



**REPORT ON THE 2003
GEOCHEMICAL AND GEOLOGICAL WORK
ON THE
HEN PROPERTY**

<u>Claim Name:</u>	<u>Grant No's.</u>
Hen 1-60	YC21990-YC22049
Hen 61-98	YC22253-YC22290
Hen 103-132	YC22291-YC22320
Hen 139-148	YC223321-YC22330
Hen 155 302	YC22331-YC22478

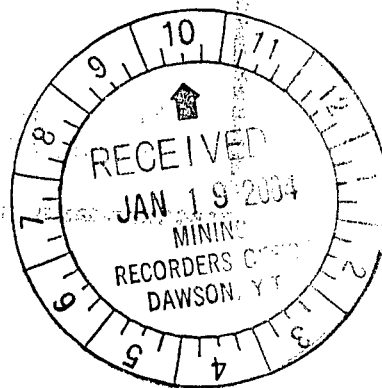
**DAWSON MINING DISTRICT, YUKON TERRITORY
NTS: 1150/06**

Latitude 63° 23'
Longitude 129° 25'

Work conducted:
June 29 – July 23, 2003

Owner and Operator:
Kennecott Canada Exploration Inc.
354-200 Granville Street
Vancouver, B.C.
V6C 1S4

Prepared by:
Roger Hulstein, B.Sc., P.Geo.



December 22, 2003

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 14,300

M. B. h
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

Costs associated with this report have been
approved in the amount of \$ 14,300
for assessment credit under Certificate of
Work No. A-2000473

[Signature]
for Mining Recorder
Dawson City Mining District

SUMMARY

The purpose of this report on the Hen property is to fulfill assessment requirements. The Hen property is located in west-central Yukon, covers an area of approximately 5950 hectares and is comprised of 285 Yukon two-post Quartz claims that are held under option by Kennecott Canada Exploration Inc. These claims are one of several noncontiguous claim blocks that together make up a larger land package, the Lucky Joe project. The ground is held under option from Copper Ridge Explorations Inc. who in turn optioned the ground from Yukon prospector Shawn Ryan.

The Lucky Joe mineral occurrence located approximately 15 km to the north hosts copper-gold mineralization spatially associated with amphibolite and an aeromagnetic high. The HEN property became a focus of exploration activity in 2002 when prospector Shawn Ryan following up on a recently released low level airborne geophysical survey recognized the potential for other copper-gold occurrences on strike with the Lucky Joe occurrence. The HEN property was staked to cover positive aeromagnetic anomalies and associated possible amphibolite units.

Paleozoic metamorphic rocks of the Yukon Tanana Terrane underlie the HEN property. Amphibolite pebbles found while soil sampling on northwesterly trending ridges represent an amphibolite unit(s) within more felsic schist or gneiss. Recent mapping by the Geological Survey of Canada shows the property to be surrounded predominantly by gray orthogneiss. A small body of marble is mapped on the central eastern side of the property.

Work in 2003 on the HEN property consisted of reconnaissance soil sampling, a total of 186 samples were collected on or adjacent to the property. No mineralization or alteration was noted on the property during the survey. Soil geochemistry results have low gold values (<12 ppb) on the property and the better values are not coincident with anomalous copper or molybdenum values. Results did yield one copper-molybdenum-lead-zinc anomaly over three consecutive soil samples, from one line, on the east central side of the property near the mapped marble unit. This anomaly requires follow-up. A possible hydrothermal system is indicated on the southern side of the property by the presence of widespread anomalous (>78 ppm) lead values and anomalous silver-bismuth-antimony values. However gold-copper values are low in this area.

The one coincident copper-molybdenum-lead-zinc anomaly on the northeast side of the property (centered on sample NA13886) requires follow-up. Additional soil geochemistry in the area is recommended.

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1.0 INTRODUCTION

This assessment report summarizes the geochemical work carried out on the HEN property located in the Dawson Mining District, Yukon Territory. The purpose of this report is to fulfill claim assessment requirements. A total of 285 contiguous two post Yukon Quartz claims comprise the property and make up the subject of this report. These claims together with other noncontiguous claim groups together make up the Lucky Joe Project. All the claims comprising the Lucky Joe Project were optioned by Kennecott Canada Exploration Inc. in 2003 from Copper Ridge Explorations Inc. who in turn had optioned them from Yukon prospector Shawn Ryan. The Lucky Joe Project is a bulk tonnage copper – gold target hosted by metamorphic rocks of the Yukon Tanana Terrane.

Kennecott in 2002 carried out a soil sample survey over and adjacent to an aeromagnetic high, covered by the Hen property, identified by the Geological Survey of Canada.

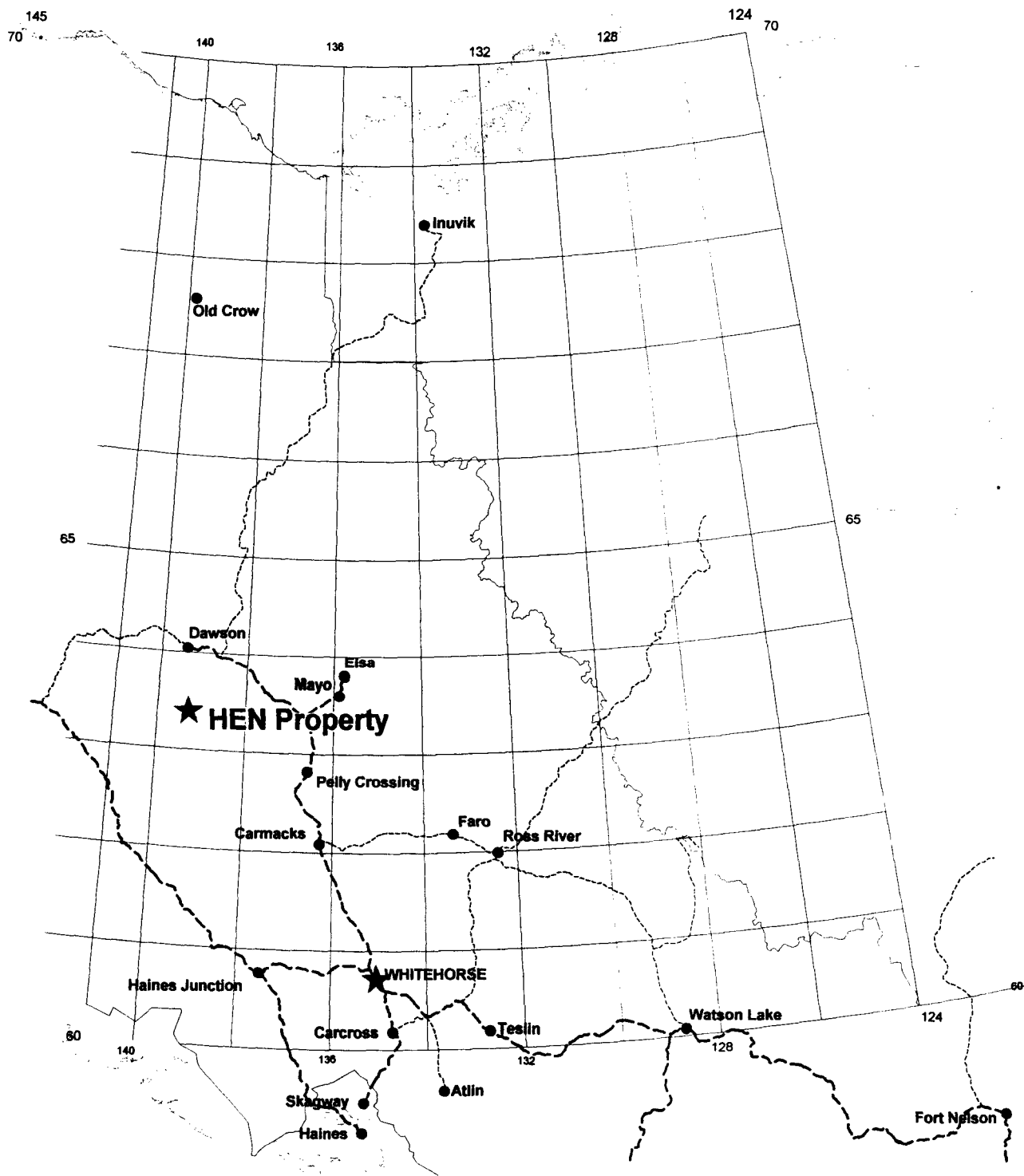
The information contained in the report is based on research and fieldwork conducted in 2003 by Kennecott personnel and contractors and on referenced sources.

1.1 Location and Access

The HEN property is located approximately 75 kilometres south of Dawson City in west central Yukon Territory, within the Dawson Mining District (Figure 1). The property covers a ridge located east of the Yukon River, straddling Henderson Creel and west of North Henderson Creek. The property is located on map sheet NTS 1150/6.

Access to the claims is by helicopter. Helicopters are based year round in Dawson City. The 2003 helicopter supported work was carried out from a road accessible camp on Quartz Creek, approximately 40 kilometres north-northeast of the property. Alternatively access can be gained by boat via the Yukon River and then by a road up Henderson Creek.

Daily plane and bus service can be gained in Dawson City to Whitehorse, where there is daily jet airplane service to Vancouver, British Columbia. Dawson City also has scheduled flights to Fairbanks, Alaska where jet service is available to the 'lower 48'.



 KENNECOTT CANADA EXPLORATION INC. VANCOUVER		
HEN PROPERTY LOCATION YUKON TERRITORY, CANADA		
Date: Nov. 15, 2003	Author: RH	Drawn By: P.L.
File: Lucky Joe	Scale: 1:7,000,000	Figure: 1

1.2 Topography, Vegetation and Climate

Topography in the region is typical of an incised peneplain with steep hillsides and rounded crests. The area was beyond the limits of the last two continental glacial events and evidence of glaciation in the region is a result of localized alpine glaciers. Alluvium in the valleys is locally derived. Hill slopes are covered with a veneer of colluvium also locally derived. Elevation ranges from 670 m in a valley on the east side to 1130 m atop the north trending ridge on the HEN 1-38 claims. Patches and large areas of permafrost can be found throughout the property, especially on north and west facing slopes.

Rock outcrop is restricted to ridges, small cliffs and creek bottoms. Outcrop exposure represents approximately 5 percent of the property. Soils consist of talus fines and colluvium. Colluvium veneer is the most common cover on the property, averages 1-2 m thick while colluvium blanket material averages >3 m thick. Colluvium conforms to bedrock topography and is composed of diamicton, rubble, and organic-rich silt and sand derived from bedrock sources by a variety of slope processes.

Vegetation in the valley bottoms consists of alder, dwarf birch, balsam fir, white and black spruce. Ground cover in areas of thin tree cover consists of alpine plants, 'buckbrush' (alder), dwarf willow and moss. Most of the vegetation was burnt in a forest fire within the last few years. The property is mostly below treeline at approximately 1200 m in the area although the ridge tops are covered with brush. Vegetation is generally more abundant on east and south facing slopes.

Low precipitation and a wide temperature range characterize climate. Winters are cold and temperatures of -30°C to -45°C are common. Summers are moderately cool with daily highs of 10°C to 25°C . Thunder showers are a common occurrence. Smoke from forest fires can be thick during the summer. The seasonal window for prospecting is from June to mid-late September.

1.3 History

There is no record of claims having been staked previously on what is now the HEN property. Two mineral occurrences (numbers 115O 008 and 115 009) located off the southwest and southeast side of the property were staked in the early 1900's, likely over quartz veins (Yukon Minfile, 2003). It is likely the area was explored as part of regional exploration programs in the 1970's when the Lucky Joe property, located 15 km to the north, was being actively explored.

In 2001 Yukon prospector Shawn Ryan, guided by a recent low level airborne aeromagnetic survey, conducted jointly by the Geological Survey of Canada and the Yukon Geology Program, staked 285 mineral claims that make up the HEN property. The property covers a positive aeromagnetic anomaly that represents possible extensions of the showings discovered and drilled on the nearby Lucky Joe property.

In 2001 Copper Ridge Explorations Inc. optioned the HEN property from Shawn Ryan. In January 2003 Kennecott Canada Exploration Inc. optioned the HEN property as part of a larger land package, the Lucky Joe Project, from Copper Ridge Explorations Inc.

1.4 2003 Kennecott Work Program

The 2003 work targeted possible strike extensions of magnetite bearing amphibolite, that show up as aeromagnetic highs (positive anomalies) on the aeromagnetic survey. Both the amphibolite and aeromagnetic highs are associated with copper mineralization in drill holes at the Lucky Joe mineral occurrence (Yukon Milfile, 2003) located approximately 15 kilometres north of the HEN property. To determine if copper-gold mineralization is present, ridge and spur soil traverses with nominal 200 m sample spacing was carried out as a first pass. A total of 186 soil samples were collected on or adjacent to the property.

Personnel who worked on the HEN property in 2003 included Kennecott geologists Russ Franklin, Ricardo Presnel and contract geologists Randy Boyer and Roger Hulstein. Russ Franklin, project geologist, managed the Lucky Joe project in 2003.

Data for all the samples were noted on standardized sample cards. Hand-held GPS receivers (Garmin 12XL's) were used to plot locations of samples and outcrops (approximate +/- 5m accuracy). Samples were shipped to ALS Chemex Labs Ltd. for analysis in Vancouver, B.C. The sample location, description and analytical results were entered and linked in an MS Access database and displayed in MAPINFO, a GIS program.

1.5 Claim Status

The HEN property covers an area of approximately 5950 hectares and consists of 285 unsurveyed, contiguous, two-post Yukon 'Quartz' claims which are held under option by Kennecott (Figure 2, in pocket) from Copper Ridge Explorations Inc. The claims were staked according to the Yukon Quartz Mining Act and are located in the Dawson Mining District. They are shown on claim sheets 115O-6 available for viewing at the Dawson Mining Records Office. The claims listed below (Table 1) are registered in the name of Kennecott Canada Exploration Inc.

Table 1. List of Claims

Claim Name	Grant Number	Expiry Date*
Hen 1-60	YC21990-YC22049	March 31, 2005
Hen 61-98	YC22253-YC22290	March 31, 2005
Hen 103-132	YC22291-YC22320	March 31, 2005
Hen 139-148	YC223321-YC22330	March 31, 2005
Hen 155 302	YC22331-YC22478	March 31, 2005

*Subject to this report being accepted as fulfilling assessment requirements.

2.0 REGIONAL GEOLOGY

The first geological investigation in the area of the Lucky Joe Property area was by H.S. Bostock starting in 1935 (Bostock, 1942). More recently the area around the property was mapped at 1:100,000 scale as part of a Geological Survey of Canada NATMAP project (Ryan et al, 2002). This is an ongoing project and a final GSC regional geology map is expected to be published in 2004.

Regionally the property lies between the Tintina and Denali Faults within the Ominica Belt (Wheeler and McFeely, 1991). They are found to the northeast and southwest of the property respectively, trend northwest and are major crustal-scale transcurrent dextral faults of Tertiary (?) age.

The area is underlain by the lithotectonic (pre-accretion) Yukon-Tanana Terrane (YTT) assemblage: a medium to high grade, polydeformed metasedimentary and meta-igneous rocks. The YTT is mainly Paleozoic in age and was juxtaposed by regional scale thrust faults in early Mesozoic time, a period of terrane accretion that affected much of the northern Cordillera.

More locally, the YTT consists of two main assemblages of supracrustal rocks, the Devonian-Mississippian Pelly Gneiss, orthogneiss, including granitic augen gneiss and lower YTT terrane rocks composed of Devonian and older quartz-rich rocks, amphibolite, mica schists and minor marble.

Jurassic and Cretaceous granitoid, predominantly quartz monzonite, bodies intrude the YTT and Mortenson (1996) noted that field relationships indicate that some were intruded prior to both Early (?) Jurassic regional thrust imbrication and Early Cretaceous normal faulting.

3.0 PROPERTY GEOLOGY

The northwest trending Hen property covers a series of ridges forming a height of land composed of foliated mid(?) - Late Paleozoic grey gneiss (unit 9) and amphibolite (unit 6) (Figure 3, in pocket). The amphibolite is described by Gordy and Ryan (2002) as an amphibolite schist and gneiss consisting of metabasite that is probably derived from mafic to intermediate volcanic or volcanoclastic rock. The amphibolite is locally associated with psammite or interlayered with orthogneiss. The grey orthogneiss, of intermediate to mafic composition, is generally grey, banded to layered, commonly veined and is believed to be derived from intermediate granitoid (tonalite to diorite) sheets that are commonly interlayered with amphibolite schist and gneiss (Gordy and Ryan, 2002).

A small body of marble (unit 5) was mapped at the junction of Henderson and North Henderson Creeks. This is described by Gordy and Ryan (2002) as; marble (metacarbonate) derived from pure to impure limestone with associated calcsilicate schist derived from calcareous metapelite.

Dominant lithologies determined from pebbles at soil sample sites are shown on Figure 3. The extent of the amphibolite unit(s) is restricted to one or two samples, rarely 3 contiguous samples. This may indicate a repeated amphibolite unit or a number of thin amphibolite units within more felsic schist and/or gneiss. The extent of the amphibolite is possibly greater than that observed while sampling as indicated by the corresponding aeromagnetic highs over the property.

3.1 Alteration and Mineralization

No significant alteration or mineralization was noted on the HEN property. Evidence of calc silicate alteration was observed in an interlayered felsic schist – marble unit (Unit 5) near the junction of Henderson and North Henderson Creeks.

4.0 GEOCHEMISTRY

Geochemical sample analysis was executed by ALS Chemex Labs Ltd. of North Vancouver, B.C. All soil samples were analyzed for gold using fire assay and atomic absorption techniques on a 30-gram sub-sample plus inductively coupled argon plasma (ICP) techniques for 32 additional elements. A more complete description of the analytical procedures is attached as Appendix B. Sample descriptions and analytical results are presented in Appendix C. Details on soil geochemistry statistics and quality control are presented in Appendix D. Sample numbers and locations are shown on Figures 4.

4.1 Soil Geochemistry

A total of 186 soil samples were collected in 2003 on or near the HEN property. Geochemical results for gold are presented on Figure 4, for copper on Figure 5, molybdenum on Figure 6, lead on Figure 7 and zinc on Figure 8.

Soil samples were collected on reconnaissance ridge and spur traverses with a nominal spacing of 200m. The widespread lines were designed to locate large, km scale, coherent anomalies (Au-Cu plus other elements) in an effort to delineate a hydrothermal system(s) capable of hosting a copper-gold deposit(s).

The positive areomagnetic anomaly was targeted and covered by crosscutting lines. All sample sites were marked with blue surveyors tape, metal tags and the location captured by GPS (average accuracy +/- 5m). The sampling medium consisted predominantly of soliflucted and reworked colluvium, talus fines and poorly developed 'B' horizon material. Permafrost was a hindrance, especially on north and west facing slopes. All samples were collected by soil augers and sample depth averaged approximately 40cm.

Percentile ranges were calculated for the entire Lucky Joe soil sample data set and are the percentiles used with the HEN property sample set. Sample descriptions for the Hen property soil samples are included as Appendix C. Duplicate samples were collected approximately every 20 samples and results from the entire Lucky Joe Project data set show that the values (for Au, Ag, Cu, Fe, Mo, Na, Pb, Zn) are repeatable although variation becomes more significant as detection limits are approached (see Appendix D).

Samples with anomalous gold values (>90th percentile) were returned from samples collected on and adjacent to the HEN property. Two of the highest gold values, 10 ppb and 12 ppb from samples NA13707 and NA13705 respectively, are located just southwest of Henderson Creek. These samples also contain anomalous arsenic, up to 34 ppm, silver, at 1.1 ppm is the highest silver value on the property and moderately anomalous lead at 66 ppm. Other elements of interest (Cu, Mo, Zn) are low. The highest gold value at 17 ppb is located off the northern end of the property and is not coincident with anomalous values for other elements of interest.

Anomalous copper values are located on the northeast side of the property and range up to 265 ppm (NA13886). This same sample and two adjacent samples also have anomalous concentrations of Mo (<15 ppm), Pb (<92 ppm) and Zn (<721 ppm). Collectively this is the most significant copper anomaly identified on the property. Based on dominant pebble lithologies noted during sampling, the area is thought to be underlain by shist and amphibolite. Another sample (NA14773) located on the northern end of the property, contains 166 ppm Cu and 357 ppm Zn.

A total of 38 samples contain anomalous lead values, defined at >78 ppm (>98th percentile). They are found in a number of places on the property (Figure 7) but increase in number and value towards the south. The highest (sample NA14636) at 536 ppm, found in the southern corner of the property, also has 0.9 ppm Ag and 4 ppm Bi. Aside from the anomalous samples described above, coincident with other anomalous elements, the highly anomalous lead samples are often coincident with elevated silver, antimony and bismuth values but little else. However the number of anomalous samples, given the low background value for lead (<23 ppm at 80th percentile) is likely indicative of a hydrothermal system on the southern portion of the property. This is reinforced by the fact that samples with anomalous antimony and bismuth values (not shown) clearly cluster on the southern end of the property.

5.0 GEOPHYSICS

A low-level airborne magnetic survey over the area, with a 500 m flight line spacing, was conducted jointly by the Geological Survey of Canada and the Yukon Geology Survey in 2000 (Shives et al., 2001). The aeromagnetics show the HEN property to be underlain by a northwesterly trending aeromagnetic high (Figure 8, in pocket). This is likely a reflection of amphibolite as indicated by pebbles found during soil sampling. Most of the anomalous values for gold, copper, molybdenum and zinc are found on the eastern flank of the aeromagnetic high. Anomalous lead values are generally found over the aeromagnetic highs. The aeromagnetics are a targeting tool which was first recognized and used at the Lucky Joe occurrence by prospector Shawn Ryan.

6.0 CONCLUSION AND RECOMMENDATIONS

The HEN property covers a northwesterly trending aeromagnetic high, likely due to amphibolite unit(s) within more felsic schist and gneiss, over a series of northwesterly trending ridges. Surrounding lithologies consist of grey orthogneiss. Reconnaissance soil sample lines on ridges and ridge spurs with a nominal sample spacing of 200 m were designed to cross cut the aeromagnetic anomaly, the amphibolite unit(s), to test for copper-gold mineralization on strike with the Lucky Joe occurrence, located approximately 15km to the north.

Results from the soil sample survey returned scattered anomalies (>90th percentile) for Au, Mo, Cu, Pb and As. Anomalous gold and copper values are not coincident. Coincident anomalous values for copper, molybdenum, lead and zinc were located in three samples (highest copper value in sample NA13886) on one soil sample line on the northeast central side of the property. This anomaly is on the flank of the positive magnetic (high) anomaly and is underlain by schist and amphibolite. On the southern side of the property a strong widespread lead-silver-antimony-bismuth, evidence of a possible hydrothermal system, was identified by the soil geochemical survey. Other geochemical soil anomalies for elements of interest (Au, Cu, Mo, Pb, Zn) are not coincident and collectively do not outline a prospective target.

No mineralization or alteration was found on the property in 2003.

The one coincident copper-molybdenum-lead-zinc anomaly on the northeast side of the property (sample NA13886) requires follow-up. Additional soil geochemistry in the area is recommended.

7.0 STATEMENT OF COSTS

The HEN property was part of a larger exploration project, the Lucky Joe Project, carried out by Kennecott in 2003. To determine the costs incurred on the HEN property in 2003 the total applicable costs were summed up and divided by the number of samples collected. The expenses incurred are tabled below and when divided by the number of samples each sample was deemed to have cost a total of \$144.

Assessment Work Valuation; HEN 1-38 Claims 2003 Lucky Joe Project Geological and Geochemical Work Program		
	Applicable Costs	
Geochemical Costs	\$74557.76	
helicopter	126105.00	
contract labour	121555.02	
KEX wages	186527.57	
OPPS support wages (post May)	36770.76	
Geology Expenses	6690.97	
Field Meals	17613.42	
Field Accom	1717.72	
Field supplies	40876.10	
Field Communications	23635.04	
Freight	8308.65	
Vehicle Expenses	6469.72	
Bulk Fuel	13036.22	
Health and Safety	2457.48	
Field Travel	286.04	
Travel Meals	1805.00	
Work meals	2268.09	
postage	81.60	
computer	112.11	
insurance	3738.00	
Rental	<u>10473.92</u>	
	\$685086.19	
<u>Subtract</u>		
-staking costs	11821.00	
-digger pit costs	44076.55	
-Lucky Joe 1-48 filing	3955.98	
-Lucky 1-12 and other LJ claims	<u>11773.11</u>	
	\$71626.64	
Total Applicable Costs		\$613459.55
4232 samples used in filing		\$144.96/ sample
*Derived from Detailed Expenses V015J for month ending Sept. 30, 2003.		

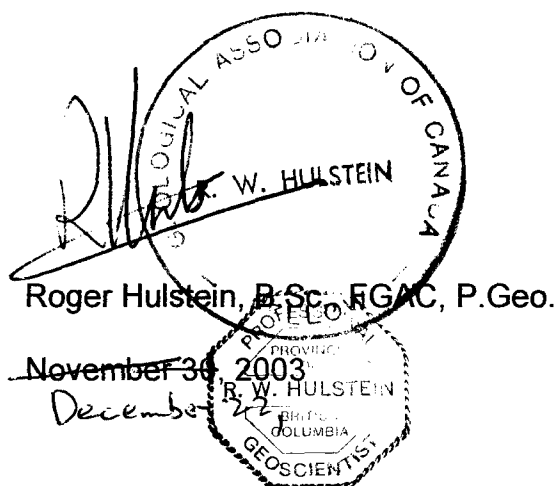
8.0 STATEMENT OF QUALIFICATIONS

I, Roger W. Hulstein, with business address:

Kennecott Canada Exploration Inc.
354-200 Granville Street
Vancouver, B.C.
V6C 1S4

and residential address in Whitehorse, Yukon Territory, do hereby certify that:

1. I am a geologist working under contract to Kennecott Canada Exploration Inc.
2. I am a graduate of Saint Mary's University, Halifax, with a degree in geology (B.Sc., 1981) and have been involved in geology and mineral exploration continuously since 1978.
3. I am a fellow of the Geological Association of Canada (F3572).
4. I am registered as a professional geoscientist (No. 19127) with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
5. I am the author of this report on the HEN Property located in the Dawson Mining District, Yukon. The report is based on personal examination of the ground on various dates in June and July, 2003, fieldwork carried out by personnel of Kennecott Canada Exploration Inc. and on referenced sources.



9.0 REFERENCES

- Bostock, H.S., 1942. Ogilvie, Yukon Territory; Geological Survey of Canada, Map 711A, scale 1:250,000.
- Gordy, S.P. and Ryan, J.J. 2003 Geology, Stewart River Area (Parts of 115N/1,2,7,8 and 115O/2-7,12), Yukon Territory; Geological Survey of Canada, Open File 1772, scale 1:100,000.
- Mortenson, J.K., 1996. Geological Compilation Maps of the Northern Stewart River Map Area, Klondike and Sixtymile Districts, 1:50,000 scale. Indian and Northern Affairs Canada, Northern Affairs: Yukon Region, Open File 1996-1G
- Ryan, J.J. and Gordy, S.P., 2002: Bedrock geology of Yukon-Tanana terrane in southern Stewart River map area, Yukon Territory: Geological Survey of Canada, Current Research 2002-A1, 11p.
- Shives, R.B.K., Carson, J.M., Ford, K.L., Holman P.B., Gordey, S.P., and Abbott, G., 2001. Airborne multisensor geophysical survey, Stewart River area, Yukon, Phase 1 (portable document format (PDF) files); Geological Survey of Canada, Open File GSC D4009 (*also* Yukon Geological Survey, Open File 2001-30D).
- Wheeler, J.O. and McFeely, P. 1991. Tectonic assemblage map of the Canadian Cordillera and adjacent parts of the United States of America; Geological Survey of Canada, Map 1712A, scale 1:20,000,000.
- Yukon Minfile, 2003. Yukon Geology Survey, Yukon, Canada.

Appendix A

Sample Code Abbreviations

SAMPLETYPE

Bleg	BG
Concentrate	PC
Drift - Core	DR
Drift - Cuttings	DT
Dmp - Bulk	DB
Dmp - Channel	DP
Dmp - Grab	DG
Dmp - Hi grade	DH
Float	FL
Gas	GS
Lake Sediment	LS
Other	OT
Rock	RK
Rk - Channel	CH
Rk - Chip	RC
Rk - Grab	RG
Rk - High Grade	RH
Soil	SL
Stream Sed	SS
Vegetation	VG
Water	WT

COUNTRIES

Australia	AUS
Canada	CAN
Costa Rica	COS
Honduras	HON
Jamaica	JAM
Mexico	MEX
Panama	PAN
United States	USA
Other	OTH

STATES-USA

Use postal code

STATES-MEX.

Aguascalientes	AG
Baja California	BC
Campeche	CA
Chiapas	CP
Chihuahua	CH
Coahuila	CO
Colima	CL
Distrito Federal	DF
Durango	DG
Guanajuato	GT
Guerrero	GR
Hidalgo	HG
Jalisco	JA
Mexico	MX
Michoacan	MI
Morelos	MO
Nayarit	NY
Nuevo Leon	NL
Oaxaca	OX
Puebla	PU
Queretaro	QQ
Quintana Roo	QR
San Luis Pot.	SL
Sinaloa	SI
Sonora	SO
Tabasco	TB
Tamaulipas	TA
Tlaxcala	TL
Veracruz	VR
Yucatan	YU
Zacatecas	ZA

COLOR

Black	BK
Blue	BL
Brown	BN
Buff	BF
Clear	CL
Gray	GY
Green	GN
Olive	OL
Orange	OR
Pink	PN
Purple	PP
Red	RD
Tan	TA
White	WT
Yellow	YW

PROVINCES

Alberta	AB
Brit. Columb.	BC
Manitoba	MB
New Bruns.	NB
Newfoundland	NF
N.W. Terr.	NT
Nova Scotia	NS
Ontario	ON
Prince Ed. Isl.	PE
Quebec	PO
Saskatchewan	SK
Yukon	YK

SIEVE

MESH	1
MESH	2
MESH	3
MESH	4
MESH	70
MESH (1000um)	18
MESH (106um)	140
MESH (1180um)	16
MESH (125um)	120
MESH (1400um)	14
MESH (150um)	100
MESH (1700um)	12
MESH (180um)	80
MESH (2000um)	10
MESH (2380um)	8
MESH (250um)	60
MESH (250um)	60
MESH (2830um)	7
MESH (3360um)	6
MESH (355um)	45
MESH (4000um)	5
MESH (425um)	40
MESH (44um)	325
MESH (50um)	35
MESH (53um)	270
MESH (600um)	30
MESH (63um)	230
MESH (710um)	25
MESH (75um)	200
MESH (850um)	20
MESH (90um)	170

COLOR MOD.

Same as color
includes O. quality.
O - Bright QB
O - Clear OC
O - Dark OD
O - Dull OU
O - Light OL
O - Medium QE

Age

Archean	ARC
Cambrian	CAM
Carboniferous	CAR
Cenozoic	CEN
Cretaceous	CRE
Devonian	DEV
Eocene	EOC
Jurassic	JUR
Mesozoic	MES
Miocene	MIO
Mississippian	MIS
Oligocene	OLI
Ordovician	ORD
Paleocene	PAE
Paleozoic	PAL
Pennsylvanian	PEN
Permian	PER
Pleistocene	PLE
Pliocene	PLI
Precambrian	PRC
Proterozoic	PRO
Quaternary	QUA
Recent	REC
Silurian	SIL
Tertiary	TER
Triassic	TRI

INTENSITY

Trace	T
Weak	W
Moderate	M
Strong	S

CLAY

MOISTURE

STR. GRAD.

High	H
Medium	M
Low	L

SS SAMPLE

Wet	W
Dry	D

DEPTH/DIST

Meters	M
Feet	F
Inches	I

MINERALS

Acanthite	ACA	Dickite	DIC	Neotrite	NEO	Topaz	TOP
Actinolite	ACT	Diopside	DIO	Nepheline	NPH	Torbernite	TOR
Adularia	ADU	Dolomite	DOL	Nicolite	NIC	Tourmaline	TOU
Albite	ALB	Electrum	ELE	Nickel bloom	NIB	Tremolite	TRE
Almandine	ALM	Enargite	ENA	Nickeline	NKL	Turoquoise	TUR
Alunite	ALU	Enstatite	ENS	Nontronite	NON	Uraninite	URA
Amphibole	AMP	Epidote	EPI	Olivine	OLI	Vanadinite	VAN
Anatase	ATS	Epsomite	EPS	Opal	OPL	Wavellite	WAV
Andalusite	AND	Erythrite	ERY	Orpiment	OPR	Witherite	WIT
Anglesite	AGL	Exot. Geoth.	EXG	Orthoclase	ORT	Wolframite	WOL
Anhydrite	ANH	Exot. Hemat.	XHM	Orthopyrox.	OPX	Wollastonite	WLL
Ankerite	ANK	Exot. Jaros.	EXJ	Other	OTH	Wulfenite	WUL
Anorthoclase	ANT	Famatinite	FAM	Oxides	OXD	Xenotime	XEN
Ant. ochre	ANO	Fayalite	FAY	Paragonite	PAG	Zeolite	ZEO
Antlerite	ATL	Feldspar	FEL	Pentlandite	PEN	Zinc oxide	ZNX
Apatite	APA	Fluorite	FLU	Phengite	PHE	Zircon	ZIR
Aragonite	ARA	Franklinite	FRN	Phlogopite	PHL	Zoisite	ZOI
Argentite	ARG	Fuchsite	FUC	Plagioclase	PLA	Zunyite	ZUN
Arsenic ochre	ARO	Galena	GAL	Polybasite	PBS		
Arsenopyrite	ARS	Garnet	GAR	Powellite	POW		
Atacamite	ATC	Gerardorfite	GER	Proustite	PRU		
Augite	AUG	Gibbsite	GIB	Psilomelane	PSI		
Aut. carnotite	AUC	Glaucophane	GAU	Pyrite	PYY		
Azurite	AZU	Goethite	GOE	Pyrochlore	PYC		
Barite	BAR	Gold	AUU	Pyrogyrite	PGY		
Beryl	BER	Graphite	GRA	Pyrolusite	PLU		
Biotite	BIO	Greenorite	GEE	Pyromorphite	PMO		
Bismuthinite	BIS	Gypsum	GYP	Pyrope	PYP		
Bohmite	BOE	Haematite	HEM	Pyrophyllite	PYP		
Bornite	BOR	Halite	HAL	Pyroxene	PYX		
Boulangerite	BOU	Hedenbergite	HED	Pyrrhotite	PYT		
Bournonite	BOU	Hornblende	HOR	Quartz	QTZ		
Brookite	BRO	Hubnerite	HUB	Realgar	REA		
Brucite	BRU	Hypersthene	HTH	Rhodochros.	RHO		
Bytownite	BYT	Idocrase	IDO	Rhodonite	RHD		
Calaverite	CAL	Ilkite	ILL	Ruby silver	RSI		
Calcite	CAL	Ilmenite	ILM	Rutile	RUT		
Carbon	CBN	Ivaite	ILV	Samarakite	SAM		
Carnalite	CRN	Iron oxide	FEX	Sandine	SAN		
Carnotite	CNT	Jamesonite	JAM	Scapolite	SCA		
Cassiterite	CAS	Jarosite	JAR	Scheelite	SCH		
Celestite	CEL	Johannsenite	JOH	Sericite	SEC		
Carargyrite	CAR	K-feldspar	KFE	Serpentine	SER		
Cerussite	CER	Kaolinite	KAO	Siderite	SID		
Chalcantite	CHT	Kyanite	KYA	Silica	SIL		
Chalcocite	CHC	Labradorite	LAB	Sillimanite	SLL		
Chalcocopyrite	CPY	Lazurite	LAZ	Silver	AGG		
Chlorite	CHL	Lead oxide	PBX	Silver halide	AGH		
Chondrodite	CHN	Leucite	LEU	Ag. sulfosalt	SSS		
Chromite	CHR	Limonite	LIM	Smaltite	SMA		
Chrysocolla	CCA	Magnetite	MGT	Smithsonite	SMS		
Cinnabar	CIN	Magnetite	MAG	Sodalite	SDA		
Clay	CLA	Malachite	MAL	Specularite	SPU		
Clinochryso.	CPX	Mang. oxide	MNX	Sphalerite	SPH		
Chlozoussite	CLZ	Margarite	MAR	Sphene	SPH		
Cobaltite	COB	Marble	MBL	Spinel	SPN		
Columbite	CLM	Marcasite	MAR	Staurolite	STA		
Copper	CUU	Marposite	MRP	Stibiconite	SBC		
Copper oxide	COX	Melanterite	MNT	Stibnite	STI		
Cordierite	CRD	Mercury	HGG	Stibite	STB		
Corundum	COR	Microcline	MIC	Strontianite	STT		
Covellite	COV	Millerite	MIL	Sulfide	SFD		
Cryolite	CRO	Molybdenite	MDL	Sulfur	SUL		
Crysoberyl	CRY	Moly. oxide	MDX	Sylvanite	SYV		
Crystoballite	CRY	Monazite	MNZ	Sylvite	SVT		
Cummingtonite	CMU	Montmorillonite	MOH	Talc	TAL		
Cuprite	CUP	Muscovite	MUS	Tellurides	TEL		
Diamond	DIA	Natrolite	NAT	Tennantite	TEN		
Diopside	DSP	Naumannite	NAU	Tenonite	TRT		
				Tetrahedrite	TET		

MIN. OCCUR.

Bedded	BED
Crystalline	XLN
Disseminated	DIS
Groundmass	GRM
Massive	MAS
Phenocryst	PHN
Porphyroblast	PRB
Porphyroblast	PRC
Pseudomorph	PSU
Replacement	REP
Stockwork	STK
Str. Ctl. - Fault	STT
Str. Ctl. - Frac.	STF
Str. Ctl. - Other	STO
Vein	VEN

ROCK TYPE

Agglomerate	AGG	Laterite	LTR
Alaskite	ALK	Lignite	LAT
Albite	ALB	Limestone	LST
Alluvium	ALV	Limonite	LIM
Amphibolite	AMP	Loess	LOS
Andesite	AND	Mafic	MAF
Ankerite	ANK	Marble	MRB
Anorthosite	ANO	Marl	MRL
Anthracite	ANT	Mass. Sulf.	MSF
Aphite	APL	Metachert	MTC
Arenite	ARE	Meta Sed.	MTS
Argillite	ARG	Meta Volc.	MTV
Arkose	ARK	Micrite	MIC
Banded Iron Fm	BIF	Migmatite	MIG
Basalt	BAS	Monzonite	MNZ
Bauxite	BAU	Mud	MUD
Bentonite	BEN	Mudstone	MDS
Boundstone	BST	Mylonite	MYL
Braccia	BXX	Neph. Syen.	NSY
Bx - Collapse	BXC	Norite	NOR
Bx - Hydroth.	BXH	Outwash	OTW
Bx - Intrusive	BXV	Packstone	PKS
Bx - Sed.	BXN	Pegmatite	PGM
Bx - Sin	BLX	Pelite	PEL
Bx - Tectonic	BXT	Peridotite	PER
Calcite	CLT	Perlite	PRL
Caliche	CAL	Phonolite	PHN
Carbonate	CBT	Phyllite	PHY
Cataclasite	CAT	Porphyry	POR
Chalk	CHK	Pumice	PUM
Chart	CHT	Pyroxenite	PXX
Clay	CLY	Quartz	QTZ
Claystone	CLS	Quartz Latite	QLT
Coal	COL	Qtz Monzonite	QMZ
Colluvium	CLV	Quartzite	QZT
Conglomerate	CNG	Rhyodacite	RYD
Coquina	COQ	Rhyolite	RHY
Dacite	DAC	Sand	SAD
Diabase	DIA	Sand & Grav.	S&G
Diatomaceous	DIE	Sandstone	SST
Diorite	DIO	Saprolite	SAP
Dolomite	DOL	Schist	SCH
Dunite	DUN	Schist - Calc	SHC
Eclogite	ECL	Serpentinite	SRP
Evaporite	EXP	Shale	SHL
Exhalite	EXH	Shonkita	SHK
Ferricrete	FEC	Shoshonite	SHS
Gabbro	GAB	Siderite	SID
Gneiss	GNE	Siltstone	SLT
Gossan	GOS	Sinter	SNT
Gouge	GOU	Skarn	SKR
Granite	GRA	Slate	SLA
Granodiorite	GRD	Stockwork	SVK
Granophyre	GRP	Syenite	SYE
Granulite	GRL	Syenodiorite	SYD
Gravel	GRV	Terrace gravels	TRG
Graywacke	GWK	Tholite	THL
Greenstone	GRS	Till	TIL
Hornblende	HBT	Tonolite	TON
Hornfels	HNF	Trachyand.	TRA
Ignimbrite	IGN	Trachybas.	TRB
Iron fm	IFM	Trachyte	TRY
Jasperoid	JAP	Travertine	TRT
Karatophyre	KER	Tuff	TUF
Kimberlite	KIM	Ultramafic	ULM
Komatite	KOM	Vein	VEN
Lahar	LAH	Volcaniclastic	VLC
Lamproite	LMP	Wackestone	WAK
Lamprophyre	LAM		

ALTERATION

Actinolite	ACT	Tertiary	TER
Adv. Argillic	AVA	Tourmaline	TOU
Albitic	ALB	Tremolite	TRE
Amphibole	AMP	Unaltered	UNA
Argillic	ARG	Weathered	WEA
Barite	BAR	Wollastonite	WLL
Bauxite	BAU	Zeolithic	ZEO
Biotite	BIO	Zeolitization	ZEO
Bleached	BLE		
Calc-silicate	CSI		
Carbonatization	CAR		
Chloritic	CHL		
Decalcified	DEC		
Depleted	DPL		
Dissolution	DSS		
Dolomitization	DOL		
Endoskarn	ENS		
Enriched	ENR		
Epidote	EPI		
Epithermal	EPT		
Exoskarn	EXS		
Garnet	GAR		
Greenschist fac.	GSS		
Greisen	GRE		
Hornfelsed	HFD		
Hydrothermal	HYD		
Hypogene	HYP		
Idocrase	IDO		
Iron Oxide	FOX		
K-spar	KSP		
Kaolinitization	KAO		
Leached	LEA		
Magnetite	MAG		
Mn-oxide	MNX		
Muscovite	MUS		
Opalization	OPL		
Other	OTH		
Oxidation	OXI		
Phylic	PHY		
Potassic	POT		
Primary	PRI		
Prograde	PRO		
Propylitic	PRP		
Pyritization	PYR		
Pyroxene	PYX		
Pyrrhotite	PYT		
Quartz	QTZ		
Qtz-Kspar	OKS		
Qtz-Tourmaline	OTO		
Qtz-carbonate	OCA		
Qtz-chlor-Ser.	OCS		
Qtz-clay	OCL		
Qtz-sericite	OSE		
Reduced	RED		
Retrograde	RTR		
Sanded	SND		
Saundersitic	SAU		
Secondary	SEC		
Sericite	SER		
Serpentine	SER		
Serpentinized	SRZ		
Siderite	SID		
Si-carbonate	SCA		
Silicification	SLC		
Skarn	SKR		
Solution	SLN		
Splitic	SPL		
Sulfide	SFD		
Supergene	SUP		
Talc	TAL		

STRUCTURE

Boxwork	BOX
Bx - Collapse	BXC
Bx - Hydroth.	BXY
Bx - Phreatic	BXH
Bx - Pipe	BXP
Bx - Sed	BXS
Bx - Tectonic	BXT
Clearance	CLE
Contact	CON
Fault	FLT
Fit-Normal	FLN
Fit-Oblique	FLO
Fit-Reverse	FLR
Fit-Strike slip	FSS
Fit-Thrust	FTH
Fiamme	FIA
Flow banded	FLB
Fid-Antiform	FOA
Fid-Synform	FOS
Folded	FLD
Foliation	FOL
Fit-wall-Ore	FWO
Fit-wall-Strux	FWS
Fit-wall-Vein	FWV
Fractured	FRA
Hing wall-Ore	HWO
Hing wall-Strux	HWS
Hing wall-Vein	HWV
Joints	JOI
Jts-Blocky	JBL
Jts-Columnar	JCO
Jts-platy	JPL
Lamination	LIN
Other	OTH
Sheared	SHD
Soft Sed. Def.	SSD
Sin Structures	SUS
Stockwork	STK
Vein	VEN
Void Filling	VFL

ROCK MODIFIERS

Actinolite	ACT	Cist-Well art	WEL	Ign-Devitrified	IDV	Porphyritic	POR
Agglomerate	AGG	Cist-Angular	CAN	Ign-Flow band.	IFB	Pnehn-Pump.	PPF
Air fall	TAR	Cist-Bio.	CBI	Ign-Intrus.	IIN	Pumiceous	PUM
Alaskite	ALK	Cist-Mixed	CLM	Ign-Pegmat.	IPG	Pyrite	PYY
Alb-Epi-Hornf.	AEH	Cist-Round	ROC	Ign-Plug	PLG	Pyroclastic	PRC
Albite	ALB	Clay	CLA	Ign-Pluton	IPL	Pyrophyllite	PYP
Algal Strux	ALS	Clay	CLY	Ign-Porph.	IPO	Pyroxene	PYX
Amphibole	AMP	Clay pebbles	CLP	Ign-Ultrabas.	ULB	Quartz	QTZ
Amphibolite	AMT	Coal	COL	Ignimbrite	IGN	Quartzose	QTS
Amphb. facies	AMF	Cobbly	COB	Intrusive - Sil	ISL	Re-xtal	REC
Andalusite	ANU	Colluvium	CLV	Jasperoid	JAP	Repl.	REP
Andesite	AND	Columnar	CLN	Jointed	JOI	Rhyodacite	RYD
Anorthosite	ANO	Concretions	CNC	K-feldspar	KFE	Rhyolite	RHY
Anthracite	ANT	Conglomeratic	CNG	Karat	KAR	Ripple marks	RIM
Apatite	APA	Coquina	COQ	Karatophyre	KER	Rutile	RUT
Aphanitic	APH	Corundum	COR	Kimberite	KIM	Sand & Grav.	S&G
Aplitic	APL	Crystalline	CRY	Komatite	KOM	Sandstone	SST
Arenite	ARE	Dacite	DAC	Kyanite	KYA	Sandy	SDY
Argillaceous	ARG	Diabase	DIA	Lahar	LAH	Sandine	SAN
Arkosic	ARK	Dike	DIK	Laminated	LAM	Schistose	SCH
Ash flow	TAF	Diopside	DIO	Lam.-Conv.	LCN	Scoriaceous	SCO
Augite	AUG	Diorite	DIR	Lam.-Parall.	LLP	Scoured	SCS
Balls & Pillows	BAP	Dolomite	DOL	Lamprolite	LMP	Sericite	SEC
Banded	BAN	Dunite	DUN	Lamprophyre	LPH	Serpentine	SER
Basalt	BAS	Eclogite	ECF	Latite	LAT	Serpentinized	SHP
Bedded	BED	Epidote	EPI	Leached	LEA	Shaly	SHA
Bd-cross	BCR	Epi-Amph.	EAF	Lignite	LIG	Sheared	SHD
Bd-Epsilon	BCB	Evaporite	EVP	Limestone	LST	Silica	SIL
Bd-Flaser	BFL	Exhalative	EXH	Lined	LIN	Siliceous	SLS
Bd-Graded	BGR	Extr.-Flow	FLO	Lithic	TLI	Silimanite	SLI
Bd-Lentic	BLN	Extr.-Pillow	PLI	Lithographic	LTH	Silty	SLT
Bd-Massive	BMV	Extr.-Trachy.	TRA	Mafic	MAF	Sinter	SNT
Bd-Med.	BME	Feldspar	FLO	Magnetite	MAG	Soft-sed. def.	SSD
Bd-Parallel	BEP	Feldspathic	FEL	Marble	MRB	Sol'n Struc.	SOS
Bd-Planar	BLL	Ferruginous	FER	Mariposite	MRP	Sorted	SOR
Bd-Thick	BTH	Flame str.	FLS	Mass. Sulf.	MSF	Sparry	SPA
Bd-Thin	BTN	Fluidized	FLU	Megacrystic	MEG	Spherulitic	SPR
Bd-Wavy	WAB	Flute casts	FLC	Metamorph.	MET	Staurolite	STA
Bentonite	BEN	Fossiliferous	FOS	Micaceous	MIC	Stibite	STB
Bimodal	BIM	Friable	FRI	Micaceous	MIC	Stockwork	STO
Biotite	BIO	Fuchsite	FUC	Micritic	MCR	Syenite	SYE
Boturbated	BIT	Gabbro	GAB	Migmatitic	MIG	Talc	TAL
Blocky	BLK	Garnet	GAR	Milky	MIL	Tephra	TEP
Bouldery	BOY	Glassy	GLA	Monzonite	MNZ	Tholeitic	THL
Braccia	BXX	Glauc-schist	GSF	Mud	MUD	Till	TIL
Bx - Collapse	BXC	Gneissose	GNE	Muscovite	MUS	Topaz	TOP
Bx - Hydroth.	BXH	Goossanous	GOS	Mylonite	MYL	Tourmaline	TOU
Bx - Intrusive	BXV	Gouge	GOU	Norite	NOR	Trachyte	TRY
Bx - Sed.	BXN	Grn-Coarse	GNC	Obsidian	OJ	Travertine	TRT
Bx - Soln	BLX	Grn-Equigran.	GEQ	Oolitic	OOL	Tremolite	TRE
Bx - Tectonic	BXT	Grn-Fine	GNF	Opal	OPL	Tufa	TFA
Braccia Pipe	BXP	Grn-Med.	GRM	Orthoclase	ORT	Tuff	TUF
Bracciated	BRX	Granite	GNT	Other	OTH	Tuffaceous	TFC
Burrowed	BUR	Granodiorite	GRD	Outwash	OTW	Ultramafic	ULM
Bytownite	BYT	Granophyre	GRP	Oxidized	OXI	Unwelded	TNW
Calcareous	CLC	Granulite	GRF	Packstone	PKS	Vein	VEI
Calcite	CAL	Graphite	GRA	Pebbly	PBB	Veined	VND
Calcite	CLT	Graphitic	GRA	Pegmatite	PGM	Vent	VNT
Caliche	CLH	Gravel	GRV	Pelletoid	PLD	Vitric	TVI
Carbon	CBN	Graywacke	GWK	Pelite	PEL	Volcanic	VOL
Carbonate	CBT	Greenschist	GSS	Peridotite	PER	Volc. Classic	VCL
Cataclasite	CAT	Greenstone	GRS	Perlite	PRL	Vuggy	VUG
Channels	CHA	Haematite	HEM	Phlogopite	PHL	Water laid	TWL
Cherty	CHE	Hornblende	HOR	Phonolite	PHN	Welded	WLD
Chlorite	CHL	Hornfelsed	HFD	Phreatic Mag.	PHM	Wollastonite	WLL
Chnder	CIN	Hrnbld-hrnfils	HHF	Phykitic	PHY	Zeolite	ZEO
Cist - Cist sup.	CCL	Hydrothermal	HYD	Plagioclase	PLA	Zeolite facies	ZEF
Cist - Met. sup.	MSU	Idocrase	IDO	Platy	PTY	Zircon	ZIR
Cist - Poor art	CPS	Ign.-Acid	IAD	Polymictic	PLM		
Cist - Unart	UNS	Ign.-Basic	IBA	Porcelain.	PCL		

Appendix B

Analytical Procedures

SOIL SAMPLES

Sample Preparation Package – SCR-41F

Dry sample and dry-sieve to -75 micron

Sample is dried and then dry-sieved using a 75 micron (200 mesh) screen. The plus fraction is retained unless disposal is requested. This method is appropriate for soil or sediment samples up to one kilogram in weight.

ALS Chemex Method Code	Description
SCR-41F	Sample is dry-sieved to -75 micron.

Fire Assay Procedure - Au-ICP21 and Au-ICP22 Fire Assay Fusion ICP-AES Finish

Sample Decomposition: Fire Assay Fusion

Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectrometry (ICP-AES)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 ml dilute nitric acid in the microwave oven. 0.5 ml concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 ml with de-mineralized water, and analyzed by inductively coupled plasma atomic emission spectrometry against matrix-matched standards.

ALS Chemex Method Code	Element	Symbol	Sample Weight	Detection Limit	Upper Limit	Units
Au-ICP21	Gold	Au	30g	0.001	10	ppm
Au-ICP22	Gold	Au	50g	0.001	10	ppm

Geochemical Procedure - ME-ICP41 **Trace Level Methods Using Conventional ICP-AES Analysis**

Sample Decomposition: Nitric Aqua Regia Digestion

Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (0.50 grams) is digested with aqua regia for at least one hour in a graphite heating block. After cooling, the resulting solution is diluted to 12.5 ml with demineralized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

Element	Symbol	Detection Limit	Upper Limit	Units
Aluminum*	Al	0.01	15	%
Antimony	Sb	2	10,000	ppm
Arsenic	As	2	10,000	ppm
Barium*	Ba	10	10,000	ppm
Beryllium*	Be	0.5	100	ppm
Bismuth	Bi	2	10,000	ppm
Boron*	B	10	10,000 ppm	ppm
Cadmium	Cd	0.5	500	ppm
Calcium*	Ca	0.01	15	%
Chromium*	Cr	1	10,000	ppm
Cobalt	Co	1	10,000	ppm
Copper	Cu	1	10,000	ppm
Gallium*	Ga	10	10,000	ppm
Iron	Fe	0.01	15	%
Lanthanum*	La	10	10,000	ppm
Lead	Pb	2	10,000	ppm
Magnesium*	Mg	0.01	15	%
Manganese	Mn	5	10,000	ppm
Mercury	Hg	1	10,000	ppm
Molybdenum	Mo	1	10,000	ppm

Geochemical Procedure - ME-ICP41
Trace Level Methods Using Conventional ICP-AES Analysis (con't)

Element	Symbol	Detection Limit	Upper Limit	Units
Nickel	Ni	1	10,000	ppm
Phosphorus	P	10	10,000	ppm
Potassium*	K	0.01	10	%
Scandium*	Sc	1	10,000	ppm
Silver	Ag	0.2	100	ppm
Sodium*	Na	0.01	10 %	%
Strontium*	Sr	1	10,000	ppm
Sulfur	S	0.01	10	%
Thallium*	Tl	10	10,000	ppm
Titanium*	Ti	0.01	10	%
Tungsten*	W	10	10,000	ppm
Uranium	U	10	10,000	ppm
Vanadium	V	1	10,000	ppm
Zinc	Zn	2	10,000	ppm

*Elements for which the digestion is possibly incomplete.

Appendix C

Soil Sample Descriptions and Analytical Results

Kennecott Canada Exploration Inc.
Hen Property, Lucky Joe Project, Yukon Territory
2003 Soil Sample, Locations, Descriptions and Analytical Results

Sample Number	UTM East	UTM North	Datum	Geologist Name	Sample Date YR/MN/DY	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
NA13681	582548	7031354	NAD83,Z7	BOYER	20030629	6	-0.2	2.04	7	-10	300	-0.5	-2	0.45	-0.5	13	29	32	2.97	10	-1	0.22
NA13682	582339	7031360	NAD83,Z7	BOYER	20030629	2	-0.2	2.13	5	-10	190	-0.5	-2	0.28	-0.5	13	23	17	3.44	10	-1	0.54
NA13683	582136	7031408.82	NAD83,Z7	BOYER	20030629	2	-0.2	2.36	6	-10	180	-0.5	-2	0.3	-0.5	14	22	21	3.76	10	-1	0.67
NA13667	580835	7030118	NAD83,Z7	BOYER	20030629	2	-0.2	2.54	15	-10	290	-0.5	-2	0.24	-0.5	15	26	44	4.37	10	1	0.2
NA13668	580999	7030254	NAD83,Z7	BOYER	20030629	4	-0.2	2.54	10	-10	240	0.7	-2	0.2	-0.5	14	42	40	3.86	10	-1	0.26
NA13669	581194	7030227	NAD83,Z7	BOYER	20030629	1	-0.2	1.75	4	-10	310	-0.5	-2	0.31	-0.5	13	39	30	2.91	10	-1	0.12
NA13670	581392	7030293	NAD83,Z7	BOYER	20030629	3	-0.2	2.45	9	-10	200	-0.5	-2	0.21	-0.5	13	44	58	3.4	10	-1	0.1
NA13671	581610	7030294	NAD83,Z7	BOYER	20030629	1	-0.2	2.13	5	-10	260	-0.5	-2	0.18	-0.5	11	25	14	3.04	10	-1	0.14
NA13672	581790	7030378	NAD83,Z7	BOYER	20030629	3	-0.2	2.16	4	-10	180	-0.5	-2	0.37	-0.5	13	23	17	3.28	10	-1	0.36
NA13673	581976	7030460	NAD83,Z7	BOYER	20030629	5	-0.2	1.48	6	-10	190	-0.5	-2	0.34	-0.5	9	26	23	2.35	-10	-1	0.09
NA13674	582138	7030583	NAD83,Z7	BOYER	20030629	7	-0.2	2.17	8	-10	280	0.5	-2	0.21	-0.5	12	39	26	3.22	10	-1	0.11
NA13675	582350	7030627	NAD83,Z7	BOYER	20030629	-1	-0.2	2.14	6	-10	300	-0.5	-2	0.27	-0.5	13	23	16	3.3	10	-1	0.29
NA13676	582520	7030532	NAD83,Z7	BOYER	20030629	2	-0.2	1.99	8	-10	350	-0.5	-2	0.25	-0.5	13	30	20	3.11	10	-1	0.2
NA13677	582701	7030455	NAD83,Z7	BOYER	20030629	1	-0.2	2.25	8	-10	230	-0.5	-2	0.25	-0.5	13	27	19	3.56	10	-1	0.42
NA13678	582865	7030481	NAD83,Z7	BOYER	20030629	3	-0.2	2.31	6	-10	280	-0.5	-2	0.53	-0.5	14	24	58	3.49	10	-1	0.38
NA13679	582971	7030637	NAD83,Z7	BOYER	20030629	2	-0.2	1.95	4	-10	210	-0.5	-2	0.52	-0.5	12	21	26	2.87	10	-1	0.4
NA13680	582756	7031307	NAD83,Z7	BOYER	20030629	2	-0.2	2.31	4	-10	200	-0.5	-2	0.3	-0.5	11	22	10	2.96	10	-1	0.1
NA13638	577890	7029917	NAD83,Z7	PRESNELL	20030629	1	-0.2	3.26	3	-10	250	0.7	-2	0.28	-0.5	15	51	29	4.64	10	-1	1.2
NA13639	578084	7030033	NAD83,Z7	PRESNELL	20030629	1	-0.2	1.86	7	-10	230	-0.5	-2	0.17	-0.5	10	26	14	2.91	10	-1	0.07
NA13640	578280	7030062	NAD83,Z7	PRESNELL	20030629	9	-0.2	2.04	10	-10	200	-0.5	-2	0.16	-0.5	10	33	20	3.24	10	-1	0.08
NA13841	578568	7030069	NAD83,Z7	PRESNELL	20030629	1	-0.2	2.91	3	-10	370	0.5	-2	0.42	-0.5	19	37	22	4.92	10	-1	0.63
NA13842	578652	7030275	NAD83,Z7	PRESNELL	20030629	4	-0.2	1.74	9	-10	140	0.5	-2	0.13	-0.5	9	31	21	3.01	10	-1	0.07
NA13843	578697	7030497	NAD83,Z7	PRESNELL	20030629	1	-0.2	1.78	7	-10	180	-0.5	-2	0.2	-0.5	10	18	12	3.12	10	-1	0.19
NA13844	578811	7030661	NAD83,Z7	PRESNELL	20030629	4	-0.2	2.16	8	-10	200	-0.5	-2	0.23	-0.5	13	40	31	3.23	10	-1	0.05
NA13845	578913	7030821	NAD83,Z7	PRESNELL	20030629	4	-0.2	2.38	10	-10	220	-0.5	-2	0.15	-0.5	12	35	18	3.24	10	-1	0.06
NA13846	578989	7031025	NAD83,Z7	PRESNELL	20030629	-1	-0.2	2.07	7	-10	170	-0.5	-2	0.38	-0.5	12	31	16	3.25	10	-1	0.06
NA13847	577739	7029769	NAD83,Z7	PRESNELL	20030629	4	-0.2	1.24	7	-10	230	-0.5	-2	0.45	-0.5	9	30	23	2.54	-10	-1	0.14
NA13848	577481	7029785	NAD83,Z7	PRESNELL	20030629	2	0.6	2.78	2	-10	1020	-0.5	-2	0.43	-0.5	13	12	66	5.27	10	-1	0.62
NA13849	577286	7029552	NAD83,Z7	PRESNELL	20030629	1	-0.2	1.56	8	-10	330	-0.5	-2	0.23	-0.5	9	30	21	3.89	10	-1	0.27
NA13869	579602	7027018	NAD83,Z7	HULSTEIN	20030629	-1	0.2	2.81	6	-10	280	0.7	-2	0.82	-0.5	20	56	41	4.19	10	-1	0.11
NA13870	579648	7027217	NAD83,Z7	HULSTEIN	20030629	1	0.6	3.14	-2	-10	400	1	-2	1.15	-0.5	22	41	61	4.42	10	1	0.08
NA13871	579739	7027396	NAD83,Z7	HULSTEIN	20030629	1	-0.2	3.18	10	-10	880	0.7	-2	0.63	-0.5	12	8	101	7.34	10	-1	0.1
NA13872	579855	7027566	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	5.21	-2	-10	1210	1.2	-2	0.83	-0.5	18	33	113	7.75	20	1	1.77
NA13873	579952	7027747	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	3.45	2	-10	400	0.6	-2	1.04	-0.5	17	74	49	5.41	20	2	0.89

Sample Number	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics
NA13681	10	0.77	403	1	0.02	22	440	12	0.01	-2	5	39	0.13	-10	-10	66	-10	61	BN	QE	0.5	M	3
NA13682	10	0.95	411	1	0.01	15	290	25	0.01	2	3	29	0.17	-10	-10	77	-10	65	BN	QE	0.3	M	2
NA13683	20	1.08	478	1	0.01	13	330	28	0.01	-2	4	33	0.19	-10	-10	84	-10	70			0		
NA13667	10	0.79	549	1	0.02	19	480	15	0.01	-2	7	24	0.1	-10	-10	108	-10	111	BN	QD	0.4	M	3
NA13668	30	0.7	298	2	0.01	32	460	29	0.01	-2	4	19	0.1	-10	-10	71	-10	77	BN	QL	0.3	M	3
NA13669	10	0.79	556	2	0.01	21	470	19	0.01	-2	5	21	0.15	-10	-10	75	-10	55	BN	QD	0.3	M	5
NA13670	10	0.77	289	1	0.01	29	250	13	0.01	-2	5	21	0.12	-10	-10	81	-10	52	BN	QE	0.3	M	5
NA13671	10	0.64	325	1	0.01	15	300	13	0.01	-2	2	22	0.11	-10	-10	71	-10	57	BN	QE	0.15	M	15
NA13672	20	0.93	349	1	0.01	14	260	19	-0.01	-2	4	32	0.15	-10	-10	79	-10	51	BN	QD	0.3	M	5
NA13673	20	0.59	197	1	0.01	18	560	10	-0.01	-2	4	26	0.09	-10	-10	52	-10	41	BN	QL	0.4	M	3
NA13674	20	0.58	279	1	0.01	22	230	12	-0.01	-2	6	24	0.1	-10	-10	64	-10	50	BN	QL	0.3	M	5
NA13675	10	0.85	362	-1	0.01	14	290	9	0.01	-2	5	29	0.11	-10	-10	76	-10	60	BN	QE	0.3	M	5
NA13676	10	0.64	309	1	0.01	17	230	12	0.01	-2	4	25	0.1	-10	-10	66	-10	71	BN	QE	0.3	M	5
NA13677	10	0.89	374	1	0.01	16	280	17	0.01	2	5	29	0.14	-10	-10	80	-10	66	BN	QE	0.4	M	5
NA13678	20	1.07	416	4	0.02	15	350	11	0.01	-2	6	137	0.13	-10	-10	79	-10	58	BN	QE	0.6	M	3
NA13679	20	0.83	301	2	0.02	13	650	12	0.01	-2	4	44	0.14	-10	-10	63	-10	60	GY	QE	0.5	M	5
NA13680	10	0.62	347	1	0.01	14	240	12	0.01	-2	3	34	0.1	-10	-10	64	-10	62	BN	QE	0.3	M	5
NA13838	90	1.27	350	-1	0.02	39	660	14	-0.01	2	8	84	0.28	-10	-10	58	-10	94	BN	QE	1.5	F	3
NA13839	10	0.48	361	-1	0.01	16	240	7	0.01	2	3	18	0.1	-10	-10	63	-10	136	BN	QE	8	I	8
NA13840	10	0.52	398	-1	0.01	20	320	12	0.01	-2	4	17	0.1	-10	-10	64	-10	60	TA	QD	11	I	2
NA13841	10	1.63	974	-1	0.04	15	180	106	0.01	-2	21	85	0.17	-10	-10	117	-10	267	BN	QL	7	I	5
NA13842	30	0.45	217	-1	0.01	18	120	10	-0.01	-2	6	25	0.08	-10	-10	49	-10	56	TA	QL	1.5	F	2
NA13843	10	0.59	722	-1	0.01	10	380	5	0.01	-2	4	20	0.12	-10	-10	64	-10	55	BN	QE	1	F	3
NA13844	20	0.62	260	-1	0.01	23	220	6	-0.01	2	5	25	0.11	-10	-10	70	-10	55	GY	QE	10	I	3
NA13845	10	0.54	287	-1	0.01	24	290	13	0.01	-2	3	16	0.1	-10	-10	70	-10	58	BN	QL	1	F	3
NA13846	10	0.71	367	-1	0.02	19	560	5	0.01	2	5	19	0.12	-10	-10	85	-10	49	OL		8	I	3
NA13847	10	0.58	233	-1	0.02	25	640	8	0.01	-2	4	40	0.11	-10	-10	62	-10	56	BN	QE	6	I	3
NA13848	10	1.02	385	-1	0.06	12	590	6	0.28	-2	11	110	0.27	-10	-10	182	-10	86	BN	QE	2	F	3
NA13849	10	0.56	158	-1	0.02	13	490	6	0.05	-2	12	39	0.07	-10	-10	64	-10	58	TA	QE	2	F	2
NA13869	10	1.36	510	-1	0.03	26	820	12	0.01	-2	8	87	0.24	-10	-10	110	-10	76	BN	QE	0.35	M	
NA13870	10	2.11	1270	-1	0.04	21	560	282	0.01	-2	17	94	0.16	-10	-10	130	-10	74	BN	QE	0.6	M	
NA13871	10	1.24	406	-1	0.04	5	790	5	0.01	-2	21	70	0.2	-10	-10	106	-10	57	OR	QE	0.6	M	
NA13872	80	2.13	886	-1	0.04	39	2740	7	0.01	-2	9	39	0.35	-10	-10	64	-10	126	BN	QE	0.5	M	
NA13873	60	1.54	472	-1	0.02	44	1890	6	0.01	-2	10	55	0.42	-10	-10	91	-10	119	BN	QE	0.5	M	

Sample Number	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominant Rock Type	Sample Quality	Sample Description Notes
NA13681	BC	M	M	G	BDR	S		M	
NA13682	BC	M	L	S	BDR	N		H	
NA13683									Sample card lost, no GPS position, location is estimated from previous samples - appears to be last sample of the day, may have been in a hurry to get to LZ
NA13667	BC	M	L	G	BDR	N		H	
NA13668	BC	M	M	M	BDR	S		H	
NA13669	BC	M	M	M	BDR	N		H	
NA13670	BC	M	M	G	BDR	N		H	
NA13671	BC	M	M	F	BDR	N		H	
NA13672	BC	M	M	M	BDR	N		H	
NA13673	BC	M	M	G	BDR	N		H	
NA13674	BC	M	M	F	BDR	N		H	
NA13675	BC	M	M	G	BDR	N		H	
NA13676	BC	M	M	M	BDR	N		H	
NA13677	BC	M	L	M	BDR	N		H	
NA13678	BC	M	M	M	BDR	N		H	
NA13679	BC	M	M	M	COL	N		H	POSSIBLE BENCH GRAVEL
NA13680	BC	M	L	M	BDR	N	GNE	H	
NA13838	C	L	L	F	BDR	N	SCH	H	QTZ. MUSC SCHIST
NA13839	B	L	L	F	BDR	N		H	
NA13840	C	L	L	F	BDR	N	SCH	M	QTZ. MICA SCHIST, 70/30 C/LOESS MIX
NA13841	C	L	L	F	BDR	N	SCH	H	QTZ. BIOTITE SCHIST
NA13842	C	L	L	F	BDR	N	SCH	H	QTZ MICA SCHIST, BLEACHED WITH GEOTHITE(?)
NA13843	B	L	L	G	BDR	N	SCH	M	QUARTZ BIOTITE SCHIST, 70/30 B/LOESS MIX
NA13844	C	M	L	G	BDR	N	AMP	M	70/30 MIX OF C/LOESS
NA13845	C	L	L	F	BDR	N	GNE	M	ORTHO GNEISS? 60/40 C/LOESS MIX
NA13846	C	M	L	F	BDR	N	AMP	L	50/50 LOESS/C MIX
NA13847	C	L	L	S	BDR	N	SCH	H	QTZ. MUSC SCHIST
NA13848	C	L	L	F	BDR	N	SCH	H	BIO-QTZ SCHIST
NA13849	C	L	L	G	BDR	N	SCH	H	QTZ-MUSC SCHIST
NA13869	B	L	L	G	BDR	N	SCH	M	V. GRANULAR, SCH?
NA13870	B	L	L	F	BDR	N	SCH	M	V.GRANULAR,SCH? GRANULES
NA13871	B	L	L	M	COL	N	SCH	M	OR-BN W/ GN PATHES V. GRANULAR FELD-QTZ?-BIOT-SCH
NA13872	C	L	L	G	BDR	N	SCH	M	BN-B-M-S
NA13873	B	L	L	M	COL	N	SCH	M	GRANULAR, Q-M-B-S

Sample Number	UTM East	UTM North	Datum	Geologist Name	Sample Date YR/MN/DY	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
NA13874	580036	7027928	NAD83,Z7	HULSTEIN	20030629	1	0.2	3.66	5	-10	270	0.7	2	0.26	-0.5	21	24	107	6.5	10	1	0.05
NA13875	580079	7028119	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.28	6	-10	580	0.6	-2	0.42	-0.5	10	20	27	3.99	10	-1	0.06
NA13876	580199	7028294	NAD83,Z7	HULSTEIN	20030629	-1	0.2	2.51	16	-10	210	0.7	-2	0.86	-0.5	18	57	38	3.16	10	1	0.05
NA13877	580286	7028477	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.08	6	-10	220	0.7	-2	0.23	-0.5	5	6	22	4.17	10	-1	0.47
NA13878	580399	7028651	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.66	6	-10	270	0.6	-2	0.4	-0.5	13	10	18	4.92	10	1	0.59
NA13879	580509	7028838	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.5	6	-10	300	0.5	-2	0.19	-0.5	8	18	15	3.63	10	1	0.53
NA13880	580661	7028979	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.71	6	-10	380	0.5	-2	0.25	-0.5	12	22	17	4.29	10	-1	0.44
NA13881	580841	7029073	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.66	3	-10	260	-0.5	-2	2.27	-0.5	10	12	12	5.63	10	2	0.24
NA13882	580995	7028950	NAD83,Z7	HULSTEIN	20030629	-1	0.3	3.26	3	-10	160	0.6	-2	1.77	-0.5	23	13	53	5.39	10	1	0.11
NA13883	581135	7029147	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.89	5	-10	220	-0.5	-2	0.78	-0.5	21	55	127	5.26	20	2	0.09
NA13884	581346	7029165	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.37	4	-10	250	-0.5	-2	0.94	-0.5	17	43	99	3.9	10	1	0.07
NA13885	581551	7029231	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.26	18	-10	200	0.7	-2	0.3	-0.5	7	15	66	2.57	10	1	0.11
NA13886	581748	7029161	NAD83,Z7	HULSTEIN	20030629	-1	0.2	3.11	34	-10	290	1.3	-2	1.6	-0.5	89	129	265	5.75	10	1	0.09
NA13887	581945	7029092	NAD83,Z7	HULSTEIN	20030629	-1	0.2	2.3	242	-10	340	0.7	-2	2.74	0.6	10	148	100	2.56	10	1	0.12
NA13888	582174	7029121	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	3.17	4	-10	260	0.5	-2	0.51	-0.5	18	16	43	4.58	10	1	0.9
NA13889	582343	7029235	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.02	5	-10	250	-0.5	-2	0.35	-0.5	14	21	22	2.99	10	1	0.21
NA13890	582560	7029229	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.43	7	-10	300	-0.5	-2	0.34	-0.5	14	21	17	3.54	10	3	0.79
NA13891	582761	7029223	NAD83,Z7	HULSTEIN	20030629	1	-0.2	2.6	9	-10	330	0.6	-2	0.38	-0.5	14	28	69	4.2	10	-1	0.5
NA13892	582958	7029195	NAD83,Z7	HULSTEIN	20030629	-1	-0.2	2.41	5	-10	390	-0.5	-2	0.48	-0.5	14	26	18	3.65	10	1	0.51
NA13893	583153	7029138	NAD83,Z7	HULSTEIN	20030629	-1	0.2	3.2	5	-10	580	-0.5	-2	0.66	-0.5	24	19	54	5.46	10	1	0.93
NA14627	577207	7029348	NAD83,Z7	PRESNELL	20030629	-1	-0.2	1.77	6	-10	310	-0.5	-2	0.22	-0.5	10	28	71	2.84	10	1	0.16
NA14781	576533	7031047	NAD83,Z7	HULSTEIN	20030701	-1	0.2	3.16	2	-10	440	-0.5	-2	0.69	-0.5	23	22	60	5.84	10	-1	0.34
NA14782	576379	7030919	NAD83,Z7	HULSTEIN	20030701	2	-0.2	2.36	13	-10	240	1	-2	0.24	-0.5	23	73	57	4.42	10	1	0.2
NA14783	576269	7030736	NAD83,Z7	HULSTEIN	20030701	4	-0.2	2.15	19	-10	280	0.8	-2	0.48	-0.5	9	41	42	3.24	10	-1	0.11
NA14784	576122	7030578	NAD83,Z7	HULSTEIN	20030701	1	0.5	2.74	-2	-10	720	0.5	-2	10.65	-0.5	18	16	32	5.88	10	1	0.3
NA14785	575940	7030484	NAD83,Z7	HULSTEIN	20030701	2	-0.2	3.59	-2	-10	510	-0.5	-2	0.58	-0.5	18	8	55	6.67	10	-1	0.71
NA14787	575932	7030291	NAD83,Z7	HULSTEIN	20030701	9	0.3	2.32	4	-10	420	-0.5	-2	0.5	-0.5	15	31	31	3.92	10	1	0.38
NA14410	577123	7034366	NAD83,Z7	BOYER	20030701	3	-0.2	2.36	8	-10	270	0.6	-2	0.32	-0.5	13	48	37	3.43	10	1	0.06
NA14411	576916	7034312	NAD83,Z7	BOYER	20030701	7	-0.2	2.88	9	-10	170	-0.5	-2	0.16	-0.5	14	32	21	3.79	10	-1	0.19
NA14412	576786	7034163	NAD83,Z7	BOYER	20030701	-1	0.6	3.58	5	-10	340	0.5	-2	0.31	-0.5	13	18	29	4.98	10	-1	0.73
NA14413	576632	7034009	NAD83,Z7	BOYER	20030701	-1	-0.2	2.54	5	-10	140	-0.5	-2	0.15	-0.5	10	23	21	3.67	10	-1	0.24
NA14414	576442	7033885	NAD83,Z7	BOYER	20030701	4	-0.2	1.67	8	-10	140	0.5	-2	0.24	-0.5	8	25	15	2.64	10	-1	0.18
NA14415	576224	7033792	NAD83,Z7	BOYER	20030701	3	-0.2	2.31	8	-10	190	0.5	-2	0.17	-0.5	11	37	26	3.07	10	-1	0.07
NA14416	576046	7033673	NAD83,Z7	BOYER	20030701	4	0.5	2.47	6	-10	240	0.5	-2	0.18	-0.5	15	38	25	3.48	10	-1	0.13
NA14417	576002	7033441	NAD83,Z7	BOYER	20030701	2	-0.2	2.32	6	-10	270	0.5	-2	0.32	-0.5	13	37	31	3.08	10	-1	0.06
NA14418	580622	7030100	NAD83,Z7	BOYER	20030701	-1	-0.2	2.74	7	-10	330	0.5	-2	0.22	-0.5	14	32	23	3.76	10	-1	0.1
NA14419	580405	7030150	NAD83,Z7	BOYER	20030701	-1	-0.2	2.51	5	-10	260	-0.5	-2	0.62	-0.5	16	19	22	4.34	10	-1	0.13

Sample Number	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics
NA13874	10	1.9	1055	-1	0.01	13	560	93	0.01	3	18	38	0.06	-10	-10	163	-10	146	BN	QE	0.45	M	
NA13875	20	0.67	595	-1	0.02	15	290	6	0.01	2	11	35	0.04	-10	-10	71	-10	72	BN	QE	0.5	M	
NA13876	10	0.83	546	-1	0.02	35	250	15	0.01	-2	8	87	0.1	-10	-10	58	-10	69	BN	QE	0.45	M	
NA13877	10	0.39	475	-1	0.01	5	330	27	-0.01	-2	16	19	0.12	-10	-10	13	-10	139	OR	QL	0.4	M	
NA13878	20	0.85	822	-1	0.02	6	480	15	0.01	2	12	26	0.21	-10	-10	61	-10	113	BN	QE	0.3	M	
NA13879	10	0.54	619	-1	0.01	10	320	22	0.01	-2	8	30	0.18	-10	-10	40	-10	83	BN	QL	0.25	M	
NA13880	20	0.98	1065	-1	0.01	16	490	30	0.01	-2	10	23	0.27	-10	-10	70	-10	118	BN	QE	0.2	M	
NA13881	10	0.9	449	-1	0.06	6	7080	2	0.01	2	8	116	0.24	-10	-10	64	-10	75	BN	QE	0.25	M	
NA13882	10	0.96	413	-1	0.1	10	2270	72	0.01	2	12	131	0.27	-10	-10	166	-10	76	BN	QE	0.25	M	
NA13883	30	1.46	558	-1	0.03	19	830	-2	-0.01	2	11	85	0.24	-10	-10	123	-10	46	OR	QE	0.35	M	
NA13884	10	0.98	597	-1	0.06	22	1130	-2	-0.01	-2	14	48	0.07	-10	-10	112	-10	31	GN	QD	0.5	M	
NA13885	40	0.47	206	-1	0.01	9	260	92	0.01	2	4	24	0.01	-10	-10	37	-10	199	OR	QE	0.35	M	
NA13886	40	1.18	1625	15	0.01	291	6680	9	0.02	5	13	51	0.06	-10	10	609	-10	721	OR	QE	0.4	M	
NA13887	10	0.52	469	11	0.01	126	10000	7	0.01	2	7	37	0.05	-10	-10	360	-10	380	GY	QD	0.25	M	
NA13888	10	1.52	703	-1	0.01	8	560	3	0.01	-2	4	38	0.24	-10	-10	110	-10	88	BN	QE	0.35	M	
NA13889	10	0.84	458	-1	0.02	12	520	5	0.01	-2	7	19	0.12	-10	-10	77	-10	55	TA	QE	0.45	M	
NA13890	10	1.02	514	-1	0.01	12	500	3	0.01	-2	4	24	0.17	-10	-10	82	-10	65	BN	QE	0.4	M	
NA13891	20	0.86	715	-1	0.01	17	400	2	0.01	-2	8	27	0.13	-10	-10	94	-10	87	OR	QL	0.3	M	
NA13892	10	0.85	493	-1	0.02	15	590	2	0.01	-2	5	28	0.14	-10	-10	79	-10	75	BN	QE	0.3	M	
NA13893	20	1.72	902	-1	0.02	12	650	-2	0.01	3	8	37	0.21	-10	-10	124	-10	81	BN	QE	0.35	M	
NA14627	10	0.47	409	-1	0.01	19	430	3	0.01	-2	5	19	0.09	-10	-10	61	-10	66	BN	QE	8	I	2
NA14781	-10	1.55	1110	-1	0.02	13	970	6	0.01	-2	10	49	0.23	-10	-10	134	-10	131	BN	QE	0.4	M	
NA14782	20	0.52	479	6	0.01	66	460	11	0.05	-2	10	26	0.06	-10	-10	186	-10	250	OR	QE	0.5	M	
NA14783	20	0.77	434	1	0.02	28	630	12	0.01	-2	10	27	0.07	-10	-10	78	-10	102	OR	QE	0.4	M	
NA14784	-10	1.26	755	1	0.03	9	550	4	0.02	-2	17	126	0.04	-10	-10	178	-10	48	OL	QL	0.5	M	
NA14785	20	1.96	701	2	0.04	11	920	4	-0.01	-2	22	27	0.2	-10	-10	127	-10	83	BN	QE	0.55	M	
NA14787	10	0.75	366	1	0.02	17	710	8	0.01	-2	9	37	0.19	-10	-10	80	-10	57	BN	QE	0.35	M	
NA14410	20	0.69	363	1	0.02	23	150	9	-0.01	-2	8	33	0.17	-10	-10	80	-10	62	BN	QE	0.4	M	3
NA14411	10	0.8	464	1	0.01	17	340	10	0.01	-2	4	18	0.18	-10	-10	87	-10	64	BN	QL	0.2	M	10
NA14412	10	1	557	3	0.02	10	400	4	0.04	-2	6	431	0.21	-10	-10	87	-10	55	BN	QL	0.3	M	8
NA14413	10	0.73	470	1	0.01	11	190	8	0.01	-2	5	47	0.18	-10	-10	70	-10	65	BN	QL	0.3	M	2
NA14414	20	0.54	293	-1	0.01	14	200	9	-0.01	-2	4	30	0.11	-10	-10	53	-10	43	BN	QE	0.6	M	2
NA14415	20	0.55	275	2	0.01	21	220	8	0.01	-2	4	23	0.12	-10	-10	63	-10	48	BN	QE	0.3	M	5
NA14416	10	0.64	362	1	0.01	22	230	8	0.01	-2	5	19	0.17	-10	-10	72	-10	75	BN	QE	0.3	M	7
NA14417	20	0.64	280	1	0.02	20	160	6	-0.01	-2	8	38	0.17	-10	-10	75	-10	44	BN	QE	0.4	M	3
NA14418	10	0.64	497	1	0.02	22	420	9	0.01	-2	5	20	0.14	-10	-10	87	-10	69	BN	QD	0.3	M	10
NA14419	10	0.77	548	1	0.05	13	1260	8	0.01	-2	7	27	0.19	-10	-10	114	-10	145	BN	QE	0.15	M	20

Sample Number	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominant Rock Type	Sample Quality	Sample Description Notes
NA13874	B	L	L	M	COL	N	SCH	M	GRANULAR, SAD,QTZ-MUSC BIOT-SCH
NA13875	B	L	L	G	BDR	N	GNT	M	SOME LOESS? GRANULES & PEBBLES OF GNT, MED COARSE GRAINED QTZ FELDSPAR (PINK)
NA13876	B	L	L	G	BDR	N	SCH	M	GRANULAR, QTZ-FELD(QL-PN) GRANITE& QTZ-BIOT-MUSC SCH
NA13877	B	L	L	G	BDR	N	SAD	M	
NA13878	B	L	L	G	BDR	N	SAD	M	OR-BN(LIMONITE TINGE) SANDY
NA13879	B	L	L	M	BDR	N	SAD	M	
NA13880	B	L	L	F	BDR	N	SCH	M	CHOC BN COLOR QTZ-FELD-BIOT(MUSC?) SCH
NA13881	B	L	L	G	BDR	N	SCH	M	SANDY,BIOT RICH SCH
NA13882	B	L	L	G	BDR	N	SCH	M	OL-BN GN-BIOT SCH
NA13883	B	L	L	G	BDR	N		M	
NA13884	C	L	L	G	BDR	N	AMP	M	
NA13885	B	M	L	G	BDR	N		M	OR-LIMONITE COLOR QTZ-GRANUALS & CLY
NA13886	B	L	L	G	BDR	N	SCH	M	OR-LIMONITE COLOR QTZ-MUSC- BIOT-SCH
NA13887	B	L	L	F	BDR	N	AMP	M	QD GN-GY, QTZ-BIOT-HBL? = AMP?
NA13888	B	L	L	M	COL	N	SCH	M	
NA13889	B	L	L	M	COL	S	SCH	M	SANDY SL, QTZ BIOT-MUSC SCH
NA13890	B	L	L	G	BDR	N	SCH	M	SANDY QTZ- BIOT RICH SL
NA13891	B	L	L	M	BDR	N	SCH	M	TA-OR SANDY DECOMPED QTZ-BIOT-MUSC SCH
NA13892	B	L	L	S	COL	N	SCH	M	
NA13893	B	L	L	S	COL	N	SCH	M	DECOMPOSED SCH SL
NA14627	B	L	L	G	BDR	N	SCH	H	QTZ-MUSC. SCHIST
NA14781	B	L	L	G	BDR	N	SCH	M	QTZ MICA (AND AMP?) SCHIST
NA14782	B	M	L	M	BDR	N	QTZ	H	ORANGE, BROWN COLOUR, QTZ RICH
NA14783	B	L	L	G	BDR	N	QTZ	M	ORD-BRN, QTZ RICH
NA14784	C	H	M	G	BDR	N	SCH	H	OLIVE BRN, YELLOW TINGE, MINOR RED STREAKS, (DECOMPOSED CLAY RICH SCHIST?)
NA14785	B	L	L	M	BDR	N	SCH	M	DECOMPOSED BIOTITE SCHIST
NA14787	B	L	L	M	COL	N	SCH	M	BIO RICH SCHIST
NA14410	BC	M	M	F	BDR	N		H	
NA14411	BC	M	L	G	BDR	N		H	
NA14412	BC	M	L	M	BDR	N		H	
NA14413	BC	M	L	G	BDR	N		H	
NA14414	BC	M	L	M	BDR	N		H	
NA14415	BC	M	L	G	BDR	N		H	
NA14416	BC	M	L	G	BDR	N		H	
NA14417	BC	M	M	F	BDR	N		H	
NA14418	BC	M	M	M	BDR	N		H	
NA14419	BC	M	L	M	BDR	N		M	

Sample Number	UTM East	UTM North	Datum	Geologist Name	Sample Date YR/MN/DY	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
NA14420	580248	7030018	NAD83,Z7	BOYER	20030701	1	-0.2	2.68	4	-10	410	0.5	-2	0.43	-0.5	16	40	23	3.52	10	-1	0.08
NA14421	580079	7029895	NAD83,Z7	BOYER	20030701	1	0.3	2.32	3	-10	280	-0.5	-2	0.39	-0.5	15	66	36	3.53	10	1	0.1
NA14422	579945	7029707	NAD83,Z7	BOYER	20030701	1	-0.2	2.1	9	-10	240	0.5	-2	0.54	-0.5	13	30	34	3.33	10	-1	0.15
NA14423	579809	7029572	NAD83,Z7	BOYER	20030701	1	-0.2	1.95	5	-10	340	0.6	-2	0.3	-0.5	9	29	15	2.94	10	-1	0.21
NA14424	579639	7029459	NAD83,Z7	BOYER	20030701	1	-0.2	2.22	3	-10	360	0.6	-2	0.33	-0.5	9	25	14	3.43	10	-1	0.44
NA14767	577757	7033341	NAD83,Z7	HULSTEIN	20030701	1	-0.2	2.96	6	-10	250	-0.5	-2	0.25	-0.5	15	26	18	3.97	10	1	0.61
NA14768	577560	7033377	NAD83,Z7	HULSTEIN	20030701	2	-0.2	2.37	4	-10	230	-0.5	-2	0.25	-0.5	11	26	20	3.09	10	-1	0.3
NA14769	577450	7033215	NAD83,Z7	HULSTEIN	20030701	3	-0.2	2.42	2	-10	190	0.5	-2	0.28	-0.5	12	17	19	3.29	10	-1	0.57
NA14770	577312	7033066	NAD83,Z7	HULSTEIN	20030701	-1	-0.2	3.33	3	-10	250	0.6	-2	0.17	-0.5	16	16	74	5.27	10	-1	1.21
NA14771	577166	7032912	NAD83,Z7	HULSTEIN	20030701	3	-0.2	1.94	8	-10	240	0.5	-2	0.37	-0.5	10	33	36	3.02	10	1	0.15
NA14772	576998	7032795	NAD83,Z7	HULSTEIN	20030701	3	-0.2	1.96	7	-10	180	-0.5	-2	0.28	-0.5	9	27	42	2.82	10	-1	0.1
NA14773	576997	7032590	NAD83,Z7	HULSTEIN	20030701	2	0.3	3.24	2	-10	310	-0.5	-2	1.14	-0.5	49	10	166	6.84	10	1	0.16
NA14774	577018	7032379	NAD83,Z7	HULSTEIN	20030701	-1	-0.2	2.78	-2	-10	220	-0.5	-2	0.87	-0.5	17	12	76	5.53	10	-1	0.26
NA14775	576965	7032180	NAD83,Z7	HULSTEIN	20030701	1	0.2	2.88	3	-10	160	-0.5	-2	1.04	-0.5	15	25	65	2.69	10	-1	0.07
NA14776	576880	7031985	NAD83,Z7	HULSTEIN	20030701	1	-0.2	2.88	6	-10	290	0.5	-2	0.52	-0.5	14	35	23	3.91	10	-1	0.52
NA14777	576804	7031789	NAD83,Z7	HULSTEIN	20030701	-1	0.3	2.46	3	-10	330	-0.5	-2	0.55	-0.5	18	63	39	3.32	10	-1	0.11
NA14778	576663	7031636	NAD83,Z7	HULSTEIN	20030701	2	-0.2	1.98	6	-10	320	0.5	-2	0.31	-0.5	12	18	20	3.59	10	-1	0.29
NA14779	576667	7031436	NAD83,Z7	HULSTEIN	20030701	2	-0.2	1.98	9	-10	260	0.5	-2	0.26	-0.5	10	30	23	3.2	10	-1	0.33
NA14780	576605	7031229	NAD83,Z7	HULSTEIN	20030701	2	-0.2	2.07	9	-10	220	-0.5	-2	0.09	-0.5	8	21	15	3.4	10	-1	0.11
NA14629	583568	7022824	NAD83,Z7	HULSTEIN	20030721	2	-0.2	1.34	4	-10	250	-0.5	-2	0.2	-0.5	5	14	12	2.41	10	1	0.11
NA14630	583395	7022704	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	2.21	9	-10	310	-0.5	-2	0.17	-0.5	7	17	18	3.12	10	-1	0.08
NA14631	583185	7022742	NAD83,Z7	HULSTEIN	20030721	1	-0.2	1.7	5	-10	560	0.7	-2	0.24	-0.5	7	14	28	4.25	10	-1	0.15
NA14632	582989	7022706	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	2.87	2	-10	1120	0.8	-2	2.35	-0.5	17	7	12	5.74	10	1	0.14
NA14633	582831	7022568	NAD83,Z7	HULSTEIN	20030721	1	-0.2	1.76	9	-10	290	0.5	-2	0.32	-0.5	9	20	22	3.28	10	1	0.11
NA14634	582805	7022368	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	1.3	5	-10	280	0.5	-2	0.29	-0.5	7	14	16	3.11	10	1	0.13
NA14635	582867	7022181	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	1.24	7	-10	240	-0.5	-2	0.2	-0.5	9	20	17	2.15	-10	-1	0.09
NA14636	582784	7022004	NAD83,Z7	HULSTEIN	20030721	-1	0.9	2.25	3	-10	450	0.6	6	0.73	-0.5	14	21	24	4.39	10	-1	0.18
NA14637	582718	7021816	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	3.04	9	-10	320	-0.5	-2	0.99	-0.5	25	203	52	4.2	10	1	0.11
NA14638	582620	7021643	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	1.53	9	-10	440	-0.5	-2	0.32	-0.5	9	20	29	2.88	10	1	0.08
NA14639	582416	7021503	NAD83,Z7	HULSTEIN	20030721	2	-0.2	2.26	12	-10	620	0.6	2	2.31	-0.5	13	69	45	3.86	10	1	0.13
NA14640	585727	7026419	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	1.57	2	-10	360	0.8	-2	0.4	-0.5	11	8	43	3.4	-10	1	0.35
NA14641	585524	7026466	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	1.89	8	-10	290	0.5	-2	0.55	-0.5	15	34	45	3.45	10	-1	0.18
NA14642	585366	7026578	NAD83,Z7	HULSTEIN	20030722	-1	0.2	2.7	12	-10	260	1.2	2	0.46	-0.5	18	50	108	5.83	10	1	0.58
NA14643	585181	7026663	NAD83,Z7	HULSTEIN	20030722	-1	0.7	1.32	8	-10	190	-0.5	4	0.53	-0.5	7	11	79	9.23	10	1	0.11
NA14644	585044	7026814	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	2.15	13	-10	270	-0.5	-2	0.27	-0.5	12	45	27	3.45	10	-1	0.6
NA14645	584845	7026810	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	1.92	3	-10	230	0.6	-2	0.32	-0.5	7	12	68	3.28	10	1	0.47

Sample Number	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics
NA14420	10	0.68	591	1	0.02	21	1120	8	0.01	-2	5	35	0.13	-10	-10	87	-10	76	BN	QD	0.2	M	10
NA14421	10	0.97	527	1	0.02	28	840	33	0.01	-2	7	32	0.16	-10	-10	95	-10	99	BN	QE	0.2	M	15
NA14422	10	0.66	420	1	0.04	21	840	6	0.01	-2	7	25	0.15	-10	-10	93	-10	56	BN	QD	0.5	M	5
NA14423	20	0.41	535	1	0.01	17	400	26	0.01	-2	8	25	0.08	-10	-10	48	-10	77	BN	QE	0.3	M	5
NA14424	30	0.51	635	1	0.01	12	440	96	0.01	-2	9	25	0.13	-10	-10	50	-10	77	BN	QE	0.4	M	10
NA14767	10	1.04	542	1	0.02	14	310	26	0.01	-2	3	57	0.24	-10	-10	90	-10	91	BN	QE	0.25	M	
NA14768	20	0.82	408	1	0.01	17	250	17	0.01	-2	3	24	0.2	-10	-10	77	-10	80	BN	QE	0.2	M	
NA14769	20	1.06	538	-1	0.02	9	140	10	-0.01	-2	4	32	0.21	-10	-10	75	-10	70	TA	QE	0.2	M	
NA14770	20	1.44	757	2	0.02	8	220	4	0.01	-2	7	101	0.3	-10	-10	103	-10	80	BN	QE	0.3	M	
NA14771	30	0.64	404	1	0.02	22	490	8	0.01	-2	8	34	0.16	-10	-10	64	-10	54	BN	QE	0.5	M	
NA14772	20	0.56	265	2	0.02	14	170	10	0.02	-2	4	32	0.14	-10	-10	60	-10	47	BN	QE	0.5	M	
NA14773	10	1.52	1985	-1	0.14	9	930	7	0.01	-2	23	119	0.17	-10	-10	209	-10	357	BN	QE	0.75	M	
NA14774	20	1.04	484	1	0.06	10	1840	5	0.01	-2	9	39	0.16	-10	-10	89	-10	46	BN	QE	0.45	M	
NA14775	10	0.8	253	1	0.07	14	340	4	-0.01	-2	6	91	0.16	-10	-10	78	-10	32	GN	QE	0.2	M	
NA14776	10	1.13	454	-1	0.02	17	1090	10	0.01	-2	6	81	0.26	-10	-10	89	-10	62	BN	QE	0.35	M	
NA14777	-10	0.99	588	-1	0.03	28	1150	5	0.01	-2	5	43	0.16	-10	-10	83	-10	88	GN	QE	0.15	M	
NA14778	10	0.56	768	1	0.02	11	570	5	0.01	-2	9	23	0.1	-10	-10	69	-10	72	OR	QE	0.2	M	
NA14779	20	0.59	498	1	0.01	19	350	6	0.01	-2	7	23	0.15	-10	-10	58	-10	68	BN	QE	0.15	M	
NA14780	10	0.33	292	1	0.01	13	240	8	0.01	-2	9	12	0.08	-10	-10	44	-10	82	OR	QL	0.25	M	
NA14629	20	0.29	406	-1	0.01	13	170	8	-0.01	3	5	17	0.06	-10	-10	25	-10	48	TA	QE	0.4	M	
NA14630	10	0.36	226	-1	0.01	11	210	8	0.01	4	5	15	0.04	-10	-10	46	-10	36	TA	QE	0.3	M	
NA14631	30	0.32	751	1	0.01	11	280	13	-0.01	4	16	22	0.03	-10	-10	27	-10	89	TA	QE	0.5	M	
NA14632	20	0.82	1110	-1	0.01	7	670	11	0.02	2	12	70	0.01	-10	-10	60	-10	80	OL	QE	0.6	M	
NA14633	20	0.5	362	-1	0.02	12	180	51	-0.01	3	6	32	0.12	-10	-10	51	-10	63	OR	QL	0.5	M	
NA14634	20	0.36	439	-1	0.01	10	430	63	-0.01	6	5	22	0.03	-10	-10	33	-10	65	TA	QE	0.5	M	
NA14635	10	0.3	354	1	0.01	11	240	37	0.01	2	3	15	0.04	-10	-10	37	-10	41	TA	QL	0.4	M	
NA14636	10	0.88	517	1	0.03	12	1180	536	0.01	4	11	43	0.12	-10	-10	152	-10	79	BN	QE	0.3	M	
NA14637	-10	1.92	893	-1	0.04	62	550	20	0.01	3	11	89	0.18	-10	-10	102	-10	97	OL		0		
NA14638	10	0.36	532	1	0.01	12	390	12	0.01	3	3	27	0.1	-10	-10	53	-10	93	BN	QE	0.3	M	
NA14639	10	0.97	905	1	0.02	43	490	21	0.03	3	10	54	0.04	-10	-10	68	-10	92	BN	QE	0.5	M	
NA14640	30	0.59	408	-1	0.01	6	400	9	-0.01	5	11	15	0.07	-10	-10	56	-10	44	TA	QE	0.5	M	
NA14641	10	1.04	668	1	0.01	82	1800	7	-0.01	3	6	19	0.09	-10	-10	90	-10	67	TA	QE	0.5	M	
NA14642	40	1.1	497	6	0.01	85	1730	13	0.01	3	4	15	0.13	-10	-10	104	-10	191	BF	QE	0.3	M	
NA14643	-10	0.34	301	3	0.05	11	1350	2	0.2	3	7	34	0.67	-10	-10	128	-10	28	OR	QE	0.3	M	
NA14644	30	0.79	464	1	0.01	42	1180	3	0.01	3	4	11	0.14	-10	-10	60	-10	59	TA	QE	0.3	M	
NA14645	60	0.97	815	-1	0.01	8	660	63	0.01	2	8	20	0.11	-10	-10	47	-10	154	TA	QE	0.25	M	

Sample Number	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominant Rock Type	Sample Quality	Sample Description Notes
NA14420	B	M	L	M	BDR	N		M	
NA14421	C	L	L	M	BDR	N		M	
NA14422	BC	M	L	M	BDR	N		H	
NA14423	BC	M	L	M	BDR	N		H	
NA14424	B	M	L	S	BDR	N		M	
NA14767	B	L	L	G	BDR	N	SCH	M	SL OF SANDY QTZ-MICA SCHIST
NA14768	B	L	L	G	COL	N	SCH	M	'SANDY', QTZ-MICA SCHIST
NA14769	B	L	L	G	BDR	N	SCH	M	'SANDY', QTZ-MICA SCHIST
NA14770	B	L	L	G	BDR	N	SCH	M	'SANDY' QTZ-MICA SCHIST
NA14771	B	M	L	G	BDR	N	SCH	M	SOME LOESS, GRANULAR QTZ-MICA SCHIST PEBBLES
NA14772	B	M	L	G	BDR	N	SCH	M	SOME LOESS, GRANULAR QTZ-MICA SCHIST
NA14773	B	L	L	G	BDR	N	SCH	H	MINOR LIMONITE COLOUR, QTZ-MICA SCHIST, POSSIBLY SOME AMPHIBOLITE
NA14774	B	L	L	G	BDR	N	SCH	M	'SANDY', QTZ MICA SCHIST AND POSSIBLY AMP
NA14775	C	L	L	G	BDR	N	AMP	M	'C' OF AMPHIBOLITE
NA14776	B	L	L	G	BDR	N	SCH	M	'SANDY' QTZ MICA SCHIST
NA14777	B	L	L	G	BDR	N	AMP	M	SOME LOESS WITH AMP PEBBLES
NA14778	B	L	L	M	BDR	N		M	ORANGE BROWN, AMP FLOAT IN AREA
NA14779	B	L	L	M	BDR	N		M	
NA14780	B	L	L	G	BDR	N	SCH	M	SOME LOESS, QTZ. MICA SCHIST, ORANGE/BRN COLOUR
NA14629	C	L	L	F	BDR	N	GNE	M	TRACE LOS SANDY, WT QTZ-FELD GNE, ORTHO GNE?
NA14630	C	L	L	F	BDR	N	GNE	M	MINOE LOESS GNE; ORTHO GN?
NA14631	C	L	L	G	BDR	N	GNE	H	SANDY GNE? QTZ FELD BIO
NA14632	C	M	M	G	BDR	N	SCH	H	SCH FELD CHL
NA14633	C	L	L	G	BDR	N	GNE	H	GNE?- QTZ FELD ORTO GNE?
NA14634	C	L	L	G	BDR	N	GNE	H	SANDY- HINT OF OR COLOR- GNE? QTZ-FELD
NA14635	C	L	L	F	BDR	N	QTZ	H	QL RD OR TA COLOR QTZ PEBBLE RICH
NA14636	C	L	L	S	COL	N	AMP	H	AMP? QTZ PEBBLES
NA14637				S	COL	N	AMP	M	OLIVE BROWN, RK TYPE-AMPHIBOLITE AND FELSIC (ORTHO?) GNE
NA14638	C	L	L	F	COL	N	SCH	M	MINOR LOESS SCH QTZ-FELD
NA14639	B	L	L	S	COL	N	SCH	M	SCH-QTZ-FELD-AMP
NA14640	C	M	M	F	BDR	N	SCH	H	CLY RICH POSS FLT CRUCH ZONE SCH,BIO(AMP)
NA14641	C	L	L	G	BDR	N	SCH	H	SCH BIO, MINOR QTZ HINT OF OR-LIM COLOR
NA14642	C	L	L	G	BDR	N	SCH	H	MUSC QTZ
NA14643	C	L	L	M	BDR	N	AMP	H	
NA14644	C	L	L	G	BDR	N	SCH	H	MUSC-BIOT
NA14645	B	L	L	M	COL	N	SCH	M	QTZ-MUSC

Sample Number	UTM East	UTM North	Datum	Geologist Name	Sample Date YR/MN/DY	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
NA14646	584678	7026694	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	2.13	5	-10	160	0.7	-2	0.35	-0.5	7	14	29	3.92	10	1	0.15
NA14647	584483	7026601	NAD83,Z7	HULSTEIN	20030722	-1	0.2	3.53	62	-10	290	1	-2	0.92	-0.5	22	14	144	7.63	20	2	0.03
NA14648	584274	7026600	NAD83,Z7	HULSTEIN	20030722	1	-0.2	2.27	9	-10	170	0.5	2	0.72	-0.5	12	35	40	3.87	10	1	0.04
NA14797	584632	7023524	NAD83,Z7	HULSTEIN	20030721	2	-0.2	3.01	4	-10	420	0.6	2	0.64	-0.5	20	24	48	4.57	10	1	0.23
NA14798	584425	7023513	NAD83,Z7	HULSTEIN	20030721	-1	0.3	2.02	4	-10	240	0.5	2	0.19	-0.5	10	19	18	3.09	10	-1	0.39
NA14799	584226	7023532	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	3.04	6	-10	420	0.7	-2	0.39	-0.5	15	35	104	6.26	10	1	0.1
NA10897	584067	7026636	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	2.61	9	-10	150	0.5	-2	0.64	-0.5	15	49	61	4.16	10	-1	0.04
NA10898	583875	7026550	NAD83,Z7	HULSTEIN	20030722	1	-0.2	3.37	10	-10	130	-0.5	-2	1.3	-0.5	18	37	31	5.23	10	-1	0.09
NA10899	583686	7026466	NAD83,Z7	HULSTEIN	20030722	1	-0.2	5.01	4	-10	180	-0.5	2	1.01	-0.5	19	122	137	7.93	10	-1	0.26
NA13536	584030	7023474	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	2.32	4	-10	590	0.6	-2	0.75	-0.5	6	15	27	4.52	10	1	0.42
NA13537	583909	7023325	NAD83,Z7	HULSTEIN	20030721	1	-0.2	2.07	5	-10	210	-0.5	-2	0.15	-0.5	9	32	18	2.99	10	-1	0.08
NA13538	583791	7023176	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	1.74	5	-10	280	-0.5	-2	0.24	-0.5	6	18	10	3.07	10	-1	0.19
NA13539	583678	7022998	NAD83,Z7	HULSTEIN	20030721	-1	-0.2	1.73	-2	-10	210	0.7	-2	0.56	-0.5	4	13	16	2.84	10	-1	0.06
NA13700	583525	7026352	NAD83,Z7	HULSTEIN	20030722	1	0.2	1.24	6	-10	410	0.6	-2	0.18	-0.5	5	15	11	2.45	-10	-1	0.12
NA13701	583332	7026321	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	1.64	4	-10	700	0.7	-2	0.31	-0.5	7	18	20	3.47	10	1	0.1
NA13702	583123	7026270	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	3.69	266	-10	640	1.2	-2	0.83	-0.5	25	182	52	6.23	10	1	0.22
NA13703	582928	7026324	NAD83,Z7	HULSTEIN	20030722	-1	-0.2	1.32	37	-10	2340	0.7	-2	0.32	-0.5	5	21	20	2.24	-10	1	0.08
NA13704	582751	7026432	NAD83,Z7	HULSTEIN	20030722	-1	1.1	2.4	80	-10	680	1.1	-2	0.75	-0.5	13	27	32	5.2	10	1	0.31
NA13705	582548	7026431	NAD83,Z7	HULSTEIN	20030722	12	-0.2	1	34	10	660	0.6	2	0.41	-0.5	8	11	20	3.89	-10	1	0.17
NA13706	582378	7026564	NAD83,Z7	HULSTEIN	20030722	4	-0.2	2.31	15	-10	400	0.8	-2	1.08	-0.5	14	14	23	4.8	10	-1	0.1
NA13707	582056	7026767	NAD83,Z7	HULSTEIN	20030722	10	-0.2	1.57	13	-10	420	0.5	-2	3.25	-0.5	14	22	48	3.27	10	-1	0.12
NA13708	577954	7033301	NAD83,Z7	HULSTEIN	20030723	2	-0.2	1.86	3	-10	220	-0.5	-2	0.49	-0.5	10	20	19	3.06	10	-1	0.5
NA13709	578149	7033322	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	2.14	-2	-10	160	0.5	-2	0.7	-0.5	9	15	33	3.18	10	1	0.53
NA13710	578346	7033365	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	1.88	2	-10	210	-0.5	-2	0.46	-0.5	10	20	13	3.12	10	-1	0.36
NA13711	578544	7033410	NAD83,Z7	HULSTEIN	20030723	1	-0.2	2.42	5	-10	120	-0.5	-2	0.22	-0.5	10	17	10	3.72	10	-1	0.31
NA13712	578741	7033449	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	3.4	4	-10	150	0.7	-2	0.39	-0.5	14	13	14	4.83	10	-1	0.68
NA13713	578943	7033427	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	2.24	4	-10	160	0.5	-2	0.32	-0.5	9	19	11	3.14	10	1	0.24
NA13714	579099	7033562	NAD83,Z7	HULSTEIN	20030723	17	-0.2	2.27	5	-10	140	0.7	-2	0.83	-0.5	8	9	8	3.09	10	-1	0.43
NA13715	579249	7033698	NAD83,Z7	HULSTEIN	20030723	2	-0.2	1.8	3	-10	130	-0.5	-2	0.38	-0.5	8	18	9	2.71	10	1	0.19
NA13716	579446	7033743	NAD83,Z7	HULSTEIN	20030723	1	-0.2	1.88	7	-10	150	0.6	-2	0.79	-0.5	7	15	17	2.6	10	-1	0.32
NA13717	579541	7033803	NAD83,Z7	HULSTEIN	20030723	6	-0.2	1.63	5	-10	190	-0.5	-2	0.49	-0.5	7	24	19	2.5	-10	1	0.13
NA13719	579411	7026991	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	2.41	-2	-10	1180	0.5	5	0.82	-0.5	10	14	21	3.19	10	-1	0.29

Sample Number	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics
NA14646	30	0.68	512	-1	0.01	9	340	7	0.01	2	10	26	0.06	-10	-10	54	-10	83	OR	QE	0.4	M	
NA14647	20	1.34	786	1	0.02	19	2670	261	-0.01	6	21	37	0.16	-10	-10	225	-10	202	OR	QE	0.3	M	
NA14648	20	0.9	364	1	0.06	22	590	8	-0.01	-2	8	46	0.17	-10	-10	93	-10	49	GN	QE	0.45	M	
NA14797	10	1.22	540	-1	0.03	21	630	13	0.01	3	11	42	0.23	-10	-10	118	-10	73	TA	QE	0.5	M	
NA14798	20	0.62	452	-1	0.01	14	180	7	-0.01	-2	5	17	0.17	-10	-10	35	-10	54	BF	QE	0.5	M	
NA14799	20	0.94	833	-1	0.02	16	430	82	-0.01	-2	12	36	0.22	-10	-10	127	-10	346	OR	QE	0.5	M	
NA10897	10	1	438	-1	0.05	25	230	31	0.01	5	8	44	0.19	-10	-10	118	-10	64	BN	QE	0.3	M	
NA10898	-10	1.12	639	-1	0.09	19	1110	16	0.01	5	10	102	0.29	-10	-10	166	-10	82	BN	QE	0.15	M	5
NA10899	10	2.3	1675	-1	0.05	53	590	4	0.01	5	21	46	0.25	-10	-10	206	-10	266	OR	QE	0.45	M	
NA13536	10	0.71	766	-1	0.04	14	770	11	-0.01	3	14	34	0.13	-10	-10	36	-10	98	BN	QE	0.8	M	
NA13537	10	0.49	343	-1	0.01	20	200	10	-0.01	-2	4	15	0.1	-10	-10	55	-10	48	TA	QE	0.45	M	
NA13538	10	0.46	233	-1	0.01	13	170	8	-0.01	-2	6	20	0.07	-10	-10	34	-10	81	BF	QE	0.5	M	
NA13539	20	0.49	431	-1	0.01	12	330	9	-0.01	-2	6	36	0.03	-10	-10	29	-10	44	RD	QL	0.6	M	
NA13700	20	0.23	419	1	0.01	10	140	14	0.01	-2	3	16	0.02	-10	-10	28	-10	76	TA	QL	0.4	M	
NA13701	20	0.37	515	-1	0.01	13	270	38	-0.01	2	6	26	0.05	-10	-10	35	-10	75	BF	QL	0.35	M	
NA13702	50	1.56	948	-1	0.01	47	1050	32	-0.01	2	22	42	0.08	-10	-10	133	-10	101	OR	QL	0.5	M	
NA13703	10	0.28	219	13	-0.01	25	140	76	0.04	-2	4	38	0.02	-10	-10	39	-10	63	TA	QE	0.5	M	
NA13704	20	0.67	1065	2	0.01	24	830	66	-0.01	4	8	31	0.02	-10	-10	69	-10	83	GN	QL	0.7	M	
NA13705	30	0.2	716	1	0.01	14	310	18	0.01	2	10	21	0.01	-10	-10	21	-10	44	TA	QE	0.4	M	
NA13706	10	1.03	659	-1	0.02	20	1220	167	-0.01	-2	13	67	0.19	-10	-10	70	-10	67	OR	QE	0.35	M	
NA13707	20	0.78	724	1	0.03	32	500	19	0.03	-2	6	87	0.1	-10	-10	59	-10	67	TA	QE	0.8	M	
NA13708	30	0.79	605	-1	0.01	14	650	8	-0.01	-2	4	43	0.21	-10	-10	59	-10	64	BN	QE	0.75	M	
NA13709	20	0.76	670	-1	0.01	10	1070	47	-0.01	-2	3	54	0.17	-10	-10	53	-10	81	BN	QE	0.5	M	
NA13710	30	0.72	613	-1	0.01	13	650	6	-0.01	-2	4	46	0.17	-10	-10	56	-10	86	BN	QE	0.5	M	
NA13711	10	0.75	541	-1	0.01	12	440	10	0.01	-2	3	33	0.22	-10	-10	77	-10	66	BN	QE	0.3	M	
NA13712	20	1.24	860	-1	0.01	7	550	12	0.01	-2	3	91	0.33	-10	-10	87	-10	98	BN	QE	0.4	M	
NA13713	40	0.7	492	-1	0.01	14	240	8	0.01	-2	3	32	0.17	-10	-10	56	-10	59	BN	QE	0.25	M	
NA13714	50	0.63	541	-1	0.02	6	940	9	-0.01	-2	5	110	0.07	-10	-10	41	-10	61	TA	QE	0.8	M	
NA13715	20	0.52	390	-1	0.01	12	440	10	0.01	2	2	41	0.15	-10	-10	53	-10	53	BN	QE	0.35	M	
NA13716	30	0.54	362	-1	0.02	10	750	16	-0.01	-2	4	62	0.16	-10	-10	46	-10	66	TA	QE	0.5	M	
NA13717	30	0.5	299	-1	0.02	15	500	13	0.01	-2	4	39	0.16	-10	-10	54	-10	54	BF	QE	0.3	M	
NA13719	10	0.9	403	-1	0.03	9	310	146	-0.01	-2	8	1290	0.15	-10	-10	88	-10	64	BN	QE	0.4	M	

Sample Number	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominant Rock Type	Sample Quality	Sample Description Notes
NA14646	C	M	L	F	BDR	N	SCH	H	QTZ-MUSC
NA14647	C	L	L	G	BDR	N	SCH	H	SCH, BIO SCH OR AMP
NA14648	C	M	L	G	BDR	N	AMP	H	AMP (OR BIOT SCH); DUPE OF NA10896
NA14797	C	L	L	F	BDR	N	SCH	H	SANDY BN W/ OR TINGE & REDDISH PATCHES
NA14798	C	L	L	F	BDR	N	SCH	H	
NA14799	C	L	L	F	BDR	N	SCH	H	OR BN (LIM) SL SCH: MUSC
NA10897	C	M	L	F	BDR	N	AMP	H	GN BN, HINT OF HEMATITE COLOR
NA10898	C	L	L	F	BDR	N	AMP	M	AMP (OR BIOT CSH) FRESH GREEN
NA10899	C	L	L	M	COL	N	AMP	H	RUSTY LIM OR COLOR, SANDY SOIL
NA13536	C	L	L	F	BDR	N	SCH	H	SCH: BIO(AMP?) W/WHITEQTZ(FELD?) BANDS
NA13537	C	L	L	G	BDR	N	SCH	M	MINOR LOESS QTZ-FELD (GAR?) (MUSC?)
NA13538	C	L	L	G	BDR	N	SCH	M	SANDY SCH; QTZ-MUSC
NA13539	C	M	M	F	BDR	N	SCH	H	DUPE OF 14628 REDDISH 'HEMATITE' COLOR IN BANDS W/BN QTZ BIO SCH POSS FAULT GOUGE
NA13700	C	M	L	G	COL	N	SCH	M	SCH MUSC QTZ
NA13701	C	L	L	G	BDR	N	SCH	M	
NA13702	B	L	L	G	BDR	N	SCH	H	OR- LIMONITE COLOR-SANDY SL SCH MICACEOUS
NA13703	C	L	L	G	BDR	N	SCH	H	SANDY; QTZ-CLY(MICA)
NA13704	B	M	L	G	COL	N		M	
NA13705	B	L	L	G	BDR	N	SCH	M	QTZ RICH
NA13706	B	L	L	G	BDR	N	QZT	M	OR LIMONITE COLOR QZT PEBBLES
NA13707	B	M	M	G	COL	P	SCH	M	SOME LOESS~ 20%? Amp sch (qtz-musc) pebbles
NA13708	B	L	L	G	COL	N	SCH	M	0.4M OF LOESS, SANDY, RK TYPE: MICACEOUS SCHIST
NA13709	B	L	L	G	COL	N	SCH	M	SANDY, RK TYPE: MICACEOUS SCHIST
NA13710	B	L	L	M	COL	N	SCH	M	SANDY, RK TYPE: QTZ-MUSC SCHIST
NA13711	B	L	L	M	COL	N	SCH	M	SANDY, RK TYPE QTZ-MUSC SCHIST
NA13712	B	L	L	M	COL	N	SCH	M	HINT OF ORANGE COLOUR, SANDY SL, RK TYPE QTZ-MUSC (?) SCHIST
NA13713	B	L	L	M	COL	N	SCH	M	POSSIBLY SOME MINOR LOESS, RK TYPE QTZ-MUSC-BIO SCHIST
NA13714	B	M	L	M	COL	N	SCH	H	TAN WITH LIGHT (LIMONITE) ORANGE TINGE, RK TYPE: QTZ-MUSC SCHIST
NA13715	B	M	L	M	COL	N	SCH	M	SANDY, ROCKY TYPE QTZ-MUSC SCHIST
NA13716	B	M	L	M	COL	N	SCH	M	SOME LOESS, GREATER THAN 30%? DUPLICATE OF 13718
NA13717	B	M	H	G	COL	P	SCH	L	SOME LOESS, BASE OF SLOPE, FROZEN LOESS DOWNSLOPE OF SAMPLE SITE, RK TYPE SCH-QTZ MICA
NA13719	C	L	L	G	BDR	N	AMP	H	RED-BROWN WITH WHITE PATCHES, RK TYPE AMP AND SCH

Sample Number	UTM East	UTM North	Datum	Geologist Name	Sample Date YR/MN/DY	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
NA13720	579535	7026824	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	2.12	8	-10	280	0.5	-2	0.64	-0.5	15	50	38	3.29	-10	-1	0.21
NA13721	578974	7026686	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	2.49	8	-10	250	0.7	-2	0.85	-0.5	18	53	49	4.06	10	-1	0.08
NA13722	578863	7026508	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	2.11	8	-10	370	0.8	-2	0.41	-0.5	13	27	26	3.8	10	1	0.12
NA13723	578895	7026403	NAD83,Z7	HULSTEIN	20030723	5	-0.2	2.59	3	-10	180	0.8	-2	1.5	-0.5	27	122	22	4.77	10	-1	0.07
NA13724	578178	7025945	NAD83,Z7	HULSTEIN	20030723	-1	-0.2	3.4	7	-10	260	0.5	-2	1.54	-0.5	24	83	57	4.89	10	1	0.22
NA14309	579120	7031216	NAD83,Z7	PRESNELL	20030723	1	-0.2	2.61	9	-10	160	0.5	-2	0.2	-0.5	10	34	31	3.34	10	1	0.27
NA14310	579285	7031363	NAD83,Z7	PRESNELL	20030723	-1	-0.2	2.17	-2	-10	130	0.6	-2	0.43	-0.5	12	8	30	3.36	10	2	0.55
NA14311	579453	7031486	NAD83,Z7	PRESNELL	20030723	2	-0.2	2.04	4	-10	140	-0.5	-2	0.32	-0.5	8	20	33	2.97	10	1	0.37
NA14312	579691	7031449	NAD83,Z7	PRESNELL	20030723	3	-0.2	1.75	5	-10	220	-0.5	-2	0.68	-0.5	9	31	35	2.82	-10	1	0.06
NA14313	580006	7031450	NAD83,Z7	PRESNELL	20030723	2	-0.2	2.17	-2	-10	240	-0.5	-2	0.61	-0.5	10	35	42	3.64	10	1	0.18
NA14314	580319	7031501	NAD83,Z7	PRESNELL	20030723	2	0.2	1.53	12	-10	280	-0.5	-2	0.79	-0.5	10	29	32	2.65	-10	1	0.08
NA14315	580470	7031438	NAD83,Z7	PRESNELL	20030723	3	-0.2	1.6	11	-10	330	-0.5	-2	1.08	-0.5	9	28	35	2.64	-10	2	0.07
NA14316	580654	7031400	NAD83,Z7	PRESNELL	20030723	-1	0.5	3.78	7	-10	230	0.5	-2	0.58	-0.5	11	16	71	4.55	10	1	1.18
NA14426	584833	7023499	NAD83,Z7	BOYER	20030721	-1	-0.2	4.09	3	-10	340	0.5	-2	0.5	-0.5	19	28	12	5.3	10	1	1.53
NA14427	584996	7023378	NAD83,Z7	BOYER	20030721	-1	0.2	2.4	4	-10	160	-0.5	-2	0.2	-0.5	8	36	53	3.15	10	1	0.05
NA14428	585135	7023232	NAD83,Z7	BOYER	20030721	2	-0.2	2.2	8	-10	200	0.5	-2	0.46	-0.5	13	35	28	3.25	10	1	0.05
NA14429	585314	7023151	NAD83,Z7	BOYER	20030721	1	-0.2	2.51	10	-10	220	0.5	-2	0.18	-0.5	9	29	18	3.33	10	1	0.21
NA14430	585535	7023205	NAD83,Z7	BOYER	20030721	1	-0.2	2.16	8	-10	230	0.5	-2	0.16	-0.5	11	35	19	2.86	10	1	0.1
NA14431	585664	7023377	NAD83,Z7	BOYER	20030721	1	-0.2	2.19	7	-10	210	0.5	-2	0.2	-0.5	11	33	23	3.1	-10	1	0.09
NA14432	585810	7023522	NAD83,Z7	BOYER	20030721	2	-0.2	2.18	8	-10	260	-0.5	-2	0.21	-0.5	10	31	17	2.93	10	1	0.1
NA14433	585971	7023657	NAD83,Z7	BOYER	20030721	2	-0.2	1.92	6	-10	300	0.6	-2	0.34	-0.5	9	38	30	3.07	-10	1	0.06
NA14434	586154	7023740	NAD83,Z7	BOYER	20030721	1	-0.2	2.51	9	-10	230	0.5	-2	0.23	-0.5	10	27	44	3.47	10	1	0.21
NA14435	586364	7023762	NAD83,Z7	BOYER	20030721	-1	-0.2	1.53	7	-10	230	0.5	-2	0.21	-0.5	7	25	16	2.5	-10	1	0.07
NA14436	586564	7023700	NAD83,Z7	BOYER	20030721	1	-0.2	2.4	9	-10	230	0.5	-2	0.14	-0.5	9	35	17	3.03	10	1	0.06
NA14437	586717	7023654	NAD83,Z7	BOYER	20030721	1	-0.2	1.91	7	-10	170	0.5	-2	0.15	-0.5	8	36	19	2.78	10	1	0.04
NA14438	586904	7023432	NAD83,Z7	BOYER	20030721	3	-0.2	2.27	9	-10	190	0.5	-2	0.14	-0.5	8	43	22	3.06	10	1	0.04
NA14439	587117	7023354	NAD83,Z7	BOYER	20030721	1	-0.2	1.94	7	-10	200	-0.5	-2	0.28	-0.5	11	55	27	2.87	-10	1	0.07
NA14440	587324	7023422	NAD83,Z7	BOYER	20030721	3	-0.2	2.03	10	-10	240	-0.5	-2	0.26	-0.5	9	32	16	2.89	10	1	0.05
NA14441	587490	7023290	NAD83,Z7	BOYER	20030721	1	0.2	2.4	9	-10	230	0.5	-2	0.48	-0.5	10	31	32	3.1	10	1	0.14
NA14442	587686	7023196	NAD83,Z7	BOYER	20030621	1	-0.2	2.13	9	-10	130	0.5	-2	0.18	-0.5	8	33	13	2.99	10	1	0.14
NA14443	587900	7023148	NAD83,Z7	BOYER	20030721	1	-0.2	1.78	7	-10	230	0.6	-2	0.36	-0.5	10	34	22	3.14	10	1	0.23
NA14444	588114	7023192	NAD83,Z7	BOYER	20030721	2	-0.2	3.27	21	-10	270	0.8	-2	0.77	-0.5	20	59	49	4.78	10	-1	0.06
NA14445	588313	7023129	NAD83,Z7	BOYER	20030721	3	-0.2	1.95	8	-10	570	1.1	-2	2.55	-0.5	14	17	31	3.97	10	-1	0.22
NA14446	586453	7024721	NAD83,Z7	BOYER	20030722	-1	-0.2	1.35	9	-10	330	0.8	-2	0.38	-0.5	11	13	16	4.41	10	1	0.24
NA14447	586251	7024755	NAD83,Z7	BOYER	20030722	3	-0.2	1.56	8	-10	130	-0.5	-2	0.19	-0.5	7	22	15	2.35	-10	-1	0.06
NA14448	586046	7024755	NAD83,Z7	BOYER	20030722	2	-0.2	2.37	19	-10	190	0.5	-2	0.14	-0.5	11	35	15	3.11	-10	1	0.05
NA14449	585896	7024886	NAD83,Z7	BOYER	20030722	2	-0.2	1.34	8	-10	150	-0.5	-2	0.14	-0.5	9	20	11	2.58	-10	-1	0.08
NA14450	585719	7025009	NAD83,Z7	BOYER	20030722	2	-0.2	2.16	15	-10	180	-0.5	-2	0.11	-0.5	9	30	15	2.9	-10	-1	0.04
NA14451	585530	7025091	NAD83,Z7	BOYER	20030722	11	-0.2	2.3	15	-10	240	0.5	-2	0.15	-0.5	10	37	19	3.05	10	1	0.06

Sample Number	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics
NA13720	10	0.99	413	-1	0.03	20	390	13	0.01	-2	8	175	0.16	-10	-10	83	-10	56	BN	QE	0.5	M	
NA13721	10	1.06	608	-1	0.03	24	490	27	0.01	3	9	80	0.23	-10	-10	106	-10	66	BN	QE	0.3	M	
NA13722	20	0.57	507	2	0.01	18	260	18	0.01	3	11	25	0.04	-10	-10	91	-10	67	OR	QE	0.35	M	
NA13723	20	2.14	1140	-1	0.06	46	2430	10	-0.01	2	16	54	0.25	-10	-10	146	-10	76	OL	QE	0.45	M	
NA13724	10	2.05	818	-1	0.03	36	1040	4	-0.01	-2	10	116	0.33	-10	-10	120	-10	68	GN	QE	0.4	M	
NA14309	10	0.79	409	-1	0.01	23	220	10	0.01	-2	5	26	0.16	-10	-10	75	-10	61	TA	QE	1	F	3
NA14310	30	0.85	550	1	0.01	6	520	17	-0.01	-2	6	38	0.09	-10	-10	79	-10	45	TA	QL	2	F	3
NA14311	10	0.86	352	-1	0.01	12	500	4	0.01	-2	5	50	0.13	-10	-10	68	-10	48	BN	QE	1	F	3
NA14312	10	0.66	329	-1	0.03	22	680	6	0.01	-2	7	52	0.13	-10	-10	66	-10	63	BN	QE	2.5	F	4
NA14313	10	1.14	489	-1	0.03	24	700	9	0.02	-2	9	57	0.15	-10	-10	92	-10	174	TA	QD	2.5	F	3
NA14314	10	0.68	407	1	0.03	27	720	9	0.02	-2	5	46	0.1	-10	-10	56	-10	65	BN	QD	2	F	3
NA14315	10	0.69	420	1	0.04	27	650	6	0.03	-2	5	51	0.1	-10	-10	54	-10	67	BN	QD	2	F	10
NA14316	20	1.8	619	1	0.01	8	440	7	0.01	2	5	93	0.21	-10	-10	114	-10	77	TA	QE	10	I	3
NA14426	20	2.32	1010	-1	0.01	22	560	2	-0.01	3	3	45	0.35	-10	-10	125	-10	108	BN	QE	0.4	M	4
NA14427	10	0.89	306	-1	0.01	16	110	5	-0.01	-2	5	20	0.12	-10	-10	83	-10	55	OR	QE	0.25	M	4
NA14428	10	0.87	401	-1	0.01	20	210	7	-0.01	-2	6	46	0.15	-10	-10	70	-10	56	OR	QL	0.4	M	3
NA14429	20	0.94	453	-1	0.01	17	180	7	-0.01	2	6	19	0.12	-10	-10	79	-10	52	OR	QE	0.4	M	3
NA14430	20	0.56	353	-1	0.01	20	160	6	-0.01	-2	5	17	0.1	-10	-10	63	-10	50	BN	QE	0.3	M	4
NA14431	20	0.68	338	-1	0.01	22	160	8	-0.01	2	5	25	0.13	-10	-10	69	-10	56	BN	QE	0.3	M	4
NA14432	10	0.61	321	-1	0.01	19	200	6	-0.01	-2	3	21	0.11	-10	-10	64	-10	46	BN	QE	0.5	M	3
NA14433	30	0.59	379	-1	0.02	29	190	7	-0.01	-2	8	33	0.11	-10	-10	65	-10	61	BN	QE	0.5	M	4
NA14434	30	0.96	430	-1	0.01	15	140	8	-0.01	2	7	24	0.15	-10	-10	76	-10	59	BN	QE	0.4	M	5
NA14435	20	0.39	242	-1	0.01	17	330	9	-0.01	3	3	18	0.06	-10	-10	46	-10	43	OR	QE	0.4	M	3
NA14436	10	0.49	284	-1	0.01	22	200	8	-0.01	-2	4	15	0.09	-10	-10	64	-10	47	BN	QL	0.3	M	5
NA14437	20	0.47	286	-1	0.01	21	130	10	-0.01	-2	5	18	0.09	-10	-10	59	-10	44	BN	QE	0.3	M	5
NA14438	20	0.48	267	-1	0.01	22	160	8	-0.01	-2	7	16	0.11	-10	-10	70	-10	50	OR	QU	0.3	M	5
NA14439	20	0.74	290	-1	0.01	29	150	3	-0.01	3	5	25	0.13	-10	-10	82	-10	47	BN	QE	0.4	M	5
NA14440	10	0.53	321	-1	0.01	22	360	8	-0.01	2	3	22	0.1	-10	-10	63	-10	59	BN	QE	0.4	M	3
NA14441	10	0.84	358	-1	0.01	23	530	7	0.01	5	6	49	0.13	-10	-10	69	-10	56	BN	QE	0.4	M	2
NA14442	10	0.5	232	-1	0.01	18	240	8	-0.01	-2	3	18	0.12	-10	-10	59	-10	58	BN	QL	0.3	M	5
NA14443	30	0.45	366	-1	0.01	23	180	6	0.01	2	8	21	0.1	-10	-10	58	-10	45	BN	QL	0.3	M	5
NA14444	10	1.24	449	-1	0.01	36	330	2	0.01	4	15	53	0.07	-10	-10	111	-10	62	BN	QL	0.4	M	6
NA14445	30	0.54	628	1	0.01	19	970	5	0.02	3	9	43	0.01	-10	-10	41	-10	61	OR	QL	0.4	M	6
NA14446	30	0.4	808	1	0.01	11	660	16	-0.01	5	11	17	0.04	-10	-10	69	-10	73	OR	QE	0.4	M	4
NA14447	20	0.43	208	-1	0.01	15	100	5	-0.01	3	4	18	0.06	-10	-10	46	-10	40	BN	QE	0.3	M	3
NA14448	10	0.52	284	1	0.01	20	230	6	0.01	3	3	16	0.1	-10	-10	69	-10	48	OR	QE	0.25	M	4
NA14449	10	0.34	661	1	0.01	11	390	7	0.01	3	4	12	0.08	-10	-10	63	-10	40	OR	QE	0.3	M	3
NA14450	10	0.42	189	1	0.01	20	190	8	0.01	3	3	13	0.08	-10	-10	64	-10	42	OR	QE	0.3	M	6
NA14451	20	0.5	276	1	0.01	22	190	23	-0.01	2	4	17	0.09	-10	-10	64	-10	50	BN	QE	0.3	M	7

Sample Number	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominant Rock Type	Sample Quality	Sample Description Notes
NA13720	B	M	L	M	COL	N	AMP	M	SOME LOESS, GREEN-BRN COLOUR SL
NA13721	B	L	L	M	BDR	N	AMP	M	SOME LOESS
NA13722	C	L	L	G	BDR	N		H	SANDY, ORANGE BROWN
NA13723	C	L	L	M	BDR	N	AMP	H	
NA13724	B	L	L	M	BDR	N	AMP	M	
NA14309	C	L	L	F	BDR	N	SCH	H	QTZ SCHIST, 10% LOESS CONTAMINATION
NA14310	C	L	L	G	BDR	N	SCH	M	QTZ MUSC SCHIST, 30% LOESS CONTAMINATION
NA14311	C	L	L	G	BDR	N	SCH	H	QTZ BIO SCHIST
NA14312	B	L	L	G	BDR	N	AMP	H	WITH SOME MAGNETITE
NA14313	C	L	L	G	BDR	N	SCH	H	BIO QTZ SCHIST
NA14314	B	L	L	G	BDR	N		H	
NA14315	B	M	M	F	BDR	S	SCH	H	MICA SCHIST
NA14316	C	L	L	F	BDR	N	SCH	H	QUARTZ MUSC SCHIST
NA14426	BC	M	L	F	BDR	N		H	
NA14427	bc	m	M	G	BDR	N		H	
NA14428	BC	M	M	G	BDR	N		H	
NA14429	BC	M	M	G	BDR	N		H	
NA14430	BC	M	M	M	BDR	N		H	
NA14431	BC	M	M	G	BDR	N		H	
NA14432	BC	M	M	F	BDR	N		H	
NA14433	BC	M	M	F	BDR	N		H	
NA14434	BC	M	M	F	BDR	N		H	
NA14435	BC	M	M	G	BDR	N		H	
NA14436	BC	M	M	G	BDR	N		H	
NA14437	BC	M	M	G	BDR	N		H	
NA14438	BC	M	M	F	BDR	N		H	
NA14439	BC	M	M	G	BDR	N		H	
NA14440	BC	M	L	M	BDR	N		H	
NA14441	BC	M	M	M	BDR	N		H	
NA14442	BC	M	L	M	BDR	N		H	
NA14443	BC	M	L	M	BDR	N		H	
NA14444	BC	M	L	M	BDR	N		H	
NA14445	BC	M	L	M	BDR	N		H	
NA14446	BC	M	M	G	BDR	N		H	
NA14447	BC	M	L	F	BDR	N		H	
NA14448	BC	M	L	F	BDR	N		H	
NA14449	BC	M	L	G	BDR	N		H	
NA14450	BC	M	L	G	BDR	N		H	
NA14451	BC	M	L	F	BDR	N		H	

Sample Number	UTM East	UTM North	Datum	Geologist Name	Sample Date YR/MN/DY	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %
NA14452	585368	7025244	NAD83,Z7	BOYER	20030722	1	-0.2	0.94	15	-10	280	-0.5	-2	0.11	-0.5	4	14	10	1.61	-10	-1	0.04
NA14453	585175	7025296	NAD83,Z7	BOYER	20030722	2	-0.2	1.14	6	-10	130	-0.5	-2	0.11	-0.5	5	20	10	2.03	-10	-1	0.05
NA14454	584973	7025367	NAD83,Z7	BOYER	20030722	-1	-0.2	1.53	9	-10	150	-0.5	-2	0.2	-0.5	7	26	11	2.74	10	-1	0.09
NA14455	584742	7025332	NAD83,Z7	BOYER	20030722	-1	-0.2	1.71	7	-10	170	-0.5	-2	0.28	-0.5	8	25	13	2.39	-10	-1	0.04
NA14456	584504	7025402	NAD83,Z7	BOYER	20030722	-1	-0.2	1.69	8	-10	250	0.5	-2	0.3	-0.5	7	29	32	3.08	10	-1	0.07
NA14457	584296	7025459	NAD83,Z7	BOYER	20030722	-1	-0.2	1.97	16	-10	220	0.5	2	0.25	-0.5	10	50	42	3.07	10	-1	0.08
NA14458	584053	7025513	NAD83,Z7	BOYER	20030722	3	1.2	1.57	11	-10	1400	-0.5	3	0.41	-0.5	7	26	15	2.43	-10	1	0.1
NA14459	583846	7025556	NAD83,Z7	BOYER	20030722	4	0.2	1.36	14	-10	290	-0.5	-2	0.73	-0.5	10	26	34	2.5	10	1	0.06

Sample Number	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics
NA14452	10	0.21	141	-1	-0.01	8	90	7	-0.01	2	3	18	0.02	-10	-10	26	-10	26	OR	QL	0.3	M	3
NA14453	10	0.3	188	-1	0.01	11	90	6	-0.01	2	2	12	0.05	-10	-10	37	-10	35	BN	QE	0.5	M	6
NA14454	10	0.41	367	1	0.01	13	260	8	0.01	-2	3	17	0.09	-10	-10	66	-10	60	BN	QE	0.3	M	6
NA14455	10	0.44	217	-1	0.01	16	230	5	-0.01	2	3	25	0.08	-10	-10	60	-10	49	BN	QL	0.2	M	10
NA14456	10	0.53	393	1	0.02	21	210	10	-0.01	2	7	23	0.08	-10	-10	61	-10	79	BN	QE	0.7	M	4
NA14457	10	0.74	245	-1	0.01	24	170	100	-0.01	3	6	23	0.11	-10	-10	79	-10	53	BN	QE	0.4	M	6
NA14458	10	0.34	331	2	0.01	16	200	218	0.02	5	4	36	0.06	-10	-10	51	-10	43	BN	QE	0.5	M	11
NA14459	20	0.55	420	-1	0.03	24	780	13	0.01	-2	4	43	0.09	-10	-10	54	-10	60	GY	QE	0.5	M	5

Sample Number	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominant Rock Type	Sample Quality	Sample Description Notes
NA14452	BC	M	M	G	BDR	N		H	
NA14453	BC	M	L	G	BDR	N		H	
NA14454	BC	M	L	M	BDR	N		H	
NA14455	BC	M	L	M	BDR	N	SCH	M	
NA14456	BC	M	L	M	BDR	N		M	
NA14457	BC	M	M	M	BDR	N		H	
NA14458	BC	M	M	M	BDR	N		H	
NA14459	BC	M	H	M	BDR	S		M	

Appendix D

Soil Geochemistry Statistics and Quality Control

**Kennecott Canada Exploration Inc.
Lucky Joe Project, Yukon Territory
2003 Soil Geochemistry Descriptive Statistics**

	Au (ppb)	Ag (ppm)	Al (%)	As (ppm)	B (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)
Mean	5.51	-0.04	2.36	6.13	-9.84	304.83	0.10	-1.31	0.51	-0.25	#DIV/0!	12.90	34.84	#DIV/0!	85.90
Standard Error	0.58	0.01	0.02	0.33	0.04	5.76	0.01	0.09	0.02	0.04	65535.00	0.19	0.77	65535.00	4.86
Median	2	-0.2	2.24	5	-10	240	0.5	-2	0.36	-0.5	#NUM!	11	28	#NUM!	36
Mode	1	-0.2	1.78	5	-10	230	-0.5	-2	0.21	-0.5	#N/A	11	26	#N/A	23
Standard Deviation	26.65	0.68	0.77	15.18	1.78	265.69	0.61	4.11	0.76	1.89	#DIV/0!	8.69	35.41	#DIV/0!	224.03
Sample Variance	710.17	0.46	0.59	230.45	3.17	70589.59	0.37	16.92	0.58	3.58	#DIV/0!	75.45	1253.77	#DIV/0!	50188.30
Kurtosis	305.03	484.89	1.43	774.88	120.35	95.20	-0.58	665.02	182.53	1478.07	#DIV/0!	237.36	100.95	#DIV/0!	111.71
Skewness	16.21	18.64	0.93	24.83	11.06	7.13	0.33	23.15	11.52	35.82	#DIV/0!	11.21	7.82	#DIV/0!	8.92
Range	612	21	5.75	539	20	5540	4.4	134	14.99	79.8	0	237	722	0	4396
Minimum	-1	-0.2	0.2	-2	-10	30	-0.5	-2	0.01	-0.5	0	-1	3	0	4
Maximum	611	20.8	5.95	537	10	5570	3.9	132	15	79.3	0	236	725	0	4400
Sum	11721	-82.7	5022.93	13037	-20920	648060	214.9	-2781	1085.42	-529.8	0	27432	74076	0	182615
Count	2126	2126	2126	2126	2126	2126	2126	2126	2126	2126	0	2126	2126	0	2126
Largest(1)	611	20.8	5.95	537	10	5570	3.9	132	15	79.3	#NUM!	236	725	#NUM!	4400
Smallest(1)	-1	-0.2	0.2	-2	-10	30	-0.5	-2	0.01	-0.5	#NUM!	-1	3	#NUM!	4
Confidence Level(95.0%)	1.13	0.03	0.03	0.65	0.08	11.30	0.03	0.17	0.03	0.08	#NUM!	0.37	1.51	#NUM!	9.53

Fe (%)	Ga (ppm)	Ge (ppm)	Hf (ppm)	Hg (ppm)	In (ppm)	K (%)	La (ppm)	Li (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Nb (ppm)	Ni (ppm)	P (ppm)	Pb (ppm)	Rb (ppm)
3.89	7.75	#DIV/0!	#DIV/0!	-0.58	#DIV/0!	0.36	20.75	#DIV/0!	0.90	489.48	1.56	0.03	#DIV/0!	23.17	723.20	13.20	#DIV/0!
0.03	0.15	65535.00	65535.00	0.02	65535.00	0.01	0.37	65535.00	0.01	7.15	0.21	0.00	65535.00	0.53	15.66	0.65	65535.00
3.58	10	#NUM!	#NUM!	-1	#NUM!	0.24	20	#NUM!	0.79	421	1	0.02	#NUM!	17	540	8	#NUM!
3.12	10	#N/A	#N/A	-1	#N/A	0.07	10	#N/A	0.61	362	-1	0.01	#N/A	12	500	7	#N/A
1.39	6.73	#DIV/0!	#DIV/0!	0.85	#DIV/0!	0.34	17.28	#DIV/0!	0.46	329.59	9.68	0.05	#DIV/0!	24.56	722.17	29.77	#DIV/0!
1.94	45.23	#DIV/0!	#DIV/0!	0.73	#DIV/0!	0.11	298.63	#DIV/0!	0.22	108626.37	93.63	0.00	#DIV/0!	603.37	521532.26	886.08	#DIV/0!
5.95	3.10	#DIV/0!	#DIV/0!	0.99	#DIV/0!	3.60	27.47	#DIV/0!	11.56	84.46	664.21	135.44	#DIV/0!	68.25	56.40	265.71	#DIV/0!
1.82	-2.10	#DIV/0!	#DIV/0!	1.63	#DIV/0!	1.71	3.38	#DIV/0!	2.12	6.01	22.43	9.48	#DIV/0!	6.62	5.86	13.58	#DIV/0!
13.35	30	0	0	4	0	2.61	280	0	6.08	6855	325	1.04	0	422	9950	769	0
0.65	-10	0	0	-1	0	0.01	-10	0	0.02	-5	-1	-0.01	0	-1	50	-2	0
14	20	0	0	3	0	2.62	270	0	6.1	6850	324	1.03	0	421	10000	767	0
8267.26	16470	0	0	-1229	0	762.43	44120	0	1919.61	1040626	3310	57.11	0	49254	1537520	28057	0
2126	2126	0	0	2126	0	2126	2126	0	2126	2126	2126	2126	0	2126	2126	2126	0
14	20	#NUM!	#NUM!	3	#NUM!	2.62	270	#NUM!	6.1	6850	324	1.03	#NUM!	421	10000	767	#NUM!
0.65	-10	#NUM!	#NUM!	-1	#NUM!	0.01	-10	#NUM!	0.02	-5	-1	-0.01	#NUM!	-1	50	-2	#NUM!
0.06	0.29	#NUM!	#NUM!	0.04	#NUM!	0.01	0.73	#NUM!	0.02	14.02	0.41	0.00	#NUM!	1.04	30.72	1.27	#NUM!

Re (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Se (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Te (ppm)	Th (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)
#DIV/0!	0.11	-1.10	6.78	#DIV/0!	#DIV/0!	44.80	#DIV/0!	#DIV/0!	#DIV/0!	0.14	-9.65	-9.75	78.36	-9.69	#DIV/0!	98.37
65535.00	0.01	0.04	0.09	65535.00	65535.00	1.26	65535.00	65535.00	65535.00	0.00	0.06	0.05	0.83	0.05	65535.00	2.37
#NUM!	0.01	-2	6	#NUM!	#NUM!	31	#NUM!	#NUM!	#NUM!	0.13	-10	-10	68	-10	#NUM!	73
#N/A	0.01	-2	4	#N/A	#N/A	18	#N/A	#N/A	#N/A	0.11	-10	-10	64	-10	#N/A	62
#DIV/0!	0.38	1.87	4.09	#DIV/0!	#DIV/0!	58.12	#DIV/0!	#DIV/0!	#DIV/0!	0.07	2.86	2.24	38.29	2.48	#DIV/0!	109.34
#DIV/0!	0.14	3.49	16.76	#DIV/0!	#DIV/0!	3377.93	#DIV/0!	#DIV/0!	#DIV/0!	0.01	8.20	5.02	1486.11	6.17	#DIV/0!	11955.30
#DIV/0!	54.65	3.20	6.37	#DIV/0!	#DIV/0!	175.24	#DIV/0!	#DIV/0!	#DIV/0!	3.13	91.54	73.93	24.84	64.55	#DIV/0!	120.31
#DIV/0!	6.45	1.88	2.08	#DIV/0!	#DIV/0!	10.47	#DIV/0!	#DIV/0!	#DIV/0!	1.03	8.95	8.71	3.22	8.09	#DIV/0!	9.21
0	5.44	16	39	0	0	1284	0	0	0	0.68	50	20	602	30	0	2007
0	-0.01	-2	-1	0	0	6	0	0	0	-0.01	-10	-10	7	-10	0	3
0	5.43	14	38	0	0	1290	0	0	0	0.67	40	10	609	20	0	2010
0	229.19	-2328	14416	0	0	95244	0	0	0	297.84	-20510	-20720	166594	-20610	0	209145
0	2126	2126	2126	0	0	2126	0	0	0	2126	2126	2126	2126	2126	0	2126
#NUM!	5.43	14	38	#NUM!	#NUM!	1290	#NUM!	#NUM!	#NUM!	0.67	40	10	609	20	#NUM!	2010
#NUM!	-0.01	-2	-1	#NUM!	#NUM!	6	#NUM!	#NUM!	#NUM!	-0.01	-10	-10	7	-10	#NUM!	3
#NUM!	0.02	0.08	0.17	#NUM!	#NUM!	2.47	#NUM!	#NUM!	#NUM!	0.00	0.12	0.10	1.63	0.11	#NUM!	4.65

**Kennecott Canada Exploration Inc.
Lucky Joe Project, Yukon Territory
2003 Soil Geochemistry, Percentiles**

	Au (ppb)	Ag (ppm)	Al (%)	As (ppm)	B (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)
Total Count	2621	2680	3157	3157	3112	3157	2171	2871	3155	3157	45	3155	3157	45
Number Missing	536	477	0	0	45	0	986	486	2	0	3112	2	0	3112
Detection Limits	-1	-0.2		(-2) (-0.1)	-10		-0.5	-2		(-0.5) (-0.01)		-1		
Count	380	1668		(311) (4)	2109		1033	1871		(2311) (13)		2		
Percent	14.50%	62.20%		(9.9%) (.1%)	67.80%		47.60%	70.00%		(73.2%) (.4%)		0.10%		
Value	0.5	0.1		0.05	5		0.25	1		0.005		0.5		
Mean	5.99	0.19	2.35	6.10	3.72	306.07	0.49	1.19	0.51	0.16	87.27	12.16	32.81	2.73
Minimum	0.10	0.01	0.08	0.10	0.50	30.00	0.50	0.01	0.01	0.00	44.80	0.30	1.00	1.49
Maximum	611.00	20.80	10.40	537.00	10.00	5570.00	4.03	132.00	15.00	79.30	190.00	236.00	725.00	6.20
Percentiles														
10.00	0.50	0.07	1.52	0.10	0.50	140.00	0.25	0.17	0.16	0.00	54.70	6.00	13.00	1.98
20.00	1.00	0.10	1.70	3.00	0.50	170.00	0.25	1.00	0.21	0.00	56.80	8.00	18.00	2.20
30.00	1.00	0.10	1.84	4.00	3.00	195.00	0.25	1.00	0.26	0.00	63.20	9.00	22.00	2.41
40.00	2.00	0.10	2.00	4.50	5.00	220.00	0.25	1.00	0.32	0.00	71.70	10.00	25.00	2.59
50.00	2.00	0.10	2.15	5.00	5.00	243.90	0.50	1.00	0.37	0.00	75.50	11.00	28.00	2.66
55.00	2.40	0.10	2.24	6.00	5.00	260.00	0.50	1.00	0.40	0.00	77.70	11.00	29.00	2.68
60.00	3.00	0.10	2.34	6.00	5.00	272.00	0.50	1.00	0.44	0.00	81.80	12.00	31.00	2.71
65.00	3.00	0.10	2.44	6.80	5.00	290.00	0.50	1.00	0.48	0.00	88.70	13.00	32.00	2.74
70.00	4.00	0.10	2.58	7.00	5.00	309.90	0.60	1.00	0.52	0.00	90.80	14.00	34.00	2.77
75.00	4.00	0.11	2.69	8.00	5.00	330.00	0.60	1.00	0.58	0.03	100.00	15.00	36.00	2.84
80.00	5.00	0.20	2.86	8.00	5.00	360.00	0.70	1.00	0.67	0.07	120.00	16.00	39.00	3.00
85.00	6.40	0.30	3.04	9.00	5.00	410.00	0.70	1.00	0.78	0.15	120.00	17.00	43.00	3.07
90.00	9.00	0.30	3.35	10.00	5.00	500.00	0.80	2.00	0.83	0.50	150.00	19.00	50.00	3.63
91.00	10.00	0.35	3.41	10.00	5.00	520.00	0.90	2.00	0.97	0.50	150.00	20.00	52.60	3.63
92.00	11.00	0.40	3.48	10.00	5.00	550.00	0.90	2.00	1.04	0.60	150.00	20.00	54.00	3.63
93.00	12.00	0.40	3.57	10.20	5.00	580.00	0.90	2.00	1.12	0.60	150.00	21.00	57.00	3.84
94.00	13.00	0.43	3.67	11.00	5.00	639.00	1.00	2.00	1.17	0.70	150.00	22.00	62.00	3.84
95.00	15.00	0.50	3.83	11.10	5.00	690.00	1.00	2.00	1.27	0.70	150.00	22.70	67.00	3.87
96.00	19.80	0.60	4.02	12.00	5.00	780.00	1.10	3.00	1.42	0.80	150.00	24.00	74.00	3.87
97.00	26.00	0.70	4.32	14.00	5.00	916.00	1.20	3.00	1.54	0.90	170.00	25.00	85.00	4.02
98.00	37.00	1.00	4.97	15.00	5.00	1040.00	1.30	3.87	1.75	1.10	170.00	27.00	112.00	4.02
99.00	65.00	1.30	6.88	22.00	5.00	1350.00	1.60	4.00	2.27	1.60	190.00	34.00	158.00	6.20

	Cu (ppm)	Fe (%)	Ga (ppm)	Ge (ppm)	Hf (ppm)	Hg (ppm)	In (ppm)	K (%)	La (ppm)	Li (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Nb (ppm)	Ni (ppm)
Total Count	3157	3157	2623	49	45	2574	45	3157	3157	45	3157	3157	3157	3157	45	3154
Number Missing	0	0	534	3108	3112	583	3112	0	0	3112	0	0	0	0	3112	3
Detection Limits			-10			-1			-10			-5	-1	-0.01		-1
Count			258			1699			51			1	989	10		1
Percent			9.80%			66.00%			1.60%			0.00%	31.30%	0.30%		0.00%
Value			5			0.5			5			2.5	0.5	0.005		0.5
Mean	85.08	3.72	9.45	1.84	1.49	3.94	0.19	0.38	20.60	18.80	0.90	498.48	2.27	0.05	8.32	20.97
Minimum	2.00	0.48	2.40	0.30	0.50	1.00	0.05	0.01	1.40	10.50	0.01	2.00	0.09	0.00	2.20	0.30
Maximum	4400.00	14.00	34.10	17.00	2.30	226.00	2.80	3.10	270.00	24.30	6.10	6850.00	324.00	1.94	26.30	488.20
Percentiles																
10.00	14.00	2.47	5.00	0.39	1.20	0.50	0.05	0.06	10.00	14.80	0.47	233.00	0.50	0.01	3.20	8.00
20.00	18.00	2.72	8.00	0.43	1.30	0.50	0.05	0.08	10.00	17.00	0.54	288.00	0.50	0.01	4.40	11.00
30.00	23.00	2.94	10.00	0.46	1.40	0.50	0.06	0.11	10.00	18.10	0.61	336.00	0.50	0.01	5.10	12.50
40.00	27.00	3.14	10.00	0.47	1.50	0.50	0.06	0.16	11.20	18.90	0.68	382.00	0.50	0.01	5.60	14.00
50.00	33.00	3.40	10.00	0.50	1.50	0.50	0.07	0.23	18.50	19.30	0.77	430.00	1.00	0.02	7.40	16.00
55.00	36.53	3.54	10.00	0.52	1.50	0.50	0.08	0.27	20.00	19.50	0.83	455.00	1.00	0.02	7.50	17.00
60.00	41.00	3.69	10.00	0.54	1.50	0.50	0.08	0.32	20.00	19.60	0.89	485.00	1.00	0.02	7.90	18.00
65.00	45.00	3.87	10.00	0.60	1.60	0.50	0.08	0.37	20.00	19.80	0.95	514.00	1.00	0.02	9.10	20.00
70.00	52.00	4.08	10.00	0.60	1.60	1.00	0.09	0.45	20.00	20.20	1.02	552.00	1.00	0.02	9.60	21.00
75.00	61.00	4.32	10.00	0.63	1.60	1.00	0.11	0.53	23.00	20.30	1.10	596.00	1.36	0.03	10.40	23.00
80.00	72.00	4.62	10.00	0.64	1.60	1.00	0.12	0.62	30.00	20.70	1.20	656.00	2.00	0.03	12.50	26.00
85.00	92.00	4.92	10.00	0.67	1.70	8.00	0.12	0.75	30.00	20.90	1.34	739.00	2.00	0.04	13.10	29.00
90.00	140.00	5.36	10.00	0.68	1.80	14.00	0.19	0.84	40.00	21.60	1.55	831.00	3.68	0.05	13.80	35.00
91.00	159.00	5.51	10.00	0.70	1.80	16.00	0.19	0.99	40.00	21.60	1.60	860.00	4.00	0.05	13.80	37.00
92.00	181.00	5.67	10.00	0.70	1.80	17.00	0.19	1.03	40.00	21.60	1.65	890.00	4.55	0.06	13.80	39.00
93.00	214.00	5.82	10.00	12.00	1.90	19.00	0.21	1.08	44.70	21.80	1.71	923.00	5.00	0.07	14.30	41.00
94.00	256.00	6.00	10.20	12.00	1.90	21.00	0.21	1.16	50.00	21.80	1.76	970.00	6.00	0.08	14.30	44.00
95.00	305.77	6.27	10.90	13.00	1.90	22.00	0.24	1.23	50.00	22.10	1.82	1010.00	8.00	0.10	14.80	46.00
96.00	398.00	6.52	12.40	13.00	1.90	25.00	0.24	1.29	52.20	22.10	1.82	1070.00	9.00	0.13	14.80	55.00
97.00	531.00	6.78	16.50	15.00	2.00	29.00	2.30	1.42	60.00	22.30	2.05	1141.00	11.19	0.17	21.20	61.00
98.00	688.70	7.52	19.65	15.00	2.00	33.00	2.30	1.56	70.00	22.30	2.15	1235.00	16.00	0.31	21.20	73.00
99.00	1105.00	8.64	20.00	17.00	2.30	41.00	2.80	1.70	80.00	24.30	2.38	1502.00	27.33	1.24	28.30	100.00

	P (ppm)	Pb (ppm)	Rb (ppm)	Re (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Se (ppm)	Sn (ppm)	Sr (ppm)	Ta (ppm)	Te (ppm)	Th (ppm)	Ti (%)	Ti (ppm)
Total Count	3157	3157	45	45	2623	2643	2578	497	46	3156	45	497	1031	3107	2623
Number Missing	0	0	3112	3112	534	514	579	2660	3111	1	3112	2660	2126	50	534
Detection Limits		-2			-0.01	-2	-1							-0.01	-10
Count		63			416	1701	1							7	2092
Percent		2.00%			15.90%	64.40%	0.00%							0.20%	79.80%
Value		1			0.005	1	0.5							0.005	5
Mean	496.39	12.33	85.96	0.00	0.13	1.14	6.64	1.17	3.61	49.79	0.32	0.11	7.03	0.14	4.18
Minimum	0.01	0.74	45.20	0.00	0.00	0.03	1.00	0.05	1.40	5.00	0.03	0.01	0.20	0.00	0.02
Maximum	10000.00	767.00	150.00	0.02	5.43	14.00	38.00	16.50	45.00	1290.00	1.77	3.14	65.50	0.67	40.00
Percentiles															
10.00	0.04	4.00	53.50	0.00	0.00	0.31	3.00	0.20	1.60	17.00	0.03	0.01	2.00	0.07	0.16
20.00	0.06	5.00	61.60	0.00	0.00	1.00	4.00	0.20	1.60	21.00	0.05	0.02	3.00	0.09	5.00
30.00	0.14	6.00	69.30	0.00	0.01	1.00	4.00	0.30	1.80	24.80	0.07	0.02	4.00	0.10	5.00
40.00	260.00	7.00	72.10	0.00	0.01	1.00	5.00	0.30	1.90	28.00	0.10	0.03	4.40	0.11	5.00
50.00	380.00	8.00	79.00	0.00	0.01	1.00	5.60	0.40	2.00	32.00	0.20	0.03	5.40	0.12	5.00
55.00	430.00	8.21	82.00	0.00	0.01	1.00	6.00	0.40	2.10	35.00	0.26	0.04	6.00	0.13	5.00
60.00	490.00	9.00	85.40	0.00	0.01	1.00	6.00	0.50	2.20	38.00	0.27	0.05	6.20	0.14	5.00
65.00	530.00	10.00	86.70	0.00	0.02	1.00	7.00	0.60	2.30	42.00	0.33	0.06	7.00	0.15	5.00
70.00	600.00	10.00	90.50	0.00	0.02	1.00	7.00	0.90	2.40	46.50	0.38	0.09	8.00	0.16	5.00
75.00	680.00	11.00	100.00	0.00	0.03	1.00	8.00	1.00	2.60	53.80	0.44	0.12	9.00	0.17	5.00
80.00	780.00	12.00	110.00	0.00	0.05	1.00	9.00	1.40	3.00	62.00	0.47	0.15	10.00	0.19	5.00
85.00	900.00	14.00	120.00	0.00	0.12	2.00	10.00	2.00	3.90	75.00	0.55	0.19	12.00	0.21	5.00
90.00	1090.00	19.00	130.00	0.01	0.30	2.00	11.20	3.30	4.40	95.00	0.74	0.26	14.40	0.24	5.00
91.00	1130.00	20.31	130.00	0.01	0.35	2.00	12.00	3.80	5.40	103.10	0.74	0.28	15.00	0.25	5.00
92.00	1190.00	22.40	130.00	0.01	0.42	2.00	12.00	4.10	5.40	109.60	0.74	0.31	15.90	0.25	5.00
93.00	1240.00	25.00	140.00	0.01	0.50	2.00	13.00	4.40	7.80	117.00	1.01	0.33	17.00	0.26	5.00
94.00	1330.00	27.00	140.00	0.01	0.63	3.00	14.00	4.60	7.80	128.00	1.01	0.37	17.60	0.27	5.00
95.00	1450.00	30.00	140.00	0.01	0.77	3.00	14.50	4.90	8.60	139.00	1.06	0.36	18.20	0.28	5.00
96.00	1620.00	34.80	140.00	0.01	0.97	3.00	16.00	5.40	8.60	159.00	1.06	0.41	19.00	0.29	5.00
97.00	1890.00	43.00	150.00	0.01	1.23	3.00	17.00	6.40	10.00	186.00	1.22	0.47	20.40	0.31	5.00
98.00	2320.00	61.40	150.00	0.01	1.47	3.00	19.00	7.40	10.00	222.00	1.22	0.60	22.00	0.36	5.00
99.00	2980.00	96.00	150.00	0.02	1.99	4.00	21.40	10.10	45.00	274.00	1.77	0.92	27.30	0.43	10.00

	U (ppm)	V (ppm)	W (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
Total Count	2625	3157	3157	45	3157	45
Number Missing	532	0	0	3112	0	3112
Detection Limits	-10		-10			
Count	2099		2094			
Percent	80.00%		66.30%			
Value	5		5			
Mean	4.35	78.05	3.63	18.60	97.37	50.69
Minimum	0.20	7.00	0.05	9.90	1.00	16.20
Maximum	17.90	609.00	20.00	46.20	2010.00	80.30
Percentiles						
10.00	0.90	46.00	0.10	10.80	49.00	36.10
20.00	5.00	54.00	1.00	11.60	56.00	41.40
30.00	5.00	59.00	1.00	13.60	62.00	46.80
40.00	5.00	64.00	5.00	14.60	68.00	49.90
50.00	5.00	69.00	5.00	15.40	74.30	52.30
55.00	5.00	72.00	5.00	15.90	79.00	52.60
60.00	5.00	75.00	5.00	16.80	83.00	53.60
65.00	5.00	79.00	5.00	18.80	89.00	54.20
70.00	5.00	84.00	5.00	19.50	96.00	54.80
75.00	5.00	90.00	5.00	21.50	104.00	56.80
80.00	5.00	98.00	5.00	23.80	116.00	57.70
85.00	5.00	109.00	5.00	26.20	130.00	59.00
90.00	5.00	122.00	5.00	33.20	158.00	59.90
91.00	5.00	125.00	5.00	33.20	165.00	59.90
92.00	5.00	129.00	5.00	33.20	176.00	59.90
93.00	5.00	133.00	5.00	33.90	188.00	61.30
94.00	5.00	138.00	5.00	33.90	199.00	61.30
95.00	5.00	144.00	5.00	35.50	213.40	65.80
96.00	5.00	153.00	5.00	35.50	232.00	65.80
97.00	5.00	164.00	5.00	36.20	262.00	66.80
98.00	5.00	174.00	5.00	36.20	316.00	66.80
99.00	10.00	205.00	6.00	46.20	456.00	80.30

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Soil Geochemistry QC

PAIR #	Au		Ag		Cu		Fe		Mo		Na		Pb		Zn	
	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2
1	0.5	1	0.1	0.1	47	44	3.41	3.35	0.5	0.5	0.02	0.02	2	1	70	69
2	2	2	0.1	0.1	17	14	3.13	3.97	0.5	0.5	0.02	0.02	8	6	65	92
3	0.5	0.5	0.1	0.1	12	11	3.96	4.18	1	0.5	0.02	0.02	6	4	69	71
4	0.5	1	0.1	0.1	32	34	2.27	2.4	2	2	0.01	0.01	9	9	47	50
5	0.5	0.5	0.1	0.1	24	24	4.5	4.42	0.5	0.5	0.01	0.01	19	20	229	226
6	2	2	0.1	0.1	97	95	5.57	5.3	4	4	0.01	0.01	5	4	132	126
7	0.5	0.5	0.1	0.1	15	14	3.82	3.56	0.5	0.5	0.01	0.01	7	6	68	65
8	1	2	0.1	0.1	64	62	4.36	4.1	2	2	0.01	0.01	6	8	52	51
9	55	55	0.1	0.1	33	38	2.75	2.96	0.5	0.5	0.01	0.01	22	20	55	61
10	2	5	0.1	0.5	27	29	2.79	2.87	1	1	0.03	0.03	7	7	64	71
11	4	1	0.1	0.1	41	40	3.93	3.87	0.5	1	0.05	0.06	12	8	51	49
12	2	1	0.1	0.1	23	21	3.85	3.81	1	2	0.02	0.02	7	5	69	70
13	7	2	0.1	0.1	12	9	2.58	2.45	0.5	0.5	0.03	0.02	8	4	44	38
14	0.5	1	0.1	0.1	97	104	4.58	4.6	0.5	1	0.04	0.04	13	8	60	61
15	2	2	0.1	0.1	16	18	2.4	2.46	0.5	1	0.01	0.01	10	8	40	40
16	2	3	0.1	0.1	20	19	3.41	2.98	1	0.5	0.01	0.02	8	9	58	55
17	3	1	0.2	0.1	48	53	6.6	7.22	0.5	0.5	0.03	0.04	1	1	97	101
18	0.5	0.5	0.2	0.1	45	63	2.95	3.18	0.5	1	0.01	0.02	4	11	60	71
19	2	6	0.1	0.1	82	65	4.66	4.39	0.5	0.5	0.01	0.01	3	6	63	59
20	1	4	0.1	0.4	44	43	4.46	4.48	0.5	2	0.02	0.02	13	16	104	98
21	0.5	3	0.1	0.1	14	14	2.88	2.95	0.5	0.5	0.01	0.01	9	9	45	49
22	1	1	0.1	0.1	28	28	4.35	4.59	1	0.5	0.01	0.01	11	14	81	83
23	7	0.5	0.2	0.4	40	38	2.84	2.77	2	1	0.02	0.02	9	8	70	68
24	3	3	0.2	0.3	48	46	2.72	2.65	2	2	0.01	0.01	20	20	89	86
25	3	2	0.1	0.1	24	18	2.77	2.78	1	1	0.01	0.01	8	9	43	42
26	2	0.5	0.1	0.1	31	31	4.1	4.17	3	3	0.01	0.01	18	19	126	124
27	1	0.5	0.1	0.1	102	108	4.46	4.56	2	2	0.01	0.01	6	8	52	50
28	2	0.5	0.2	0.2	24	13	5	2.35	0.5	0.5	0.02	0.02	4	7	498	83
29	2	0.5	0.1	0.1	91	86	3.98	3.9	0.5	0.5	0.01	0.01	29	27	532	546
30	6	6	0.4	0.6	44	47	3.34	3.41	2	2	0.02	0.02	25	25	130	133
31	1	6	0.1	0.1	25	17	3.56	3.7	2	1	0.01	0.01	14	10	68	61
32	5	5	0.1	0.1	32	34	4.37	4.56	0.5	0.5	0.02	0.03	10	8	86	89
33	15	10	0.1	0.1	17	18	2.8	3	1	1	0.01	0.01	11	11	60	65
34	8	4	0.7	0.3	77	70	4.57	4.14	0.5	0.5	0.03	0.03	4	3	96	87
35	1	3	0.1	0.1	48	49	3.08	3.22	0.5	0.5	0.01	0.01	109	116	110	115
36	1	0.5	0.1	0.1	14	14	2.86	2.89	1	1	0.01	0.01	9	8	80	80
37	3	2	0.4	0.2	25	25	3.46	3.24	0.5	0.5	0.03	0.02	9	9	125	124
38	0.5	0.5	0.1	0.1	24	17	3.98	4.97	0.5	0.5	0.02	0.02	4	4	87	47
39	1	1	0.1	0.1	19	19	3.57	3.64	0.5	0.5	0.02	0.02	12	12	71	72
40	1	3	0.1	0.1	35	34	4.13	4.14	1	1	0.02	0.02	8	9	100	101
41	0.5	0.5	0.1	0.1	20	22	3.83	3.81	1	1	0.01	0.01	14	16	43	44
42	0.5	5	0.1	0.1	28	28	2.79	2.79	1	1	0.02	0.02	10	6	67	66
43	1	5	0.1	0.1	37	35	3.65	3.52	0.5	0.5	0.02	0.02	10	10	65	63

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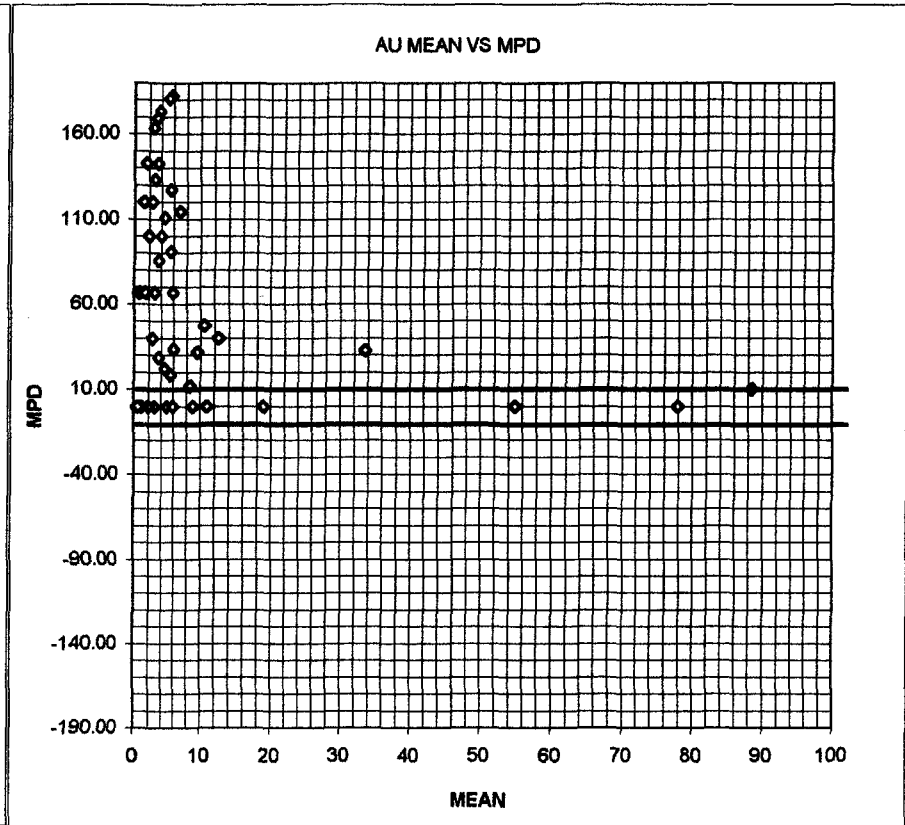
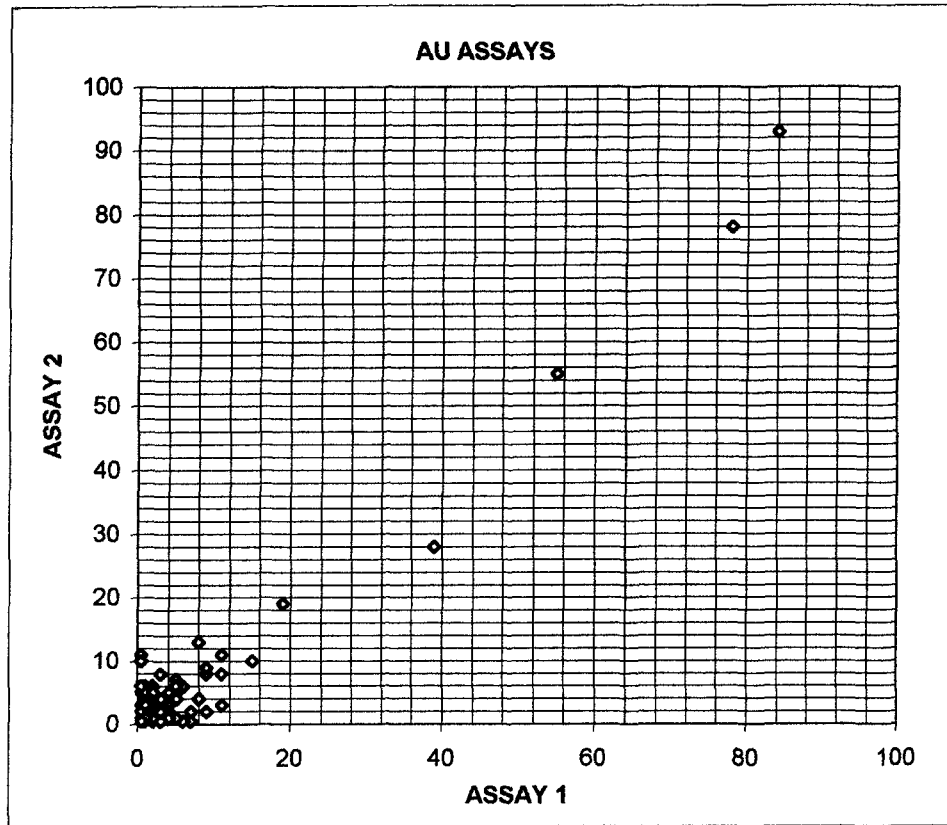
Soil Geochemistry QC

PAIR #	Au		Ag		Cu		Fe		Mo		Na		Pb		Zn	
	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2
44	1	1	0.1	0.1	14	14	5.05	5.16	1	0.5	0.01	0.01	25	9	166	166
45	2	2	0.1	0.1	23	22	2.31	2.37	0.5	0.5	0.01	0.01	4	7	44	45
46	84	93	5.5	8.2	508	820	4.85	5.56	8	11	0.03	0.02	35	69	101	162
47	1	1	0.1	0.1	27	28	4.54	4.73	0.5	0.5	0.02	0.02	8	8	164	175
48	0.5	2	0.1	0.1	13	13	4.49	4.34	0.5	0.5	0.01	0.01	7	4	73	70
49	2	2	0.1	0.3	32	38	3.4	3.41	0.5	0.5	0.01	0.01	12	13	58	60
50	3	8	0.1	0.1	79	77	3.4	3.32	0.5	0.5	0.03	0.03	6	5	60	63
51	0.5	0.5	0.1	0.1	37	40	3.79	3.86	1	1	0.01	0.01	12	14	71	77
52	6	0.5	0.1	0.1	33	37	2.74	2.86	0.5	0.5	0.01	0.02	4	5	35	37
53	1	1	0.1	0.1	28	29	3.17	3.44	0.5	0.5	0.03	0.03	5	6	49	55
54	0.5	0.5	0.1	0.1	27	27	4.29	4.67	0.5	0.5	0.01	0.01	10	12	86	96
55	1	1	0.1	0.1	39	33	6.93	5.61	1	1	0.01	0.01	10	9	138	106
56	0.5	3	0.1	0.1	78	67	4.03	3.85	0.5	1	0.02	0.01	12	10	59	55
57	0.5	11	0.1	0.1	51	50	5.82	5.66	1	1	0.02	0.02	11	11	102	98
58	0.5	6	0.1	0.1	76	76	1.04	0.94	0.5	0.5	0.01	0.01	3	3	15	13
59	2	2	0.1	0.1	28	36	3.15	3.48	0.5	0.5	0.02	0.02	5	6	62	68
60	3	0.5	0.1	0.1	19	22	2.02	1.34	0.5	1	0.03	0.03	4	2	41	33
61	1	1	0.1	0.1	77	76	4.25	4.37	0.5	0.5	0.04	0.04	8	9	132	134
62	0.5	1	0.1	0.1	178	172	6.67	6.69	0.5	1	0.03	0.03	4	6	107	109
63	9	8	2.7	2.8	569	672	4.01	4.25	13	14	0.005	0.005	15	18	78	82
64	9	9	3.2	3.4	220	219	8.36	8.38	10	8	0.005	0.03	7	3	837	835
65	1	0.5	0.1	0.1	26	25	2.11	2	0.5	0.5	0.02	0.02	5	6	38	36
66	2	0.5	0.1	0.1	18	17	3.02	2.98	0.5	0.5	0.01	0.01	7	9	55	54
67	0.5	3	0.3	0.3	66	84	5.39	5.26	1	2	0.01	0.01	10	10	155	150
68	0.5	1	0.1	0.2	16	16	2.84	2.89	0.5	0.5	0.01	0.01	9	9	44	45
69	4	3	0.1	0.1	21	18	3.24	3.22	0.5	0.5	0.01	0.01	9	10	66	75
70	0.5	0.5	0.1	0.1	104	108	5.44	5.09	1	0.5	0.13	0.11	8	12	43	35
71	3	4	0.1	0.1	58	63	2.99	3.09	1	0.5	0.005	0.005	10	11	80	84
72	2	2	0.1	0.1	122	111	6.23	5.58	0.5	0.5	0.03	0.03	3	3	88	88
73	1	1	0.1	0.1	17	17	2.6	2.32	0.5	0.5	0.02	0.02	16	12	66	49
74	0.5	2	0.1	0.1	90	89	4.46	4.56	1	1	0.03	0.03	3	2	104	102
75	4	3	0.3	0.5	33	33	3.45	3.48	0.5	0.5	0.03	0.03	9	8	66	68
76	6	6	0.1	0.1	37	39	3.06	3.03	0.5	0.5	0.01	0.01	7	5	52	51
77	4	5	0.2	0.3	24	24	3.61	3.66	1	0.5	0.02	0.02	121	118	227	231
78	0.5	2	0.4	0.2	45	46	5.11	5.04	0.5	0.5	0.05	0.08	8	6	121	122
79	0.5	0.5	0.2	0.1	54	64	5.46	6.34	0.5	0.5	0.02	0.02	1	1	81	90
80	5	7	1.2	1	87	88	10.25	10.45	10	10	0.07	0.07	3	5	94	94
81	11	8	0.1	0.1	79	82	4.64	4.55	4	4	0.02	0.02	152	158	312	305
82	4	2	0.1	0.2	459	435	7.13	6.87	6	6	0.05	0.05	1	2	83	75
83	5	6	0.1	0.1	200	214	5.37	5.56	2	3	0.01	0.01	5	10	151	163
84	2	2	0.1	0.1	44	44	4.87	5	1	1	0.06	0.06	39	41	94	101
85	1	3	0.1	0.1	14	12	3.43	3.39	1	1	0.01	0.01	96	93	77	76
86	1	0.5	0.1	0.1	20	23	3.4	3.87	1	1	0.01	0.01	13	15	70	78

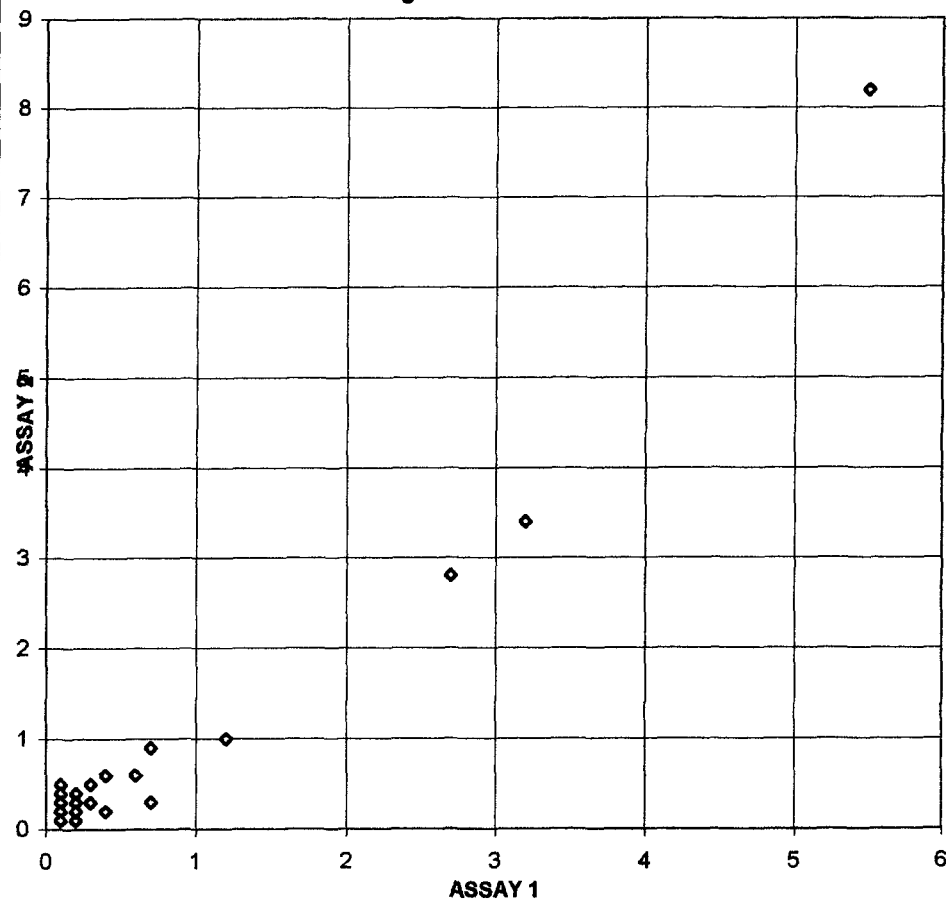
2003 LUCKY JOE PROJECT

Soil Geochemistry QC

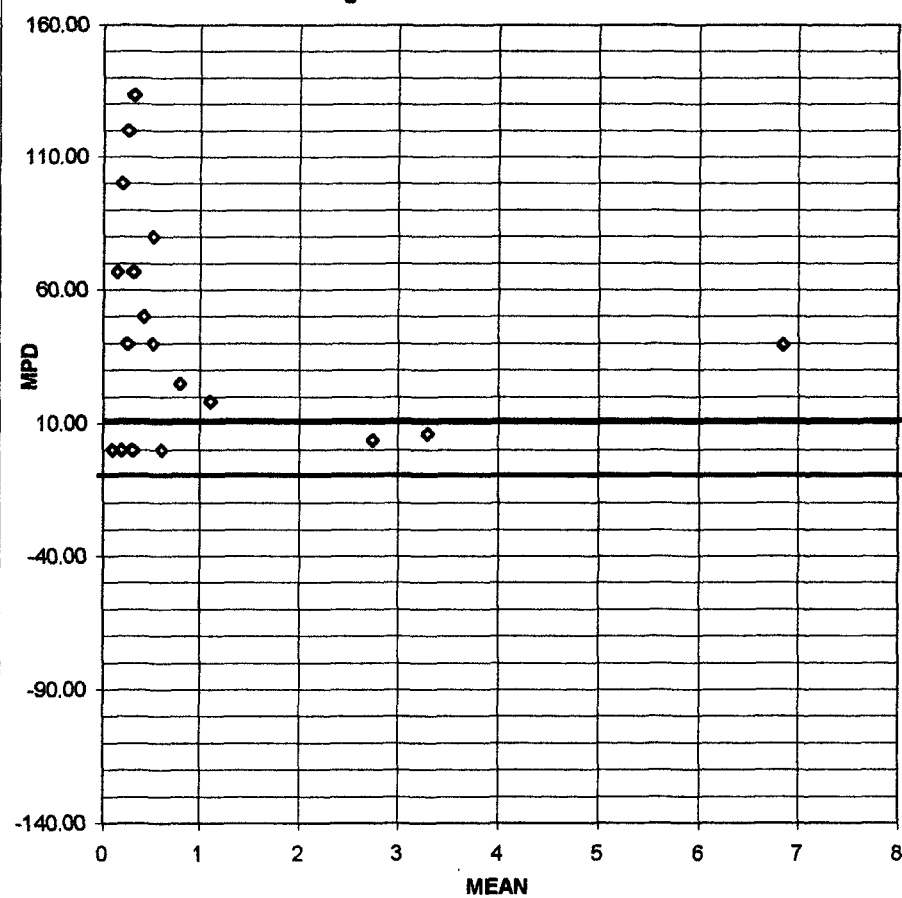
PAIR #	Au		Ag		Cu		Fe		Mo		Na		Pb		Zn	
	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2	ASSAY 1	ASSAY 2
87	4	5	0.2	0.2	70	69	3.05	3	1	1	0.02	0.02	7	11	64	62
88	0.5	2	0.1	0.2	71	44	2.91	3.39	0.5	1	0.005	0.01	5	7	45	61
89	1	1	0.1	0.4	35	35	3.38	3.67	1	0.5	0.02	0.02	33	38	208	228
90	2	1	0.1	0.1	55	58	6.67	6.84	2	2	0.04	0.03	4	6	83	87
91	5	4	0.1	0.2	39	38	4.11	4.17	2	3	0.01	0.01	7	7	158	162
92	5	1	0.1	0.1	42	45	4.62	4.86	0.5	1	0.03	0.03	1	2	33	33
93	3	4	0.1	0.1	82	80	4.8	4.67	0.5	0.5	0.03	0.03	6	5	63	62
94	0.5	10	0.1	0.1	52	50	2.75	2.69	0.5	0.5	0.02	0.02	1	2	56	55
95	11	3	0.1	0.1	55	52	2.73	2.56	0.5	1	0.02	0.02	7	7	48	44
96	2	5	0.1	0.1	26	28	3.71	3.72	0.5	0.5	0.02	0.02	8	6	98	101
97	4	1	0.1	0.1	24	24	2.54	2.44	1	0.5	0.01	0.01	11	7	108	112
98	1	1	0.1	0.1	17	18	4.36	4.44	0.5	0.5	0.01	0.01	22	31	90	108
99	1	3	0.1	0.3	24	24	2.88	2.77	1	1	0.01	0.01	36	27	142	130
100	3	0.5	0.1	0.1	71	128	2.34	3.24	1	1	0.01	0.01	15	17	118	154
101	11	11	0.1	0.1	86	85	4.64	4.54	3	3	0.01	0.01	17	14	180	158
102	9	2	0.1	0.1	458	428	4.17	3.92	8	7	0.01	0.01	1	1	66	62
103	8	13	0.1	0.1	161	167	4.53	4.67	2	3	0.04	0.04	7	6	66	69
104	5	6	0.1	0.2	540	594	5.52	5.72	8	8	0.02	0.02	9	1	69	72
105	19	19	0.3	0.3	390	388	8.66	8.52	4	4	0.59	0.59	13	16	40	39
106	78	78	0.7	0.9	1505	1695	5.03	5.49	56	55	0.05	0.05	9	10	65	72
107	5	6	0.1	0.1	560	571	6.59	6.63	6	5	0.12	0.13	10	10	43	45
108	39	28	0.6	0.6	751	580	4.69	4.79	9	8	0.03	0.03	59	44	196	196
109	3	2	0.1	0.1	31	32	3.77	3.94	4	4	0.02	0.03	12	14	201	207
110	0.5	0.5	0.1	0.1	28	28	4.27	4.29	0.5	1	0.01	0.01	5	4	76	77

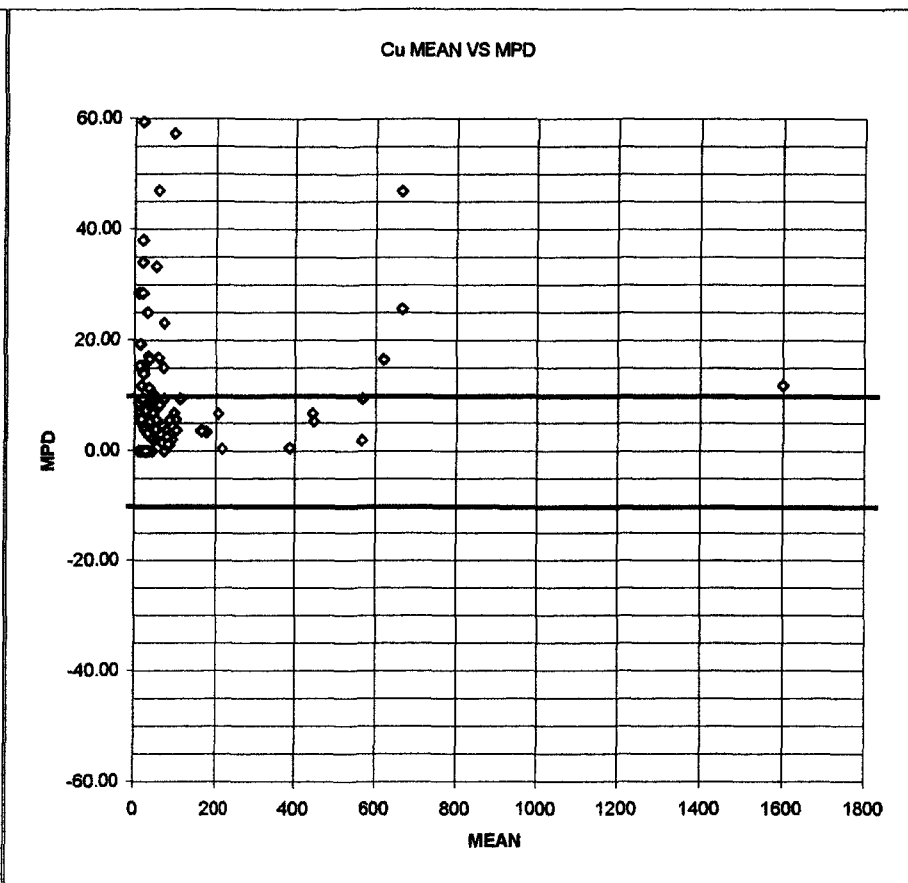
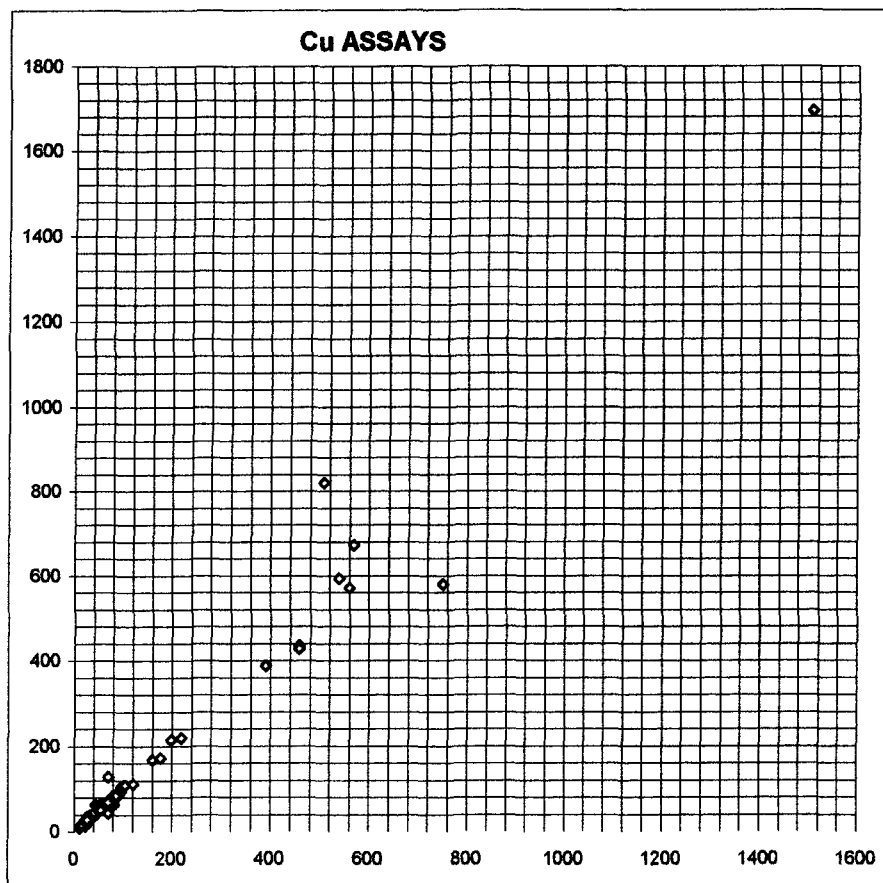


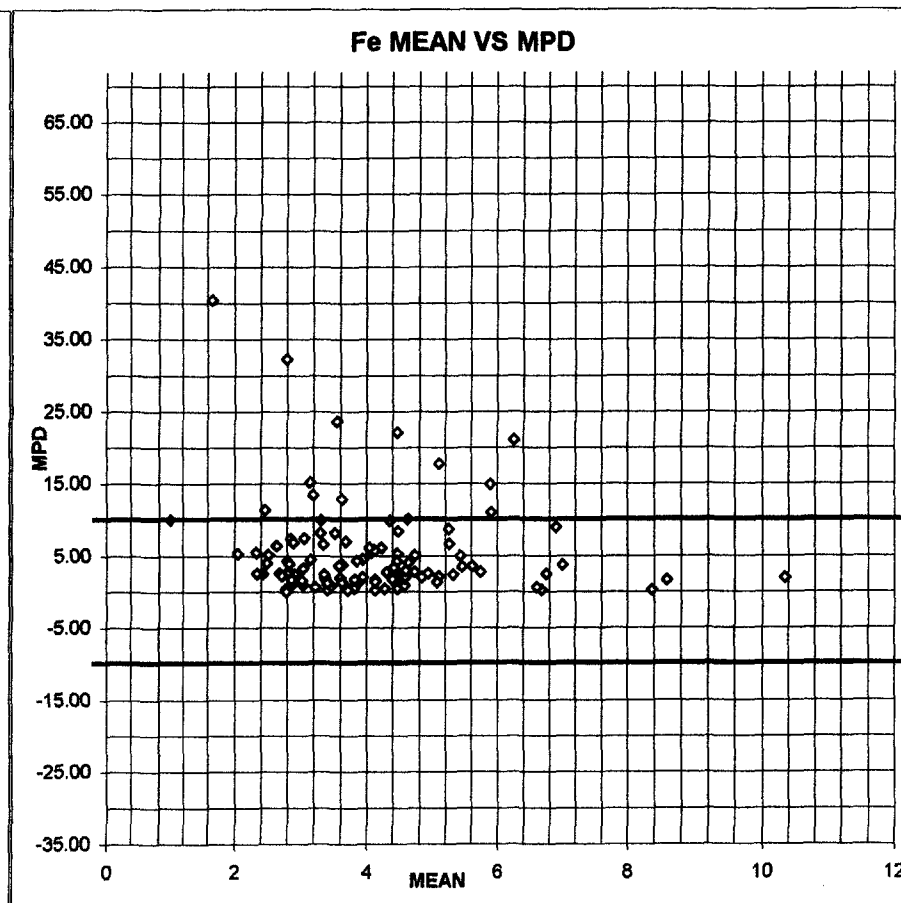
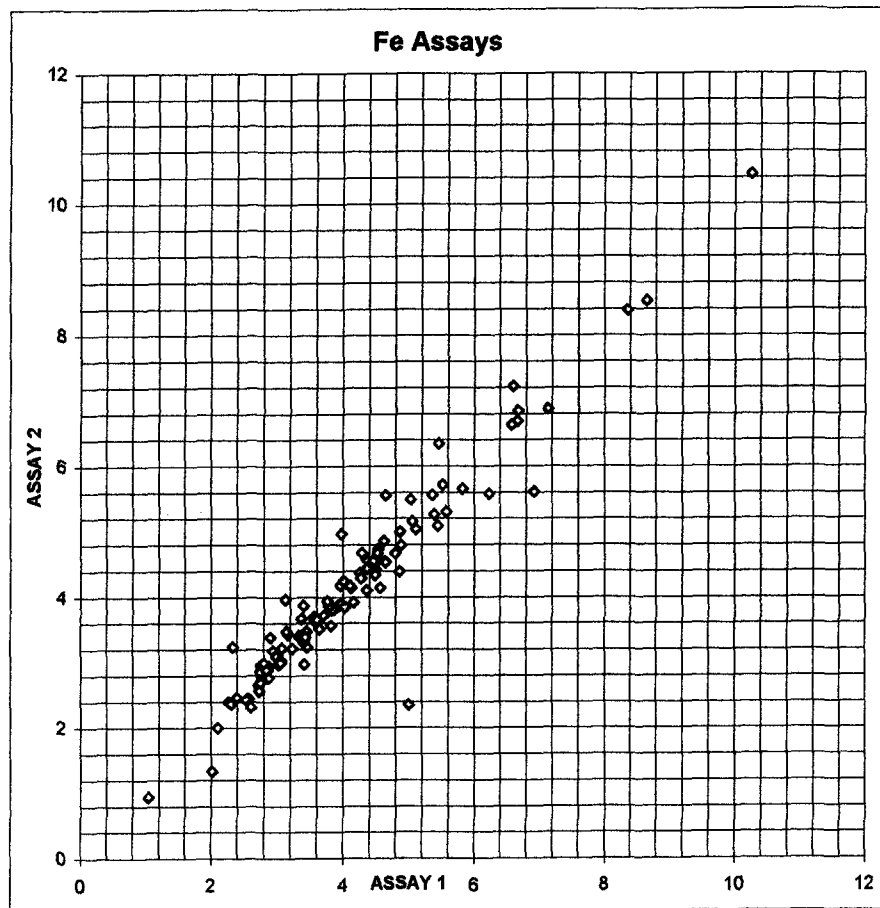
Ag PAIRS

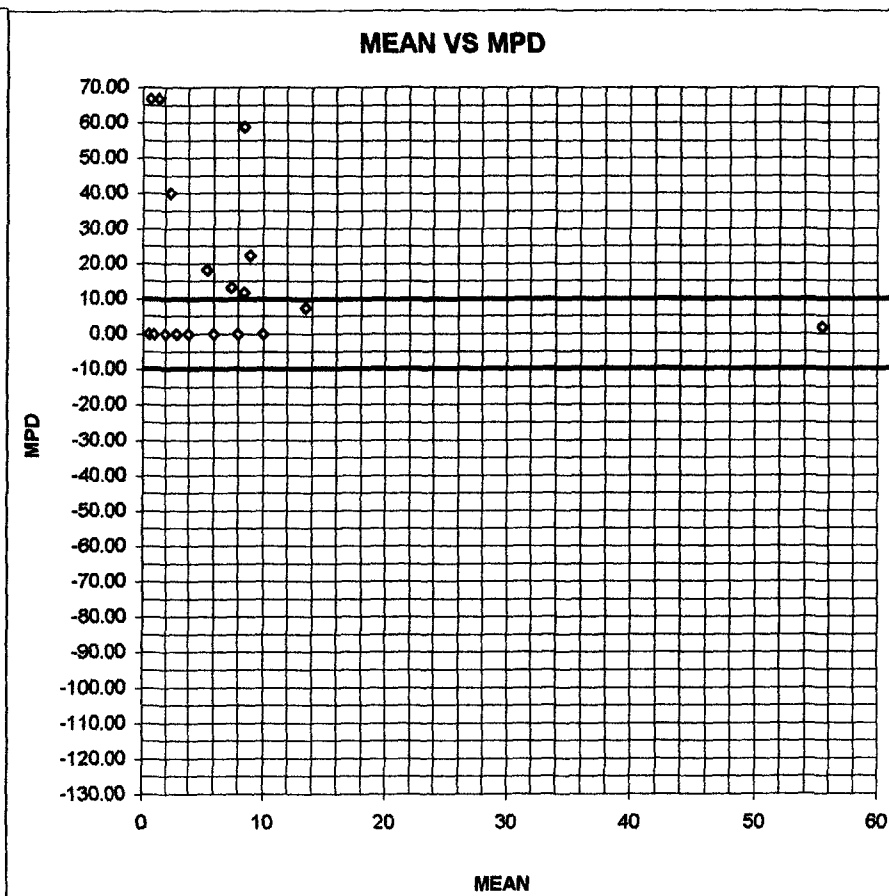
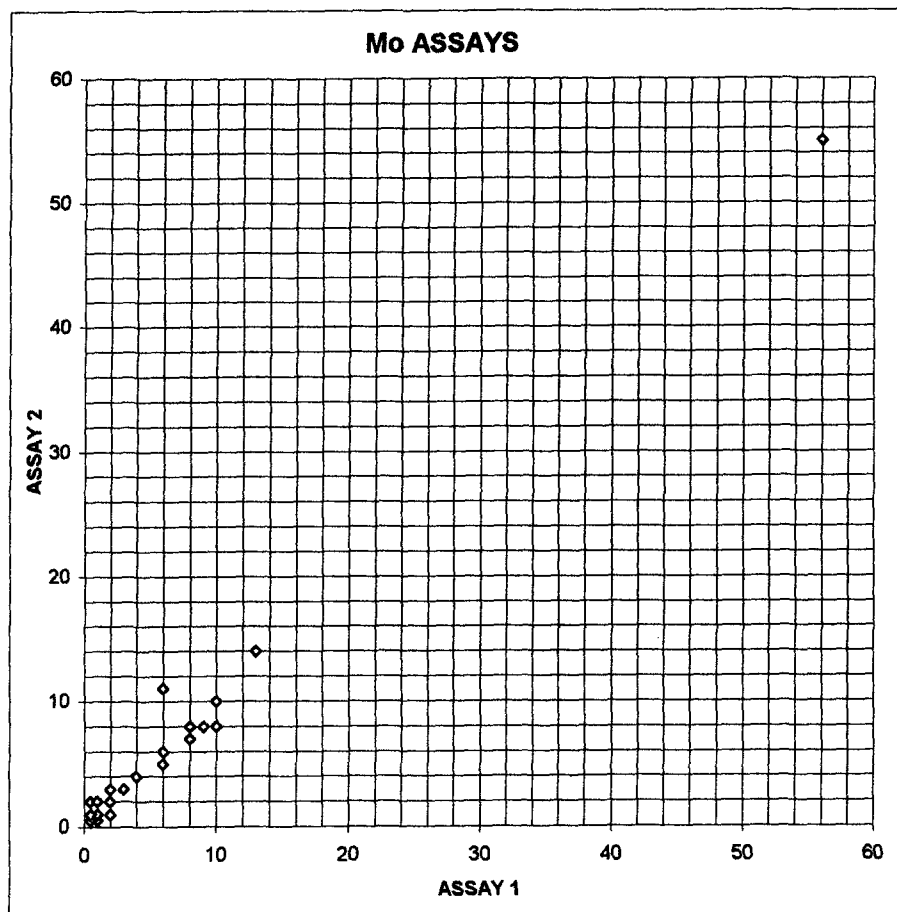


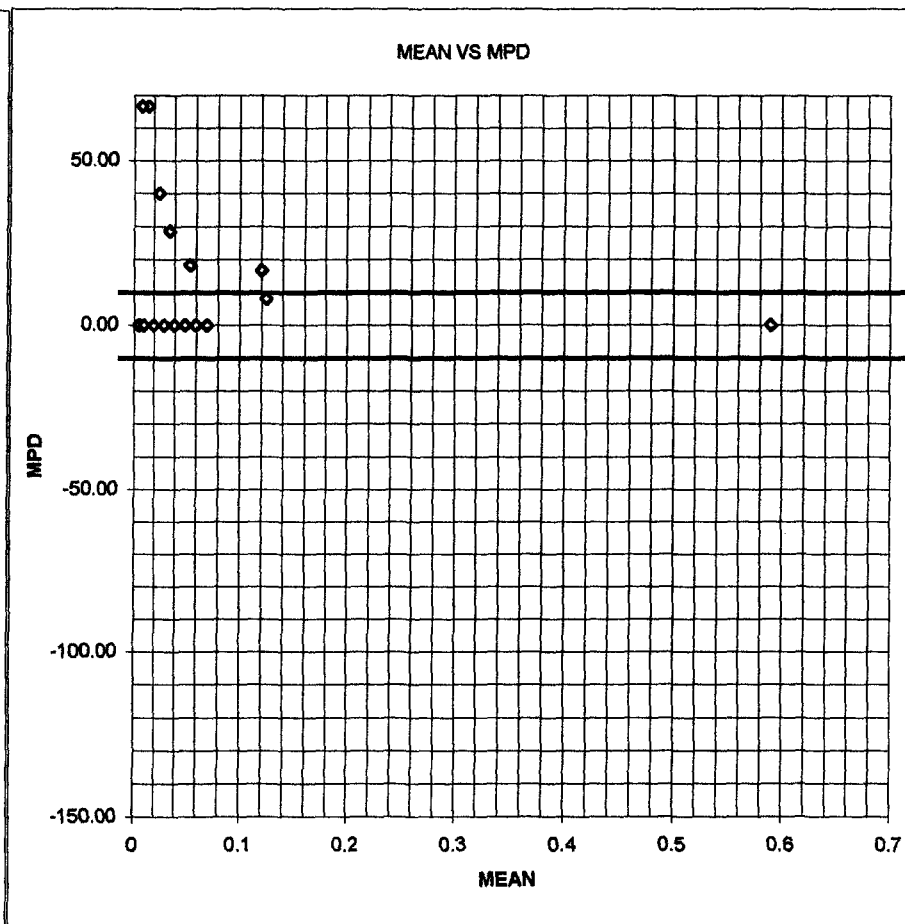
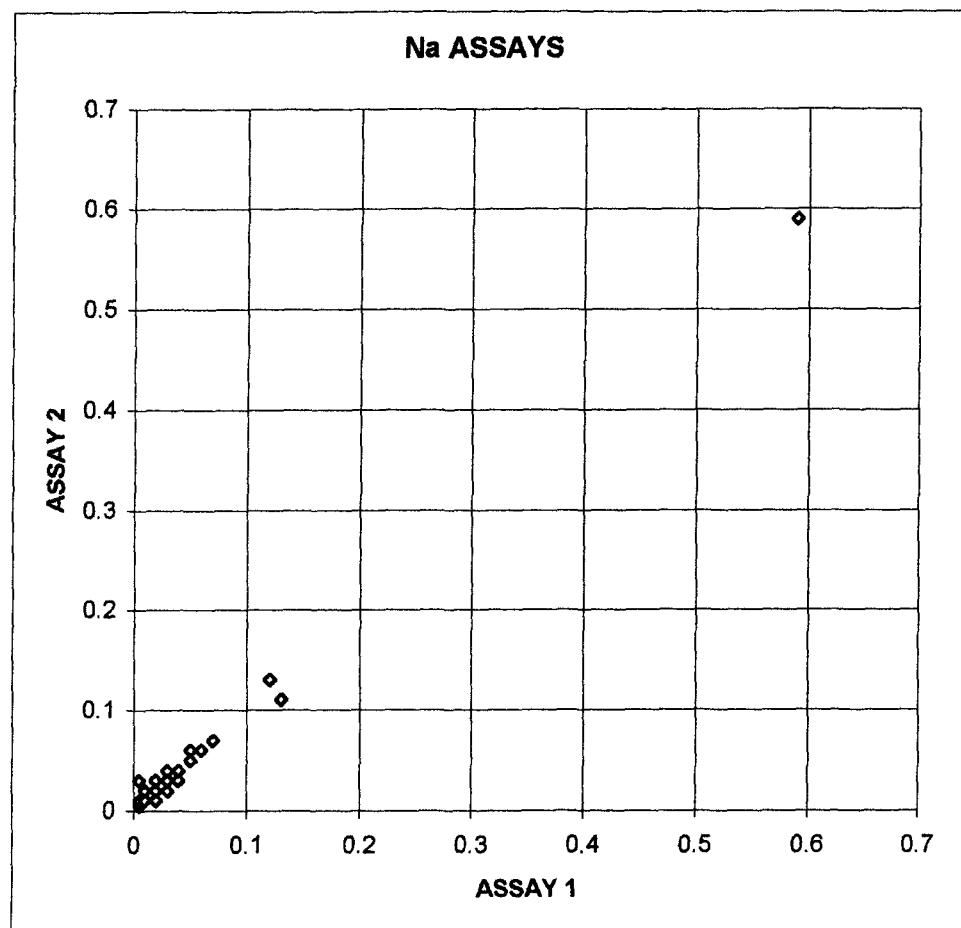
Ag MEAN VS MPD

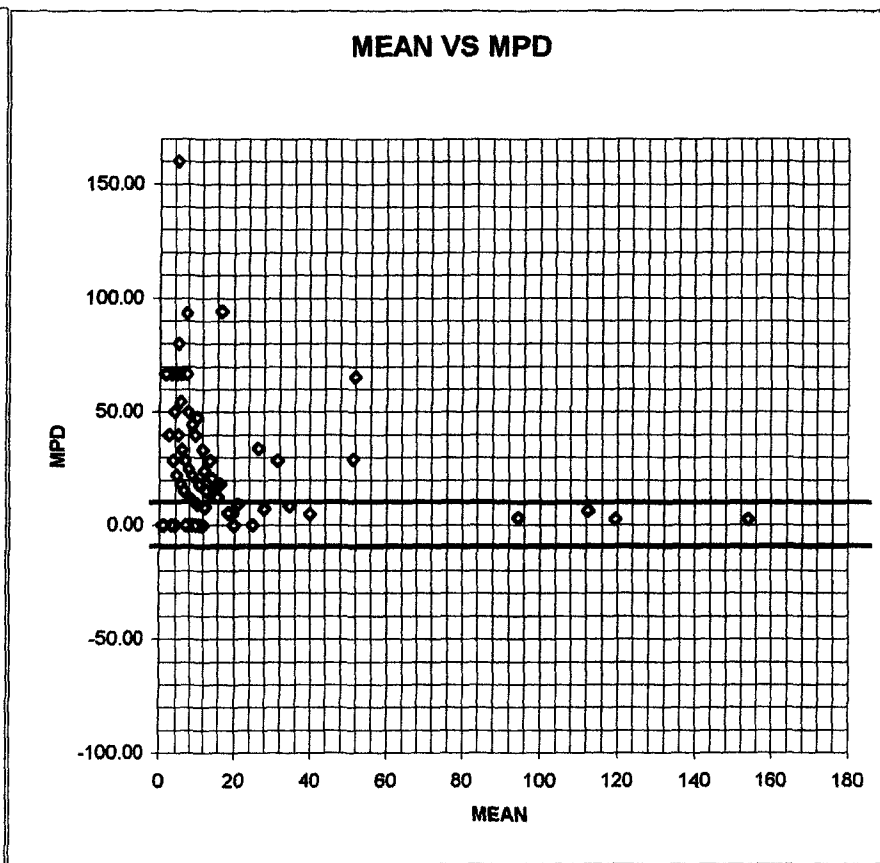
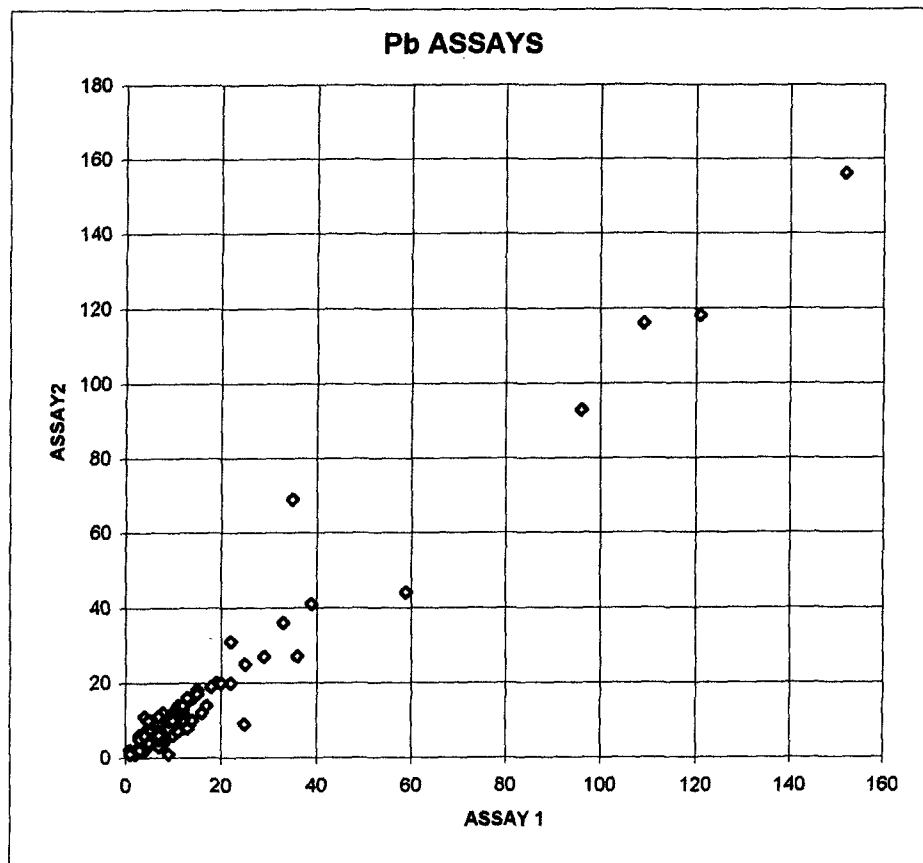


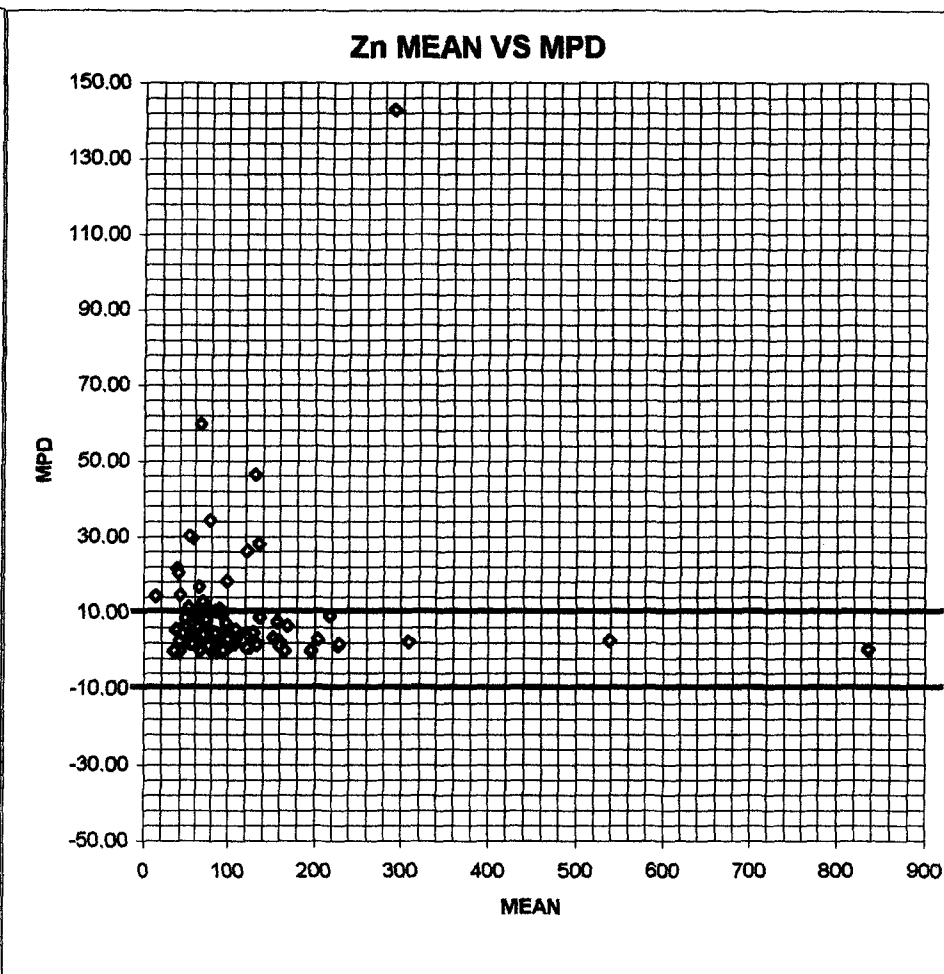
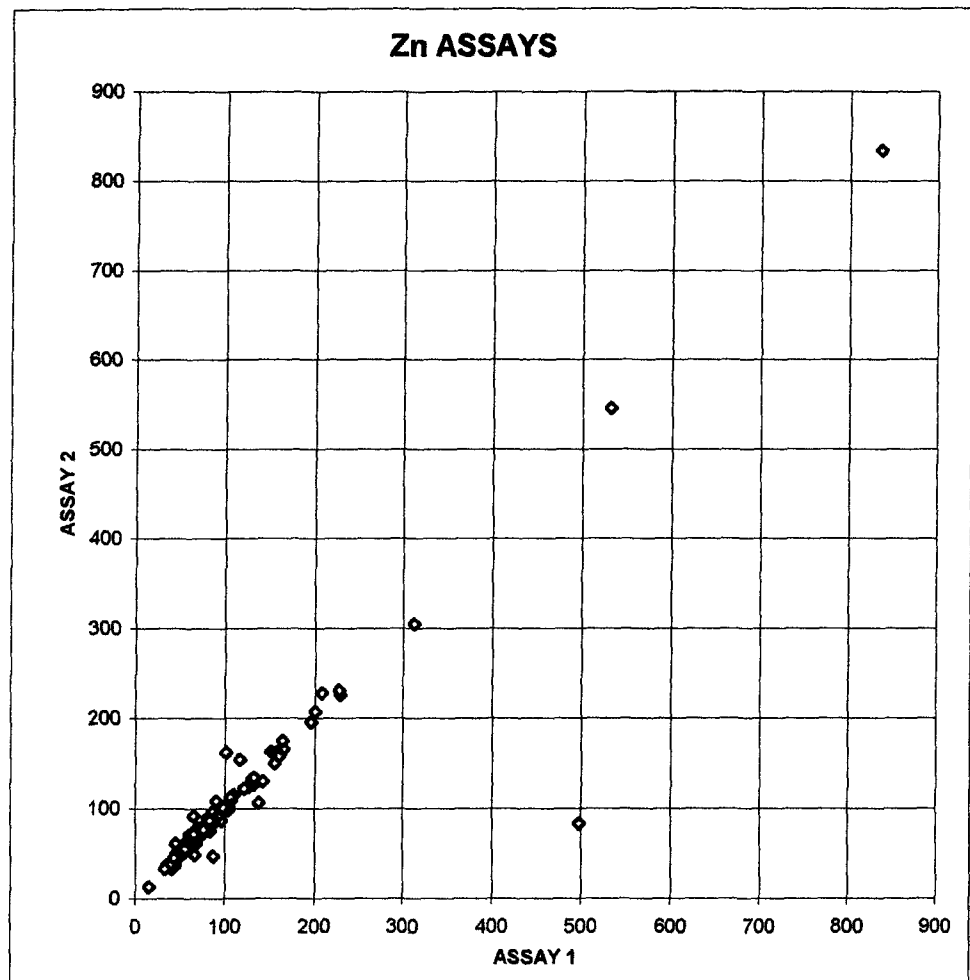








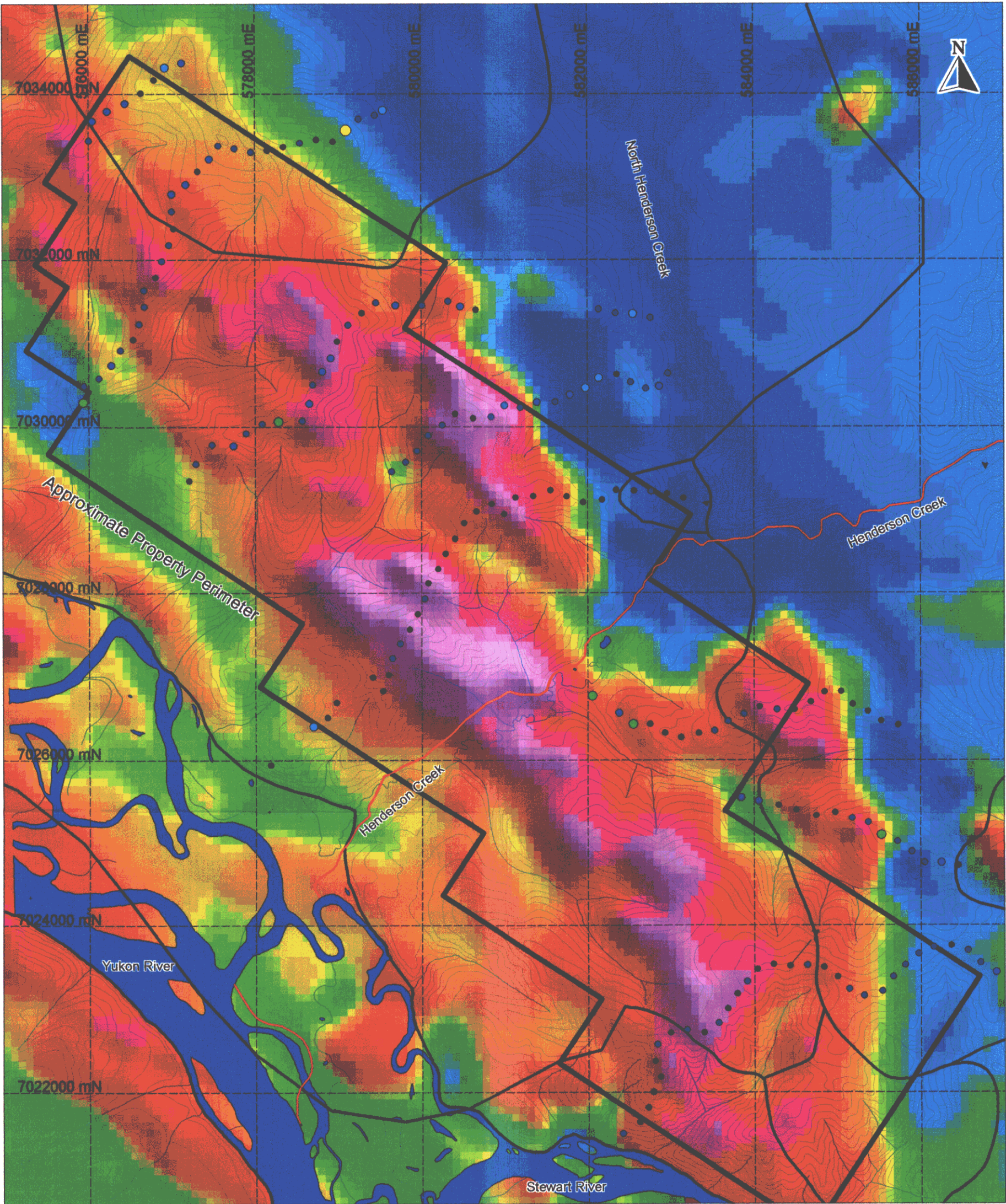




Kennecott Canada Exploration Inc. - 2003 Lucky Joe Project

Field Duplicates - Observation Summary

ELEMENT	AVG MPD	MIN CONC	MAX CONC	MEAN	COMMENTS
Au (ppb)	56.67	0.5	93	5.18	The high average MPD can be attributed to values below 12 ppb, which statistically falls at the 95th percentile for the entire 2003 dataset indicating that subtle Au anomalies are not reliable.
Ag (ppm)	14.99	0.1	8.2	0.27	Good repeatability for values above 1 ppm, however .9 ppm represents the 98th percentile for the dataset and .19 ppm is the mean. Only high levels of this element can be trusted, incomplete digestion being the cause. Only 23% of the entire population falls above the detection limit.
Cu (ppm)	8.68	9	1695	98.53	The average MPD is within acceptable limits, high MPD's tend to cluster below 100 ppm but more than half of the population within this range produces repeatable results. Unusual scatter occurs around 600 ppm but both returns are still highly anomalous.
Fe (%)	5.86	0.94	10.45	4.08	Good repeatability throughout the range of data. There is an unexplained linear trend that falls outside of the 90% confidence level that ranges from 3-6% but only 6 samples fall within it. There must be some type of systematic error. Some of these samples also have high MPD's for Pb, Zn, Cu. Three were collected by the same individual possibly suggesting improper homogenization.
Mo (ppm)	17.94	0.5	56	2.13	This is a fair average MPD considering aqua-regia digestion was used. Only a small handful of samples fall outside of the confidence level but these range from the detection limit up to about 10 ppm. 46% of the population falls below the detection limit.
Na (%)	7.22	0.005	0.59	0.03	Good repeatability, falls off below about 0.06% (98th percentile level)
Pb (ppm)	24.96	1	156	14.42	Very poor repeatability below about 15 ppm
Zn (ppm)	8.26	13	837	100.29	Good overall repeatability, higher MPD's occur below 130 ppm



LEGEND

Percentile Ranges - Soil Samples *
for: Au (ppb)

- 0.5 =< 1 [<30%] (356)
- 1 =< 3 [30<60%] (693)
- 3 =< 5 [60<80%] (399)
- 5 =< 9 [80<90%] (231)
- 9 =< 14 [90<95%] (104)
- 14 =< 34 [95<98%] (63)
- 34 =< 64 [98<99%] (19)
- 64 =< 611 [99% +] (19)

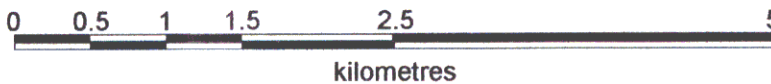
— Lithologic Contact

— Road or Trail

* Note: not all sample value intervals from the Lucky Joe sample database are present on this map.

Source of Aeromagnetic Data: Geological Survey of Canada

Scale: 1:50,000



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HEN PROPERTY

Airborne Magnetic Survey
TOTAL FIELD

YUKON TERRITORY, CANADA

Date: Dec. 15, 2003

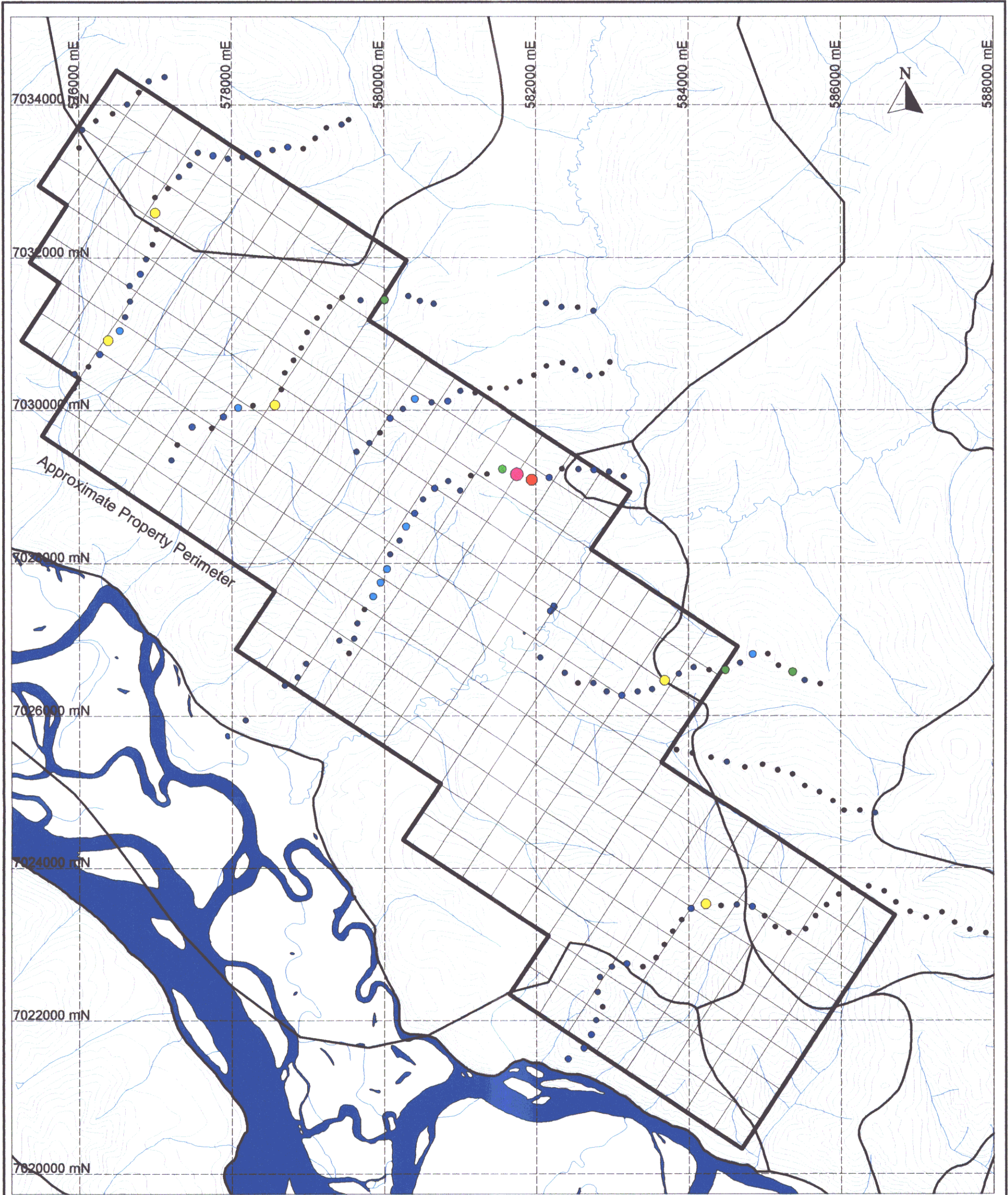
Scale: 1:50,000

Drawn By: RH

File: Hen Prop.

Datum: NAD83, Zone 7

Figure: 9



LEGEND

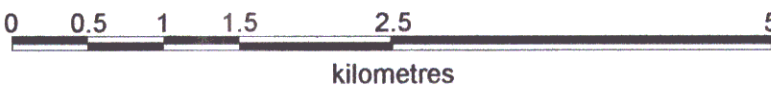
Percentile Ranges *
for: Zn (ppm)

- 3 =< 62 [<30%] (561)
- 62 =< 84 [30<60%] (565)
- 84 =< 119 [60<80%] (382)
- 119 =< 166 [80<90%] (192)
- 166 =< 230 [90<95%] (94)
- 230 =< 377 [95<98%] (57)
- 377 =< 522 [98<99%] (19)
- 522 =< 2010 [99% +] (19)

— Lithologic Contact

* Note, not all sample value intervals from Lucky Joe sample database are present on this map.

Scale: 1:50,000



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HEN PROPERTY

Soil Geochemistry
ZINC (ppm)

YUKON TERRITORY, CANADA

Date: Dec. 15, 2003

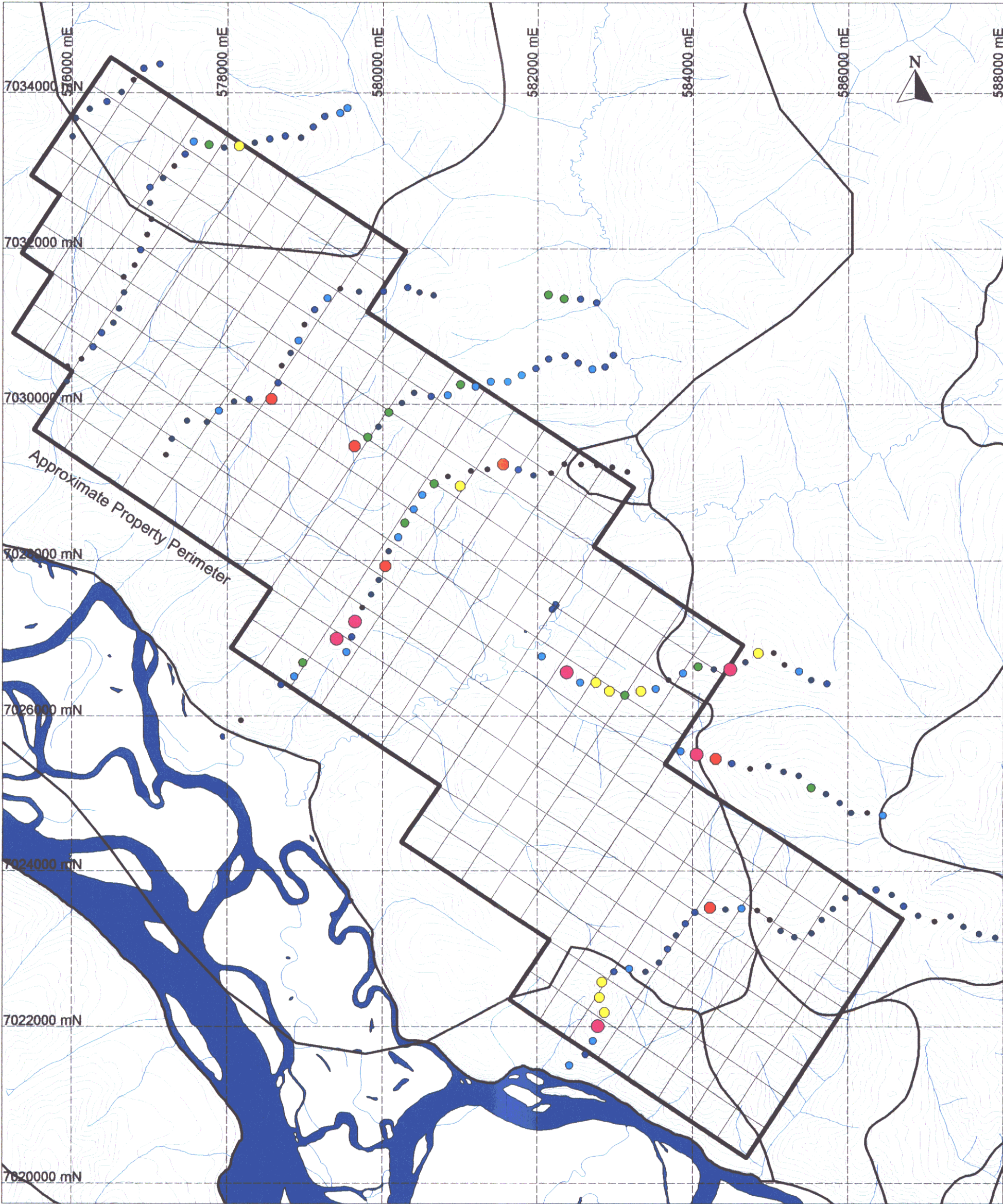
Scale: 1:50,000

Drawn By: RH

File: Hen Prop.

Datum: NAD83, Zone 7

Figure: 8

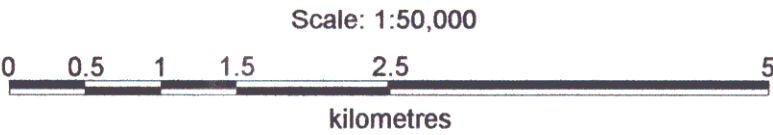


LEGEND

Percentile Ranges *
for: Pb (ppm)

- 1 =< 6 [<30%] (454)
- 6 =< 9 [30<60%] (593)
- 9 =< 13 [60<80%] (428)
- 13 =< 23 [80<90%] (221)
- 23 =< 35 [90<95%] (96)
- 35 =< 78 [95<98%] (59)
- 78 =< 114 [98<99%] (19)
- 114 =< 767 [99% +] (19)

— Lithologic Contact



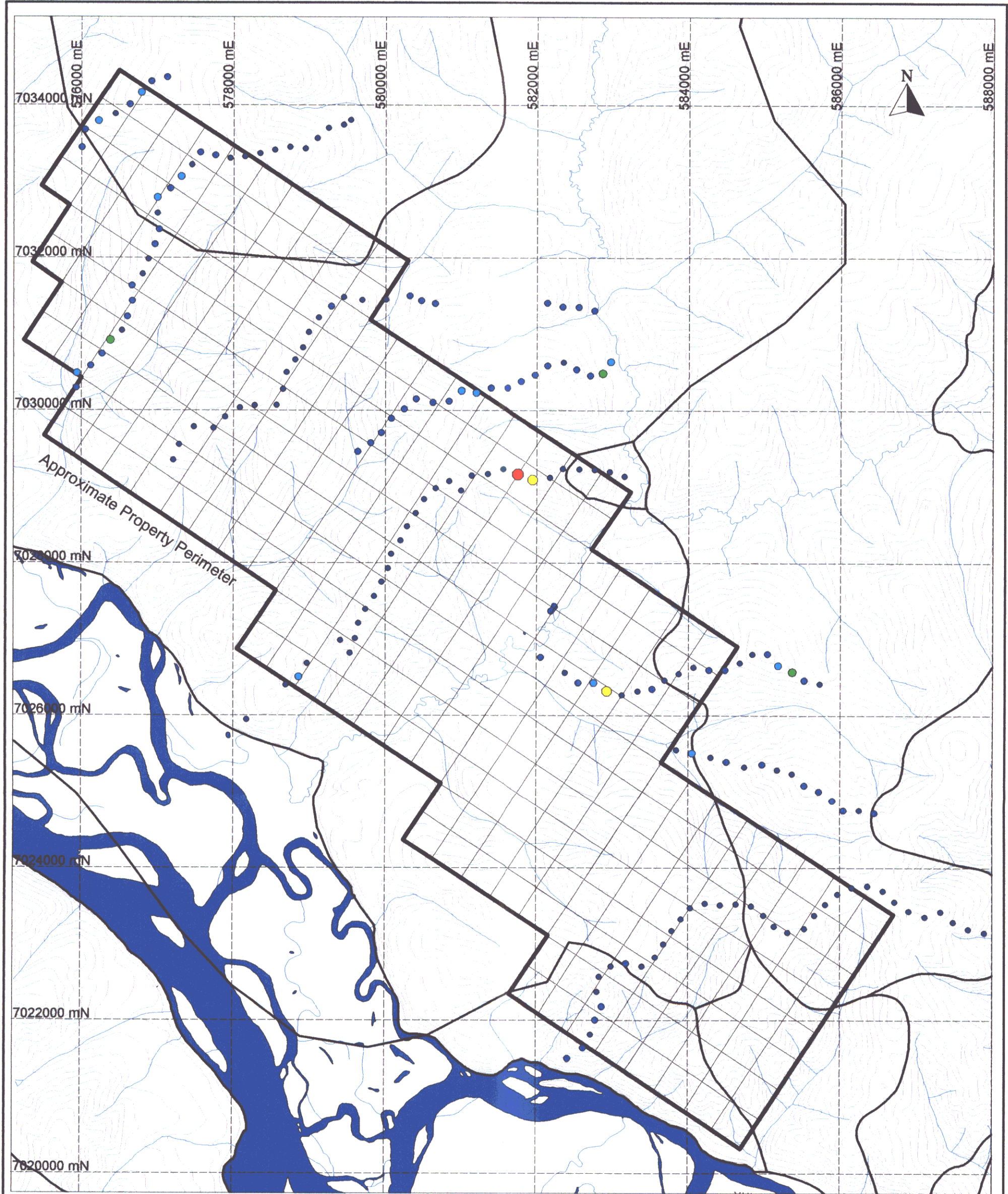
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HEN PROPERTY
Soil Geochemistry
LEAD (ppm)
YUKON TERRITORY, CANADA

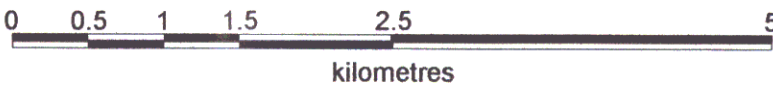
Date: Dec. 15, 2003	Scale: 1:50,000	Drawn By: RH
File: Hen Prop.	Datum: NAD83, Zone 7	Figure: 7

* Note, not all sample value intervals from Lucky Joe sample database are present on this map.



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Scale: 1:50,000



LEGEND

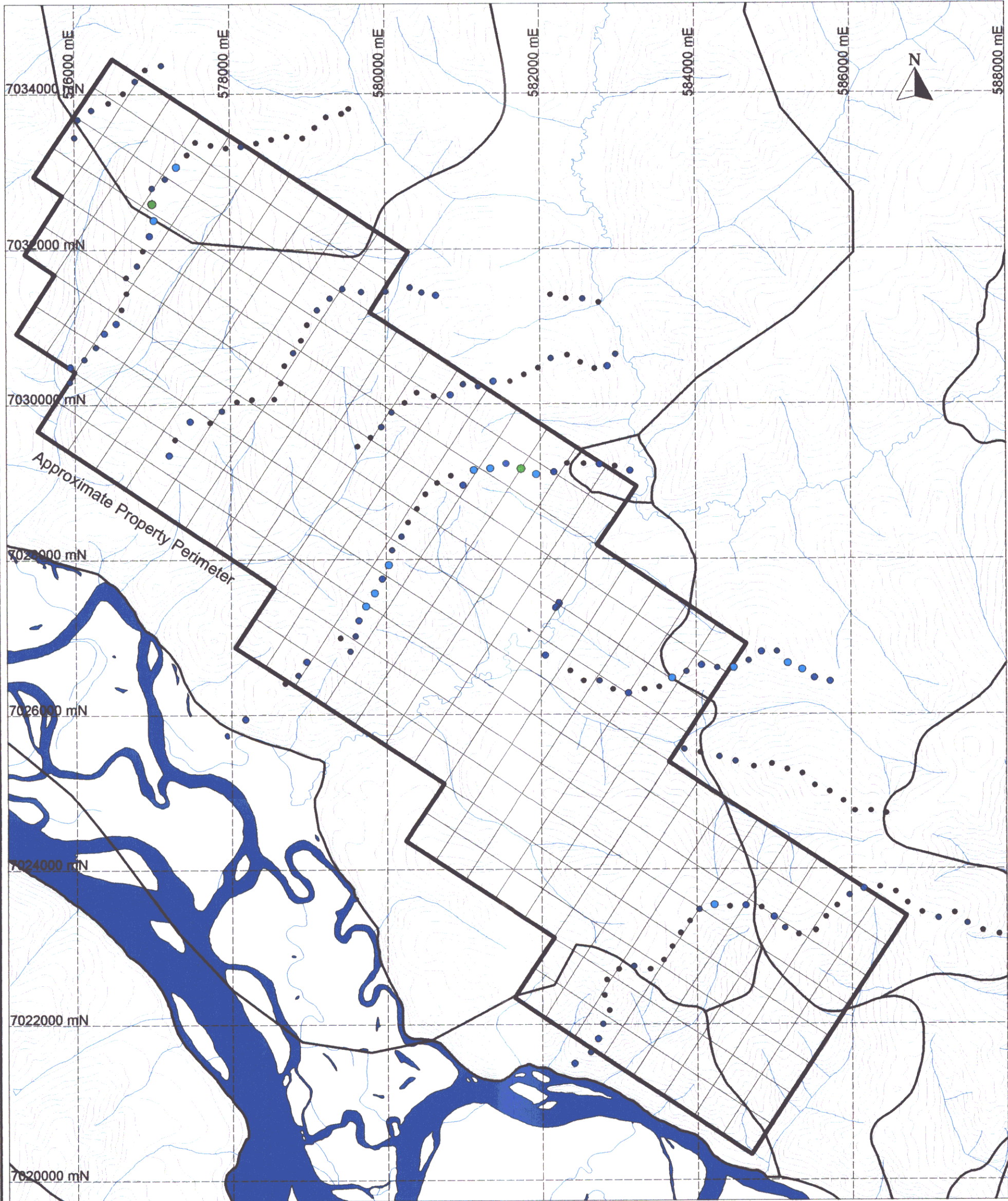
Percentile Ranges *
for: Mo (ppm)

- 0.5 ≤ 0.5 [$<30\%$] (0)
- 0.5 ≤ 1 [30<60%] (869)
- 1 ≤ 2 [60<80%] (498)
- 2 ≤ 4 [80<90%] (301)
- 4 ≤ 8 [90<95%] (123)
- 8 ≤ 15 [95<98%] (55)
- 15 ≤ 24 [98<99%] (23)
- 24 ≤ 197 [99% +] (20)

— Lithologic Contact

* Note, not all sample value intervals from Lucky Joe sample database are present on this map.

 KENNECOTT CANADA EXPLORATION INC. VANCOUVER		
HEN PROPERTY		
Soil Geochemistry MOLYBDENUM (ppm)		
YUKON TERRITORY, CANADA		
Date: Dec. 15, 2003	Scale: 1:50,000	Drawn By: RH
File: Hen Prop.	Datum: NAD83, Zone 7	Figure: 6



LEGEND

Percentile Ranges *
for: Cu (ppm)

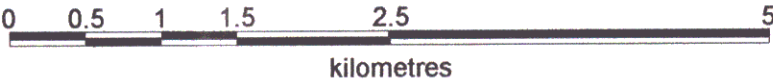
- 4 <= 24 [<30%] (532)
- 24 <= 43 [30<60%] (592)
- 43 <= 74 [60<80%] (382)
- 74 <= 146 [80<90%] (194)
- 146 <= 324 [90<95%] (94)
- 324 <= 696 [95<98%] (57)
- 696 <= 1230 [98<99%] (19)
- 1230 <= 4400 [99% +] (19)

● NA14451 Soil Sample Site and Number

— Lithologic Contact

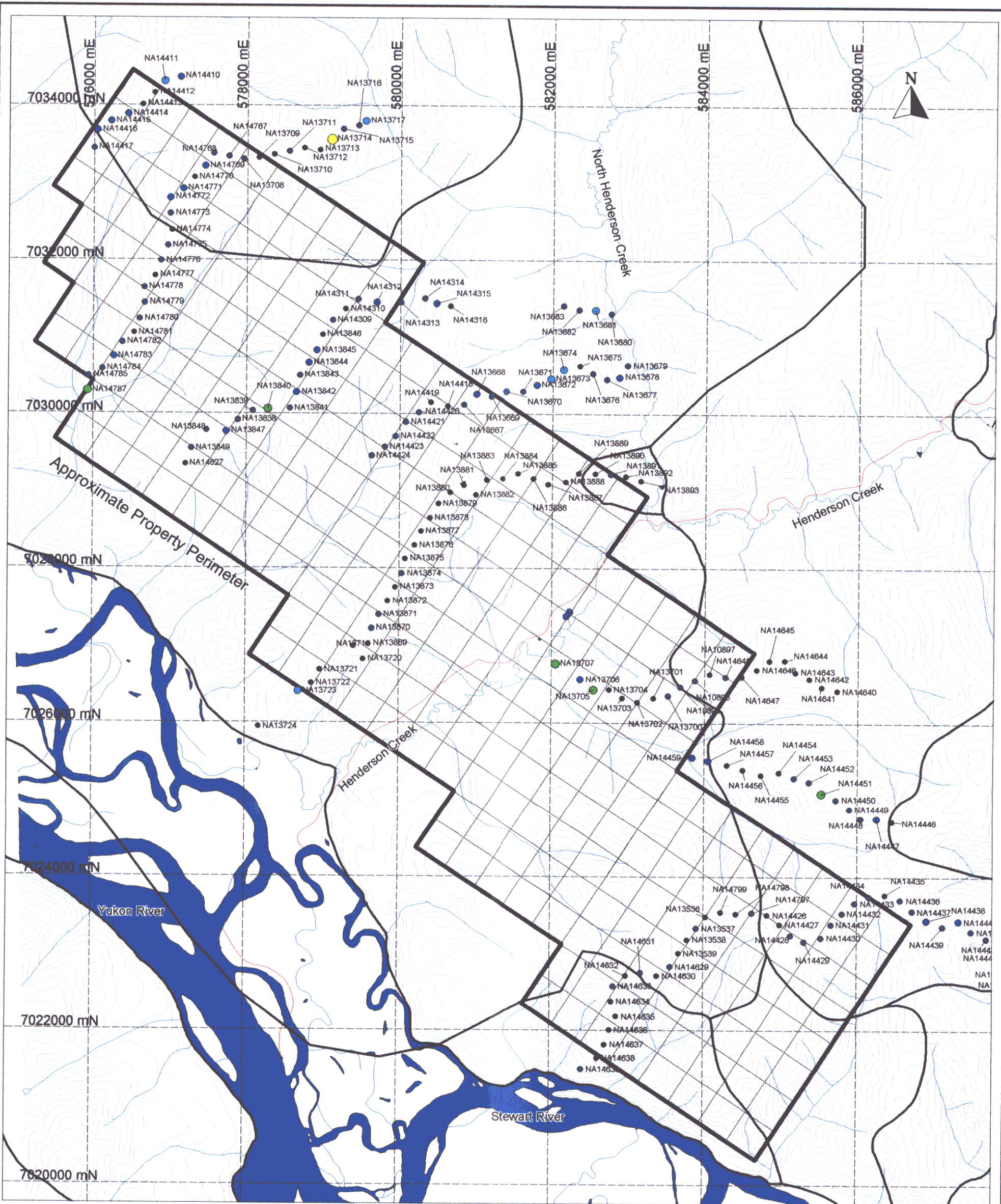
* Note, not all sample value intervals from Lucky Joe sample database are present on this map.

Scale: 1:50,000



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 KENNECOTT CANADA EXPLORATION INC. VANCOUVER		
HEN PROPERTY		
Soil Geochemistry		
COPPER (ppm)		
YUKON TERRITORY, CANADA		
Date: Dec. 15, 2003	Scale: 1:50,000	Drawn By: RH
File: Hen Prop.	Datum: NAD83, Zone 7	Figure: 5



LEGEND

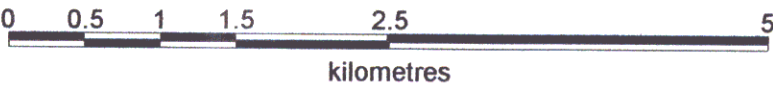
Percentile Ranges *
for: Au (ppb)

- 0.5 <= 1 [$<30\%$] (356)
- 1 <= 3 [$30<60\%$] (693)
- 3 <= 5 [$60<80\%$] (399)
- 5 <= 9 [$80<90\%$] (231)
- 9 <= 14 [$90<95\%$] (104)
- 14 <= 34 [$95<98\%$] (63)
- 34 <= 64 [$98<99\%$] (19)
- 64 <= 611 [$99\%+$] (19)

- Lithologic Contact
- Road or Trail

* Note, not all sample value intervals from Lucky Joe sample database are present on this map.

Scale: 1:50,000



094442

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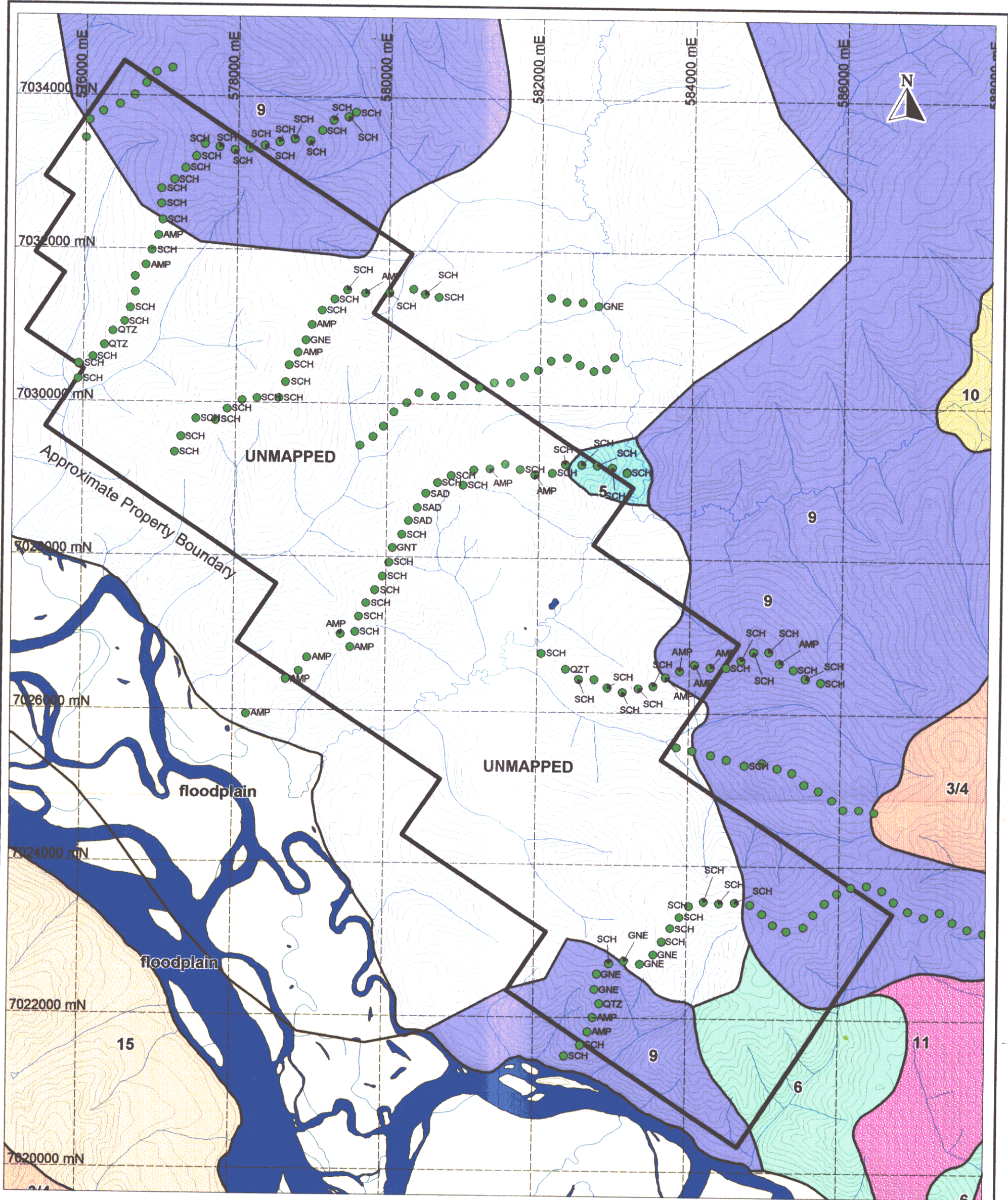
HEN PROPERTY

Soil Geochemistry
GOLD (ppb) and SAMPLE NUMBERS

YUKON TERRITORY, CANADA

Date: Dec. 15, 2003	Scale: 1:50,000	Drawn By: RH
File: Hen Prop.	Datum: NAD83, Zone 7	Figure: 4

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LEGEND

Quaternary

Fluvial silt, sand and gravel deposits

Jurassic

15 Granodiorite

Mid (?) To Late Paleozoic

11 Augen Gneiss

10 Felsic Gneiss

9 Grey Gneiss

6 Amphibolite

5 Marble

3/4 Quartz Mica Schist and Mica-Quartz Schist Paragneiss Units, Undivided

ABBREVIATIONS

AMP Amphibolite

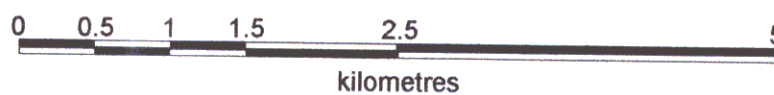
GNE Gneiss

QTZ Quartz

SCH Schist

● Soil Sample Site

Scale: 1:50,000



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HEN PROPERTY

GEOLOGY

YUKON TERRITORY, CANADA

Date: Dec. 15, 2003

Scale: 1:50,000

Drawn By: RH

File: Hen Prop.

Datum: NAD83, Zone 7

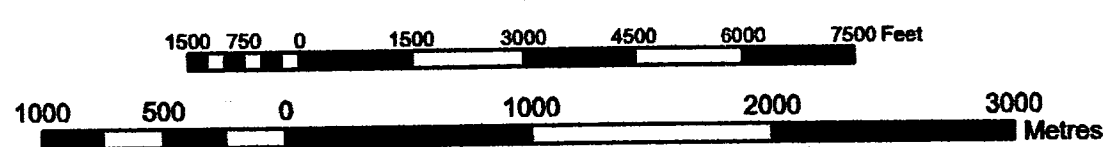
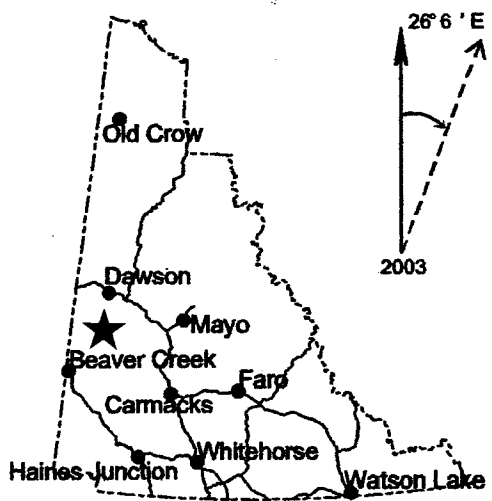
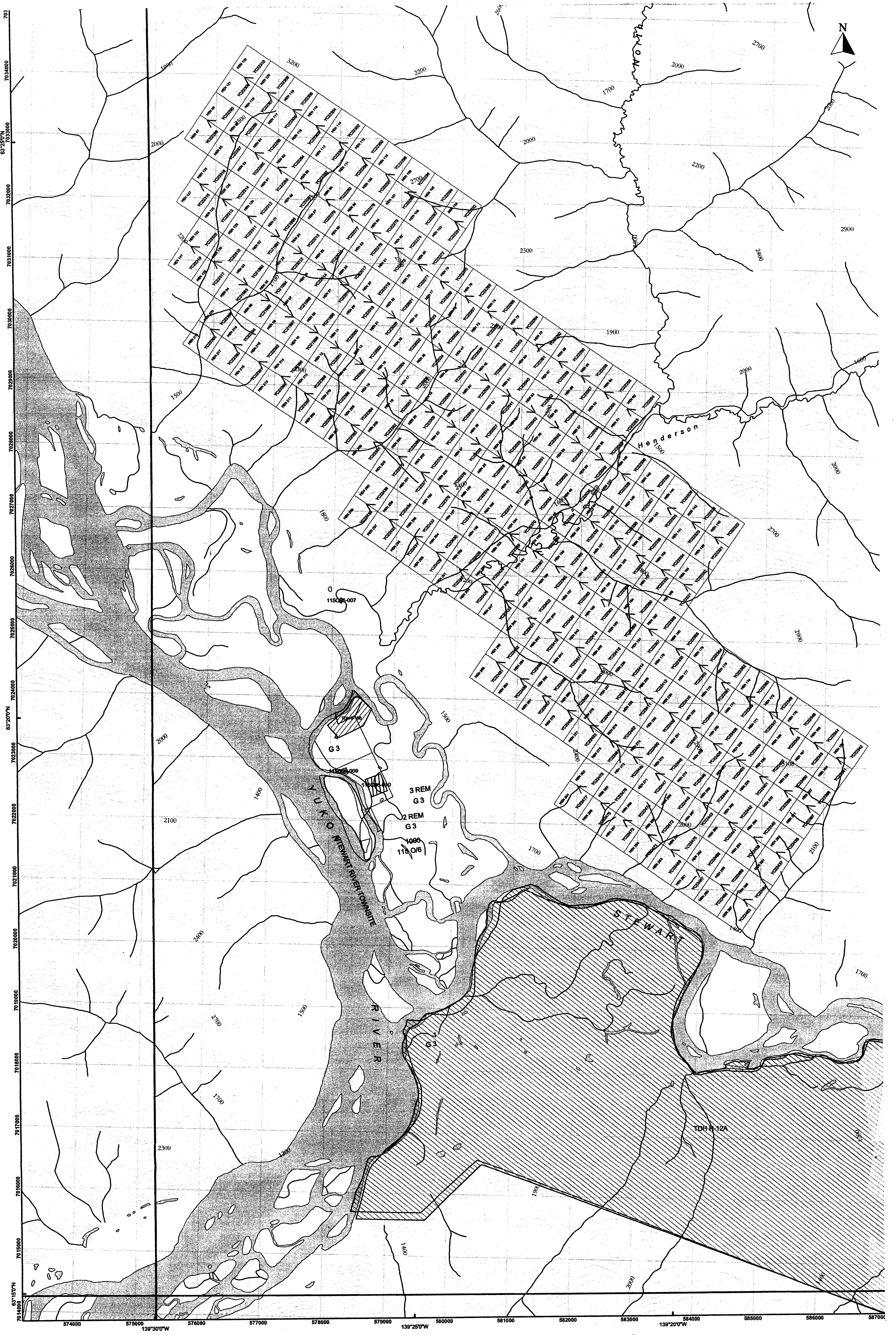
Figure: 3

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NOTE: Geology after Gordy et al. 2002, OF 1772, Geological Survey of Canada

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Mining
> Staking Direction
X GPS Located Claim Post

First Nation Settlement Lands
Category
A
A/D-1
B

KENNECOTT CANADA EXPLORATION INC.
VANCOUVER

Hen Property
CLAIM LOCATION
Yukon Territory, Canada

Author: RH
Date: Dec. 5, 2003
NTS: 1150/6
Drawn by: RH
File: Lucky Joe
Figure: 2

Projection: NAD83, Zone 7

Source of Map: Yukon Energy, Mines and Resources Minerals Management Branch

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& RESOURCES LIBRARY
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