.9	3.91	367	0.006	1	0.32	0.009	0.02	0.1	0.07	1.8	0.1	0.08	1	
FIL7 11+75S	13	1/1/2002	632187.6	6828377	1	7.4	146.4	402	0.4	23.6	6.7	2268	3.34	11	0.4		0.5	34	1.1	2.6	0.1	24	10.6	0.094	18	14.1	4.97	701	0.007	1	0.37	0.008	0.04	0.1	0.07	2.1		0.13	1	
FIL7 12+00S	11	1/1/2002	632206.9	6828365	0.9	15.2	686.6	1134	1.2	17.1	6.2	1933	3.33	14.4	0.7	2.8	0.9	13	8.7	4.4	0.2	43	1.35	0.076	16	16.1	0.7	445	0.013	1	0.88	0.014	0.04	0.1	0.07	2.2	0.1	0.07	2	
FIL7 12+25S	11	1/1/2002	632225.8	6828351	1	13.2	297.3	1107	0.8	19.7	8.5	2421	3.21	13.3	0.5	2.7	1	17	7.5	2.9	0.2	39	3.04	0.065	18	19.9	1.62	464	0.018	1	0.85	0.009	0.03	0.2	0.07	1.9	0.1	0.08	2	
FIL7 12+50S	11	1/1/2002	632241.6	6828335	0.5	10.3	413	809	0.3	5.7	3.2	1289	1.04	5.4	0.4	0.6	0.2	17	15.1	1.8	0.1	18	1.09	0.074	5	5.9	0.42	178	0.014	1	0.71	0.047	0.03	0.1	0.03	1.1		0.005	2	
FIL7 12+75S	11	1/1/2002	632254.5	6828316	0.8	10.9	63.6	510	0.2	13.7	4.6	793	2.24	9.1	0.5	1.5	0.6	16	2.2	1.6	0.2	24	1.01	0.078	13	13.1	0.26	118	0.016	3	0.85	0.02	0.03	0.1	0.04	1.5		0.005	2	
FIL7 13+00S	11	1/1/2002	632263.4	6828295	1	16.2	92.7	454	0.4	21.1	6.3	658	3.27	13.6	0.6	2	1.7	15	0.8	1.7	0.2	35	0.71	0.081	27	25.6	0.26	163	0.022	1	1.05	0.01	0.03	0.2	0.1	3.8	0.1	0.005	3	
FIL7 13+25S	13	1/1/2002	632268.1	6828272	1.3	15.6	511.2	1151	0.5	21.6	8	1600	3.45	21.9	0.6	2.4	2.1	12	6.7	3.4	0.2	41	0.73	0.052	15	24.1	0.49	614	0.026	3	1.08	0.007	0.03	0.3	0.06	2.6	0.1	0.005	3	
FIL7 13+50S	13	1/1/2002	632274	6828250	1.3	21.8	1944.4	2143	7.3	25.3	8.1	1278	4.08	34.8	0.7	3.7	2.1	15	6.1	8	0.2	38	1.5	0.065	23	27.3	1.08	974	0.024	1	1.16	0.008	0.03	0.2	0.2	3.9	0.1	0.07	3	
FIL7 13+75S	13	1/1/2002	632280.7	6828228	1.1	11.4	109.5	703																																

Sample Number	Map Unit	Date	Easting	Northing	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Zr_ppm	
FIL8 1+25S	13	1/1/2002	631433.8	6828912	1.1	19.6	4.4	21	0.1	4.2	7.7	204	0.43	0.7	0.3		0.2	11	0.2	0.1	0.1	13	0.11	0.052	4	3.7	0.07	119	0.007	1	0.39	0.019	0.02	1.4	0.01	0.8		0.005	2		
FIL8 1+50S	13	1/1/2002	631448.9	6828894	1.1	5.6	7.7	23	0.1	14.2	1.6	88	0.49	2.5	0.7		1.3	5	0.1	0.5	0.1	16	0.08	0.088	9	9.4	0.26	74	0.003	1	0.58	0.005	0.03	1.5	0.03	0.4		0.005	3		
FIL8 1+75S	13	1/1/2002	631464	6828875	0.8	10	7.8	26	0.1	11.2	1.9	23	0.49	3	1.5		0.4	9	0.2	0.3	0.2	18	0.06	0.068	11	8.1	0.19	180	0.003	1	0.71	0.005	0.02	2	0.02	0.5		0.005	3		
FIL8 2+00S	13	1/1/2002	631480	6828857	0.3	9.5	1.9	26	0.1	5.5	2.4	51	0.39	1.3	2.6		0.2	17	0.1	0.2	2.5	13	0.31	0.049	3	2.1	0.06	50	0.021	1	0.26	0.035	0.03	1.3	0.01	0.5		0.005	2		
FIL8 2+25S	13	1/1/2002	631500.1	6828844	0.7	26.3	2.7	13	0.1	28	4.3	230	0.39	2.4	5.9	0.6	0.3	28	0.1	0.5	0.1	9	1.28	0.046	5	2.7	0.12	103	0.013	1	0.53	0.022	0.02	1.6	0.02	0.6		0.08	1		
FIL8 2+50S	13	1/1/2002	631524	6828841	4.4	18.9	7.5	20	0.1	11.6	3.4	30	0.8	5.3	1.5		0.1	14	0.5	0.6	0.3	16	0.24	0.034	7	2.4	0.07	107	0.01	1	0.31	0.015	0.03	1.2	0.02	0.4		0.005	2		
FIL8 2+75S	13	1/1/2002	631548	6828843	13.4	21	55.5	31	0.1	19.2	4.3	35	1.24	24.8	1.2		0.3	5	0.3	2.1	0.8	28	0.02	0.067	14	4.7	0.06	147	0.007	1	0.53	0.005	0.04	2.3	0.01	0.2		0.005	3		
FIL8 3+00S	13	1/1/2002	631569.9	6828836	2.1	7	11.8	16	0.3	4.3	1	9	0.36	2.3	0.3		0.1	5	0.2	0.4	0.2	8	0.02	0.04	6	1.9	0.03	50	0.006	1	0.33	0.017	0.02	1.2	0.01	1		0.005	2		
FIL8 3+25S	13	1/1/2002	631586.2	6828819	2.6	14.6	21.1	50	0.2	19.3	4.7	126	1.1	6.2	0.6		1	15	0.2	1.8	0.2	16	0.41	0.064	10	7.1	0.21	278	0.011	1	0.59	0.019	0.04	0.4	0.03	0.9		0.005	2		
FIL8 3+50S	13	1/1/2002	631597.5	6828798	1.2	7.3	15	25	0.1	8.4	2.5	114	0.63	2.9	0.5	1	0.3	10	0.1	1	0.1	11	0.34	0.057	5	2.9	0.11	146	0.018	1	0.42	0.028	0.03	0.1	0.02	0.8		0.005	1		
FIL8 3+75S	13	1/1/2002	631600.6	6828774	3.2	16	41.3	73	0.1	17.6	7.1	511	1.55	6.7	0.6	0.5	0.6	16	0.3	1.7	0.3	22	0.67	0.084	9	7.8	0.21	508	0.009	2	0.78	0.014	0.04	0.4	0.03	0.8	0.1	0.005	3		
FIL8 4+00S	13	1/1/2002	631606.3	6828751	1.7	13	25.2	64	0.1	16.2	4.2	326	1.34	6	0.4		0.9	13	0.3	1.5	0.3	22	0.48	0.057	10	7.9	0.22	455	0.01	1	0.6	0.013	0.03	0.3	0.03	0.9		0.005	2		
FIL8 4+25S	13	1/1/2002	631617.5	6828730	0.8	7.5	8.7	23	0.1	6.6	2.8	278	0.67	2.1	0.5	0.5	0.2	11	0.2	0.5	0.1	15	0.36	0.05	5	4.1	0.14	404	0.011	1	0.43	0.033	0.03	0.2	0.03	0.6		0.005	2		
FIL8 4+50S	13	1/1/2002	631636.2	6828715	2.9	17.5	27.8	51	0.2	23	6.6	408	1.99	8.5	0.9	1.1	1	16	0.4	2.4	0.4	21	2.08	0.08	12	11.6	1.17	273	0.008	1	0.72	0.011	0.02	0.8	0.04	1.5		0.005	2		
FIL8 4+75S	13	1/1/2002	631654.8	6828700	3	12.6	27.4	47	0.1	12.4	3.9	258	1.08	4.6	0.7		0.4	9	0.3	1.2	0.2	23	0.14	0.045	8	6.7	0.12	321	0.009	1	0.66	0.013	0.03	0.2	0.02	0.9		0.005	2		
FIL8 5+00S	13	1/1/2002	631673.4	6828684	13.2	25.6	210.6	223	0.6	54	12	800	3.45	23.8	1.7	3.5	2	19	1.3	8.5	0.3	30	0.72	0.105	22	13	0.46	216	0.012	2	0.56	0.005	0.04	0.3	0.08	2.2	0.2	0.07	2		
FIL8 5+25S	13	1/1/2002	631693.2	6828671																																					
FIL8 5+50S	13	1/1/2002	631709.3	6828653	0.6	3.6	5.7	44	0.2	1.5	1	32	0.31	0.5	0.2			11	0.7	0.2	2.5	7	0.23	0.028	1	1.5	0.03	42	0.01	1	0.19	0.027	0.02	0.1	0.01	0.6		0.005	1		
FIL8 5+75S	13	1/1/2002	631722.4	6828632	2.3	15.7	142.8	454	0.6	25.1	8.9	722	2.66	15.9	1.3	2.3		12	22	1.1	3.4	0.2	19	2.27	0.113	13	10.8	0.99	199	0.011	2	0.62	0.01	0.04	0.2	0.08	2.4	0.1	0.16	2	
FIL8 6+00S	13	1/1/2002	631720.7	6828609	3.7	29.4	99.2	147	0.3	37.5	13.4	330	4.02	18.3	1.1	2	4.6	19	0.4	4.3	0.3	30	2.55	0.108	17	16.2	1.53	177	0.02	1	0.77	0.008	0.05	0.5	0.05	2.9	0.1	0.005	2		
FIL8 6+25S	13	1/1/2002	631710.2	6828588	1.5	5.4	9.3	17	0.1	6.5	1.6	29	0.68	3.7	0.3		0.2	4	0.1	0.7	0.1	16	0.04	0.021	10	4.7	0.07	47	0.01	2	0.38	0.011	0.02	0.2	0.01	0.2		0.005	2		
FIL8 6+50S	13	1/1/2002	631696.7	6828568	1.3	11.5	18.2	48	0.1	13.7	3.2	136	0.95	4.7	0.4		1.1	9	0.3	1	0.1	15	0.35	0.038	7	5.7	0.15	175	0.012	4	0.46	0.017	0.03	0.3	0.02	1.2		0.005	1		
FIL8 6+75S	13	1/1/2002	631684.2	6828547	1.4	19.8	26.5	42	0.1	19.7	3.7	199	1.42	4.8	0.8	0.7	1.2	17	0.1	1.2	0.2	19	1.07	0.065	11	8.5	0.37	526	0.006	3	0.87	0.016	0.05	0.3	0.05	1.4		0.005	3		
FIL8 7+00S	13	1/1/2002	631672	6828526	1.3	10	42.9	34	0.1	10.7	3.4	907	1.24	4.4	0.4		0.4	9	0.1	1	0.2	21	0.6	0.05	11	5.8	0.18	424	0.008	3	0.68	0.015	0.04	0.3	0.01	0.7	0.1	0.005	2		
FIL8 7+25S	13	1/1/2002	631660.4	6828505	2.2	19	68.3	38	0.2	19.6	5.1	375	1.56	7.7	1.1	1.7	0.8	15	0.2	1.7	0.2	19	1.2	0.08	11	7.4	0.3	473	0.009	3	0.7	0.016	0.04	0.3	0.06	1.3	0.1	0.005	2		
FIL8 7+50S	13	1/1/2002	631647.5	6828485	1.5	7	21.1	19	0.1	8.6	3.3	189	0.69	3.6	1.1	1.1	0.4	11	0.1	0.8	0.1	13	0.76	0.06	5	4.2	0.19	236	0.01	2	0.39	0.024	0.02	0.2	0.03	0.6		0.005	2		
FIL8 7+75S	13	1/1/2002	631635.2	6828464	8.1	22.9	67.9	54	0.2	26.8	8.2	234	1.53	18	2.2	3.1	0.7	15	0.2	4	0.3	16	1.15	0.073	8	5.3	0.2	547	0.004	1	0.38	0.004	0.01	0.2	0.06	0.4	0.1	0.1	1		
FIL8 8+00S	13	1/1/2002	631629.9	6828441	7.2	26.9	34.4	92	0.2	27.8	5.8	154	1.89	16.7	1.1	3.1	4.3	15	0.3	3.1	0.3	25	0.36	0.103	24	9.7	0.25	255	0.006	1	0.62	0.008	0.05	0.9	0.04	1.4		0.005	2		
FIL8 8+25S	13	1/1/2002	631631.2	6828417	0.7	2.8	4.3	18	0.1	3.5	1.3	37	0.4	1	0.3		0.2	8	0.5	0.3	2.5	11	0.16	0.032	2	1.7	0.07	59	0.019	1	0.21	0.035	0.02	0.1	0.02	0.3		0.005	1		
FIL8 8+50S	13	1/1/2002	631632.4	6828393	7.4	56.8	30.8	61	0.4	32.8	6.7	428	2.08	12.9	5.4	1.6	1.6	14	0.2	1.7	0.6	27	0.57	0.101	15	8.3	0.19	538	0.004	1	0.91	0.014	0.02	0.3	0.04	1.5	0.1	0.13	3		
FIL8 8+75S	13	1/1/2002	631634.3	6828369	2.8	10.7	15.8	33	0.2	11.2	2.8	44	0.8	4.5	0.7	1	0.7	8	0.1	1	0.1	15	0.17	0.041	6	4.1	0.1	213	0.007	1	0.42	0.02	0.03	0.7	0.02	0.5		0.005	2		
FIL8 9+00S	13	1/1/2002	631636.8	6828345	0.5	5.6	3.1	10	0.1	5.3	1.3	77	0.32	2.5	2.8		0.1	15	0.1	0.3	2.5	5	0.56	0.04	2	1.3	0.07	319	0.009	1	0.34	0.035	0.01		0.02	0.2		0.06	1		
FIL8 9+25S	13	1/1/2002	631642.3	6828321	4.4	36.3	9.9	18	0.1	21.2	4.8	37	1.77	11.2	0.5		0.4	3	0.1	1.1	0.5	20	0.05	0.062	21	5	0.15	54	0.005	1	0.46	0.007	0.03	0.1	0.01	0.4		0.005	3		
FIL8 9+50S	13	1/1/2002	631649	6828298	0.6	7.6	2.4	6	0.1	2.6	0.8	11	0.37	1.3	0.2	0.7	0.2	4	0.5	0.2	0.1	9	0.01	0.045	10	3.5	0.04	32	0.004	1	0.36	0.016	0.02			0.1		0.005	2		
FIL8 9+75S	13	1/1/2002	631657.4	6828275	2.8	13.8	1.1	16	0.1	14.3	4.2	32	1.47	6.7	0.4	0.7	0.3	3	0.2	0.9	0.6	38	0.01	0.045	24	7.5	0.23	52	0.007	1	0.55	0.005	0.03	0.2	0.01	0.2		0.005	4		
FIL9 0+00	10	1/1/2002	631286.3	6827806	0.7	7.5	8.8	25	0.1	5.6	1.5	22	0.65	2.1	1.7</																										

Sample Number	Map Unit	Date	Easting	Northing	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	U_ppm	Au_ppb	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Tl_ppm	S_%	Ga_ppm	Zr_ppm	
NTFMD006	2	7/30/2007	630894.5	6830051	7	8	57	237	0.15	6	4	870	3.81	22		1	8	20	0.25	1.5	3	16	0.11	0.039	89	5	0.13	396		10	1.3	0.01	0.1								
NTFMD007	2	7/30/2007	630878.3	6830060	18	11	51	265	0.15	5	3	136	4.34	27		1	10	10	0.25	1.5	1.5	6	0.01	0.046	43	3	0.01	94		10	0.49	0.06									
NTFMD008	7	7/30/2007	630861.9	6830069																																					
NTFMD009	7	7/30/2007	630852.2	6830080	3	9	13	217	0.15	6	4	227	2.79	41		1		5	0.5	1.5	1.5	14	0.02	0.063	17	4	0.02	85		10	0.4	0.01	0.03								
NTFMD010	7	7/30/2007	630835.7	6830092	0.5	2	4	50	0.15	2	1	99	0.69	17		1		6	0.25	1.5	1.5	9	0.06	0.026	5	1	0.01	47		10	0.14	0.02	0.02								
NTFMD011	7	7/30/2007	630826.4	6830105	0.5	2	1.5	22	0.15	1	0.5	17	0.32	4		1		9	0.25	1.5	1.5	7	0.17	0.021	1	1	0.02	47		10	0.13	0.04	0.02								
NTFMD012	7	7/30/2007	630821.9	6830110																																					
NTFMD013	7	7/30/2007	630800.8	6830151	5	26	72	472	0.9	20	9	514	5.79	146		1	6	26	0.9	3	1.5	10	0.21	0.106	38	7	0.07	572		10	0.74	0.01	0.06								
NTFMD014	7	7/30/2007	630777.9	6830152	5	18	91	200	0.6	15	7	287	3.04	34		1	2	27	0.7	1.5	4	15	0.21	0.073	30	8	0.17	1011		10	0.61	0.02	0.07								
NTFMD015	7	7/30/2007	630755.8	6830170	3	21	84	210	0.4	19	6	267	2.45	13		1		24	0.8	1.5	1.5	17	0.38	0.062	18	7	0.19	777		10	0.8	0.02	0.06								
NTFMD016	7	7/30/2007	630730.4	6830191	5	25	81	206	1	22	8	365	3	20		1	2	28	0.9	1.5	1.5	19	0.46	0.077	24	9	0.25	977		10	0.77	0.01	0.07								
NTFMD017	7	7/30/2007	630713.8	6830208	6	18	91	192	1	16	9	650	3.2	25		1	3	24	0.9	1.5	5	20	0.35	0.068	23	8	0.23	787		10	0.74	0.01	0.07								
NTFMD018	7	7/30/2007	630696.4	6830225	6	20	93	224	0.9	17	7	378	3.73	23		1	4	26	0.9	1.5	1.5	20	0.27	0.077	35	10	0.24	936		10	0.75	0.01	0.08								
NTFMD018	7	7/30/2007	630696.4	6830225	6	20	88	217	0.8	17	7	362	3.64	23		1	4	24	0.8	3	1.5	19	0.26	0.074	28	10	0.22	785		10	0.68	0.01	0.07								
NTFMD019	7	7/30/2007	630677.8	6830244	6	19	90	191	1.4	16	7	286	3.32	23		1	4	24	0.6	1.5	1.5	19	0.2	0.072	39	9	0.23	1056		10	0.75	0.01	0.08								
NTFMD020	7	7/30/2007	630636.6	6830236	6	17	98	123	1.5	11	3	75	3.27	30		1	2	27	0.25	5	1.5	18	0.09	0.068	34	8	0.15	1921		10	0.57	0.01	0.06								
NTFMD021	7	7/30/2007	630638.9	6830284	4	18	79	147	1.7	12	4	119	3.32	28		1		17	0.25	6	1.5	17	0.04	0.055	20	9	0.15	833		10	0.58	0.01	0.09								
NTFMD022	7	7/30/2007	630618.6	6830299	3	13	69	50	3.2	6	2	32	2.03	19		1		13	0.25	4	1.5	13	0.03	0.043	13	6	0.08	832		10	0.41	0.01	0.05								
NTFMD023	7	7/30/2007	630598.9	6830321																																					
NTFMD023	7	7/30/2007	630598.9	6830321	4	33	78	148	1.1	31	6	167	4.46	25		1	4	9	0.25	4	1.5	22	0.04	0.065	21	18	0.3	390		10	1.11	0.01	0.06								
NTFMD024	7	7/30/2007	630581.1	6830340	4	49	70	208	1	27	13	508	3.85	24		1	5	10	0.25	1.5	1.5	23	0.02	0.055	27	17	0.42	257		10	1.21	0.01	0.06								
NTFMD025	7	7/30/2007	630561.3	6830358	5	32	103	134	1.8	18	4	126	4.05	38		1	2	18	0.25	5	1.5	20	0.03	0.067	21	15	0.26	400		10	0.79	0.01	0.11								
NTFMD026	7	7/30/2007	630541.6	6830376	3	21	92	261	0.6	28	11	523	4.69	28		1	6	13	0.7	1.5	1.5	34	0.13	0.064	24	26	0.6	481		10	1.39	0.01	0.11								
NTFMD027	7	7/30/2007	630521.7	6830398	4	31	72	163	1.7	16	12	512	5.32	23		1	2	18	0.25	3	4	20	0.04	0.078	21	17	0.22	765		10	0.79	0.01	0.06								
NTFMD028	7	7/30/2007	630501.9	6830420	3	32	47	363	0.7	42	27	1063	4.08	16		1	4	29	1.1	1.5	1.5	17	0.21	0.071	26	16	0.35	610		10	1.24	0.01	0.07								
NTFMD029	7	7/30/2007	630471.2	6830435	4	15	42	153	0.15	18	9	424	4.85	21		1	3	11	0.25	1.5	1.5	30	0.16	0.049	19	14	0.25	287		10	0.87	0.01	0.03								
NTFMD030	7	7/30/2007	630457.3	6830455	2	14	32	83	0.15	12	7	466	2.54	12				15	0.5	1.5	3	23	0.2	0.053	10	9	0.12	308		10	0.65	0.01	0.02								
NTFMD031	10	7/30/2007	630442.7	6830638	4	35	74	212	0.5	38	14	543	3.3	17		1	2	32	0.9	4	1.5	19	2.51	0.102	15	9	1.49	426		10	0.7	0.01	0.04								
NTFMD032	10	7/30/2007	630442.7	6830674	2	19	43	171	0.3	22	8	311	2.88	13		1	3	29	0.25	1.5	3	19	0.78	0.095	18	14	0.45	418		10	0.91	0.01	0.05								
NTFMD033	10	7/30/2007	630440	6830683	2	20	35	122	0.15	22	7	228	3.19	17		1	7	13	0.25	1.5	1.5	23	0.25	0.085	29	17	0.53	191		10	1.11		0.04								
NTFMD034	10	8/12/2007	635778.3	6833646	13	17	148	186	1.2	5	1	124	4.36	15		1	12	19	0.25	6	1.5		0.005	0.035	41	1	0.005	551		10	0.11		0.18								
NTFMD035	10	8/12/2007	635770.4	6833673	14	49	348	113	3.1	3	0.5	85	9.16	46		1	7	16	0.25	29	1.5	8	0.005	0.059	24	8	0.005	214		10	0.09		0.56								
NTFMD036	10	8/12/2007	635751.3	6833710	7	46	38	232	0.9	95	35	2104	5.69	9		9	1	4	17	2.1	1.5	3	4	3.27	0.066	15	7	0.25	259		10	0.21		0.05							
NTFMD037	10	8/12/2007	635735.8	6833727	6	21	166	479	0.7	32	5	991	4.21	14		1	7	12	2.7	1.5	3	2	0.17	0.055	128	3	0.03	437		10	0.37		0.08								
NTFMD038	10	8/12/2007	635753.5	6833739	4	29	29	150	0.4	219	48	1864	4.85	5		9	1	2	14	1.5	1.5	6	1.26	0.082	14	9	0.19	239		10	0.19		0.05								
NTFMD039	10	8/12/2007	635766.8	6833726	4	35	33	119	0.7	101	41	3529	5.22	7		10	1	4	11	1	1.5	4	8	0.93	0.075	17	10	0.2	629		10	0.19		0.04							
NTFMD040	10	8/12/2007	635786.4	6833704	17	51	138	964	0.7	19	5	1797	6.35	14		1	34	3	7.3	1.5	3		0.04	0.032	119	3	0.01	366		10	0.24		0.05								
NTFMD041	10	8/12/2007	635791.9	6833682	14	64	405	186	3.2	6	0.5	107	9.18	59		1	7	22	0.25	26	1.5	8	0.005	0.076	28	10	0.005	213		10	0.11		0.38								
NTFMD042	10	8/12/2007	635807.6	6833699	8	31	146	354	1.6	19	4	415	3.44	13		1	3	13	2.4	7	4	6	0.2	0.068	27	3	0.03	517		10	0.29	0.01	0.1								
NTFMD043	10	8/12/2007	635804.3	6833715	12	35	57	599	0.8	5	0.5	112	6.16	23		1	22	3	0.25	1.5	1.5		0.005	0.023	41	2	0.005	424		10	0.22		0.04								
NTFMD044	10	8/12/2007	635794.9	6833735	5	38	35	97	0.5	90	37	3177	4.89	7		1	3	9	0.7	1.5	1.5	7	0.66	0.064	16	10	0.09	751		10	0.2		0.04								
NTFMD045	10	8/12/2007	635783.2	6833756	2</																																				

Appendix 3.2
Geochemical Data – Rocks

Sample Number	Sampler	Date	Time	Type	Purpose	ation Metr	Easting	Northing	UTM Zone	Major Rock Type	Minor Rock Type	Colour Weathered	Colour Fresh	Grain Size	Texture	Mineralization (y/n)	Alteration (y/n)	Vein (y/n)	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	B_ppm	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Zr_ppm		
CAFMR017	CA	06-Aug-07		FLOAT	ASSAY		631552.5	6829500	08N	Quartz vein float several 0.5m							FALSE	FALSE	FALSE	1	629	5	536	0.5	3	0.5	28	0.45	3		3.3	34	1.5	1	0.03	0.003		11	0.01	8		10	0.01		0.005					
CAFMR019	CA	12-Aug-07		GRAB	ASSAY		635767	6833934	08N	felsic tuff interval with 3-4c							FALSE	FALSE	FALSE	10	26	227	18	2.2	1	4	38	4.25	127	6	0.25	1.5	14		0.16	0.002	24	0.5	0.02	78		10	0.2		0.22					
CDF01R11	CD	01-Jan-01		float	assay	GPS	632470.1	6828665	08N	dolomite	fault gouge	rusty					TRUE	FALSE	FALSE	7	326	22741	4430	114.5	0.5	2	494	8.91	286	1	12	151	1	4	0.03	0.01	1	56	0.01	1	0.005		0.05	0.01		0.03	2.5	1.5	1	3
CDF01R12	CD	01-Jan-01		float	assay	GPS	631199.5	6830538	08N	breccia					brecciated		TRUE	FALSE	FALSE	1	9	676	46	2	3	0.5	23	0.34	2.5	2	0.05	2.5	1	1	0.01	0.005	6	134	0.01	90	0.005		0.05	0.02	0.06	2.5	1.5	0.5	5	
CDF01R13	CD	01-Jan-01		float	assay	GPS	631561.4	6831234	08N	tuff		rusty	pale green	fine			TRUE	FALSE	FALSE	4	74	58	151	0.4	150	40	960	5.05	2.5	142	0.05	2.5	1	34	6.97	0.06	6	160	4.24	88	0.005		1.91	0.02	0.1	2.5	1.5	8	4	
CDF01R14	CD	01-Jan-01		grab	assay	GPS	631533.9	6831139	08N	argillite		dark grey	black	fine	homogen		FALSE	FALSE	FALSE	3	14	37	33	0.2	6	2	16	0.41	2.5	11	0.05	2.5	1	7	0.17	0.07	8	51	0.02	102	0.005		0.13	0.02	0.1	2.5	1.5	0.5	5	
CDF01R15	CD	01-Jan-01		float	assay	GPS	631533.9	6831139	08N	argillite		dark grey	black	fine	homogen	ous	FALSE	TRUE	FALSE	4	32	21	46	0.4	8	4	15	0.62	2.5	7	0.05	2.5	1	7	0.11	0.06	20	8	0.02	152	0.005		0.17	0.02	0.12	2.5	1.5	0.5	8	
CDF01R16	CD	01-Jan-01		grab	assay	GPS	631687.9	6831187	08N	phyllite		rusty	black	fine			FALSE	TRUE	FALSE	2	2	29	68	0.05	32	7	385	2.37	2.5	7	0.05	2.5	1	20	0.15	0.05	11	81	0.49	63	0.005		0.64	0.01	0.05	2.5	1.5	2	4	
CDF01R17	CD	01-Jan-01		grab	assay	GPS	631918	6831408	08N	dolomite			pale grey				TRUE	FALSE	FALSE	4	4	15	30	0.05	2	1	288	0.26	2.5	82	0.05	2.5	1	2		0.01	3	23		37	0.005		0.04	0.02	0.01	2.5	1.5	0.5	1	
CDF01R18	CD	01-Jan-01		grab	assay	GPS	632011.6	6831485	08N	tuff							FALSE	FALSE	FALSE	1	4	11	14	0.05	3	1	238	0.24	2.5	20	0.05	2.5	1	1	3.42	0.01	2	60	2.03	45	0.005		0.08	0.02	0.05	2.5	1.5	0.5	1	
CDF01R40	CD	01-Jan-01		grab	assay	GPS	630951.7	6831022	08N	volcanic		brown	pale grey	fine			TRUE	FALSE	FALSE	3	3	10	27	0.05	0.5	1	877	1.5	2.5	51	0.05	2.5	1	1	4.12	0.03	73	17	0.93	116	0.005		0.22	0.02	0.21	2.5	1.5	0.5	2	
CDM01R01	CD	01-Jan-01		Rock	ASSAY	GPS	630969.2	6840487	08N								FALSE	FALSE	FALSE	22	78	161	4	1.8	19	12	5	8.9	2.5	6	0.05	2.5	22	5	0.04	0.01	7	32	0.01	4	0.005		0.13	0.02	0.14	2.5	1.5	0.5	11	
CDM01R02	CD	01-Jan-01		Rock	ASSAY	GPS	630833.8	6840447	08N								FALSE	FALSE	FALSE	9	9	28	2	0.3	0.5	2	146	1.72	2.5	54	0.05	2.5	9	1	1.29	0.02	44	15	0.06	63	0.005		0.14	0.03	0.17	2.5	1.5	0.5	11	
CDM01R03	CD	01-Jan-01		Rock	ASSAY	GPS	630779.7	6839996	08N								FALSE	FALSE	FALSE	1	163	292	6742	1.5	27	13	325		2.5	20	25.9	2.5	1	17	4.33	0.01	4	20	1.72	15	0.005		0.08	0.02	0.04	2.5	1.5	0.5	7	
CDM01R04	CD	01-Jan-01		Rock	ASSAY	GPS	630780.7	6839995	08N								FALSE	FALSE	FALSE	0.5	227	368	54819	3	16	6	785	8.15	68	52		2.5	1	13	5.44	0.005	8	31	3.49	12	0.005		0.03	0.01	0.01	353	152	3	2	
CDM01R05	CD	01-Jan-01		Rock	ASSAY	GPS	630780.7	6839995	08N								FALSE	FALSE	FALSE	4	105	778	1274	5.1	13	5	296	5.87	2.5	41		3.9	35	4	7		0.01	9	12	1.16	17	0.005		0.1	0.01	0.06	2.5	1.5	0.5	3
CDM01R06	CD	01-Jan-01		Rock	ASSAY	GPS	630860.7	6840214	08N								FALSE	FALSE	FALSE	9	7	75	13	0.2	1	7	367	2.92	2.5	13	0.05	2.5	9	1	0.07	0.03	30	58	0.02	29	0.005		0.21	0.02	0.24	2.5	1.5	0.5	13	
CDM01R07	CD	01-Jan-01		Rock	ASSAY	GPS	630861.4	6840214	08N								FALSE	FALSE	FALSE	4	2	77	5	0.2	0.5	1	15	1.3	2.5	14	0.05	2.5	4	1	0.11	0.05	26	39	0.01	71	0.005		0.16	0.01	0.27	2.5	1.5	0.5	7	
CDM01R08	CD	01-Jan-01		Rock	ASSAY	GPS	630781	6839993	08N								FALSE	FALSE	FALSE	7	10	16	34	0.05	3	3	1508	3.62	2.5	63	0.05	2.5	7	2		0.01	29	39	5.67	93	0.005		0.19	0.03	0.11	2.5	1.5	1	2	
CDM01R09	CD	01-Jan-01		Rock	ASSAY	GPS	630781.5	6839995	08N								FALSE	FALSE	FALSE	3	6	7	124	0.05	3	2	384	1.15	2.5	22	0.05	2.5	3	1	2.75	0.02	57	39	1.2	93	0.005		0.29	0.02	0.16	2.5	1.5	0.5	3	
CDM01R10	CD	01-Jan-01		Rock	ASSAY	GPS	630788.1	6840028	08N								FALSE	FALSE	FALSE	2	899	328	13047	31	86	8	1107	6.52	2.5	698	78.8	74	2	7		0.005	14	18	4.19	14	0.005		0.03	0.03	0.01	2.5	35	1	2	
CDM01R11	CD	01-Jan-01		Rock	ASSAY	GPS	630828.2	6840272	08N								FALSE	FALSE	FALSE	13	5	39	73	0.3	0.5	1	103	2.76	2.5	72	0.05	2.5	13	2	0.15	0.04	43	27	0.02	130	0.005		0.29	0.02	0.38	2.5	1.5	0.5	4	
CDM01R12	CD	01-Jan-01		Rock	ASSAY	GPS	630828.2	6840272	08N								FALSE	FALSE	FALSE	9	5	52	68	0.2	0.5	0.5	48	1.02	2.5	15	0.05	2.5	9	1	0.1	0.03	89	20	0.02	364	0.005		0.23	0.02	0.25	2.5	1.5	0.5	4	
CDM01R13	CD	01-Jan-01		Rock	ASSAY	GPS	630841	6840370	08N								FALSE	FALSE	FALSE	3	9	36	6	0.3	1	1	16	0.88	2.5	8	0.05	2.5	3	1	0.01	0.01	42	29	0.01	91	0.005		0.22	0.01	0.22	2.5	1.5	0.5	3	
CDM01R14	CD	01-Jan-01		Rock	ASSAY	GPS	630841.6	6840370	08N								FALSE	FALSE	FALSE	60	8	183	10	1.9	0.5	3	8	9.76	2.5	3	0.05	2.5	60	3	0.01	0.005	2	20	0.01	4	0.005		0.16	0.01	0.14	2.5	1.5	0.5	12	
CG01R-02	CG	19-Aug-01		grab	ASSAY	GPS	631134	6840746	08N	siliceous sedimentary		rusty		very fine			TRUE	FALSE	FALSE	2	21	13	35	0.9	13	3	43	1.09	2.5	14	0.05	2.5	1	7	0.12	0.06	11	42	0.03	653	0.005		0.18	0.01	0.12	2.5	1.5	1	5	
CG01R-04	CG	21-Aug-11		grab	ASSAY	GPS	632192	6827116	08N	vein				massive			FALSE	FALSE	FALSE	1	3	6	6	0.05	4	2	169	0.9	2.5	16	0.05	2.5	1	2	1.84	0.05	4	47	0.93	58	0.005		0.13	0.06	0.03	2.5	1.5	1	10	
CG01R-05	CG	21-Aug-11		float	ASSAY	GPS	632207	6828063	08N	vein							TRUE	FALSE	FALSE	4	3	52	88	0.05	1	1	954	0.93	2.5	82	0.05	2.5	1	2		0.005	2	17		30	0.005		0.04	0.03	0.01	2.5	1.5	0.5	1	
CG01R-06	CG	21-Aug-11		float	ASSAY	GPS	632225	6828060	08N	sulph min				massive			TRUE	FALSE	FALSE	0.5	1185	6308	48	78.6	0.5	0.5	16	0.17	46	1	52.1		41	1	0.06	0.005	1	0.5	0.02	1	0.005		0.01	0.01	0.01	2.5	1.5	0.5	0.5	
CG01R-07	CG	21-Aug-11		float	ASSAY	GPS	632263	6828064	08N	limonite		rusty	rusty				FALSE	TRUE	FALSE	11	142	1332	617	4.3	41	25	217		2.5	3	0.05	2.5	1	78	0.19	0.03	1	20	0.4	94	0.005		0.31	0.01	0.07	2.5	1.5	1	17	
CG01R-08	CG	21-Aug-11		grab	ASSAY	GPS	632498	6829314	08N	chert	phyllitic argillite	black	black	very fine	massive		FALSE	FALSE	FALSE	0.5	6	320	10	1	2	0.5	13	0.45	2.5	6	0.05	2.5	1	2	0.02	0.005	4	67	0.02	60	0.005		0.08	0.01	0.05	2.5	1.5	0.5	3	
CG01R-20	CG	25-Aug-11		float	ASSAY	GPS	633699.8	6833587	08N	lapilli tuff		dark grey					TRUE	FALSE	FALSE	27	49	85	60	1.5	15	4	11		2.5	3	0.05	2.5	1	5	0.01	0.005	1	20	0.01	9	0.005		0.16	0.02	0.12	2.5	1.5	0.5	27	
CG01R-21	CG	25-Aug-11		float	ASSAY	GPS	633699.8	6833587	08N	lapilli tuff		dark grey					TRUE	FALSE	FALSE	11	43	93	334	2.5	20	24	510	6.3	2.5	72	0.05	2.5	1	25	1.53	0.12	16	22	0.61	10	0.005		1.35	0						

Appendix 3.3
Geochemical Data – Silts

Sample Number	Sampler	Date	Easting	Northing	Mo_ppm	Cu_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_%	As_ppm	Au_ppb	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_%	P_%	La_ppm	Cr_ppm	Mg_%	Ba_ppm	Ti_%	Al_%	Na_%	K_%	W_ppm	hg_ppm	Sc_ppm	Zr_ppm
CDF01S12		01-Jan-01	631936	6828714	4	16	460	1545	1.5	24	6	1256	2.73	7	7	32	4	6	4	11		0.03	8	10	7.99	47	0.005	0.2	0.02	0.02	2.5	1.5	1	2
CDF01S13		01-Jan-01	631882.6	6828701	4	18	471	1653	1.6	25	7	1666	3.12	2.5	11	28	7.7	6	4	13		0.05	8	10	6.37	81	0.005	0.25	0.02	0.02	2.5	1.5	1	2
CDF01S14		01-Jan-01	631834.7	6828684	5	20	527	1927	1.8	25	8	1904	3.55	5	13	26	7.3	7	5	15	9.32	0.07	9	11	5.5	98	0.01	0.29	0.02	0.03	2.5	1.5	1	2
CDF01S15		01-Jan-01	631784.5	6828665	4	17	394	1170	1.4	30	7	1356	3.19	2.5	2.5	25	3.7	5	4	16	7.96	0.07	9	11	4.64	142	0.01	0.35	0.02	0.03	2.5	1.5	1	2
CDF01S16		01-Jan-01	631742.8	6828641	3	17	357	1180	1.2	28	8	1461	3.18	2.5	2.5	25	4.8	2.5	3	17	6.87	0.08	9	11	3.86	191	0.01	0.4	0.02	0.03	2.5	1.5	1	2
CDF01S17		01-Jan-01	631692.4	6828623	3	17	404	1017	1.4	30	9	1349	3.53	2.5	8	23	3.1	8	3	22	6.13	0.08	11	13	3.59	172	0.01	0.49	0.02	0.03	2.5	1.5	1	2
CDF01S18		01-Jan-01	631645.9	6828607	4	13	299	776	1.1	19	6	780	2.82	2.5	11	27	1.3	5	4	16	8.27	0.06	7	11	4.88	174	0.01	0.33	0.02	0.02	2.5	1.5	1	2
CDF01S19		01-Jan-01	631601.6	6828589	2	14	482	677	1.1	20	6	693	2.69	2.5	2.5	23	4.2	2.5	2	15	6.18	0.08	7	10	3.43	196	0.01	0.41	0.02	0.02	2.5	1.5	1	2
CDF01S25		01-Jan-01	63182.8	6829516	7	52	108	560	0.8	116	22	606	3.39	2.5	2.5	42	5.7	2.5	7	20	1	0.12	13	9	0.49	270	0.01	0.53	0.01	0.04	2.5	1.5	1	2
CDF01S37		01-Jan-01	632923	6829268	3	21	52	151	0.4	25	7	252	2.38	2.5	2.5	11	0.05	2.5	3	21	0.37	0.08	13	12	0.25	460	0.01	0.63	0.01	0.03	2.5	1.5	1	3
CDF01S38		01-Jan-01	632973.5	6829334	3	34	39	489	0.5	50	10	234	2.22	2.5	12	15	1.8	2.5	3	20	0.44	0.11	14	10	0.32	289	0.005	0.64	0.01	0.04	2.5	1.5	0.5	1
CDF01S39		01-Jan-01	632944.1	6829395	3	27	17	124	0.4	35	6	191	1.51	2.5	24	20	1.2	2.5	3	16	0.61	0.13	10	7	0.25	425	0.005	0.67	0.02	0.05	2.5	1.5	0.5	1
CDF01S40		01-Jan-01	632871.5	6829481	3	25	36	1053	0.4	59	8	195	1.93	2.5	13	16	1.9	2.5	3	20	0.8	0.1	12	9	0.39	463	0.01	0.77	0.02	0.03	2.5	1.5	1	2
CDF01S41		01-Jan-01	632835.5	6829569	3	21	27	862	0.3	81	55	821	2.51	2.5	5	21	5.7	2.5	3	19	0.98	0.12	8	6	0.27	530	0.01	0.66	0.02	0.03	2.5	1.5	1	2
CDF01S42		01-Jan-01	632581.5	6829810	2	28	26	129	0.1	30	7	349	1.34	2.5	2.5	13	1.9	2.5	2	18	0.36	0.11	11	7	0.22	136	0.005	0.65	0.02	0.04	2.5	1.5	0.5	1
CDF01S43		01-Jan-01	632460.1	6829820	1	21	5	85	0.2	28	5	92	1.27	2.5	2.5	14	0.6	2.5	1	16	0.39	0.09	11	7	0.28	179	0.005	0.72	0.02	0.03	2.5	1.5	0.5	1
CDF01S50		01-Jan-01	631943	6831551	46	67	174	1102	1.1	142	17	528	3.88	7	2.5	143	2.4	5	46	34	6.05	0.09	8	6	2.86	200	0.005	0.15	0.01	0.05	2.5	1.5	4	18
CGM01S01	CG	01-Jan-01	630512	6840208	12	50	54	364	0.5	33	15	1383	6.97	2.5	7	19	0.05	2.5	12	23	1.27	0.12	37	10	0.57	138	0.005	0.64	0.02	0.07	2.5	1.5	2	2
CGM01S02	CG	01-Jan-01	630874	6840882	11	36	39	118	0.5	28	12	355	6.44	2.5	9	22	0.05	2.5	11	14	0.34	0.1	22	9	0.48	98	0.005	1	0.02	0.06	5	1.5	2	3
CGM01S03	CG	01-Jan-01	630794	6840827	11	41	45	116	0.4	23	13	301	8.39	2.5	9	19	0.05	2.5	11	15	0.24	0.09	39	9	0.43	64	0.005	1.63	0.02	0.06	5	1.5	2	3
DJM01S54		01-Jan-01	630074.5	6828637	4	20	37	134	0.2	27	13	538	3.23	2.5	17	20	0.2	2.5	4	35	0.59	0.14	42	19	0.69	115	0.03	0.95	0.02	0.07	2.5	1.5	2	2
DJM01S55		01-Jan-01	629932.5	6828574	4	25	41	132	0.2	28	12	470	2.93	2.5	6	21	0.1	2.5	4	30	0.65	0.12	38	20	0.73	129	0.03	1.02	0.02	0.09	2.5	1.5	2	2
FBR01S39		01-Jan-01	633461.6	6827670	5	19	36	187	0.3	32	10	1046	2.38	2.5	11	67	0.05	2.5	5	19	3.74	0.11	11	10	1.27	190	0.01	0.51	0.01	0.04	2.5	1.5	1	2
FBR01S40		01-Jan-01	633460.9	6827476	4	19	44	226	0.3	29	12	731	2.31	2.5	8	80	0.05	2.5	4	16	4.2	0.09	10	10	1.13	188	0.01	0.53	0.01	0.04	2.5	1.5	1	2
FBR01S41		01-Jan-01	633449.9	6827284	6	24	48	209	0.6	35	12	796	2.49	2.5	9	70	0.05	2.5	6	20	3.67	0.1	10	11	1.06	200	0.01	0.54	0.01	0.05	2.5	1.5	1	2
FBR01S42		01-Jan-01	633279.5	6827103	7	22	45	214	0.5	35	12	921	2.44	2.5	11	61	0.05	2.5	7	22	3.22	0.1	12	11	1.04	199	0.01	0.57	0.02	0.05	2.5	1.5	1	2
FBR01S43		01-Jan-01	633072.3	6826953	5	19	38	179	0.4	33	12	596	2.37	2.5	9	89	0.05	2.5	5	18	4.78	0.11	12	10	1.2	219	0.01	0.57	0.01	0.05	2.5	1.5	1	2
FBR01S44		01-Jan-01	633054.5	6826777	5	18	46	172	0.5	31	10	625	2.35	2.5	10	62	0.05	2.5	5	21	3.86	0.11	14	11	1.4	230	0.01	0.59	0.01	0.05	2.5	1.5	2	1
FBR01S45		01-Jan-01	633030.6	6826582	6	19	20	198	0.2	34	11	916	2.69	2.5	5	75	0.05	2.5	6	23	4.42	0.1	13	10	1.57	97	0.01	0.59	0.01	0.02	2.5	1.5	2	1
FJC01S31		01-Jan-01	632487.7	6829869	3	17	21	154	0.1	27	6	182	1.39	2.5	7	19	0.05	2.5	3	17	1.83	0.12	13	8	0.97	181	0.01	0.61	0.02	0.03	2.5	1.5	1	2
FJC01S32		01-Jan-01	632220.5	6829678	7	20	86	152	0.3	31	9	860	2.4	2.5	7	20	0.05	2.5	7	19	2.1	0.1	12	7	1.09	249	0.01	0.44	0.02	0.04	2.5	1.5	1	1
FJC01S33		01-Jan-01	632116.5	6829658	8	21	93	248	0.6	40	10	1122	2.68	2.5	5	24	0.05	2.5	8	26	2.03	0.12	14	7	0.92	184	0.01	0.48	0.03	0.04	2.5	1.5	1	1
FJC01S34		01-Jan-01	632032.4	6829867	7	21	109	233	0.5	36	10	1137	2.68	2.5	8	28	0.05	5	7	24	2.93	0.13	14	9	1.47	210	0.01	0.55	0.02	0.04	2.5	1.5	1	1
FJC01S35		01-Jan-01	631905.5	6829957	7	20	94	268	0.4	31	9	790	2.47	2.5	10	28	0.05	2.5	7	26	2.42	0.12	15	8	1.15	210	0.01	0.54	0.02	0.04	2.5	1.5	1	1
FJC01S36		01-Jan-01	631800	6830057	6	17	75	280	0.4	26	8	1344	2.24	2.5	7	30	0.05	2.5	6	26	2.89	0.12	12	8	1.4	284	0.01	0.55	0.03	0.05	2.5	1.5	1	1
FJC01S37		01-Jan-01	631733.7	6830022	6	44	89	350	0.3	37	9	522	1.95	2.5	10	25	0.05	5	6	17	4.43	0.08	14	6	2.5	260	0.005	0.39	0.02	0.03	2.5	1.5	1	1
FJC01S38		01-Jan-01	631659.5	6830211	5	49	63	394	0.3	67	13	1846	2.33	2.5	8	26	1.2	2.5	5	19	2.53	0.1	14	7	1.38	385	0.01	0.59	0.02	0.03	2.5	1.5	1	1
FJC01S39		01-Jan-01	631551.5	6830341	5	41	77	602	0.3	90	13	1824	2.39	2.5	9	25	5.9	2.5	5	21	1.95	0.11	15	8	0.98	366	0.01	0.63	0.02	0.05	2.5	1.5	1	1
FJC01S40		01-Jan-01	631505.6	6830415	5	29	36	121	0.3	37	10	282	2.13	2.5	8	38	0.05	2.5	5	25	1.52	0.14	18	14	0.96	122	0.02	0.59	0.02	0.04	2.5	1.5	1	2
FJC01S41		01-Jan-01	631694.1	6830487	6	32	40	127	0.3	39	10	301	2.19	2.5	11	37	0.05	2.5	6	27	1.42	0.14	18	16	0.9	160	0.02	0.67	0.02	0.05	2.5	1.5	2	3
FJC01S42		01-Jan-01	631795.9	6830531	6	32	38	128	0.3	39	11	285	2.39	2.5	12	42	0.05	2.5	6	30	1.47	0.16	19	17	0.9	145	0.02	0.65	0.02	0.04	2.5	1.5	2	3
FJC01S43		01-Jan-01	631860.4	6830476	8	27	48	93	0.3	34	9	293	1.64	2.5	65	25	0.05	2.5	8	16	3.08	0.08	10	5	1.8	153	0.01	0.23	0.02	0.04	2.5	1.5	1	2
FJC01S44		01-Jan-01	632037.6	6830423	10	31	40	94	0.3	48	9	237	1.53	2.5	12	16																		

