REPORT ON THE 2003 GEOLOGICAL AND GEOCHEMICAL WORK ON THE LUCKY JOE PROPERTY

Claim Name:	Grant No's.
Ash 2	Y99884
Ash 4	Y99886
B No. 1-2	Y56956-Y56957
B No. 5-6	Y56960-Y56961
Tar 1	YA29800
LJ 1-168	YC21232-YC22299
LJ 169-228	YC21472-YC21531
LJ 229-270	YC21400-YC21441
LJ271-284	YC21906-YC21919
LJ285-340	YC22074-YC21927
LJ341-380	YC22122-YC22161
LJ381-384	YC21928-YC21931
LJ385-441	YC22162-YC22218
LJ442-446	YC28403-YC28407
LJ448	YC28408
LJ450-483	YC28409-YC28442
Lucky 1-12	YC21084-YC21095
Lucky Joe 1-48	YC20828-YC20875

DAWSON MINING DISTRICT, YUKON TERRITORY
NTS: 115O/11 & 115O/12

Latitude 63° 36'
Longitude 139° 33'

Work conducted:
June 11 – August 24, 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.

November 30, 2003

RECEIVED
DEC 22 2003
MINING
RECORDERS OFFICE
DAWSON, Y.T.

094388

Costs associated with this report have been approved in the amount of $ 167,700 for assessment credit under Certificate of Work No. 2000 464, 470, 472, 474

K. Perry

Mining Recorder
Dawson City Mining District

SUMMARY

The Lucky Joe Property, located in west-central Yukon covers an area of approximately 11,300 hectares, is comprised of 548 Yukon two-post Quartz claims that are held under option by Kennecott Canada Exploration Inc. These claims together with other non-contiguous claims, together with an area of influence, make up the Lucky Joe Project. The ground is held under option from Copper Ridge Explorations Inc. who in tuned optioned the ground from Yukon prospector Shawn Ryan. All work in 2003 was helicopter supported and consisted of soil geochemistry surveys, geological mapping and 38 short trenches or test pits.

The Lucky Joe property is underlain by Yukon Tanana terrrane Phanerozoic ductilely deformed metasedimentary and metaigneous rocks. These rocks include arc magmatic rocks of Late Devonian to early Mississippian, mid Permian and syn to late kinematic Late Triassic – Early Jurassic age.

The Lucky Joe property hosts copper-gold mineralization discovered by diamond drilling of soil geochemistry anomalies in the late 1970's. Analytical values from this drilling had intersections with 0.3% copper to 0.6% copper over thicknesses of 20 m to 30 m with values up to 0.95% copper over 5.2 m. The area again became a focus of exploration activity in 2001 when Shawn Ryan, following up on a recently released low level airborne geophysical survey, recognized the potential for widespread copper-gold mineralization beyond the area of the 1970's drilling.

Results from reconnaissance ridge and spur soil sampling and grid sampling have revealed two dominant NNW trending Cu-Au trends. The easternmost trend has an apparent strike length of at least 21.5 km and is up to 3 km wide with high soil values for Cu and Au of 3060 ppm and 235 ppb, respectively. The easternmost trend or Three Bears Trend consists of three discrete zones anomalous with respect to Cu-Au-Ag-Mo, referred to as the Bear Cub, Papa Bear, and Lucky Joe. The westernmost (Ryan Pit) trend has an apparent strike length of 7.2 km with high soil values for Cu and Au of 4400 ppm and 611 ppb, respectively. Discontinuities within the anomalies are largely due to surficial cover, primarily permafrost.

Regional geochemical zoning is indicated as the central portions of the Three Bears and Ryan Pit soil anomalies are enriched in Cu-Au-Ag-Mo with an immediate fringe of enriched Pb, Pb-Zn values flanked by elevated Zn values. Strong Na enrichmant is coincident with Cu-Au-Mo at the Bear Cub, Papa Bear and Ryan Pit soil anomalies and may define the hottest parts of the mineralizing system.

Geologic mapping supplemented by major and trace element rock geochemistry and petrography identified the presence of at least three meta-intrusive phases, widespread alteration assemblages that are spatially associated and transgress all rock types, and a zoned metal association of Cu-Au-Ag-Mo-Te-Pb-Zn. This supports a high temperature model for mineralization. The Lucky Joe system is now envisioned to be either a metamorphosed Cu-Au porphyry system (alkalic?) or a variant of the iron oxide copper gold (IOCG) model.

Diamond drilling is recommended to test the geochemical soil anomalies.

TABLE OF CONTENTS

SUMMARY i
TABLE OF CONTENTS ii
1.0 INTRODUCTION 1
1.1 Location and Access 1
1.2 2003 Exploration Activities 3
1.3 Topography, Vegetation and Climate 5
1.4 History 6
1.5 Claim Status 7
2.0 REGIONAL GEOLOGY 8
3.0 PROPERTY GEOLOGY 9
3.1 Structure 11
4.0 MINERALIZATION AND ALTERATION 14
5.0 GEOCHEMISTRY 22
5.1 Soil Geochemistry 22
5.1.1 Soil Geochemistry Results 23
5.2 Rock Geochemistry 32
5.3 Stream Geochemistry 32
6.0 Trenching 33
7.0 GEOPHYSICS 38
8.0 CONCLUSIONS AND RECOMMENDATIONS 40
9.0 STATEMENT OF COSTS 41
10.0 STATEMENT OF QUALIFICATIONS 42
11.0 REFERENCES 43

LIST OF FIGURES

Figure 1. Location Map 2
Figure 2. Soil grid location map. 4
Figure 3. Map showing new claims added to the LJ and LJS groups 5
Figure 4. Claim Location ..... in pocket
Figure 5. Property Geology ..... in pocket
Figure 6. Generalized geology at Lucky Joe with Cu in soil anomalies shown 10
Figure 7. Photo of Metaclastic unit outcrop illustrating relict cross-bedding (arrow). 11
Figure 8. Photo of Laminar-foliated unit outcrop and freshly broken hand specimen (inset). 11
Figure 9. Photo of Amphibolite unit outcrop. 11
Figure 10. Folding styles observed locally on the property. 12
Figure 11. Photomicrograph of a polished plug from core hole RIO75-5 634' showing a 2 micron inclusion of electrum within chalcopyrite. 14
Figure 12. Map showing the distribution of major alteration zones at Lucky Joe relative to the distribution of Cu in soils. 15
Figure 13. Examples of classic muscovite-quartz altered rocks. The group of photos on the right consists of altered Metaclastic unit (top), laminar-foliated unit (middle), and Eastern class meta-intrusion (bottom). 16
Figure 14. Hand specimen of Western Class meta-intrusive that is composed of glassy plagioclase and quartz. The largest plagioclase crystals are about 3 mm. 17
Figure 15. Possible paragenesis of alteration and mineralization. 20
Figure 16. Soil Sample Location ..... in pocket

Figure 17. Map showing the two anomalous Cu-Au trends based on results of reconnaissance sampling in 2003 and scattered grid sampling in 2002. 23
Figure 18. 2003 Soil Samples - Gold Geochemistry ..... in pocket
Figure 19. 2003 Soil Geochemistry - Copper Geochemistry ..... in pocket
Figure 20. Map showing the three discrete anomalies along the Three Bears Trend... 24
Figure 21 Map of the Papa Bear grid showing Cu-Au soil anomalies, magnetic lineaments, and surficial soil environments. 25
Figure 22. Map of the Bear Cub grid showing Cu-Au soil anomalies, magnetic lineaments, and surficial soil environments. 26
Figure 23. Map of the Echo grid showing Cu-Au soil anomalies, magnetic lineaments, and surficial soil environments. 27
Figure 24. Map of the South Bear grid showing Cu-Au anomalies and surficial soil environments. 28
Figure 25. Map of the LJ and Ryan Pit grids showing Cu in soil anomalies along with surficial soil environments. 29
Figure 26. Map of Cu and Au in soil along with surficial soil environments for the Far South grid. 30
Figure 27. Map of metal Zonation in soils for the Lucky Joe property. 31
Figure 28. Map showing Na-enriched soils with respect to metal Zonation 31
Figure 29. Rock and Stream Sediment Sample Locations ..... in pocket
Figure 30. Trench Locations 34
Figure 31. Trench location map for the Papa Bear Grid showing Cu values (ppm) in red and Au values (ppb) in yellow. The inset photo illustrates the deeply weathered nature of the trenches along the lower slope 33
Figure 32 Trench location map for the Bear Cub Grid showing Cu values (ppm) in red and Au values (ppb) in yellow. The inset photos show *in-situ* bedrock from the western-most trench and the deeply weathered nature of bedrock in a typical trench across the Bear Cub zone. 35
Figure 33. Trench location map for the northern portion of the Ryan Pit Trend showing Cu values (ppm) in red and Au values (ppb) in yellow. The inset photo shows Randy Boyer examining rock from trench 31. 36
Figure 35. Total Field Magnetics 39

LIST OF TABLES

Table 1. List of Claims 7
Table 2. Statement of Costs 42

LIST OF APPENDICES

Appendix A: Sample Code Abbreviations
Appendix B: Analytical Procedures
Appendix C: Rock Sample Descriptions and Analytical Results
Appendix D: Whole Rock Sample Descriptions and Analytical Results
Appendix E: Stream Sediment Samples and Analytical Results
Appendix F: Soil Sample Descriptions and Analytical Results
Appendix G: Soil Geochemistry Statistics and Quality Control
Appendix H: Report by Young, L., Geologic Setting of the Lucky Joe Project. October 2003.

1.0 INTRODUCTION

This assessment report summarizes the geochemical work carried out on the Lucky Joe property located in the Dawson Mining District, Yukon Territory. A total of 548 two post Yukon Quartz claims comprise the property which 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 optioned them from Yukon prospector Shawn Ryan in 2002. The Lucky Joe Project is a bulk tonnage copper – gold target hosted by metamorphic rocks of the Yukon Tanana Terrrane.

The information contained in the report was prepared by R. Hulstein and is based on research and fieldwork conducted in 2002 and 2003 by Kennecott personnel and contractors and on referenced sources. Project geologist Russell Franklin and contract geologist Lorne Young wrote most of the text in this report relating to the geochemisty and geology respectively.

Work by Kennecott Exploration in 2003 consisted largely of a soil and rock geochemistry survey, geological mapping and helicopter supported mechanical trenching. A Class III Mining Land Use Permit (File No. LQ00102), effective until May 22, 2008, was received prior to commencing fieldwork.

1.1 Location and Access

The Lucky Joe property is located approximately 55 kilometres south of Dawson City in west central Yukon Territory, within the Dawson Mining District (Figure 1). The property lays almost entirely between Reindeer and Rosebute Creek drainages and is located on map sheets NTS 115O/11 and 115O/12. Lucky Joe Creek drains the central portion of the property.

Access to the claims is by helicopter. Helicopters are based in Dawson City. Previous access for the 1970's drilling was by a 30 km kilometer bulldozer road from the mouth of Quartz Creek on the Indian River, past the northwest side of Haystack Mountain and the southeast flank of Reindeer Mountain.

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'.

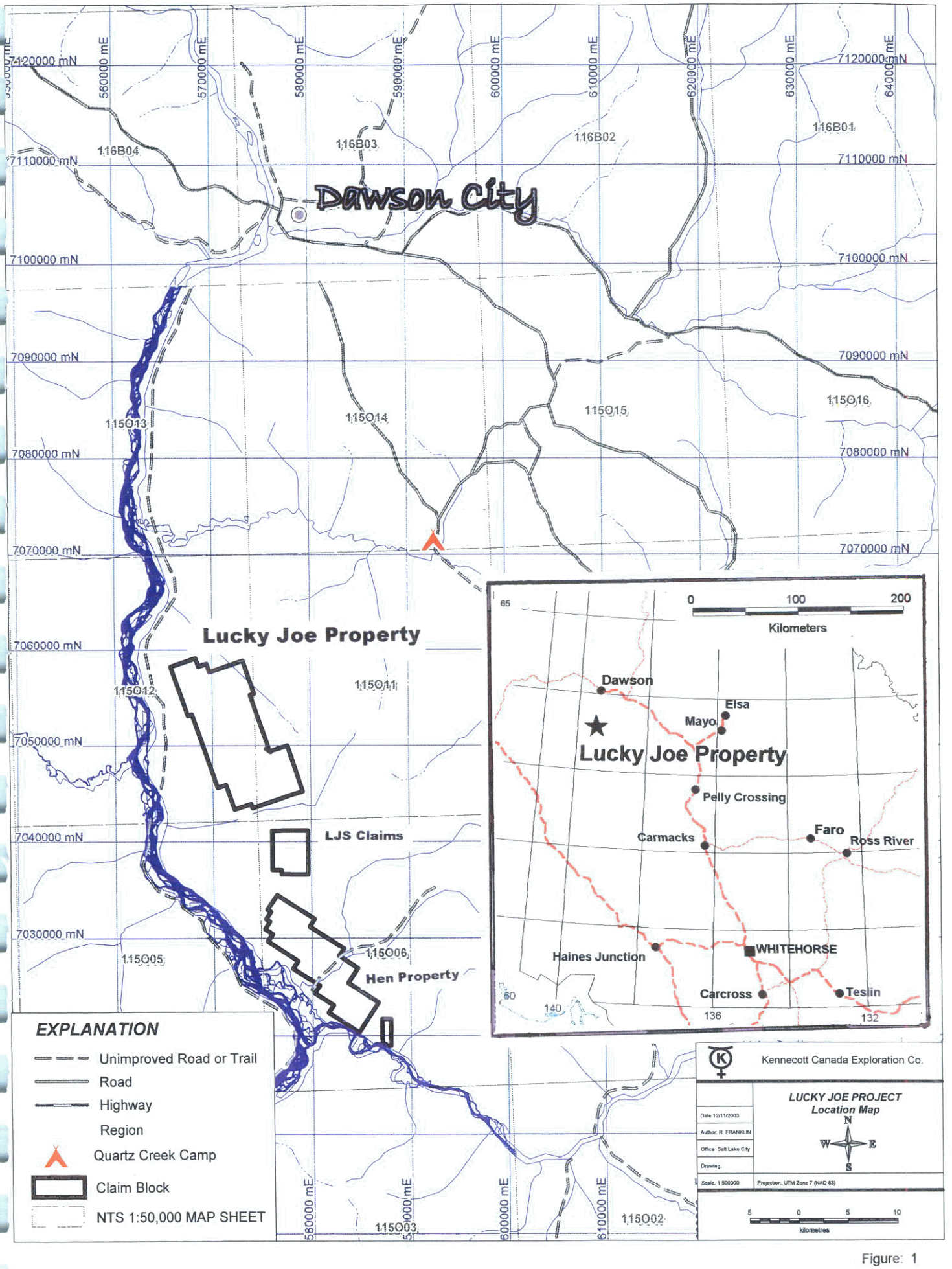

Dawson City
Lucky Joe Property
LJS Claims
Hen Property
116B01
116B02
116B03
116B04
115O11
115O12
115O13
115O14
115O15
115O16
115O002
115O003
115O005
115O006
7120000 mN
7110000 mN
7100000 mN
7090000 mN
7080000 mN
7070000 mN
7060000 mN
7050000 mN
7040000 mN
7030000 mN
560000 mE
570000 mE
580000 mE
590000 mE
600000 mE
610000 mE
620000 mE
630000 mE
640000 mE
0
100
200
Kilometers
Dawson
Elsa
Mayo
Lucky Joe Property
Pelly Crossing
Carmacks
Faro
Ross River
Haines Junction
WHITEHORSE
Carcross
Teslin
65
60
140
136
132
EXPLANATION
Unimproved Road or Trail
Road
Highway
Region
Quartz Creek Camp
Claim Block
NTS 1:50,000 MAP SHEET
Kennecott Canada Exploration Co.
LUCKY JOE PROJECT
Location Map
Date 12/11/2003
Author. R FRANKLIN
Office Salt Lake City
Drawing.
Scale. 1 500000
Projection. UTM Zone 7 (NAD 83)
N
W
E
S
5
0
5
10
kilometres

Figure: 1

1.2 2003 Exploration Activities

Exploration activities commenced on May 31 when camp equipment was mobilized to the campsite on Quartz Creek, located about 23km NE of the Lucky Joe property. Camp construction, crew and contract helicopter mobilization, and safety training were completed by June 10. At its peak, the field crew consisted of 3 Kennecott staff personnel (project geologist Russell Franklin, Ricardo Presnell and Harley English), 3 contract geologists (Randy Boyer, Lorne Young, Roger Hulstein), 2 camp/data support staff (Ursula Watt , James Koyanagi), and a helicopter pilot and engineer with Prism Helicopters Ltd.

The first phase of fieldwork consisted of regional ridge and spur reconnaissance soil sampling on 200 m sample spacing. The primary objective was to explore for other anomalies both on and off existing trends and to determine if previously discovered anomalies have continuity amongst one another. This phase of work was largely completed by July 1 although additional traverses were added as needed through the first week of August.

During this stage GSC personnel utilized the camp to stage their activities in and around Lucky Joe. Dr. Jan Peter spent a week at Lucky Joe re-boxing core from the main Lucky Joe showing and from the Bear Cub grid. He collected molybdenite for Re-Os dating, and also collected a large sample of quartz feldspar porphyry for U-Pb dating of zircon. Several other samples were collected for petrographic study. No results from this work have been received to date. Dr.'s Jim Ryan and Steve Gordey spent a week traverse mapping in the Lucky Joe region and a new regional geology map is due to be published sometime in 2004.

The next phase of exploration shifted from regional reconnaissance to refining anomalies by gridding at 100 m sample spacing and 200 m line spacing. Six grids were established in July and early August, the Echo, South Bear, LJ, Ryan Pit, Papa Bear, and Far South Grids (Figure 2). Eventually the Papa Bear and South Bear grids merged together as did the LJ and Ryan Pit grids.

In August a small portable backhoe (Digger) rented from Alaska Minerals Exploration Service out of Anchorage was utilized to dig short trenches and test pits at select soil anomalies. A total of 38 trenches and pits were excavated at five anomalous sites.

Lorne Young carried out geologic mapping throughout the course of the program. This was supplemented by the collection of more than 100 rock samples for lithogeochemical, trace element, and petrographic study.

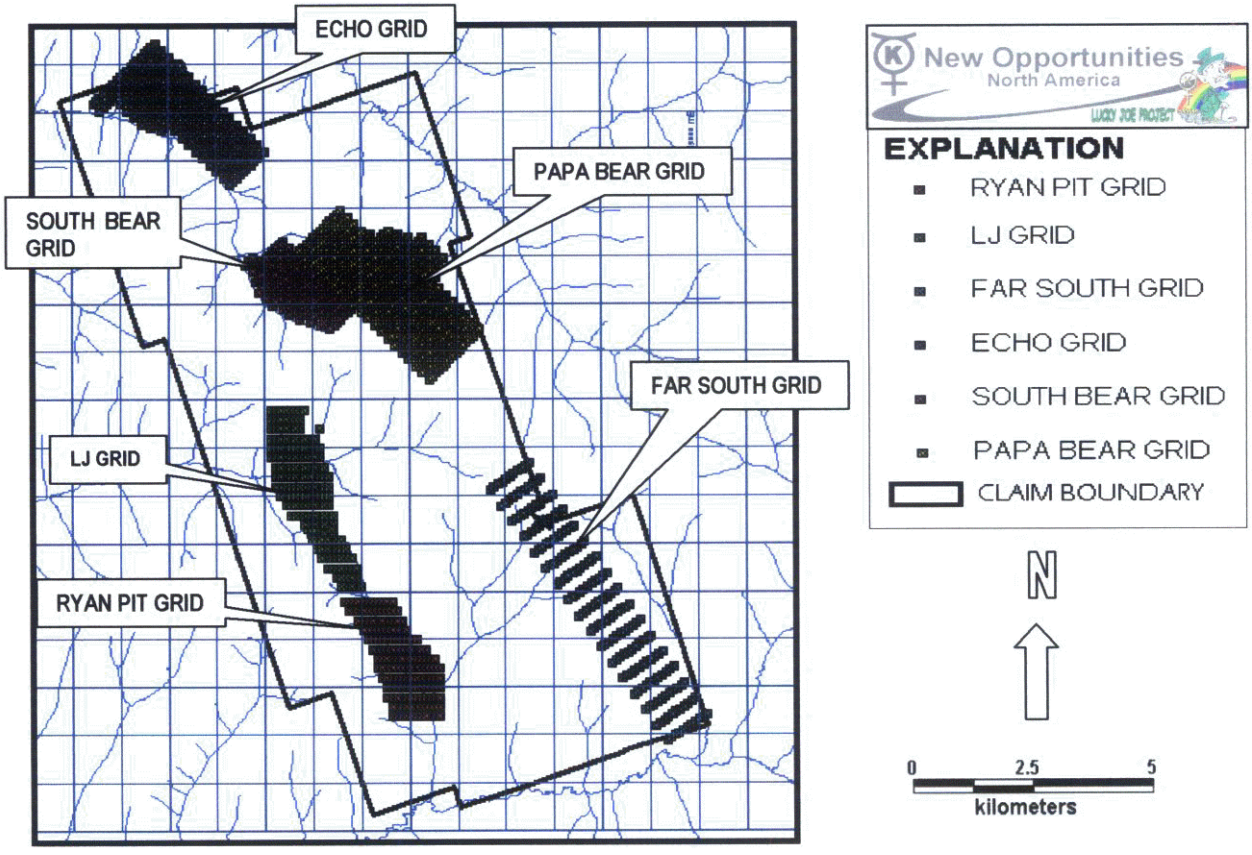


Figure 2. Soil grid location map.

Forty new claims were pegged to cover potential mineralization that may occur along strike with the Three Bears Trend along the southeast part of the claim block (Figure 3). An additional 40 claims were also pegged along the east side of the LJS 1-38 claim block in the Shamrock area south of Lucky Joe. This was in response to the discovery of a sulfidic kill zone located 900 m east of the central edge of the existing block of claims.

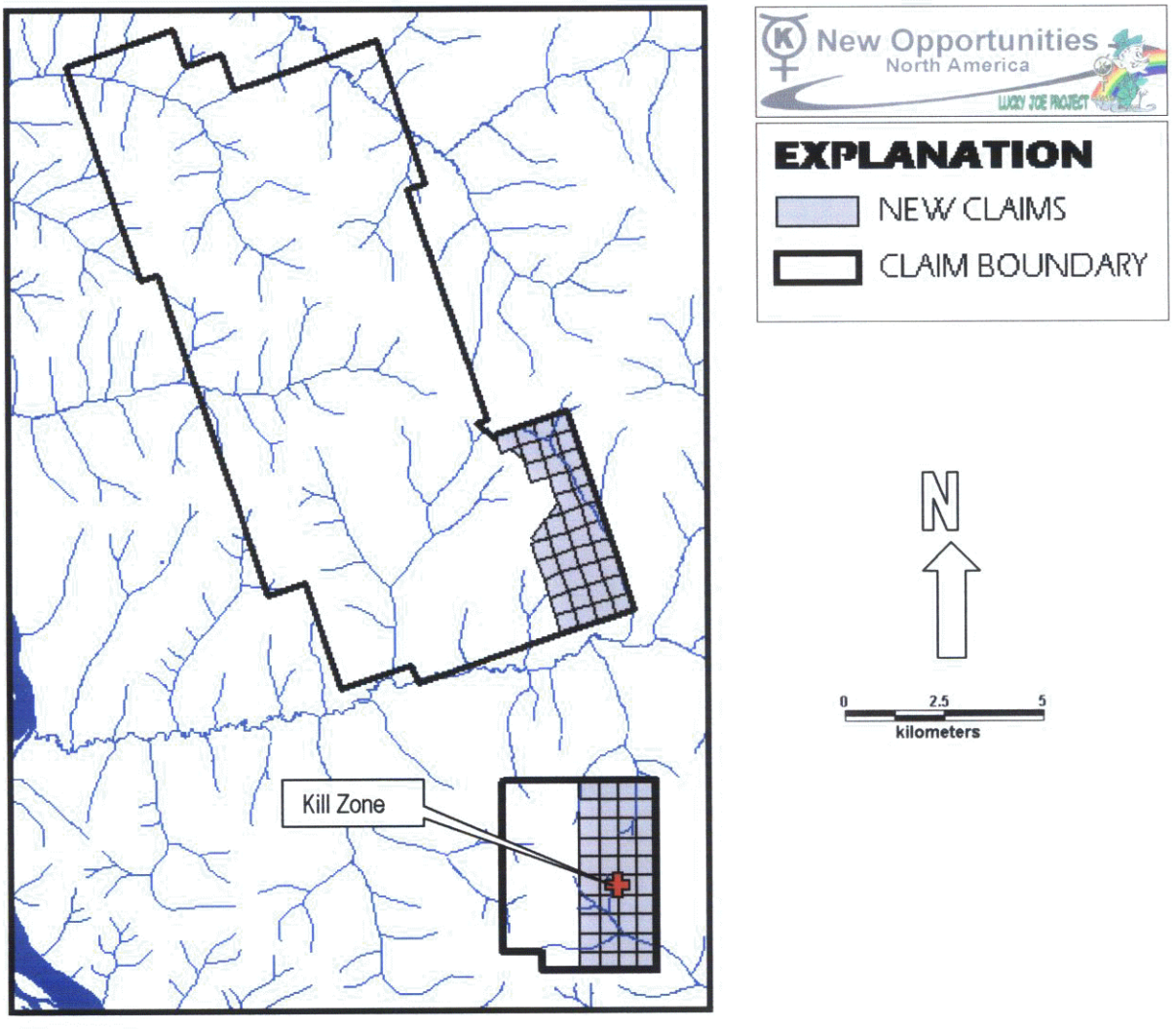


Figure 3. Map showing new claims added to the LJ and LJS groups.

1.3 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 approximately 1500 m in the Rosebute Creek valley to 3150 m atop the Rosbute/Lucky Joe Creek divide. 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 1-2m thick while colluvium blanket material averages >3m 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. Valleys are filled with alluvium and locally form terraces up to 20m thick.

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. Treeline is at approximately 4,000 feet. 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. Thunders 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.

1.4 History

The first recorded claims in the area were staked in 1970 by the Dawson Syndicate (Silver Standard Mining Limited and Asarco) which performed grid soil sampling and drilled three holes (128.6 m) in 1971 (Yukon Minfile, 2003). The property was subsequently optioned by Riocanex (Rio Tinto Canadian Exploration Inc.) in 1975 which performed mapping, geochemical surveys, magnetic and induced polarization surveys and drilled two diamond drill holes (424.9 m) in 1975. In 1976 they drilled 5 holes (1195.4 m) and conducted a small mapping and geochemical program in 1977. In additional 5 holes (788.8 m) were drilled in 1978 and an electromagnetic survey completed in 1980 before Riocanex dropped their option. Silver Standard changed their name to Consolidated Silver Standard in 1984. Noranda staked claims over portions of the project area in 1992.

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 Survey, staked claims that represented possible extensions of the showings discovered and drilled by the Dawson Syndicate and Riocanex. Shawn Ryan carried out soil sampling and dug test pits and both confirmed the presence of copper-gold mineralization and discovered new occurrences.

In 2002 Copper Ridge Explorations Inc. optioned the claims staked by Shawn Ryan and seven of the original claims from Consolidated Silver Standard Resources Inc. and carried out a geochemical soil survey consisting of 1430 samples. In January 2003 Kennecott Canada Exploration Inc. optioned the land package, the Lucky Joe Project, from Copper Ridge.

1.5 Claim Status

The Lucky Joe Property covers an area of approximately 11,300 hectares and consists of 548 unsurveyed, contiguous, two-post Yukon 'Quartz' claims which are held under option by Kennecott (Figure 4, in pocket) from Copper Ridge Explorations Inc. The claims were Quartz Mining Act and are located in the Dawson Mining District. They are shown on claim sheets 115O-11 and 115O-12 available for viewing at the Dawson Mining Recorders Office. The claims listed below (Table 1) are registered in the name of Kennecott Canada Exploration Inc. Following the acceptance of this report new expiry dates will be available from the Dawson Mining Recorder.

Table 1. List of Claims

Claim Name	Grant Number	Expiry Date*
Ash 2	Y99884	2004/11/10
Ash 4	Y99886	2004/11/10
B No. 1-2	Y56956-Y56957	2004/11/10
B No. 5-6	Y56960-Y56961	2004/11/10
Tar 1	YA29800	2004/11/10
LJ 1-42	YC21232-YC21273	2005/05/09
LJ43-168	YC21274-YC21399	2005/06/10
LJ 169-228	YC21472-YC21531	2005/06/11
LJ 229-270	YC21400-YC21441	2005/06/10
LJ271-284	YC21906-YC21919	2004/10/18
LJ285-332	YC22074-YC22121	2004/10/22
LJ333-340	YC21920-21927	2004/10/18
LJ341-380	YC22122-YC22161	2004/10/22
LJ381-384	YC21928-YC21931	2004/10/18
LJ385-441	YC22162-YC22218	2004/10/22
LJ442-446	YC28403-YC28407	2004/08/19
LJ448	YC28408	2004/08/19
LJ450-483	YC28409-YC28442	2004/08/19
Lucky 1-12	YC21084-YC21095	2008/09/25
Lucky Joe 1-48	YC20828-YC20875	2005/03/31

*Prior 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 approximately eight kilometers to both the west and south was mapped at 1:100,000 scale at part of a Geological Survey of Canada NATMAP project (Ryan et al, 2002). This is an ongoing project and the area underlain by the property was remapped in 2003 and a new map is due to be published in 2004. Consequently, a regional geology map is not included with this report.

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 respectfully trend northwest and are major crustal-scale transcurrent dextral faults of Tertiary (?) age.

The area is underlain by the lithotectonic (pre-accretion) Yukon-Tanana terrnae (YTT) assemblage: a medium to high grade, polydeformed metasedimentary and meta-igneous rock package. 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 two main 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.

Ultramafic rocks are found across the region. They are composed of amphibolite facies metagabbro, metapyroxenite (now actinolite) and rare serpentinite. These rocks were previously included with the Paleozoic Slide Mountain Terrane (Mortenson, 1996) but this is now questionable and their origins remain undetermined (Ryan et al, 2003).

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

Post accretion units uncomformably overly rocks of the YTT and Slide Mountain terrane. These units consist of a sequence of unmetamorphosed sedimentary and volcanic rocks of middle (?) and Late Cretaceous age (Mortenson, 1996). The lower part of the unit typically consists of sandstone and pebble to cobble conglomerate that is overlain by massive andestic flows and breccias that are correlated with the (68-76Ma) Carmacks Group.

Bodies of Late Cretaceous fine to medium grained, equigranular biotite-hornblende quartz monzonite and granodiorite are thought to be comagmatic with the Carmacks group volcanics.

3.0 PROPERTY GEOLOGY

A geologic map of the Lucky Joe claim group has been compiled at a scale of 1:20,000 from 1:10,000 field sheets of mapped outcrops, subcrops, and float (Figure 5, in pocket). This mapping provides the basis from which geologic boundaries have been inferred, supplemented by the aeromagnetic data and rock type observations from soil sample sites. (Figure 6)

There are three principal layered units within the map area that are interpreted from oldest to youngest as; 1) Metaclastic unit, 2) Laminar-foliated unit, and 3) Amphibolite unit. The Metaclastic unit is composed of a wide range of protoliths including arkosic greywacke, quartz sandstone, arkose, and shale (Figure 7). The Laminar-foliated unit (Figure 8) is composed predominantly of felsic volcanics, possibly altered rhyolitic to latitic tuffs, and local arkosic sediments. The Amphibolite unit (Figure 9) is composed of mafic to intermediate volcanics that are locally tuffaceous and interbedded clastic sediments. Some coarser grained units may represent plugs, dikes, or sills but these are greatly subordinate to the finer-grained compositionally layered phases. At least two types of plutonic suites have intruded these units, a biotite-bearing granodioritic orthogneiss (Eastern-class) and a leucocratic metagranite (Western-class). The former intrusion is of batholithic-scale, and occurs widely along the eastern side of the property and beyond.

These two intrusive suites have clear lithogeochemical, mineralogical, and textural contrasts. The older "Eastern-class" intrusions consist of

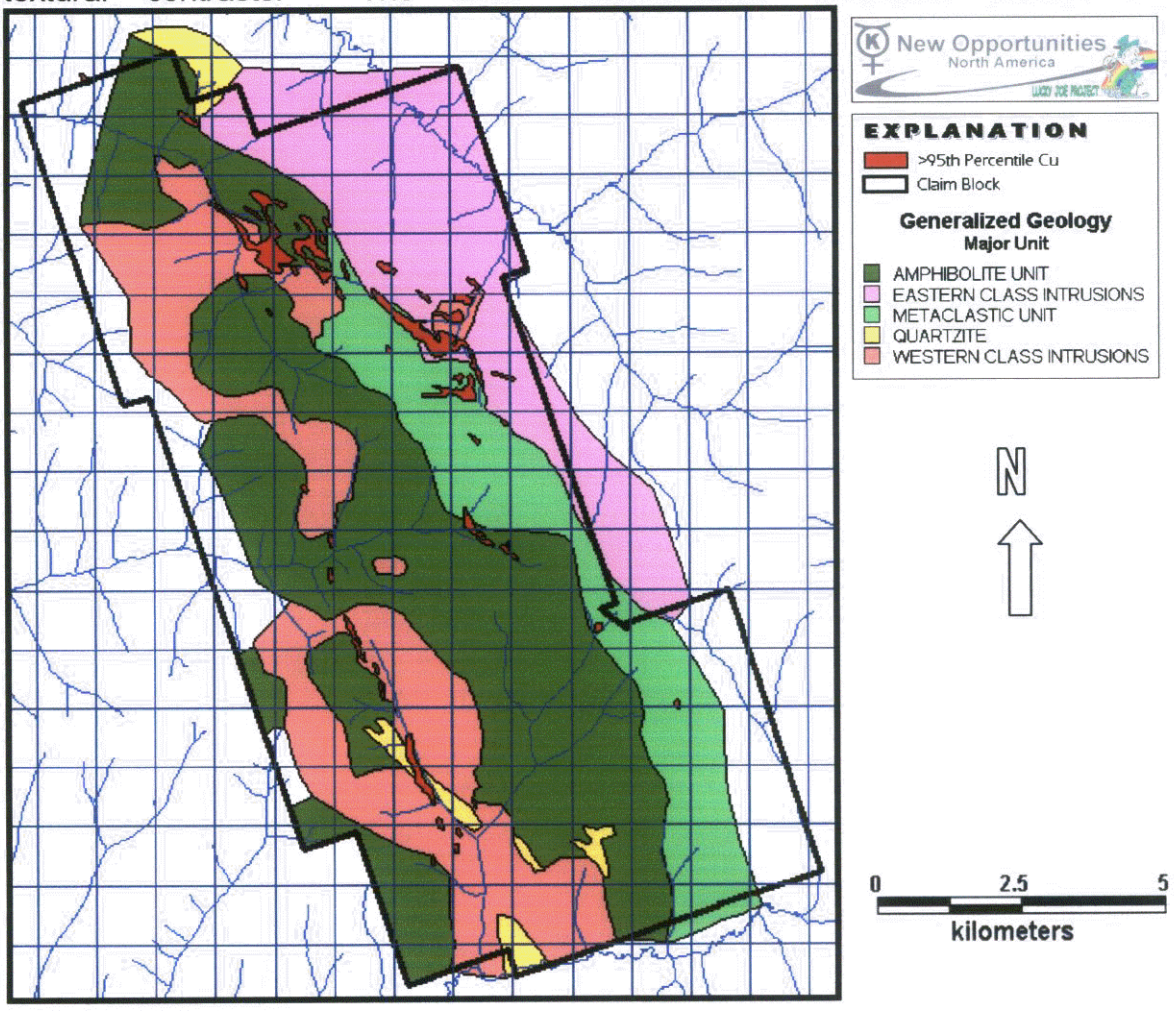


Figure 6. Generalized geology at Lucky Joe with Cu in soil anomalies shown.

gneissic-textured biotite-rich rocks with an average composition of granodiorite, and possibly of quartz monzonite composition prior to mineral redistribution during metamorphism. The younger (?) "Western-class" intrusive suite consists of weakly schistose leucocratic rock of original granite composition. At least a portion of known alteration and mineralization occurs spatial to the Western-class intrusions, which are enriched in Al and Na and depleted in K and a host of other elements. While it is not proven that the Western-class intrusions are the source of mineralization, they appear to have been within the most vigorous portion of the alteration pathway. All of the major units and intrusive suites can be typed and correlated based upon major oxide analyses. Further, the nature of alteration associated with mineralization can be quantified. A comparison of fresh Eastern-class meta-intrusions with hydrothermally altered Eastern-class meta-intrusions demonstrates an overall increase in K and decrease in Ca. Taken together, the combined data supports deeper level and/or higher



Figure 7. Photo of Metaclastic unit outcrop illustrating relict cross-bedding (arrow).

Figure 8. Photo of Laminar-foliated unit outcrop and freshly broken hand specimen (inset).

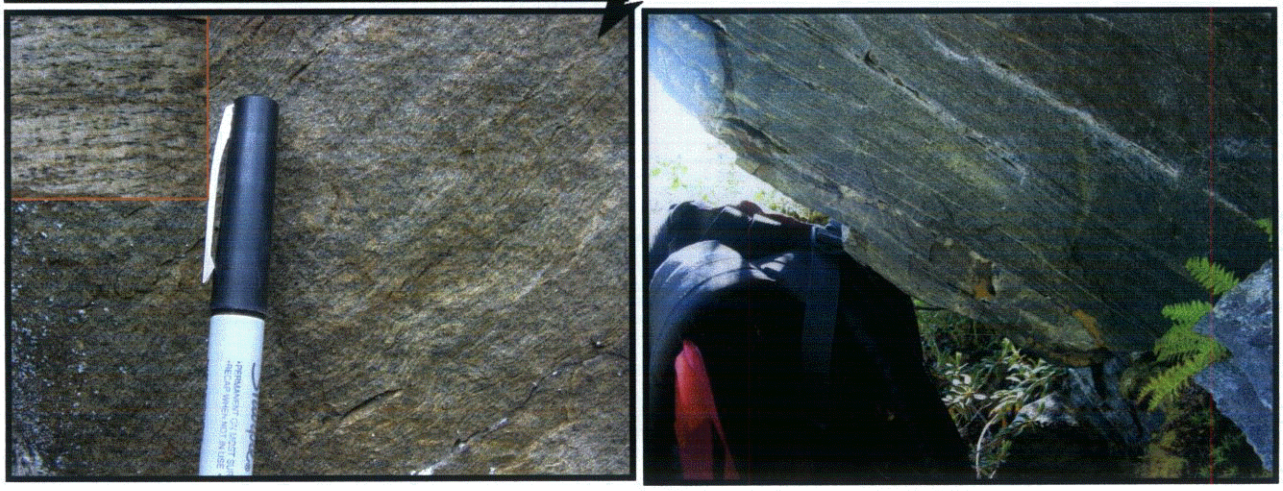


Figure 9. Photo of Amphibolite unit outcrop.

temperature sodic alteration and higher level and/or lower temperature potassic alteration in the Lucky Joe mineralized systems. In addition to the geochemical suite, the distribution of hydrothermal alteration mineralogy does not support the sedimentary model historically proposed for the Lucky Joe prospect. In fact, a significant proportion of the alteration and mineralization is hosted within meta-intrusions.

3.1 Structure

The principal assumptions are that the major compression axis is ENE-WSW and that many structures should be ENE-verging. The rocks could have been metamorphosed during the Devono-Mississippian, Permian, and/or Jurassic(?) periods, and were thrust northeastward during mid-Jurassic through Cretaceous time. Other than these assumptions, every structural detail must be gleaned from a handful of well-presented outcrops on the property. Compounding the problem, many units simply lack enough internal lithologic

heterogeneity to allow the visualization of structure. Intense rodding is a ubiquitous feature. Cataclastic textures are also common in competent rock types, but note that previous workers state that almost all deformation is ductile. Crenulation cleavage is well developed, particularly in the Metaclastic unit. Two folding styles are observed (Figure 10), chevron and upright to



Figure 10. Folding styles observed locally on the property.

overturned circular. No truly recumbent folds have been observed. Large-scale overturned or recumbent folding was proposed by previous workers, based upon an undocumented study of S and Z folds. Both S and Z folds are seen sparingly in outcrop and reported from core, but are small structures and quite unlikely to prove the existence of overturned folds of km-scale wavelengths. This is not to say that large nappes are not present; in fact, such structures are useful in rationalizing geological problems throughout the Yukon-Tanana terrane. But considering that there may be too little outcrop to document such structures on the Lucky Joe property, the issue is unresolved at present. Most minor folds plunge 15 to 20 degrees southeast (average ~ 150 azimuth). Pockets of bull quartz are sweated out along fold axes (Figure 10) and the abundance of similar quartz in float across the property suggests that small folds are common everywhere. Preserved graded layers in the Metaclastic unit indicate that most bedding in this unit is not overturned, but geological relationships suggest that property-scale structure is characterized by km-scale northwest trending upright to overturned syncline-anticline pairs. Small-scale thrust faulting is invoked in a few areas to explain the omission of stratigraphy, but there may be other structural solutions. Steep NW and NNE faults are suggested by the

aeromagnetic survey, but the demonstration that these are displacive structures would require a much greater detail of float-mapping.

4.0 MINERALIZATION AND ALTERATION

Sulfide mineralization consists of chalcopyrite-pyrite-pyrrhotite and trace molybdenite. Gold and silver are associated with chalcopyrite occurring as inclusions of electrum (53 wt% Ag, 47 wt% Au) (Figure 11). Surface exposures of sulfide are invariably oxidized and information concerning economic mineralogy is determined from core drilling and to a lesser extent from trenches. Copper mineralization occurs in rock that contains at least some biotite, commonly near to or just within the muscovite-quartz alteration assemblage. Magnetite forms a halo above and/or lateral to sulfide mineralization. Sulfides commonly follow pre-existing foliation, but post-fabric quartz-sulfide veinlets with sharp boundaries are at least locally observed.

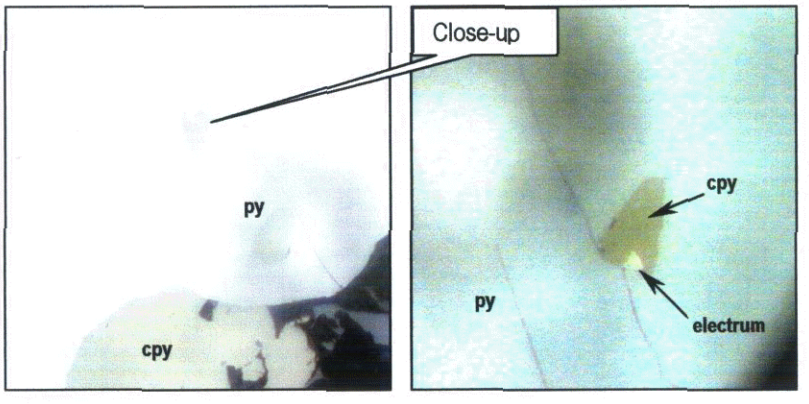


Figure 11. Photomicrograph of a polished plug from core hole RIO75-5 634' showing a 2 micron inclusion of electrum within chalcopyrite.

There are two principal belts and several smaller zones of magnetite alteration (Figure 12). In general this alteration type occurs locally to regionally in the hangingwall of muscovite-quartz alteration and roughly tracks the Amphibolite unit. However many of the strongest magnetite occurrences are within the Laminar-foliated unit. This may be a consequence of host rock mineralogy, as magnetite dominantly occurs with feldspar. The important observation is that magnetite occurs to at least a minor extent in every unit, indicating that it is not a metamorphic product after hematite in a particular sedimentary horizon. Magnetite content can be several percent, and the size ranges from very fine to coarse grains up to 1 cm long. Surface magnetite occurrences do not everywhere correspond on a one-to-one basis with airborne magnetic anomalies. In terms of the aeromagnetics it seems that alteration-derived magnetite is not always as important as is magnetite intrinsic to thicker sections of the Amphibolite unit. The exact paragenesis of magnetite has not yet been established. Magnetite rims on sulfide grains and sulfide replacing magnetite have both been reported from core. In some cases magnetite grains or octahedrons are possibly flattened along foliation planes, yet they also can appear to have grown across foliation or otherwise be undeformed. Magnetite occurs locally with epidote in late veins that possibly crosscut foliation. Epidote may also replace fracture-controlled magnetite. There are patches of magnetite in the Western-class intrusions, which can be partially to wholly altered to hematite. This is suggested to be hydrothermal and not supergene hematite, since magnetite in other units is typically fresh in surface samples. Major garnet

occurrences are accompanied by magnetite and locally the garnets are magnetic. This relationship suggests that magnetite alteration formed contemporaneously with, or grew as inclusions in pre-existing iron-rich garnet.

Although minor brown-red garnets are interpreted to be widely distributed and probably of metamorphic origin, the largest and most concentrated (10% or more garnet) occurrences are near the base of the magnetite zone and above the muscovite-quartz zone. The Laminar-foliated and Amphibolite units are the best host, but garnets can occur in the Metaclastic unit and Eastern-class meta-intrusions as well. Petrographic work shows quartz and biotite replacement of garnet at main Lucky Joe.

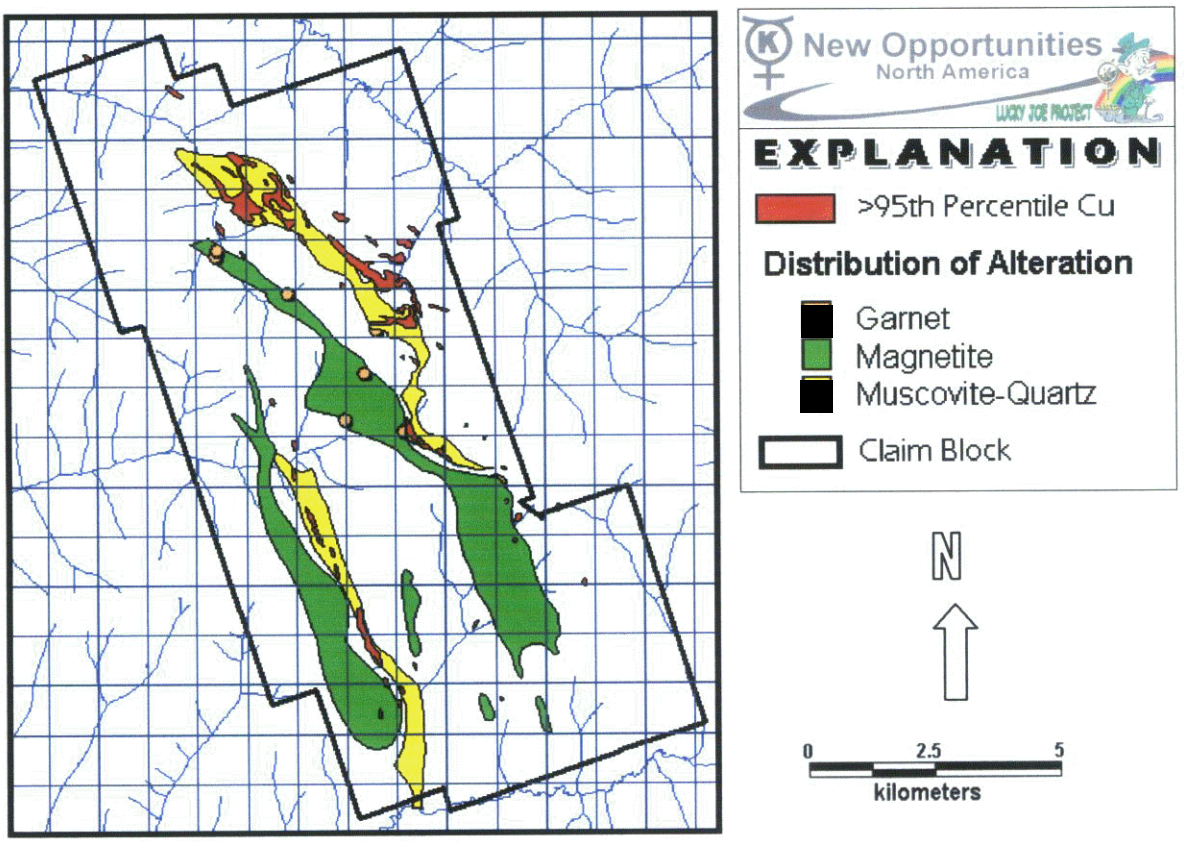


Figure 12. Map showing the distribution of major alteration zones at Lucky Joe relative to the distribution of Cu in soils.

Muscovite-quartz is the most recognizable form of alteration on the property. The term muscovite is used here to include muscovite, sericite after feldspar, and other white phyllosilicates as alteration products of other original minerals. Muscovite-quartz alteration is probably magnetite-destructive, since this mineral rarely if ever occurs with this alteration suite. This alteration is characterized by interlayered coarse-grained lustrous to splendent or pearly white mica and gray quartz, either as original rods or eyes or as introduced silica (Figure 13). Petrographic work supports the presence of paragenetically late

fine-grained patchy quartz. Muscovite-quartz alteration is not confined to a single unit and occurs in two multi-km northwest-trending belts on the property. Muscovite can replace any silicate mineral except quartz and epidote, and strong muscovite alteration is imprinted upon a small plug of the Western-class intrusive suite at Papa Bear. A common manifestation of weaker or more distal muscovite-quartz alteration is the sericitization and clouding of feldspar grains. The nature of muscovite-quartz alteration is characterized by comparing the composition of unaltered and muscovite-quartz altered Eastern-class intrusions. In general, with alteration K_2O shows an increase relative to TiO_2. In contrast, CaO decreases significantly. Quartz content however does not show a marked change; this suggests that quartz is redistributed but not added during alteration.

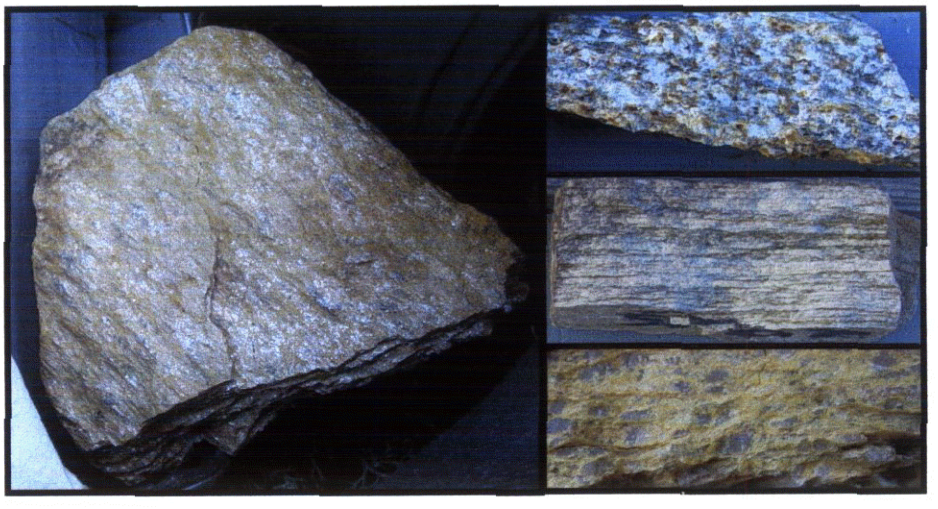


Figure 13. Examples of classic muscovite-quartz altered rocks. The group of photos on the right consists of altered Metaclastic unit (top), laminar-foliated unit (middle), and Eastern class meta-intrusion (bottom).

Bleaching always accompanies muscovite-quartz alteration. If this represents decarbonation, it raises the possibility that the graphitic rocks described by core loggers in the hangingwall and footwall to mineralization at main Lucky Joe represents carbon that was remobilized during alteration.

Chlorite alteration of biotite and hornblende and epidote alteration of feldspar or other minerals is fairly widespread. In some cases this could be ascribed to non-hydrothermal alteration of chemically permissive rock types. Chlorite-epidote alteration shows few unequivocal patterns on the Lucky Joe property, but is convincingly concentrated in and around the Western-class intrusion at Papa Bear and chlorite alteration is commonly developed after biotite in other Western-class intrusions. At Papa Bear, chloritized biotite and late quartz-epidote-chlorite veinlets and hematite alteration are locally observed in Eastern-class meta-intrusive rock that contains sulfides. Hematite alteration is also present in Metaclastic unit rocks in drill core from Papa Bear and observations from some of this core shows an alteration continuum from biotite to chlorite to muscovite. This observation is supported by surface evaluation and petrographic studies at main Lucky Joe.

Sodic alteration, presumably albitization, is probably widely developed in the Western-class meta-intrusions, based on Na_2O analyses of 4 to greater than

6%. Interestingly, the plagioclase in Western-class meta-intrusions commonly appears glassy and unaltered (Figure 14). This is particularly apparent in a sample from Papa Bear that contains 6.42% Na_2O and only 0.46% K_2O. The implications are that sodic alteration is associated with fluids of higher pH, as opposed to more acidic feldspar-destructive alteration in the muscovite-quartz assemblage. One consideration is that the Western-class intrusions are a fractionated phase of the Eastern-class.



Figure 14. Hand specimen of Western Class meta-intrusive that is composed of glassy plagioclase and quartz. The largest plagioclase crystals are about 3 mm.

Skarn and calc-silicate alteration occurs in several locales. Undoubtedly, such alteration is more widespread than can be appreciated from the limited rock exposures. Skarn forms after carbonate, amphibolite, and possibly other rock types. Skarn and calc-silicate occurrences occur along the margins of the Eastern-class and Western-class intrusions. Regardless of the underlying protolith, skarns are dense and dark, exhibiting high Fe and low SiO_2 concentrations and sulfides are minor to absent. The mineral assemblages consist of garnet, epidote, diopside, tremolite or other amphiboles, and possibly rhodonite or rhodochrosite. Magnetite content ranges from none to abundant, and elevated Bi, Cu, Mo, and Te are variably associated. Skarns possibly became more enriched with Zn and Pb as the hydrothermal system evolved.

Previous workers have ascribed a syngenetic or diagenetic origin to mineralization at Lucky Joe, i.e. a sedimentary Cu deposit. This was based primarily on observations from the main Lucky Joe drilling where Cu mineralization appears to be largely tabular and stratabound within a metasedimentary unit. Sulfide mineralogy is relatively simple and sulfides appear deformed parallel to foliation and are widespread and disseminated with obvious hydrothermal channelways lacking. The presence of magnetite in the immediate hangingwall to Cu mineralization was thought to be another indication that sulfides were deposited at the interface between oxidized and reduced sediments.

New observations and data strongly argue against a sedimentary Cu model. Some of the previous observations listed above while true, represent

only part of the total picture. Sulfides and alteration do not faithfully follow metamorphic fabric. Evidence of this from core and surface observations include chalcopyrite and pyrite along fractures, cubic pyrite growing across foliation, quartz veins with chalcopyrite and pyrite filling open space at main Lucky Joe; muscovite-quartz alteration fronts and sulfide-quartz-epidote-chlorite veinlets discordant with foliation, quartz-muscovite alteration adjacent to aplite, increased K-spar and epidote adjacent to fractures and quartz veins at Papa Bear; and a crosscutting quartz vein with garnet and pyrite selvages, and an aplite with pyrite selvages at Bear Cub. Also, the presence of a Cu-Au-Ag-Mo association is incompatible with a standard sedimentary Cu model. Alteration and mineralization transgress all rock types with occurrences within both meta-intrusive suites. Some relevant observations that may aid in understanding the nature of the mineralization and alteration at Lucky Joe are:

- Sulfides commonly replace biotite. Biotite abundance at the time of sulfide mineralization may be important, and if so, the relative proportions of primary vs. hydrothermal biotite becomes a subject of interest.

- The reported oxide-sulfide assemblage is magnetite→ chalcopyrite/pyrite/pyrrhotite→pyrite/pyrrhotite. The magnetite zone is considered to be the top or margin.

- With the exception of part of the Papa Bear area, soil Cu anomalies track mapped muscovite-quartz alteration. This is not to say that significant chalcopyrite occurs in muscovite-quartz altered rocks, but at least in association with them. Even at Papa Bear, the occurrence of minor layers of muscovite-quartz alteration well east of the mapped alteration zone suggests that such alteration may exist at depth beneath Cu anomalies developed over the biotite-bearing Eastern-class meta-intrusive suite.

- Muscovite-quartz alteration is a magnetite-destructive potassic event that overprints most, if not all other types of alteration: chloritic alteration commonly forms a transitional alteration assemblage between biotite and muscovite-quartz alteration; quartz and biotite replace garnet, and by inference, muscovite-quartz alteration should be later than garnet; muscovite replaces K-spar and plagioclase.

- Muscovite-quartz alteration cuts across most geologic units and does not perfectly track the Eastern- or Western-class intrusive suites.

- Based on the inference of magnetite inclusions in garnet, magnetite is either coeval with or later than garnet. Magnetite occurs in the Western-class intrusive suite and considering that this suite is Fe-depleted; the magnetite might be later rather than coeval.

- Magnetite is reported to replace and be replaced by pyrite.

- Magnetite alteration commonly is associated with units that are low in K_2O and elevated in Na_2O. This suggests that magnetite is not part of a potassic alteration assemblage. This does not refute the possibility that another generation and affiliation of magnetite might exist.

- Chalcopyrite replaces pyrite and pyrrhotite.

- Hydrothermal (?) hematite forms pseudomorphs after magnetite.

- Chlorite-epidote alteration is stable with magnetite, but hematite can also occur with this alteration suite.

- Alteration and mineralization commonly follow preexisting foliation, but there are numerous minor examples indicating that various types of alteration and sulfide-quartz mineralization are also later than foliation.

- Certain elements, including Bi, Cu, and Te, provide a geochemical link between skarns, a carbonate-hosted Zn-Pb occurrence, and Cu-Au mineralization. However, Cu abundance in skarns is one to two orders of magnitude less than that of the Cu-Au zones, and skarns and calc-silicated zones generally occur at the margins of meta-intrusions.

- Western-class intrusions are strongly depleted in most elements.

- The Western-class intrusions are at least partly younger than the Eastern-class intrusions. Aplites are co-magmatic with or younger than Eastern-class intrusions and are associated with some of the sulfide mineralization.

- Sulfide-sulfur isotopes are generally in the range of +2 to +4 per mil. These values are compatible with igneous sulfur contaminated by crustal hydrothermal rock sulfur.

Based upon these observations, a very general paragenesis is shown in figure 15. The Eastern-class intrusions represent the initial significant event. Exoskarn mapped along the contact of Eastern-class intrusions would be empirically linked to intrusion. The Western-class intrusive suite is younger, at least in part, and could represent a volumetrically subordinate fractionated phase of the Eastern-class batholithic scale event. A genetic association between the Eastern- and Western-class intrusions is intuitively satisfying, because of the close spatial and locally ambiguous relationship between these suites. However, weaker fabric development in the Western-class intrusions suggests that fractionation may have post-dated the culmination of a metamorphic episode, and thus a change from ductile to brittle deformation and development of permissive structural (steep fault) architecture. Skarn could have formed at any time during intrusion, fractionation, and hydrothermal activity. This might explain the wide range of Cu, Zn, and Pb content from occurrence to occurrence. Garnet

and magnetite alteration are evidence of iron oxide and silicate alteration of permissive lithotypes and could represent early manifestations of mass transfer of metals from the (now depleted) Western-class intrusions into overlying and adjacent rocks. Biotite and K-spar alteration is partly conceptual; in that the extent and importance is unknown, but it remains possible that subsequent muscovite-quartz alteration coincides with and overprints a former biotite and K-spar rich zone. The timing of propylitic alteration is especially problematic, but the hematization of magnetite, and chlorite and/or epidote in and around highly fractionated Western-class intrusions provides limited constraints. Because of the observed close association of sulfides with biotite, the inception of significant *sulfide deposition is correlated with potassic alteration. If subsequent work* shows biotite-K spar alteration to be a non-event, the timing of sulfides would coincide with the overprinting of muscovite-quartz alteration upon (primary) biotite-rich metamorphic rocks.

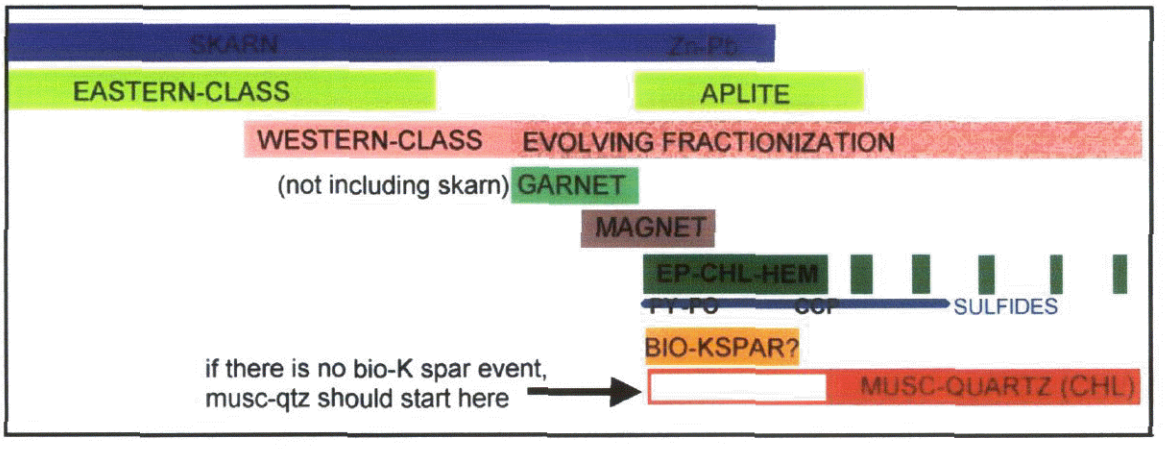


Figure 15. Possible paragenesis of alteration and mineralization.

Aplites are known to be associated with the Eastern-class intrusions, and are reported from core at Papa Bear and Bear Cub. Aplites at Bear Cub could be *related to the Western-class intrusions. Aplite injection could be a measure of* cooling of intrusions and release of volatiles, along with contained metals.

The inception of quartz-muscovite alteration is unconstrained, but this alteration is inferred to also post-date other major episodes of alteration, except possibly minor propylitization. Although muscovite-quartz alteration is destructive, it was not necessarily the highest temperature; instead it may have involved fluids of lower pH. Muscovite-quartz alteration forms partly offset linear belts that might mimic structural trends that were active during mineralization. The occurrence of post-brecciation muscovite at main Lucky Joe suggests that fault movements were occurring during part of this alteration stage. The suggested strike of mineralized trends might be 300° to 330° with northeast offsets, although there is a strong risk that these trends were inherited during subsequent deformation and thrust faulting.

The presence of at least three intrusive phases (Eastern- and Western-class; aplites), combined with multiple types of alteration assemblages that transgress several rock types, two or more generations of sulfide ± quartz (early foliation-parallel and later cross-cutting), and a Cu-Au-Ag-Mo elemental association tend to point more toward a high temperature geologic model for mineralization. Indeed the limited sulfur isotope work by the GSC with values in the magmatic range lends further support to this concept. The Lucky Joe system is now envisioned to be either a Cu-Au porphyry system (alkalic?) or a variant of the IOCG model.

5.0 GEOCHEMISTRY

Geochemical sampling comprised the bulk of the 2003 program with a focus on soil sampling to determine the size and magnitude of the copper-gold bearing hydrothermal system. Whole rock geochemistry samples were collected to help determine and differentiate lithologies, the results of which are summarized above under Geology and described fully in Appendix D and Appendix H. The whole rock samples plus additional rock samples, mostly from the trenches and test pits, were submitted for multi element trace level analysis.

Geochemical sample analysis was executed by ALS Chemex Labs Ltd. of North Vancouver, B.C. All 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 sample, preparation and analytical procedures is attached as Appendix B.

Data for all the samples were noted on standardized sample cards. All sample locations were marked with surveyors tape and metal tags). Hand-held GPS receivers (Garmin 12XL's) were used to plot locations of samples and outcrops (approximate +/- 5m accuracy). The sample location, description and analytical results were entered and linked in a MS Access database and displayed for interpretation in MAPINFO, a GIS program.

5.1 Soil Geochemistry

A total of 1338 soil samples were collected in 2003 from, or very close to, the Lucky Joe Property. Sample descriptions, analytical results, data on duplicate samples and geochemical statistics are presented in Appendix A, F and G . Soil sample numbers and locations are shown on figure 16 (in pocket).

The 2003 reconnaissance soil traverses with nominal sample spacing of 200m, were completed on ridges and spurs. The widespread lines were designed to locate large, km scale, coherent anomalies in an effort to delineate a hydrothermal system(s) capable of hosting a significant size copper-gold deposit(s). Following the reconnaissance sampling anomalies were refined by gridding at 100 m sample spacing and 200 m line spacing.

Descriptive statistics for soil samples (in Appendix G) were calculated using Microsoft Excel software. Thresholds used in determining anomalies were the 90th and 95th percentile value of all samples collected within the Lucky Joe Joint Venture area area.

The sampling medium consisted predominantly of soliflucted and reworked colluvium, talus fines and poorly developed 'B' horizon material. Some samples collected in or near valley bottoms may consist of alluvial material.

Permafrost was a hindrance, especially on north and west facing slopes. All samples were collected by hand or powered soil augers and sample depth averaged approximately 40 cm.

5.1.1 Soil Geochemistry Results

Reconnaissance soil geochem combined with previous grid sampling show two main Cu-Au trends at Lucky Joe (Figures 17 below; Figures 18 and 19, in pocket). Both are long NNW trending zones that are anomalous in Cu, Au, Mo, Ag, Zn, Pb, ±Te, and ± U. The easternmost zone, referred to as the Three Bears Trend, encompasses all of RioCanex's grids established in the 1970's. Reconnaissance sampling suggested that the zone extends both north and south from these grids with an apparent strike length of approximately 11.3 km. Sparse sampling along the far southeastern boundary of the Lucky Joe claim block also suggested that the zone might extend several kilometers further south possibly into Rosebute Creek. The Westernmost trend, referred to as the Ryan Pit Trend, closely follows one of the tributaries to Rosebute Creek (known unofficially as Ryan Creek) and extends northward across Lucky Joe Creek. Reconnaissance and previous grid sampling suggests a strike length 7.2 km. Overall this zone appears to be much higher in Au than the Three Bears Trend.

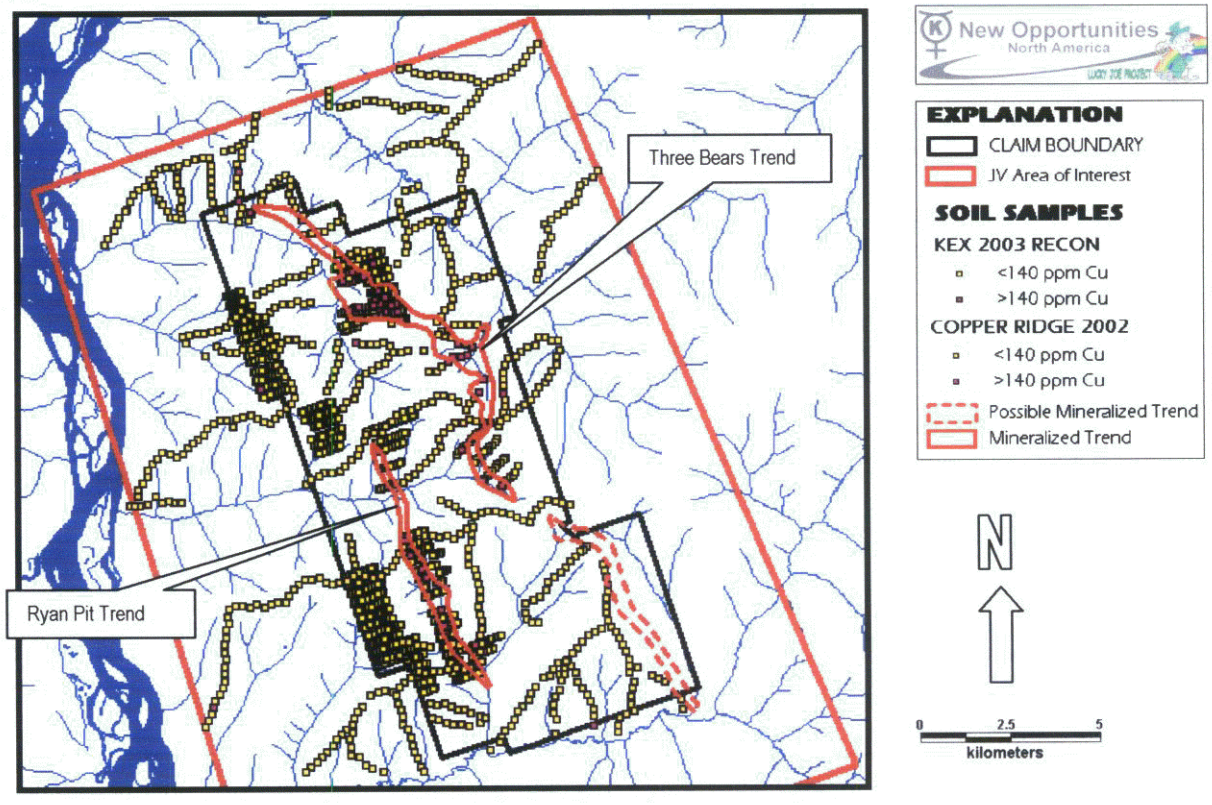


Figure 17. Map showing the two anomalous Cu-Au trends based on results of reconnaissance sampling in 2003 and scattered grid sampling in 2002.

Grid sampling was implemented along most of the Three Bears and Ryan Pit Trends. This focused sampling has outlined three discrete anomalies along the Three Bears Trend, all of which were previously known, but the new sampling

has far better defined two of the three. These anomalies are the Papa Bear, Bear Cub, and Lucky Joe (Figure 20).

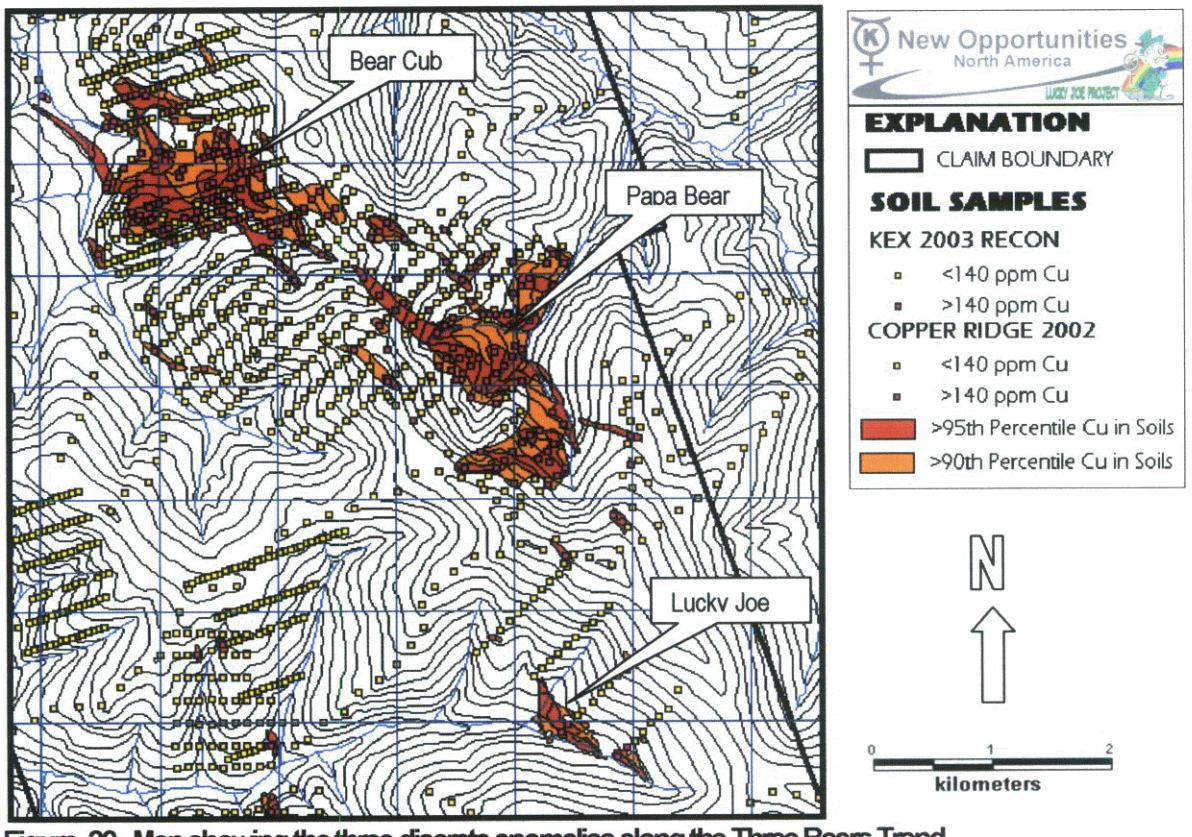


Figure 20. Map showing the three discrete anomalies along the Three Bears Trend.

The Papa Bear anomaly is located 2.3 km north-northwest of the main Lucky Joe showing and lies within RioCanex's grid II. The new gridding shows that the anomalous Cu-Au-Ag-Mo zone extends for 2600 m along a linear northwest trending zone upslope from all three of RioCanex's drill holes. At least two smaller discontinuous parallel linear anomalies occur to the northeast, one of which was likely intersected in two of RioCanex's holes (21 m of 0.13% Cu and 12 m of 0.16% Cu). Solifluction has occurred locally along all of these anomalous trends giving the appearance of much wider zones. This coupled with poor sampling techniques, primarily collecting non-B or -C horizon soils within permafrost zones, lead to improper placement of drill holes by RioCanex. All of the Papa Bear anomalies fall short of merging with those along strike at Bear Cub but this does not rule out the possibility that the zones could be connected in the subsurface. The main Papa Bear anomaly is coincident with a major NW trending aeromagnetic linear and it appears that it may terminate along a line coincident with a similar NE trending linear (Figure 21).

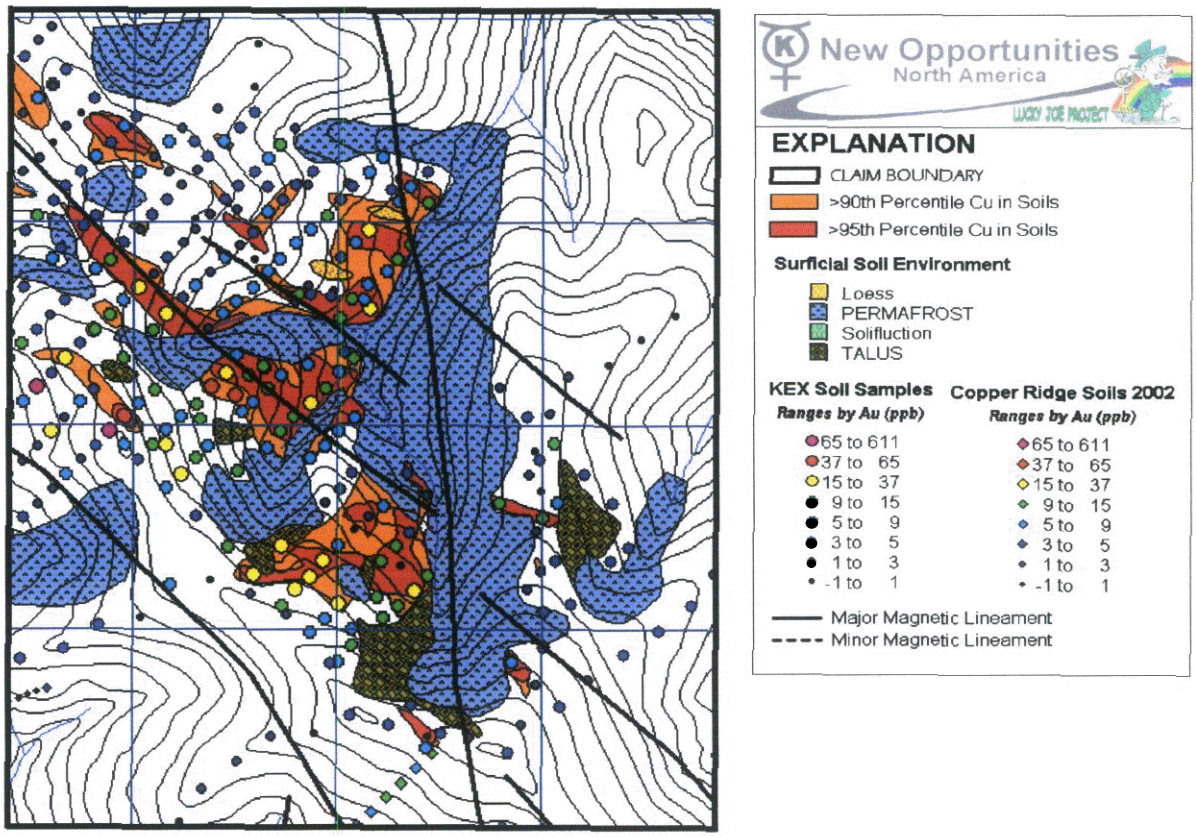


Figure 21 Map of the Papa Bear grid showing Cu-Au soil anomalies, magnetic lineaments, and surficial soil environments.

The Bear Cub anomaly occurs along the same NW trending aeromagnetic linear as the Papa Bear anomaly but it extends off of the linear trend by nearly 1200 m to the southwest. Since the width of the anomaly spans an area of little topographic relief, it is highly unlikely that there has been significant mechanical or hydromorphic dispersion of metals in the soils. The width of the anomaly here suggests that there is a significant component of lithologic control to the mineralization and that the mineralization may be gently dipping. The northwest strike extension of the zone, if present would underlie permafrost (Figure 22). Potential for a gentle down-dip southwest extension is probable but this too would underlie permafrost along the stream valley and the lower slopes along the opposite side of the valley.

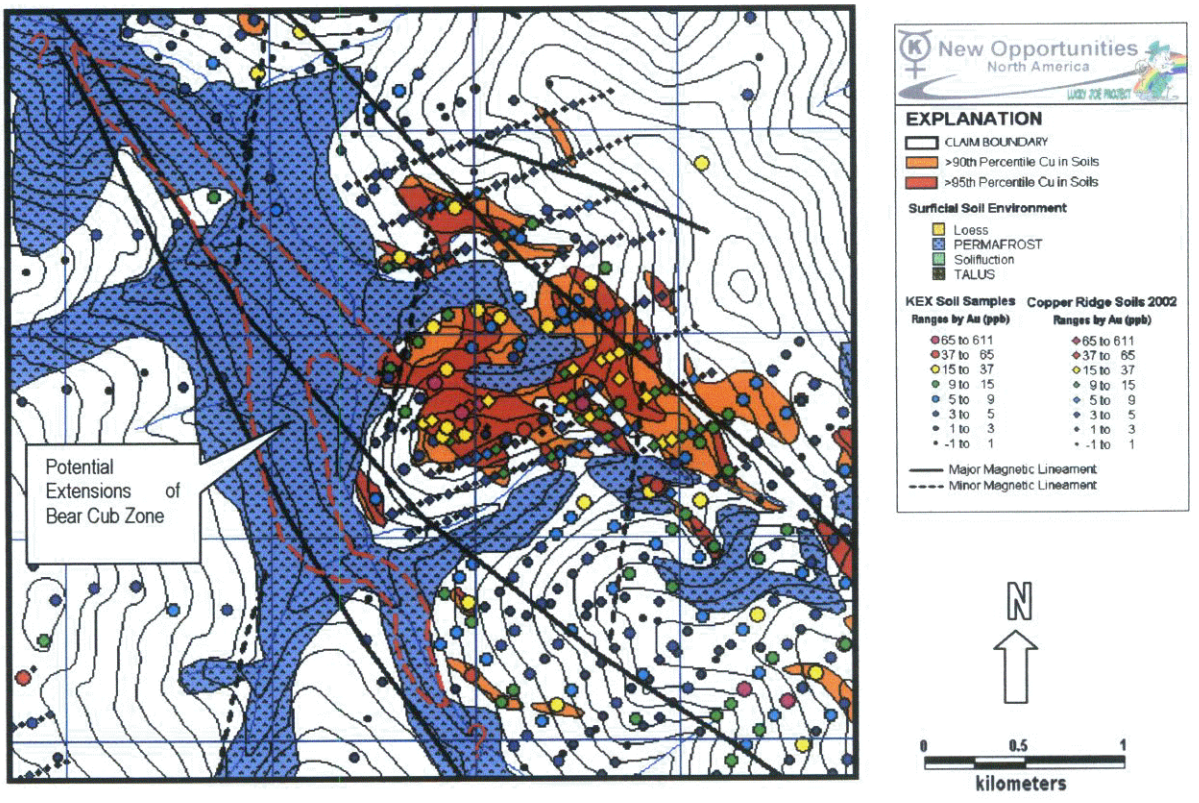


Figure 22. Map of the Bear Cub grid showing Cu-Au soil anomalies, magnetic lineaments, and surficial soil environments.

The Echo grid was designed to define the northwestern extent of the Bear Cub zone. Reconnaissance sampling suggested that the zone possibly extended northward for up to 3.5 km. The grid averaged 1 km wide and extended 3.2 km north of the Bear Cub grid. Permafrost hampered sample collection on portions of the grid but overall coverage was very good. Only small sporadic Cu-Au-Ag-Mo anomalies were encountered (Figure 23). These occur as elongate NW trending zones that mimic those to the NE of the main Papa Bear zone. The presence of anomalous Pb-Zn flanking these zones suggests that perhaps the main Bear Cub zone is still present under permafrost down in the valley below.

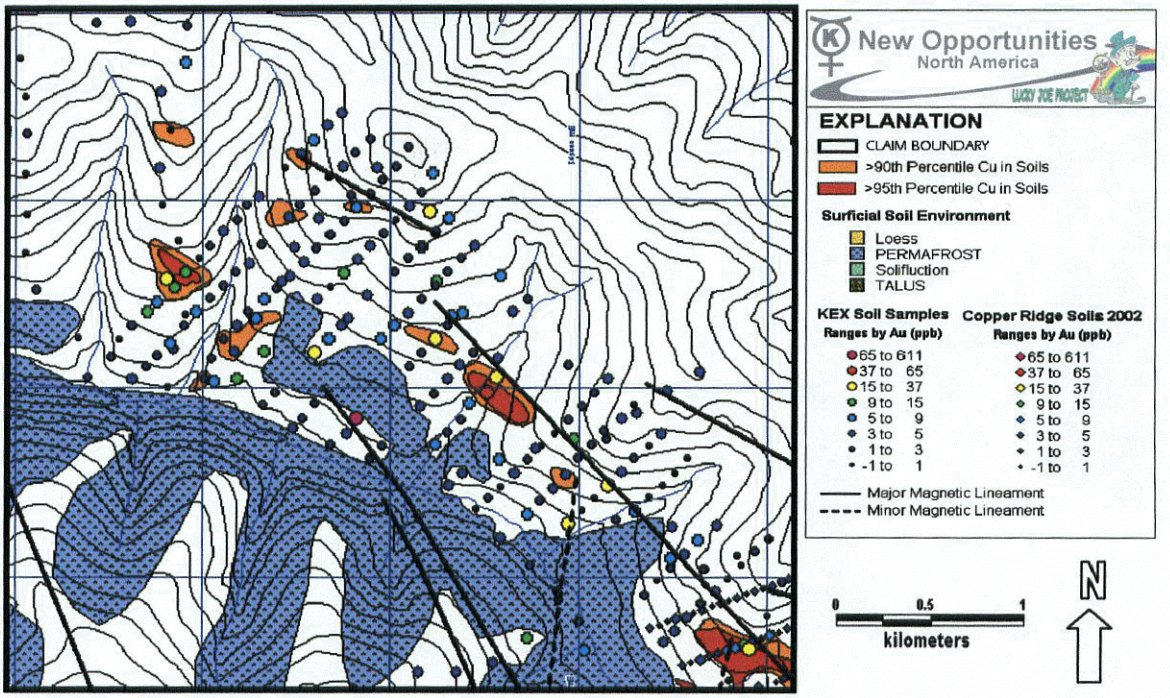


Figure 23. Map of the Echo grid showing Cu-Au soil anomalies, magnetic lineaments, and surficial soil environments.

The South Bear grid is located immediately south of the Bear Cub Grid. This grid was designed to cover another potential parallel anomalous trend extending southeast from the Bear Cub anomaly. A pair of anomalous recon samples collected from this area in early June prompted the placement of the grid. These anomalous samples were encouraging because the overall sample quality in this area was low due to seasonal frost. A minimal number of samples within this grid could not be collected due to permafrost conditions, however overall sample quality for those that were collected was generally poor due to frozen ground. Only one narrow weak to moderate level Cu-Au anomaly is present along the southwestern side of the grid but this may be continuous with a similar anomaly at Papa Bear (Figure 24). Three samples highly anomalous in Au (ranging from 83-235 ppb) along the south-central portion of the grid are in crude alignment with this anomaly and the Papa Bear anomaly suggesting continuity of the zone. Permafrost within the valley bottom may also mask the potential down-dip extension of the Bear Cub zone.

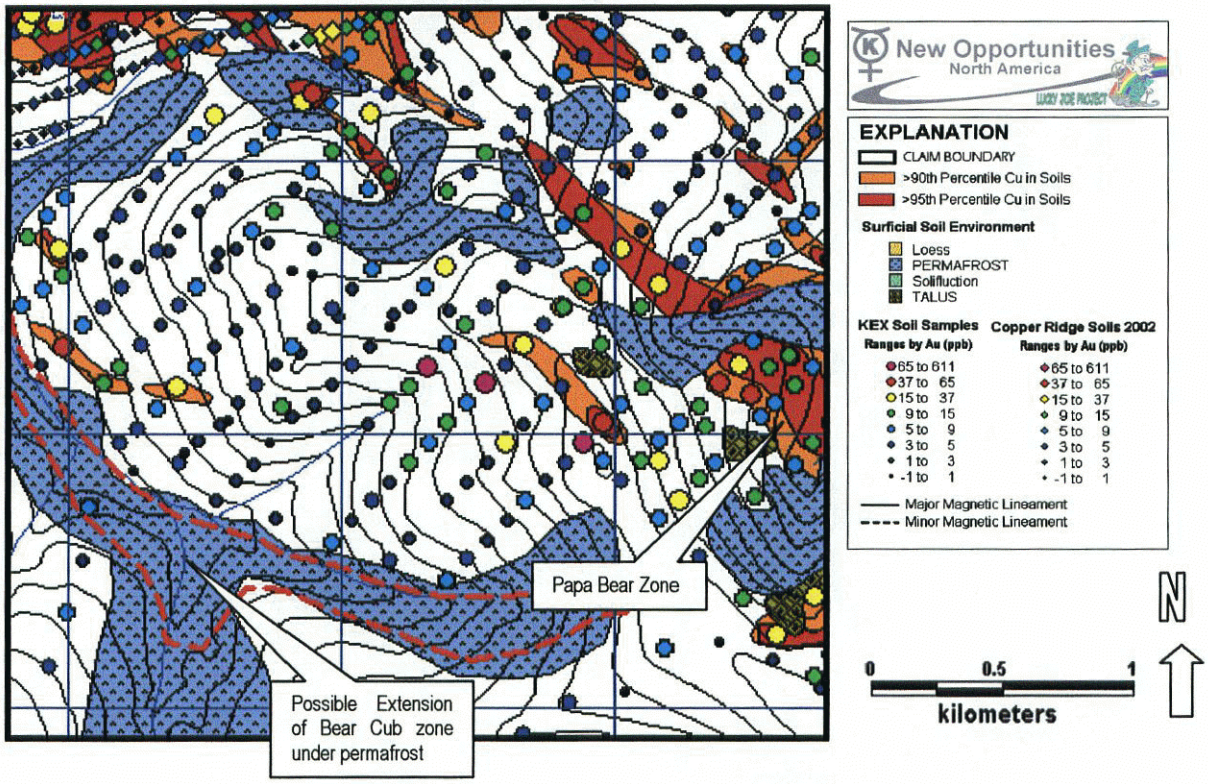


Figure 24. Map of the South Bear grid showing Cu-Au anomalies and surficial soil environments.

The LJ Grid is located along the north and south slopes of Lucky Joe Creek just over 2 km downstream from the main Lucky Joe prospect. The grid was designed to determine if isolated anomalous soils from last years sampling and one anomalous recon sample taken in June are continuous. Sample coverage was surprisingly good considering that half of the grid covers a north-facing slope. The grid eventually merged with the Ryan Pit grid to the south. This grid straddles Ryan Creek and extends for 2.8 km along the length of the drainage. The grid was designed to get more complete coverage on the isolated anomalies seen in the 2002 sampling. The Ryan Pit grid exhibited the most problematic sampling of the entire project area. Permafrost, loess, and soliflucted colluvium contributed to poor sample quality or no coverage throughout the grid. Sample coverage was fair on the northern end of the grid but very poor on the southern end. It was determined that many of the samples collected in 2002 were in thick loess, colluvium or permafrost and the geochem results are therefore not indicative of the underlying bedrock. In some cases this was true for entire lines.

Geochemical results along both grids show a long narrow discontinuous zone that stretches for nearly 6 km (Figure 25). Much of the discontinuity is due to poor sampling conditions, primarily permafrost but also slumping of material from upper to lower slopes has covered the zone locally. The mineralization

along this trend is likely structurally controlled but the extensive cover along mid-slopes on either side of the valley may mask other styles of mineralization.

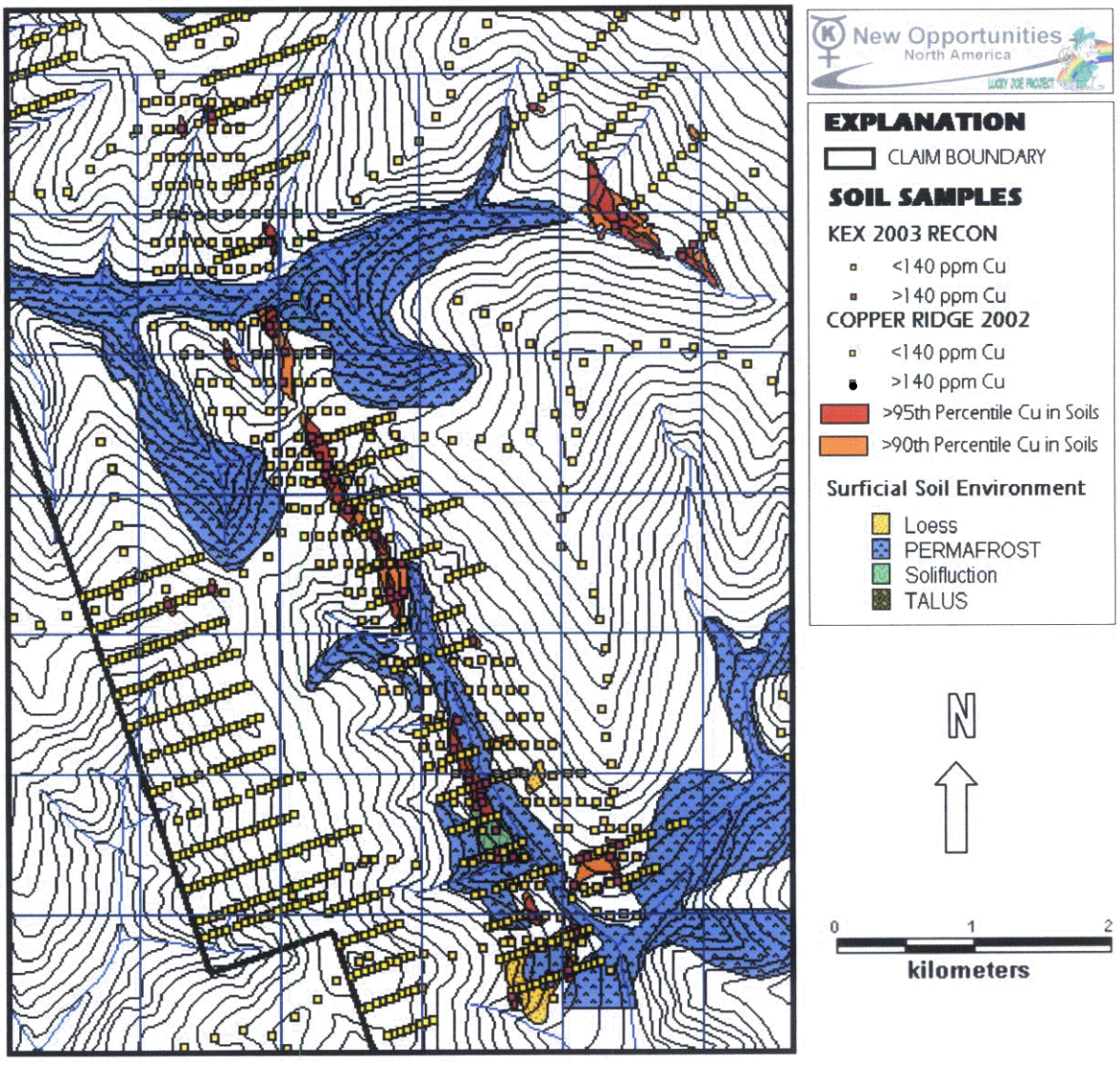


Figure 25. Map of the LJ and Ryan Pit grids showing Cu in soil anomalies along with surficial soil environments.

The Far South grid is located on the southeastern margin of the claim group. The purpose of the grid was to determine if the Three Bears Trend extended to the southeast toward Rosebute Creek as suggested by reconnaissance sampling. Coverage along the grid was generally rather poor primarily due to the presence of large blocky orthogneiss talus and extensive areas of permafrost. Geochem results show that there are no zones of mineralization extending through the grid (Figure 26).

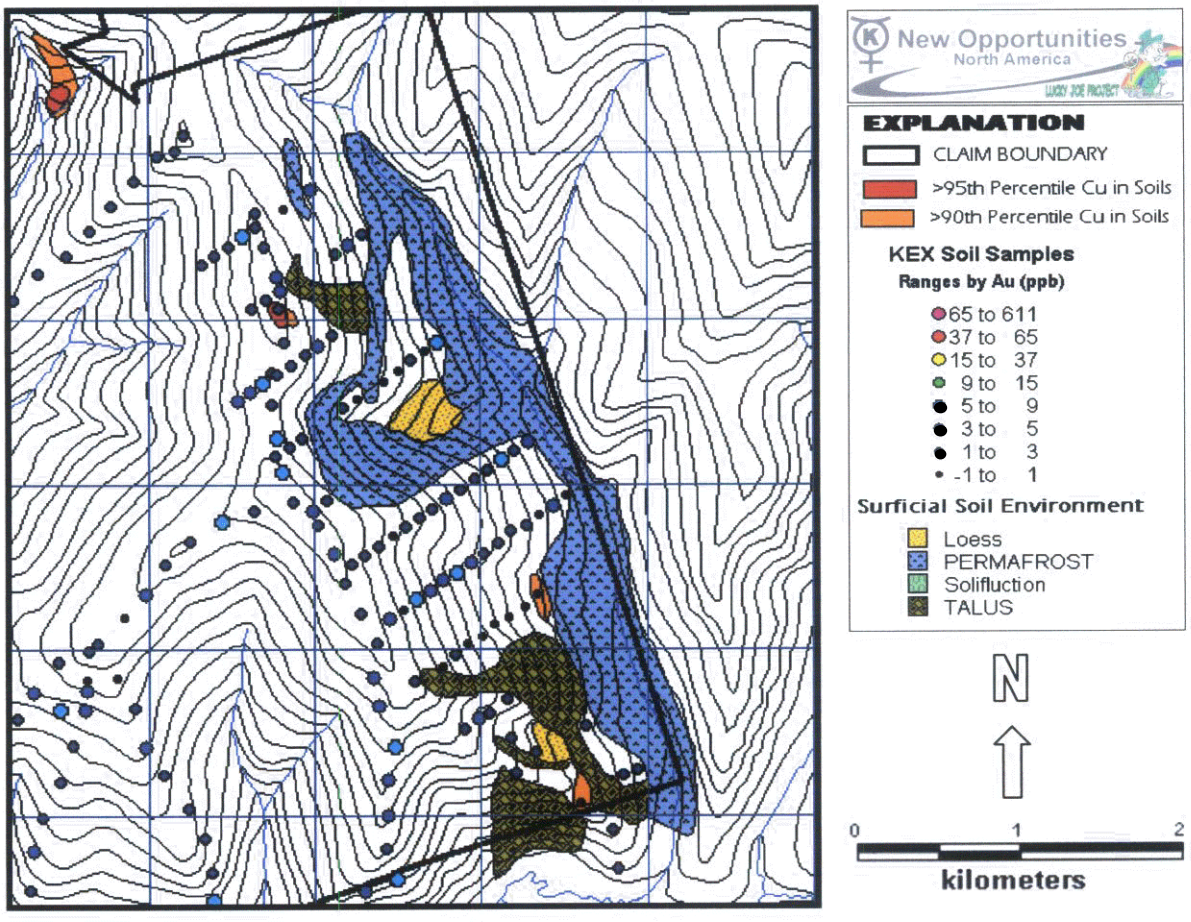


Figure 26. Map of Cu and Au in soil along with surficial soil environments for the Far South grid.

Coverage at Lucky Joe is complete enough to where a metal zoning pattern has emerged. The central portions of the mineralizing system are enriched in Cu-Au-Ag-Mo whereas the immediate fringe is enriched in Pb-Zn and the outlining fringe is enriched in Zn (Figure 27). Strong Na enrichment is coincident with Cu-Au-Mo anomalies at Bear Cub, Papa Bear, and Ryan Pit, and may define the hottest parts of the system (Figure 28). The Lucky Joe anomaly, when compared with others property wide seems rather insignificant. This was the only anomaly that was properly drill tested in the past. Total strike length of the system is a very impressive 21.5 km along the Three Bears Trend and 10.3 km along the Ryan Pit Trend. At it's widest point the system weighs in at just over 3 km in the vicinity of the Papa Bear grid.

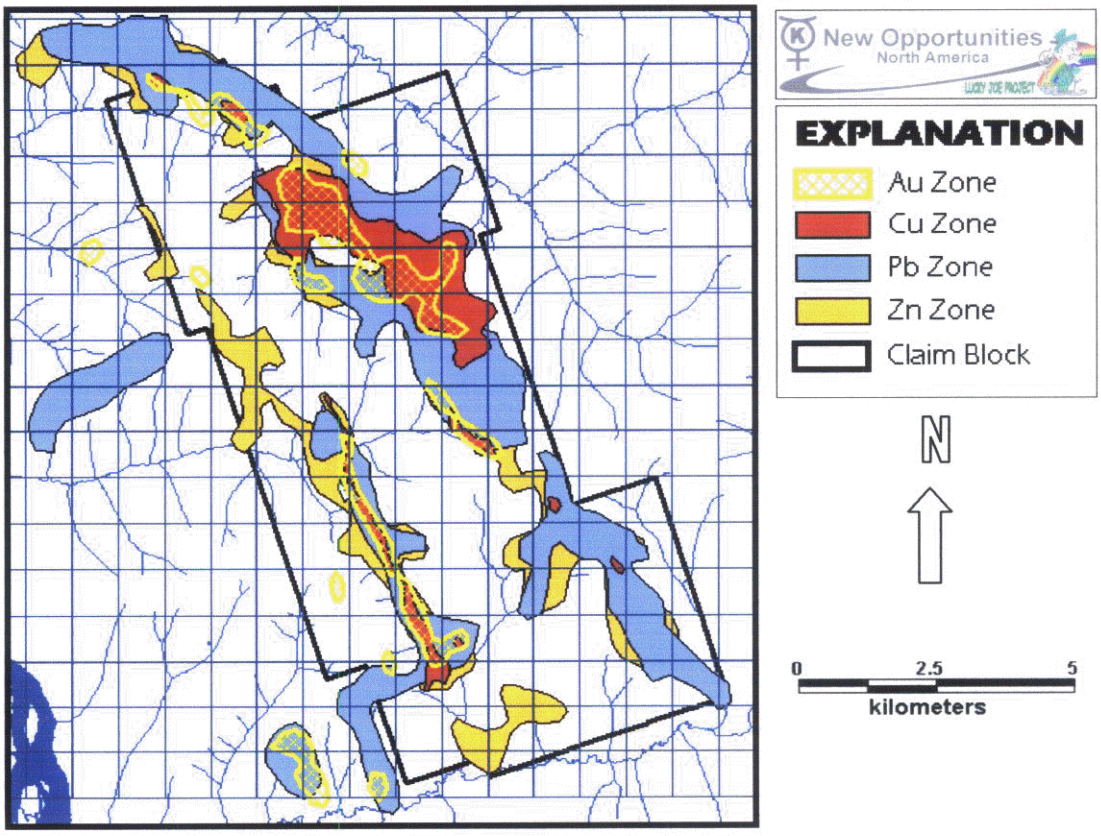


Figure 27. Map of metal Zonation in soils for the Lucky Joe property.

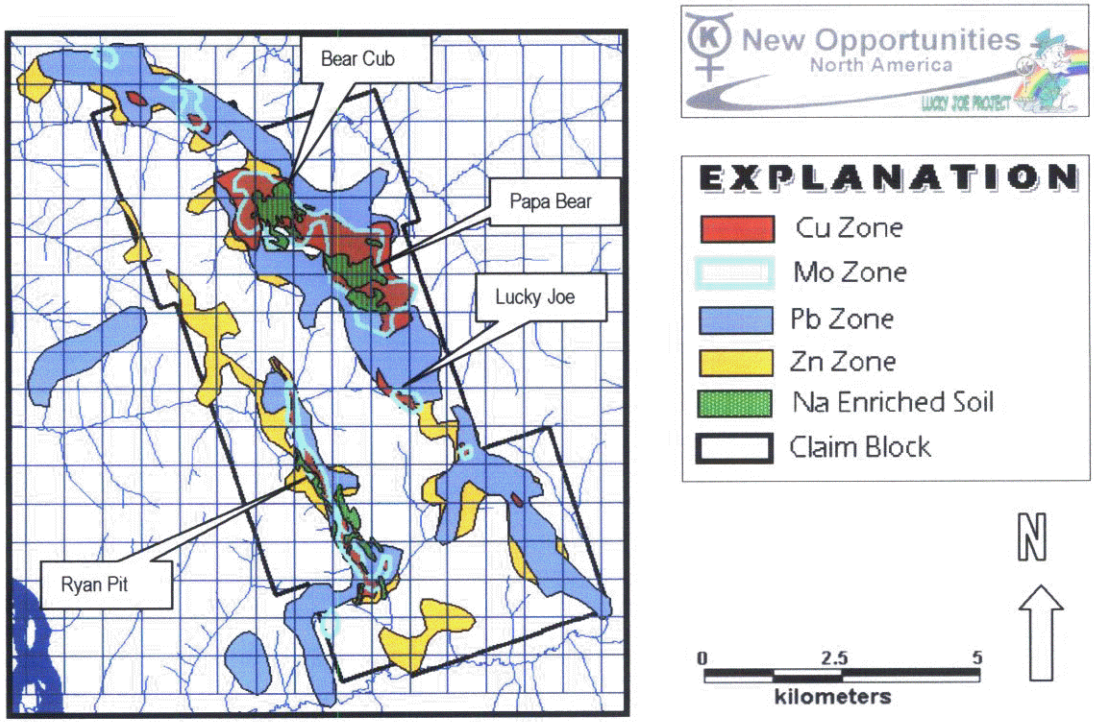


Figure 28. Map showing Na-enriched soils with respect to metal Zonation.

5.2 Rock Geochemistry

A total of 133 rock samples were collected in 2003, 93 of these were for whole rock geochemistry analysis to help determine and differentiate lithologies, the results of which are summarized above under Geology and described fully in Appendix C, D and H (Figure 29, in pocket) . The other 60 samples, plus the whole rock samples, were submitted for multi element trace level analysis.

The trace element analysis yielded eight samples that contained more than 100 ppb Au with a high value of 1615 ppb gold. This high gold value, which coincides with a high Cu value of 6760 ppm, is of select core from drill hole RIO76-1, footage 725'-731'. A rock sample (NA15935), probably float, from Pit 36 contained 536 ppb Au and 729 ppm Cu, the highest gold value from rock samples. The other selected drill core samples, seven in all, contained highly anomalous Au, Cu (within the top ten highest values) and the highest Mo value at 98.8 ppm.

Mineralized dolomite and skarn samples (NA13909, NA13949, NA13959) contained the highest Pb and Zn values at >1%. Gold and copper values for these same samples were low.

Arsenic values were generally low <20 ppm except for samples from Pit 10, 30 and Pit 36 where six samples contained between 30 ppm and 44 ppm As. These same six samples contained elevated gold values ranging from 31 ppb to 536 ppb Au and copper ranged from 133 ppm to 729 ppm Cu

5.3 Stream Geochemistry

A total of 15 stream sediment samples were collected in 2003 and are described in Appendix E (Figure 29, in pocket). Given the small sample population geochemical statistics were not caluculated for any of the elements analysed. Gold values range between 3 and 13 ppb with the high value coming from the Bear Cub area. Likewise the two highest copper values of 172 ppm and 111 ppm Cu are from the Bear Cub area.

The presence of excessive loess and organics in creek sediment, especially in creeks on north and west facing slopes, hindered sample collection.

6.0 TRENCHING

A total of 38 short trenches or test pits were excavated in and around anomalous soil sample sites at Papa Bear, Bear Cub, and Ryan Pit (Figure 30, next page). Rock and/or soil samples were collected from the majority of pits and analyzed for the standard suite of elements.

Nine trenches and pits were dug at Papa Bear along both the lower and upper slopes (Figure 31). Most trenches along the lower slope encountered deeply weathered decomposed schist to a depth of about 2.5 m. The only definite *in-situ* bedrock encountered in this area was unmineralized or weakly mineralized orthogneiss. This suggests that most if not all of the anomalous soils along the lower slopes in this area have been transported down slope. Trenches and pits dug along the upper slope encountered local gossanous schist that had only slightly elevated Cu and nil Au.

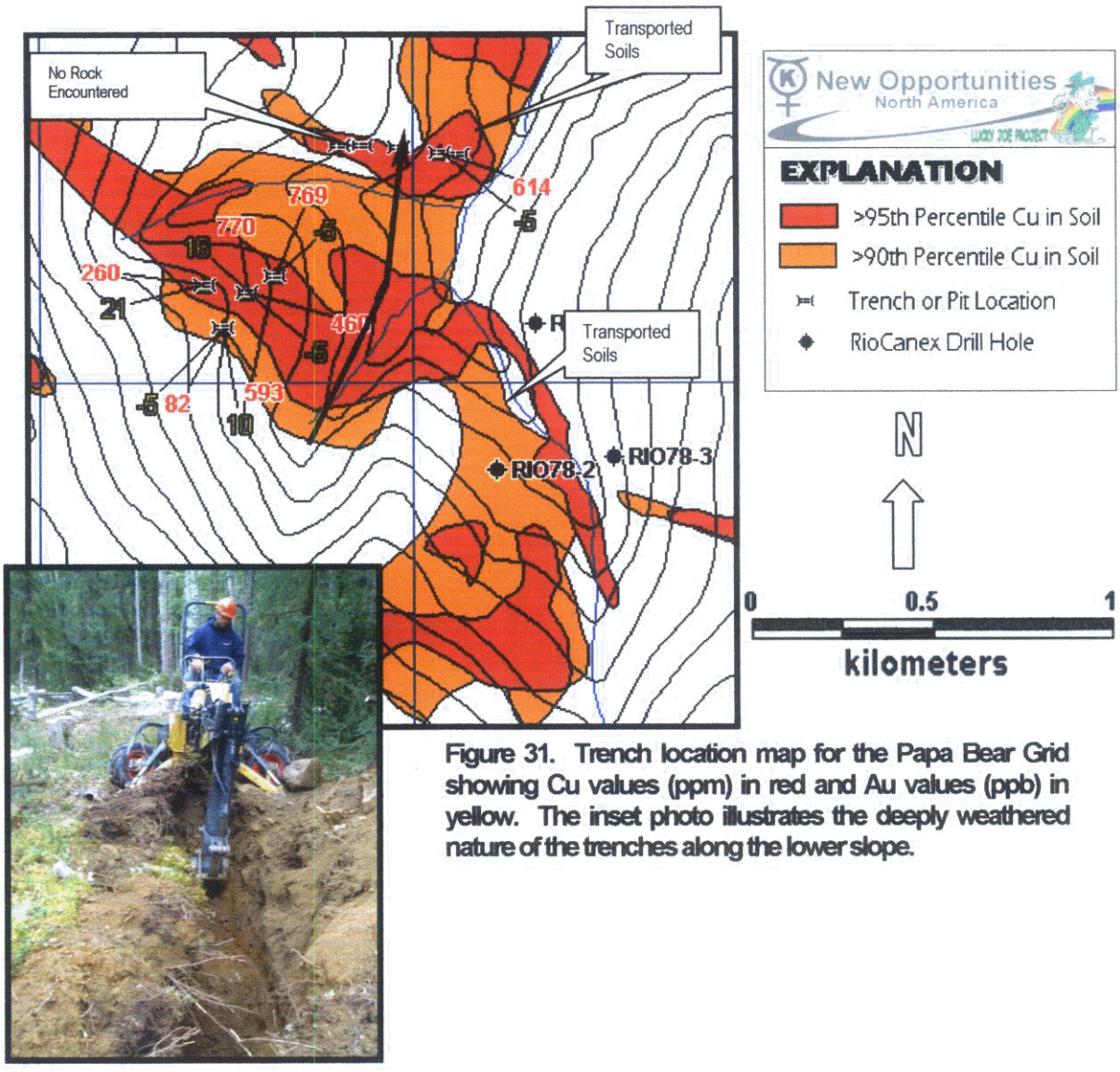


Figure 31. Trench location map for the Papa Bear Grid showing Cu values (ppm) in red and Au values (ppb) in yellow. The inset photo illustrates the deeply weathered nature of the trenches along the lower slope.

Bear Cub Anomaly

570000 mE

572000 mE

574000 mE

N

PT11 PT10 PT28F PT12 PT29F PT20 PT27 PT26 PT14 PT25 PT16 PT24 PT13 PT23 PT15 PT19 PT22 PT21 PT17 PT18

7055000 mN

PT3 PT2 PT4 PT1 PT5 PT9 PT6 PT7 PT8

7053000 mN

7051000 mN

PT31 PT32 PT30 PT35 PT33

7049000 mN

PT34 PT36

PT38

7047000 mN

PT37

Digger Pits Location

)=(Pit or Trench Number

Cu in soil +90%

+90 Cu in soil anomaly

KENNECOTT CANADA EXPLORATION INC.
VANCOUVER

LUCKY JOE PROPERTY

TRENCH LOCATIONS

YUKON TERRITORY, CANADA

Date: Nov. 15, 2003	Author: RH	2003 Trench Locations
File: Lucky Joe	Scale: 1:30,000	Figure: 30

A total of 20 short trenches or test pits were dug across the apparent strike of three parallel NW trending zones of anomalous soils at Bear Cub. The vast majority of the pits were dug in extremely weathered bedrock or regolith. *In-situ* bedrock encountered within the southwestern-most trench consisted of altered and Fe stained schist whose primary foliation dips gently to the southwest. It was not possible to determine the attitude of mineralization but given the flat foliation attitude and the width of the anomaly mineralization could be gently southwest dipping in this area. Leaching of metals appears to be extreme; results from 17 samples returned a high of 2280 ppm Cu, 303 ppb Au, and 11.9 ppm Ag (Figure 32). Aside from those values, the remaining values were similar in magnitude to the soils.

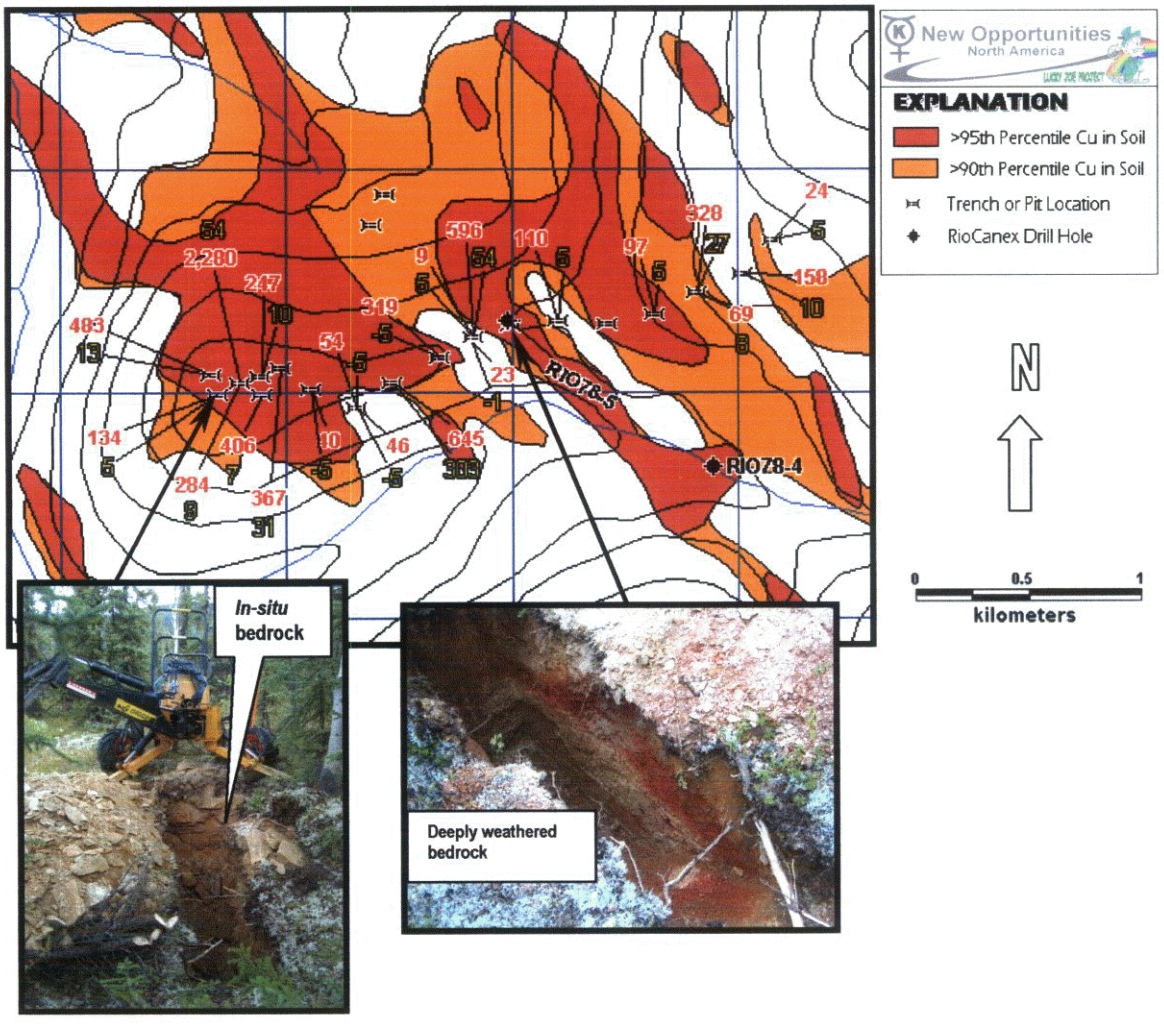


Figure 32 Trench location map for the Bear Cub Grid showing Cu values (ppm) in red and Au values (ppb) in yellow. The inset photos show *in-situ* bedrock from the western-most trench and the deeply weathered nature of bedrock in a typical trench across the Bear Cub zone.

A total of 9 trenches or pits were dug along the Ryan Pit Trend. Eight of these were dug across the apparent strike of the NW trending zone of anomalous soils along the ridge between Ryan Creek and Lucky Joe Creek (Figure 33). Results were largely disappointing in this area with a high of only 1570 ppm Cu, 536 ppb Au, 7.2 ppm Ag, and 26 ppm Mo. One of the short trenches cut across a shear zone with altered and mineralized schist on either side. A soil sample collected directly above the shear returned values of 1495 ppm Cu and 504 ppb Au but rock samples from the trench failed to return values above 881 ppm Cu and 82 ppb Au. Two short trenches were also dug to the south just above Ryan Creek but neither encountered *in-situ* bedrock and in fact it appears that the soil anomalies in this area are part of a solifluction lobe. Samples collected from the float encountered in the trenches returned a high of 805 ppm Cu and 37 ppb Au (Figure 34).

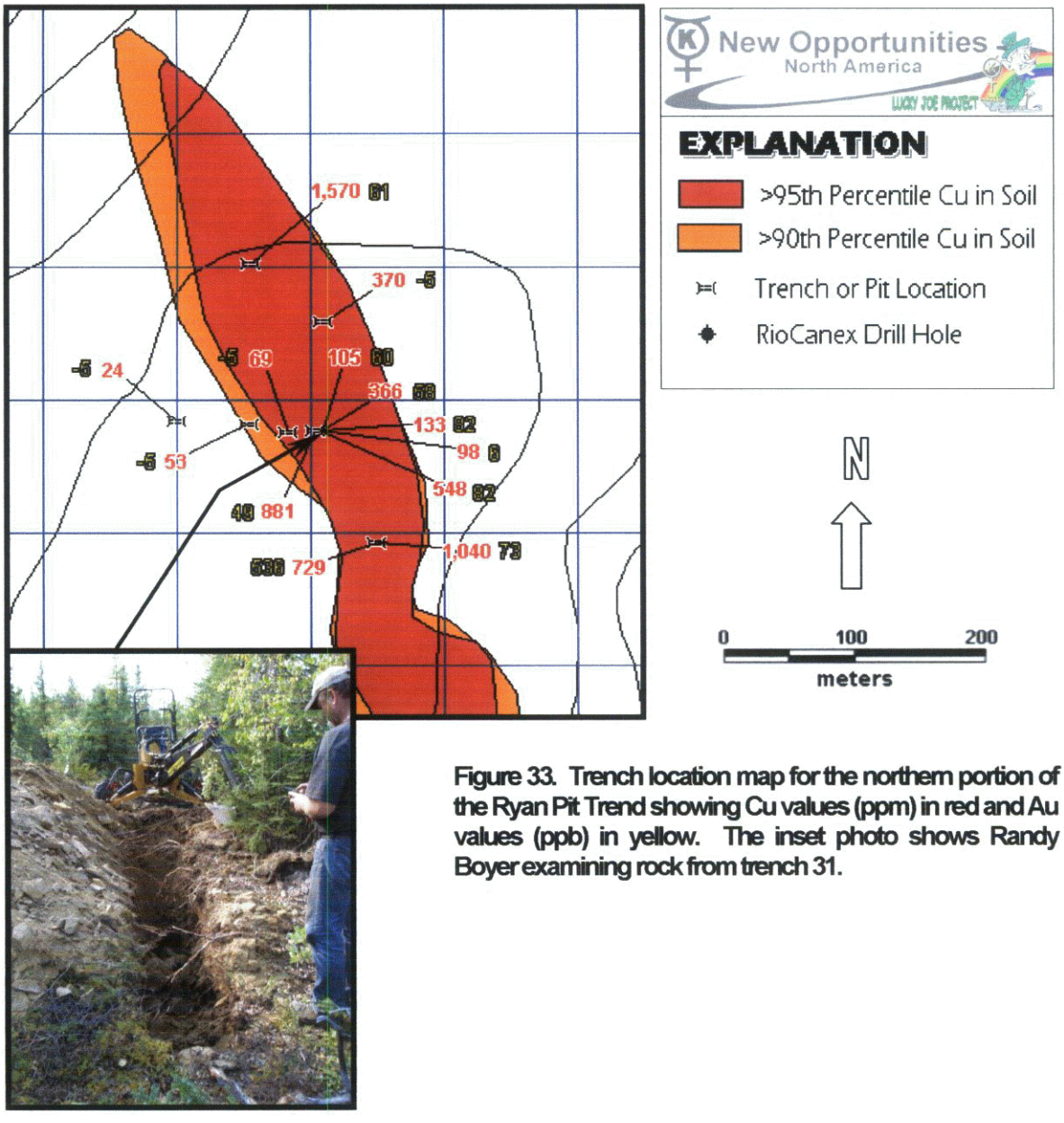


Figure 33. Trench location map for the northern portion of the Ryan Pit Trend showing Cu values (ppm) in red and Au values (ppb) in yellow. The inset photo shows Randy Boyer examining rock from trench 31.

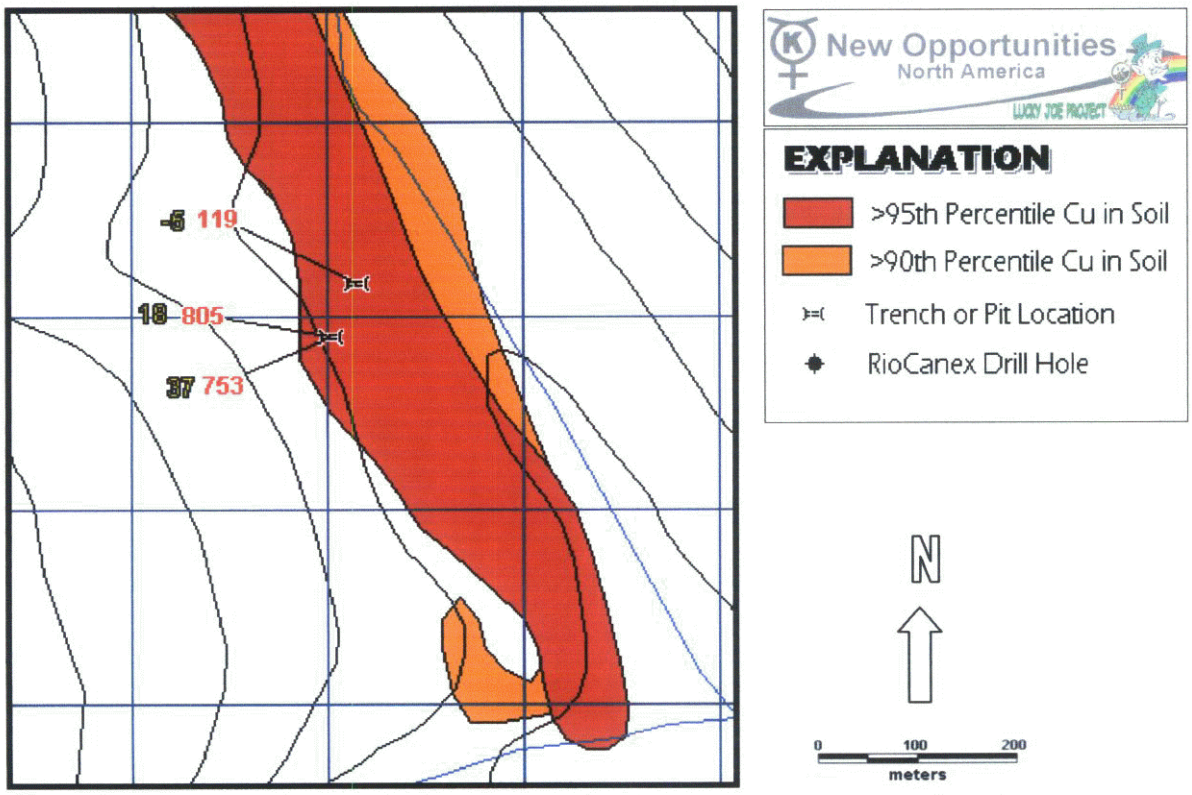
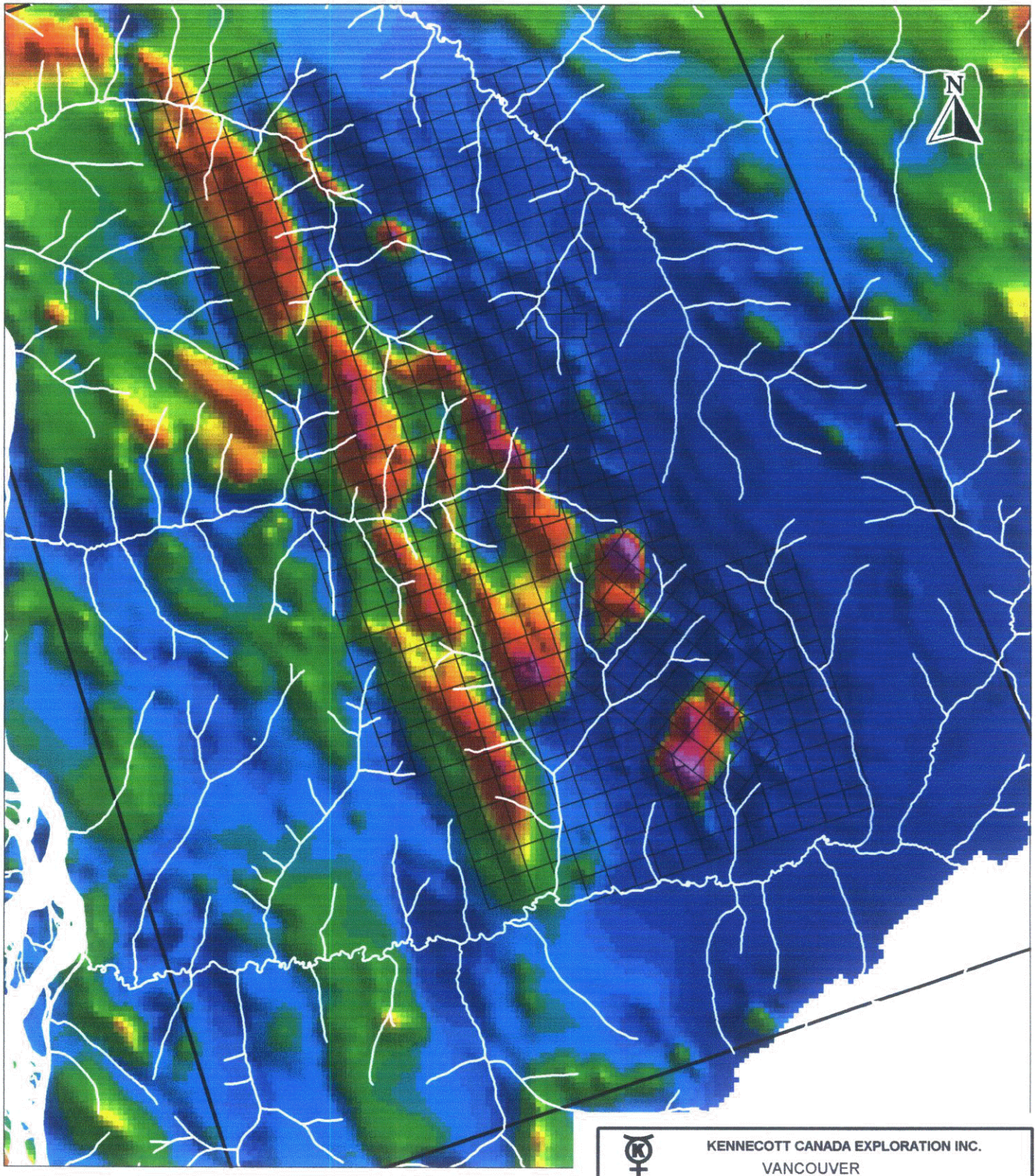


Figure 34. Trench location map for the central portion of the Ryan Pit Trend showing Cu values in red (ppm) and Au values in yellow (ppb).

7.0 GEOPHYSICS

A low-level airborne magnetic survey, with a 500 m flight line spacing, was conducted jointly by the Geological Survey of Canada and the Yukon Geology Survey, in 2000 over the area (Shives et al., 2001). The magnetics show the Lucky Joe property claims to be underlain by a belt of northwest trending aeromagnetic highs (Figure 35). This is a reflection of the amphibolite unit and magnetite alteration. The aeromagnetics are a targeting tool which was first recognized by prospector Shawn Ryan. Copper gold mineralization lies on the flank of an aeromagnetic high in the case of the Ryan Pit anomaly trend. Following the 2003 soil geochemistry survey the anomalous Three Bears trend lies over a discontinuous series of highs and subdued highs, as well as aeromagnetic lows, making interpretation that much more difficult.



Scale: 1:100,000

0 1 2 3 5 10

kilometres

KENNECOTT CANADA EXPLORATION INC.
VANCOUVER

LUCKY JOE PROPERTY

TOTAL FIELD MAGNETICS

YUKON TERRITORY, CANADA

Date: Nov. 15, 2003	Author: RH	GSC TFmag
File: Lucky Joe	Scale: 1:100,000	Figure: 34

8.0 CONCLUSIONS AND RECOMMENDATIONS

The Lucky Joe property is underlain by Yukon Tanana terrrane Phanerozoic ductilely deformed metasedimentary and metaigneous rocks. These rocks include arc magmatic rocks of Late Devonian to early Mississippian, mid Permian and syn to late kinematic Late Triassic – Early Jurassic age.

The property is a copper gold target defined in 2003 by two large soil anomalies that partially flank aeromagnetic anomalies. The larger of the two anomalies, the Three Bears Trend, extends for a length of 21.5 km and is up to 3 km wide. This anomaly encompasses, expands and defines previous soil geochemical anomalies, trenches and mineralization found in 1970's drill holes located by previous workers. Soil geochemistry values for gold and copper reach 235 ppb and 3060 ppm respectively. The other anomaly, the Ryan Pit Trend, although discontinuous and narrow, extends for a length of 7.2 km and has high gold and copper values of 611 ppb and 4400 ppm.

The central portions of the Three Bears and Ryan Pit soil anomalies are enriched in Cu-Au-Ag-Mo with an immediate fringe of enriched Pb, Pb-Zn values flanked by elevate Zn values. Strong Na enrichmant is coincident with Cu-Au-Mo at the Bear Cub, Papa Bear (part of Three Bears anomaly) and Ryan Pit anomalies and may define the hottest parts of the mineralizing system.

A total of 38 short trenches or test pits were excavated over the Three Bears Trend and the Ryan Pit Trend. Most trenches encountered deeply weathered decomposed bedrock, commonly schist, regoltih, fresher orthogneiss or failed to penetrate overburden. Most rock samples from trenches returned low values, rarely higher than adjacent soil sample values, which are attributed to the highly weathered and in some cases, leached, nature of the bedrock. High copper and gold values in rock samples ranged up to 2280 ppm and 303 ppb respectively from the Bear Cub anomaly and 1570 ppm Cu and 536 ppb Au from the Ryan Pit trend.

The 2003 work demonstrates that the previously drilled Lucky Joe soil anomaly (part of Three Bears anomaly) when compared with the other anomalies is smaller and less intense. With the exception of the Lucky Joe anomaly, previous drilling did not test the soil anomalies due to soliflucted soil, permafrost and poor soil sampling techniques leading to improper placement of drill holes.

The extensive Cu-Au-Mo soil anomalies, reflecting a possible Cu-Au porphyry system (alkalic) or a variant of an iron oxide copper gold (IOCG) deposit, are largely untested by drilling. Continued petrographic and analytical work is recommended along with continued compilation of data from the 2003 fieldwork. This should be done in preparation for a diamond drilling campaign to test the best of the soil anomalies.

9.0 STATEMENT OF COSTS

Table 2. Statement of Costs

Statement of Costs*			
Assessment Work Valuation; Lucky Joe Property			
2003 Geological and Geochemical Work Program			
		Costs Applicable to LJ 1-270 claims	
	2003 Applicable Costs	**Costs incurred after June11, 2003**	
Geochemical Costs	74557.76	74557.76	
helicopter	126105.00	126105.00	
contract labour	120605.02	105333.04	
contract labour	950.00		
KEX wages	186527.57	98409.98	
OPPS support wages (post May)	36770.76	31524.68	
Geology Expenses	6690.97	6159.39	
Field Meals	17613.42	17613.42	
Field Accom	1717.72	1717.72	
Field supplies	40876.10	18070.42	
Field Communications	23635.04	23469.32	
Freight	8308.65	8308.65	
Vehicle Expenses	6469.72	2079.26	
Bulk Fuel	13036.22	13036.22	
Health and Safety	2457.48	2457.48	
Field Travel	286.04		
Travel Meals	1805.00	1805.00	
Work meals	2268.09	1093.98	
postage	81.60	81.60	
computer	112.11	112.11	
insurance	3738.00	3738.00	
Rental	10473.92	10473.92	
	685086.19	546146.95	
Subtract			
-staking costs	11821.00	11821.00	
-digger pit costs	44076.55	44076.55	
-Lucky Joe 1-48 filing	3955.98	3955.98	
-Lucky 1-12 and other LJ claims	11773.11	11773.11	
	71626.64	71626.64	
Total Applicable Costs	**613459.55**	**474520.31**	
4232 samples used in filing	**144.96 sample**	**112.13 sample**	

*Derived from Detailed Expenses V015J for month ending Sept. 30, 2003.

10.0 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:

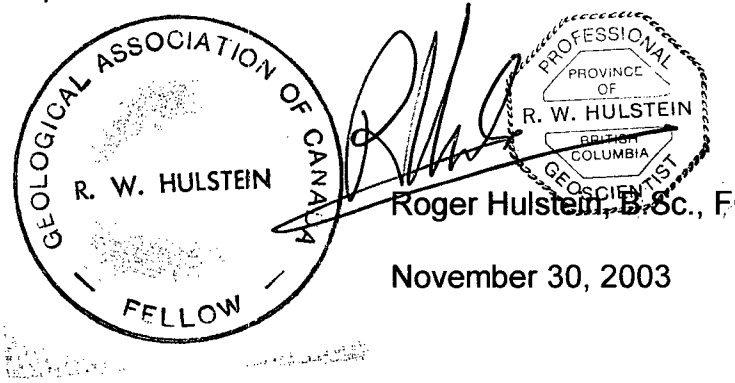
1. I am a geologist working under contract to Kennecott Canada Exploration Inc.

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 Lucky Joe property located in the Dawson Mining District, Yukon. The report is based on personal examination of the ground on various dates in June 10, 2003 and August 24, 2003, fieldwork carried our by personnel of Kennecott Canada Exploration Inc. and on referenced sources.



Roger Hulstein, B.Sc., FGAC, P.Geo.

November 30, 2003

11.0 REFERENCES

Bostock, H.S., 1942. Ogilvie, Yukon Territory; Geological Survey of Canada, Map 711A, scale 1:250,000.

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

MINERALS

Acanthite	ACA	Dickite	DIC	Neotieite	NEO	Topaz	TOP
Actinolite	ACT	Diopside	DIO	Nepheline	NPH	Torbernite	TOR
Adularia	ADU	Dolomite	DOL	Niccolite	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	Epsonite	EPS	Opal	OPL	Wavelite	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	PAR	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	Geradorffite	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	PYR		
Boehmite	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	Hubnarite	HUB	Realgar	REA		
Brucite	BRU	Hypersthene	HTH	Rhodochros.	RHO		
Bytownite	BYT	Idocrase	IDO	Rhodonite	RHD		
Calaverite	CAL	Illite	ILL	Ruby silver	RSI		
Calcite	CAL	Ilmenite	ILM	Rutile	RUT		
Carbon	CBN	Ilvaite	ILV	Samarskite	SAM		
Carnalite	CRN	Iron oxide	FEX	Sanidine	SAN		
Carnotite	CNT	Jamesonite	JAM	Scapolite	SCA		
Cassiterite	CAS	Jarosite	JAR	Scheelite	SCH		
Celestite	CEL	Johannsenite	JOH	Sericite	SEC		
Cerargyrite	CAR	K-feldspar	KFE	Serpentine	SER		
Cerussite	CER	Kaolinite	KAO	Siderite	SID		
Chalcanthite	CHT	Kyanite	KYA	Silica	SIL		
Chalcedony	CDY	Labradorite	LAB	Sillimanite	SLL		
Chalcocite	CHA	Lazurite	LAZ	Silver	AGG		
Chalcopyrite	CPY	Lead oxide	PBX	Silver halide	AGH		
Chlorite	CHL	Leucite	LEU	Ag.sulfosalt	SSS		
Chondrodite	CHN	Limonite	LIM	Smaltite	SMA		
Chromite	CHR	Magnesite	MGT	Smithsonite	SMS		
Chrysocolla	CCA	Magnetite	MAG	Sodalite	SDA		
Cinnabar	CIN	Malachite	MAL	Specularite	SPU		
Clay	CLA	Mang. oxide	MNX	Sphalerite	SPH		
Clinopyrox.	CPX	Manganite	MAN	Sphene	SPH		
Clinozoisite	CLZ	Marble	MBL	Spinel	SPN		
Cobaltite	COB	Marcasite	MAR	Staurolite	STA		
Columbite	CLM	Mariposite	MRP	Stibiconite	SBC		
Copper	CUU	Melanterite	MNT	Stibnite	STI		
Copper oxide	COX	Mercury	HGG	Stilbite	STB		
Cordierite	CRD	Miargyrite	MIA	Strontianite	STT		
Corundum	COR	Microcline	MIC	Sulfide	SFD		
Covellite	COV	Millerite	MIL	Sulfur	SUL		
Cryolite	CRO	Molybdanite	MDL	Sylvanite	SYV		
Crysoberyl	CRB	Moly oxide	MDX	Sylvite	SVT		
Crystoballite	CRY	Monazite	MNZ	Talc	TAL		
Cummingtonite	CMM	Montmorillonite	MON	Tellurides	TEL		
Cuprite	CPR	Muscovite	MUS	Tennantite	TEN		
Diamond	DIA	Natrolite	NAT	Tenorite	TRT		
Diaspore	DSP	Naumannite	NAU	Tetrahedrite	TET		

MIN. OCCUR.

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

SAMPLETYPE

Bleg	BG
Concentrate	PC
Drill - Core	DR
Drill - 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
Mexicp	MX
Michoacan	MI
Morelos	MO
Nayarit	NY
Nuevo Leon	NL
Oaxaca	OX
Puebla	PU
Queretaro	QO
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	PQ
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 (500um)	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 Q. quality.

Q - Bright	QB
Q - Clear	QC
Q - Dark	QD
Q - Dull	QU
Q - Light	QL
Q - 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
Quarternary	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

ROCK TYPE

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

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		
Phyllic	PHY		
Potassic	POT		
Primary	PRI		
Prograde	PRO		
Propylitic	PRP		
Pyritization	PYR		
Pyroxene	PYX		
Pyrrhotite	PYT		
Quartz	QTZ		
Qtz-Kspar	QKS		
Qtz-Tourmaline	QTO		
Qtz-carbonate	QCA		
Qtz-chlor.-Ser.	QCS		
Qtz-clay	QCL		
Qtz-sericite	QSE		
Reduced	RED		
Retrograde	RTR		
Sanded	SND		
Saussuritic	SAU		
Secondary	SEC		
Sericitic	SER		
Serpentine	SER		
Serpentinized	SRZ		
Siderite	SID		
Si-carbonate	SCA		
Silicification	SLC		
Skarn	SKR		
Solution	SLN		
Spilitic	SPL		
Sulfide	SFD		
Supergene	SUP		
Talc	TAL		

STRUCTURE

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

ROCK MODIFIERS

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

Appendix B

Analytical Procedures

ROCK SAMPLES

Sample Preparation: Crushing Procedures

The entire sample is passed through a primary crusher to yield a crushed product which passes the screen specifications of the designated crushing procedure. A split, (split size is determined by the final preparation method and analysis requested), is then taken using a stainless steel riffle splitter.

Crushing Method Code	Specifications	Description
CRU-21	70% < 6mm	Coarse crushing of rock chip and drill samples to better than 70% of the sample passing 6mm. Used when the entire sample will be pulverized but the material is too coarse for introduction into the pulverizing mill.

Sample Preparation - Pulverizing Procedures

A crushed sample split, (the split size being determined by the pulverizing method chosen), is ground using a ring mill pulverizer. The pulverizer uses a chrome steel ring set unless otherwise specified by the method chosen. All samples are pulverized to at least 85% of the ground material passing through a 75 micron screen. Grinding with chrome steel may impart trace amounts of iron and chromium into the sample.

Pulverizing Method Code	Specifications	Description
PUL-32	85% < 75μm	A sample split of 1000 g is pulverized to better than 85% of the sample passing 75 microns.

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-MS61
Ultra-Trace Level Method Using ICP-MS and ICP-AES

Sample Decomposition: $HF-HNO_3-HClO_4$ acid digestion, HCl leach
Analytical Methods: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)
Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.250 gram) is digested with perchloric, nitric, and hydrofluoric acids to near dryness. The sample is then further digested in a small amount of hydrochloric acid. The solution is made up to a final volume of 12.5 ml with 11% hydrochloric acid, homogenized, and analyzed by inductively coupled plasma-atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples that meet this criteria are then analyzed by inductively coupled plasma-mass sepctrometry. Results are corrected for spectral interelement interferences.

Element	Symbol	Detection Limit	Upper Limit	Units	Analytical Technique
Silver	Ag	0.01	100	ppm	AES+MS
Aluminum	Al	0.01	25	%	AES
Arsenic	As	0.2	10,000	ppm	AES+MS
Barium	Ba	0.5	10,000	ppm	AES
Beryllium	Be	0.05	1000	ppm	AES+MS
Bismuth	Bi	0.01	10,000	ppm	AES+MS
Calcium	Ca	0.01	25	%	AES
Cadmium	Cd	0.02	500	ppm	AES+MS
Cerium	Ce	0.01	500	ppm	MS
Cobalt	Co	0.1	10,000	ppm	AES+MS
Chromium	Cr	1	10,000	ppm	AES
Cesium	Cs	0.05	500	ppm	MS
Copper	Cu	0.2	10,000	ppm	AES
Iron	Fe	0.01	25	%	AES
Gallium	Ga	0.05	500	ppm	MS
Germanium	Ge	0.05	500	ppm	MS
Hafnium	Hf	0.1	500	ppm	MS
Indium	In	0.005	500	ppm	MS
Potassium	K	0.01	10	%	AES
Lanthanum	La	0.5	500	ppm	MS
Lithium	Li	0.2	500	ppm	MS
Magnesium	Mg	0.01	15	%	AES
Manganese	Mn	5	10,000	ppm	AES
Sodium	Na	0.01	10	%	AES
Niobium	Nb	0.1	500	ppm	MS
Nickel	Ni	0.2	10,000	ppm	AES+MS
Phosphorous	P	10	10,000	ppm	AES
Lead	Pb	0.5	10,000	ppm	AES+MS
Rubidium	Rb	0.1	500	ppm	MS
Rhenium	Re	0.002	50	ppm	MS
Sulfur	S	0.01	10	%	AES
Antimony	Sb	0.05	1000	ppm	MS

Element	Symbol	Detection Limit	Upper Limit	Units	Analytical Technique
Selenium	Se	1	1000	ppm	MS
Tin	Sn	0.2	500	ppm	MS
Strontium	Sr	0.2	10,000	ppm	AES+MS
Tantalum	Ta	0.05	100	ppm	MS
Tellurium	Te	0.05	500	ppm	MS
Thorium	Th	0.2	500	ppm	MS
Titanium	Ti	0.01	10	%	AES+MS
Thallium	Tl	0.02	500	ppm	MS
Uranium	U	0.1	500	ppm	MS
Vanadium	V	1	10,000	ppm	AES
Tungsten	W	0.1	10,000	ppm	AES+MS
Yttrium	Y	0.1	500	ppm	MS
Zinc	Zn	2	10,000	ppm	AES
Zirconium	Zr	0.5	500	ppm	MS

MS - Results are from the ICP-MS scan
AES - Results are from the ICP-AES scan
AES+MS - Results are a combination of ICP-AES and ICP-MS scans

Assay Procedure - ME-AA62
Evaluation of Ores and High Grade Materials

Sample Decomposition: HNO_3-$HClO_4$-HF-HCl digestion
Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample (0.2 to 2.0g) is digested with nitric, perchloric, and hydrofluoric acids, and then evaporated to dryness. Hydrochloric acid is added for further digestion, and the sample is again taken to dryness. The residue is dissolved in nitric and hydrochloric acids and transferred to a volumetric flask (100 or 250 ml). The resulting solution is diluted to volume with demineralized water, mixed and then analyzed by atomic absorption spectrometry against matrix-matched standards.

ALS Chemex Method Code	Element	Symbol	Lower Reporting Limit	Upper Reporting Limit	Units
Ag-AA62	Silver	Ag	1	1000	ppm
Al-AA62	Aluminum	Al*	0.01	50	%
Ca-AA62	Calcium	Ca*	0.05	50	%
Cd-AA62	Cadmium	Cd	0.0001	10	%
Co-AA62	Cobalt	Co	0.001	30	%
Cu-AA62	Copper	Cu	0.01	50	%
Fe-AA62	Iron	Fe	0.01	30	%
K-AA62	Potassium	K*	0.01	30	%
Li-AA62	Lithium	Li	0.01	50	%
Mg-AA62	Magnesium	Mg*	0.01	50	%
Mn-AA62	Manganese	Mn*	0.01	50	%
Mo-AA62	Molybdenum	Mo	0.001	10	%
Na-AA62	Sodium	Na*	0.001	30	%
Ni-AA62	Nickel	Ni	0.01	50	%
Pb-AA62	Lead	Pb	0.01	30	%
Sr-AA62	Strontium	Sr	0.01	20	%
V-AA62	Vanadium	V	0.01	30	%
Zn-AA62	Zinc	Zn	0.01	30	%

* Elements reported as oxide.

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.

ALS Chemex

Whole Rock Geochemistry – ME-XRF06

Sample Decomposition: Lithium Tetraborate Fusion*
Analytical Method: X-Ray Fluorescence Spectroscopy (XRF)

A prepared sample (1.000 gram) is added to lithium tetraborate flux (9.000 grams), mixed well and fused in a furnace at 1100°C. A flat glass disc is prepared from the resulting melt. This disc is then analyzed by X-ray fluorescence spectrometry. Oxide concentration is calculated from the determined elemental concentration and the result is reported in that format.

To determine loss on ignition (L.O.I.), a porcelain crucible is dried in an oven at 105°C, cooled and the weight recorded. A prepared sample (3.00 grams) is added to the crucible and then ashed at 1000°C for one hour. The sample is then cooled in a desiccator, weighed and the percent loss on ignition is calculated.

Oxide Determined	Symbol	Lower Reporting Limit	Upper Reporting Limit	Units
Aluminum Oxide	Al_2O_3	0.01	100	%
Barium Oxide	BaO	0.01	100	%
Calcium Oxide	CaO	0.01	100	%
Chromium Oxide	Cr_2O_3	0.01	100	%
Ferric Oxide	Fe_2O_3	0.01	100	%
Magnesium Oxide	MgO	0.01	100	%
Manganese Oxide	MnO	0.01	100	%
Phosophorus Oxide	P_2O_5	0.01	100	%
Potassium Oxide	K_2O	0.01	100	%
Silicon Oxide	SiO_2	0.01	100	%
Sodium Oxide	Na_2O	0.01	100	%
Strontium Oxide	SrO	0.01	100	%
Titanium Oxide	TiO_2	0.01	100	%
Loss On Ignition	L.O.I.	0.01	100	%

*Note: For samples that are high in sulphides, we may substitute a peroxide fusion in order to obtain better results.

Appendix C

Rock Sample Descriptions and Analytical Results

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

SAMPLE Number	Geologist	Sample Date	UTM EAST	UTM NORTH	SAMPLE TYPE	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Min. 1	Min. 2	NOTES
NA13900	YOUNG	06/27/2003	570864	7050558	RK	SCH	MUS	QTZ	FEL	BN	MAG			LOC 1
NA13901	YOUNG	06/27/2003	571062	7051167	RK	QMZ	FEL	QTZ		WT				LOC. 4, POSS. ASSOCIATED WITH AMP OR ALTERNATELY WITH PELLY GNEISS
NA13902	YOUNG	06/27/2003	571274	7051614	RK	SCH	QTZ	FEL	MUS	QT	MAG			LOC. 6 POSSIBLE FELSIC SCHIST
NA13903	YOUNG	06/27/2003	571305	7051849	RK	SCH	FEL	QTZ	MUS	QT	MAG			LOC. 7, META-INTRUSIVE OR META-SEDIMENT
NA13904	YOUNG	06/27/2003	571248	7050733	RK	AMP	AMP	FEL		BK				LOC. 9, TEST OF UNALTERED AMPHIBOLITE
NA13905	YOUNG	06/27/2003	573762	7052449	RK	GNE	QTZ	FEL	BIO	GY				LOC 11, IMPURE SANDSTONE?
NA13906	YOUNG	06/27/2003	573762	7052449	RK	GNE	FEL	QTZ	BIO	BF				LOC 11, ARKOSE?
NA13907	YOUNG	06/27/2003	573762	7052449	RK	SCH	BIO	MUS	QTZ					LOC. 11, SILTY SHALE?
NA13908	YOUNG	06/27/2003	573889	7052319	RK	QTZ	QTZ	MUS	BIO	GY				LOC. 12, TEST OF QUARTZITE
NA13909	YOUNG	06/27/2003	574249	7051970	RK	DOL				GN	EPI	GAL		LOC 17, GALENA AND POSSIBLE SPHALERITE, SMITHSONITE
NA13910	YOUNG	06/27/2003	573741	7051785	RK	SCH	FEL	QTZ	MUS	GY				LOC 23, TINY FELDSPAR PORPHYROBLASTS
NA13911	YOUNG	06/27/2003	573297	7051114	RK	SCH	FEL	QTZ	CHL	WT	CHL			LOC 26, LUCKY JOE MAIN TRENCH, ALTERED RODDED BIO-QTZ-FELD SCHIST OF TRASH ROCK ASSEMBLAGE?, PROBABLY HAS COPPER
NA13912	YOUNG	06/27/2003	573297	7051114	RK	SCH	QTZ	FEL	MUS	WT	MUS			LOC 26, LUCKY JOE MAIN TRENCH, PROBABLY LIKE NA13911 BUT MORE ALTERED
NA13913	YOUNG	06/27/2003	573297	7051114	RK	SCH	MUS	QTZ			MUS	FEX		LOC. 26, LUCKY JOE TRENCH, INTENSE MUSCOVITE ALTERATION OF NA13911-12, PROBABLY HAS SOME COPPER
NA13914	YOUNG	06/27/2003	573663	7052489	RK	SCH	QTZ	BIO	FEL	GY				LOC 27, LUSTROUS MICA-RICH WITH BIOTITE AND MUSCOVITE
NA13915	YOUNG	06/27/2003	573474	7052487	RK	SCH	QTZ	MUS	FEL		MUS			LOC 23, INTERBEDS WITHIN QUARTZITE
NA13916	YOUNG	06/27/2003	572875	7053021	RK	SCH	QTZ	MUS	FEL	WT	MUS			LOC 32, JUST LIKE LUCKY JOE MAIN TRENCH, ALTERED TRASH ROCK WITH QUARTZ RODS
NA13917	YOUNG	06/27/2003	573130	7051891	RK	SCH	QTZ	MUS		WT	MUS			LOC 37, COMPARE WITH ALTERED ROCKS AT LUCKY JOE
NA13918	YOUNG	06/27/2003	573112	7051775	RK	QTZ	QTZ	MUS		GY	MUS			LOC. 39, QUARTZITE WITH MUSCOVITE AS POSSIBLE ALTERATION
NA13919	YOUNG	06/27/2003	572911	7051527	RK	SCH	FEL	BIO		OL				LOC 40, PROBLEMATIC LINEATED BIOTITE OR BIOTITIZED HORNBLENDE IN FELDSPAR ROCK
NA13920	YOUNG	06/27/2003	572870	7051200	RK	AMP	FEL	AMP		WT	MAG			LOC 42, FELSPAR GREATER THAN AMPHIBOLITE
NA13921	YOUNG	06/27/2003	573514	7051660	RK	SCH	QTZ	FEL	BIO					LOC 49A, BIOTITE LOOKS PSEUDOMORPHIC AFTER AMPHIBOLITE
NA13922	YOUNG	06/27/2003	573514	7051660	RK	GNE	QTZ	FEL	BIO	WT				LOC 49B, LOOKS LIKE IMPURE SANDSTONE, BLOCKY
NA13923	YOUNG	06/27/2003	573507	7051556	RK	QTZ	QTZ	MUS		GY		PYY		LOC 50, MUSCOVITE-QTZ SCHIST; RELATED TO BLUISH QUARTZITE FACIES; POSSIBLY HAS COPPER
NA13924	YOUNG	06/27/2003	573074	7051348	RK	SCH	QTZ	FEL	BIO	GY				LOC 56, FINELY LAMINATED QUARTZ-RICH ROCK
NA13925	YOUNG	06/27/2003	572988	7051112	RK	QTZ	QTZ	BIO				PYY		LOC 59, POSSIBLE QUARTZITE HOSTED IN AMPHIBOLITE
NA13926	YOUNG	06/27/2003	572585	7052311	RK	GNE	QTZ	FEL	MUS	GY				LOC 66, ROCK TYPE ALSO QTZ-FEL-BIO GNEISS. PROBABLY TYPICAL TRASH ROCK; LOOKS LIKE UNALTERED EQUIVALENT TO LUCKY JOE HOST
NA13927	YOUNG	06/27/2003	572408	7052280	RK	AMP	AMP	FEL		OL	MAG			LOC 68; AMPHIBOLITE=SALMON FELDSPAR
NA13928	YOUNG	06/27/2003	572339	7052217	RK	SCH	FEL	BIO			MAG			LOC 70, SALMON FELDSPAR AND BIOTITE (AFTER AMPHIBOLE?) IN SUB-EQUAL PROPORTIONS
NA13929	YOUNG	06/27/2003	572239	7051791	RK	SCH	FEL	QTZ	BIO	BF	MAG			LOC 75, ROCK TYPE ALSO FEL-QTZ-HBL SCHIST, TEST OF QUARTZ CONTENT, STREAKY BIOTITE AND HONBLENDE(?) IN LEUCOCRATIC ROCK

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	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 (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)
NA13900	3	0.45	8.18	3.7		1130	1.14	0.29	0.75	0.37	10	41	541	5.68	17.05		1.02	27.9	2.12	771	2.35	3.19	17.6
NA13901	-1	0.03	8.95	0.6		1320	0.7	0.01	1.96	0.03	1.1	24	4.1	0.67	13.65		0.72	1.8	0.07	128	0.37	4.39	3.2
NA13902	-1	0.06	7.33	1.2		2700	1.19	0.01	0.71	0.04	4.1	50	5.8	2.82	14.6		2.55	24.2	0.2	523	0.42	2.01	2.1
NA13903	-1	0.02	9.13	0.9		1440	0.88	-0.01	1.94	0.02	1.6	27	2.5	0.84	13.85		1.22	1	0.27	150	0.42	3.62	2
NA13904	1	0.07	9.06	0.7		90	0.48	-0.01	7.56	0.1	45.4	188	53	7.01	16.6		0.32	5.1	4.88	1280	0.18	1.98	65
NA13905	-1	0.03	5.54	0.9		570	1.86	0.02	0.82	0.03	4.2	95	1.8	1.38	11.15		1.35	5.8	0.54	152	0.51	2	11
NA13906	-1	0.09	6.56	1.2		5550	1.57	0.07	0.92	0.09	3.6	112	6.2	1.97	15.5		2.1	11	0.74	292	0.44	2.61	12.4
NA13907	-1	0.09	11.7	1.1		1740	4.69	0.2	1	0.07	11.8	73	7.9	4.49	26.6		5.4	24.3	1.52	761	0.45	1.44	41.1
NA13908	-1	0.02	0.83	0.6		110	0.4	0.02	0.1	0.03	1.6	108	3.9	0.84	2.1		0.36	3.8	0.15	93	0.7	0.07	6.2
NA13909	11	16.2	5.17	-5		30	2.77	9.46	15	76.6	18.6	60	363	4.91	15.7		0.02	26	1.26	3690	3.5	0.06	11.9
NA13910	1	0.12	6.15	2.1		840	2.22	0.09	0.92	0.4	7.1	77	7.7	2.98	12.8		2.37	14	0.62	1060	0.52	1.22	14.6
NA13911	85	0.93	8.62	1		570	2.53	0.47	2.26	0.37	6.5	86	538	1.99	14.05		1.15	7.5	1.66	156	20.1	1.56	19.2
NA13912	18	0.24	5.76	-0.2		250	0.82	0.08	0.28	0.05	0.6	34	27.5	0.39	6.63		1.5	14.6	0.14	14	10.1	0.81	2.2
NA13913	117	0.64	5.01	2.1		480	0.72	0.77	0.18	0.3	0.7	69	190.5	1.27	9.41		1.58	14.6	0.24	28	55.7	0.65	1.9
NA13914	1	0.04	11.45	-0.2		3330	2.5	0.39	0.27	0.08	11	51	19	4	27.9		6.38	31.3	1.26	515	0.18	0.22	26.1
NA13915	1	0.06	6.05	2		2400	1.04	0.11	0.3	0.06	2.2	48	5.2	1.6	14.6		2.75	12	1.32	199	1.06	0.32	5.4
NA13916	-1	0.07	6.48	-0.2		3080	1.17	0.19	0.06	0.03	0.4	57	7.6	1.4	14.7		3.66	27	0.46	89	4.72	0.54	1.6
NA13917	-1	0.18	3.52	2.9		840	0.73	1.04	0.03	0.08	0.7	83	6.2	0.57	10.4		1.5	22.5	0.2	76	10.7	0.17	3.2
NA13918	-1	0.03	3.05	2.1		330	1.03	0.09	0.13	0.11	5.7	75	27.9	1.74	8.05		1.28	4.6	0.56	371	1.37	0.06	13
NA13919	2	0.05	6.29	1.5		410	1.14	-0.01	0.84	0.2	0.8	52	19.1	3.24	14.65		1.16	13.2	0.24	1075	0.55	3.18	1.8
NA13920	2	0.04	7.31	2		180	1.2	0.04	2.11	0.05	3.5	50	5.7	1.7	13.65		0.37	26.4	0.27	278	0.44	3.7	3.3
NA13921	1	0.1	5.6	2.6		360	1.03	1.84	2.77	0.4	9.2	94	88.3	6.64	17.65		1.5	66.3	0.81	1080	0.88	0.41	9.3
NA13922	1	0.05	5.26	1.4		530	2.13	0.06	1.12	0.14	4.7	71	4.2	2.01	9.34		1.42	15.2	0.55	250	0.37	1.56	11.6
NA13923	-1	0.03	3.72	-0.2		750	0.51	-0.01	0.25	0.14	1	81	7	0.97	6.87		1.42	18.2	0.14	42	1.29	0.94	3.9
NA13924	-1	0.07	7.07	1		530	1.21	0.04	1.38	0.27	1.3	69	1.8	4.68	21.7		1.34	24	0.46	1515	0.49	3.12	3.1
NA13925	-1	0.05	7.11	2.4		90	0.85	0.02	1.28	0.03	3.2	59	2.5	3.69	19.2		0.13	14.8	0.33	493	1.46	4.21	1.8
NA13926	-1	0.08	7.82	0.8		1380	1.98	4.55	1.4	0.5	9.2	83	11	3.2	19.8		2.53	27.4	0.93	490	0.66	0.45	41.6
NA13927	-1	0.07	8.13	1.2		310	1.38	0.16	3.59	0.3	19.8	36	5.5	6.91	21.7		0.36	7.5	2.24	855	0.25	4.08	4.5
NA13928	-1	0.05	7.46	0.5		840	1.54	0.02	0.85	0.14	1.2	48	1	3.79	20.7		1.61	6.9	0.43	1045	0.37	3.7	1.8
NA13929	-1	0.03	7.09	1.7		1660	1.46	0.08	1.81	0.04	3.7	58	2.2	1.98	15.75		1.26	23.4	0.18	334	0.42	2.8	2.5

SAMPLE Number	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
NA13900	530	85.9	0.26	0.21		239	0.18	0.19	1.9	112	31.4	353
NA13901	140	8.5	0.01	0.09		1210	0.04	0.05	0.5	21	0.5	13
NA13902	190	4.6	-0	0.08		172.5	0.15	0.15	2.3	13	1.9	21
NA13903	290	7	-0	0.06		810	0.07	0.13	0.1	14	0.3	31
NA13904	480	2.8	0.02	0.07		251	0.35	0.02	0.2	265	0.2	74
NA13905	270	8.9	-0	-0.05		98	0.2	0.36	0.9	37	0.6	24
NA13906	320	13.8	0.02	0.11		166	0.3	0.44	2.1	48	0.4	31
NA13907	1080	13.8	0.01	0.06		228	0.46	1.54	2.1	98	1.7	77
NA13908	80	1.7	-0	0.05		10.6	0.04	0.14	0.2	9	1	12
NA13909	260		0.09	8.26		626	0.16	-0.02	2	41	0.5	10000
NA13910	280	59.5	-0	0.11		138	0.27	0.62	1.8	44	1.2	72
NA13911	540	46	0.01	0.07		186	0.12	0.33	1.1	91	0.4	60
NA13912	170	9	-0	-0.05		70.3	0.07	0.22	0.9	72	0.2	5
NA13913	270	21.1	0.19	0.19		89	0.11	0.31	1	99	0.4	20
NA13914	450	8.1	0.01	-0.05		92.5	0.37	1.37	3.5	80	0.2	60
NA13915	100	11.6	0.05	0.07		74	0.08	0.54	1.5	14	1.9	40
NA13916	70	9.5	0.02	0.07		39	0.11	0.44	1.5	37	1.1	13
NA13917	60	12.3	0.11	0.07		56	0.09	0.63	2.1	60	0.8	7
NA13918	300	7.8	0.01	0.14		14	0.11	0.26	1.6	59	0.5	39
NA13919	240	11.2	0.01	0.1		118.5	0.16	0.1	0.8	1	0.3	123
NA13920	360	3.1	-0	0.1		240	0.17	0.03	2.1	8	0.3	18
NA13921	270	15	0.11	0.31		230	0.26	0.69	2.3	49	0.3	54
NA13922	230	8.9	-0	0.08		177	0.22	0.41	0.8	31	0.6	37
NA13923	60	6.8	0.07	0.05		43	0.09	0.18	0.6	13	0.7	9
NA13924	190	7.6	0.01	0.13		162.5	0.2	0.13	1.5	1	0.3	152
NA13925	190	4.3	0.01	0.13		143	0.19	-0.02	0.6	9	0.2	29
NA13926	520	29.2	-0	0.14		117	0.24	0.7	1.8	104	1.4	112
NA13927	370	8	-0	0.05		259	0.35	0.02	0.8	271	0.3	114
NA13928	250	9.9	0.01	0.06		110	0.2	0.15	0.6	2	0.3	112
NA13929	390	3.1	-0	0.09		195.5	0.14	0.06	2.9	8	0.3	19

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	Geologist	Sample Date	UTM EAST	UTM NORTH	SAMPLE TYPE	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Min. 1	Min. 2	NOTES
NA13930	YOUNG	06/27/2003	571964	7051321	RK	GNE	FEL	QTZ	BIO					LOC 83, ROCK TYPE ALSO FEL-QTZ-GAR GNEISS. TRASH ROCK, EQUIGRANULAR VARIANT WITH GARNET
NA13931	YOUNG	06/27/2003	575795	7051359	RK	GNE	FEL	QTZ	BIO	GY				LOC 91, PELLY GNEISS, EASTERN FACIES, META-INTRUSION OR PEBBLY ARKOSE
NA13932	YOUNG	06/27/2003	575597	7050308	RK	SCH	FEL	QTZ	BIO	WT				LOC 92, POSS RHYOLITIC BORDER PHASE OF PELLY GNEISS, COULD EQUALLY BE F.G. QUARTZITE
NA13933	YOUNG	06/27/2003	575435	7050359	RK	SCH	QTZ	FEL	MUS	GY				ROCK TYPE ALSO QTZ-FEL-BIO SCHIST. LOC 93, VARIANT OF BLUE-GRAY QUARTZITE FACIES
NA13934	YOUNG	06/27/2003	574945	7050672	RK	SKR	FEL	QTZ	EPI	GR	EPI			LOC 100, CALC-SILICATE WITH POSSIBLE SPHALERITE, COULD BE ALTERED AMPHIBOLITE
NA13935	YOUNG	06/27/2003	573914	7051481	RK	SKR	FEL	QTZ	MUS	WT				LOC 106, PROBLEMATIC, RESEMBLES NA13934
NA13936	YOUNG	06/27/2003	575127	7050336	RK	SCH	QTZ	MUS	CBN	GY				LOC 116, CARBONCACEOUS OR GRAPHITIC SCHIST
NA13937	YOUNG	06/27/2003	575000	7050070	RK	SCH	QTZ	FEL	GAR	WT	GAR			LOC 120, IS THIS A SKARN?
NA13938	YOUNG	06/27/2003	573778	7050774	RK	SCH	FEL	QTZ	MUS					ROCK TYPE ALSO FEL-QTZ-BIO SCHIST. LOC 133, GRANULAR AND SPECKLED WITH CHALKY FELDSPAR
NA13939	YOUNG	06/27/2003	573538	7050876	RK	SCH	QTZ	FEL	MUS	GY	MAG			ROCK TYPE ALSO QTZ-FEL-BIO SCHIST. LOC 136A, TRENCH, LUCKY JOE, PLANAR-BEDDED SILICEOUS ROCK
NA13940	YOUNG	06/27/2003	570410	7055613	RK	SCH	FEL	QTZ	MUS	WT	MUS	FEX		ROCK TYPE ALSO FEL-QTZ-BIO SCHIST. LOC 138, LOOKDS LIKE STRONGLY MUSCOVITE-ALTERED TRASHROCK, RUSTY ORANGE WEATHERING
NA13941	YOUNG	06/27/2003	569908	7055487	RK	GNE	QTZ	FEL	MUS		MUS			ROCK TYPE ALSO QTZ-FEL-BIO GNEISS. LOC 140, PROBABLY MODERATELY ALTERED (MUSCOVITE) RODDED TRASH ROCK
NA13942	YOUNG	06/27/2003	569679	7057022	RK	SCH	FEL	QTZ	BIO	BF				LOC 148, FELDSPAR ROCK WITH STREAKY BIOTITE, PLANAR "BEDS"
NA13943	YOUNG	06/27/2003	571872	7054552	RK	GNE	FEL	QTZ	MUS	WT	MUS			LOC 154, AGAIN A MUSCOVITE ALTERED TRASH ROCK WITH QUARTZ EYES/RODS
NA13944	YOUNG	06/27/2003	572042	7054730	RK	GNE	QTZ	FEL	BIO	WT				LOC 155, UNALTERED BIOTITIC TRASH ROCK VARIANT, LACKING QUARTZ EYES/RODS
NA13945	YOUNG	06/27/2003	571332	7056108	RK	GNE	FEL	QTZ	BIO					LOC 162, LIKE NA13944 BUT HAS FEW QUARTZ EYES/RODS
NA13946	YOUNG	06/27/2003	572531	7053186	RK	SCH	QTZ	MUS	FEL	GY	MUS			ROCK COLOUR ALSO BRIGHT WHITE. LOC 175, TYPICAL 'FELSIC' SCHIST, DENSE, COULD BE BARITIC
NA13947	YOUNG	06/27/2003	572070	7053076	RK	QTZ	QTZ	FEL	MUS	WT				QTZ-FEL-BIO QUARTZ. LOC 180, RESEMBLES STREAKY (BIOTITE) FELDSPAR ROCK, WAS SOME OF THIS HORNBLENDE?
NA13948	YOUNG	06/27/2003	571104	7052628	RK	GNE	FEL	QTZ	MUS	WT				LOC 191, PELLY GNEISS, MONZONITIC WESTERN FACIES, METAINTRUSIVE
NA13949	YOUNG	06/27/2003	571000	7054300	RK	SKP	QPI	GAR	AMP	OL	EPI			LOC. 214, DENSE SKARN
NA13950	YOUNG	06/27/2003	571033	7054939	RK	SCH	FEL	QTZ	BIO	BF				LOC. 217, CHECK FOR RHYOLITIC-LATITIC COMPOSITION
NA13951	YOUNG	06/27/2003	571033	7055011	RK	SCH	FEL	QTZ		BF				LOC 218, COULD BE RHYOLITE OR LATITE PROPHYRY
NA13952	YOUNG	06/27/2003	569798	7055183	RK	SCH	FEL	QTZ	BIO	GY				LOC 225, COULD BE MORE QUARTZ-RICH THAN ANTICIPATED, IS THIS RELATED TO 'STREAKY BIOTITE FACIES' OF AMPHIBOLITE?
NA13953	YOUNG	06/27/2003	573156	7049582	RK	SCH	FEL	QTZ	BIO	BK				LOC 251, VERY BIOTITE RICH, CLOSELY FOLIATED ROCK, COULD BE MISIDENTIFIED, IF SO-IT IS AMPHIBOLITIC
NA13954	YOUNG	06/27/2003	571310	7049278	RK	SCH	QTZ	MUS		GY	MUS	FEX	PYY	ROCK COLOUR ALSO BRIGHT WHITE. LOC 263, LUSTROUS SCHIST, RUSTY; PARALLEL 'LAMINATED' LAYERS
NA13955	YOUNG	06/27/2003	576244	7049316	RK	SKR	AMP	GAR	MAG	OL	AMP			LOC 269, SKARN, AFTER CARBONATE? VERY DENSE
NA13956	YOUNG	06/27/2003	576014	7046538	RK	GNE	QTZ	FEL	HBL	WT				LOC 299, MAY BE METAINTRUSIVE; BIOTITE MAY BE PRESENT

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	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 (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)
NA13930	-1	0.04	9.33	0.6		1100	0.91	0.05	3.51	0.05	6.7	37	9.4	2.41	19.7		0.99	6.8	0.8	456	0.29	3.38	3.4
NA13931	-1	0.06	7.91	1.3		1510	1.25	0.16	2.35	0.16	9.2	86	6.8	2.96	15.3		2.75	19.8	0.83	652	0.84	2.1	4.5
NA13932	-1	0.11	6.72	12.5		2240	0.7	0.14	0.23	-0.02	0.6	73	4.5	0.46	13.85		3.65	4.1	0.05	33	0.57	2.87	2
NA13933	1	0.03	0.48	1.7		180	0.1	0.15	0.11	0.56	1.9	126	8.1	0.59	1.64		0.18	2.7	0.09	136	13.95	0.04	18.4
NA13934	-1	0.04	7	9.7		2430	1.46	0.14	0.22	0.26	3.6	45	7.8	1.76	13		2.39	1.5	0.25	180	1.06	3.44	3.4
NA13935	-1	0.8	5.53	1.1		5260	2.48	6.27	1.37	0.19	1.1	96	1.7	0.53	7.61		1.96	1.3	0.17	303	0.62	1.76	4.5
NA13936	1	0.24	9.31	0.8		1180	2.13	0.17	0.7	0.09	7.1	91	16.7	4.32	22.9		3.37	10.9	1.04	554	0.6	0.47	15
NA13937	-1	0.04	7.66	1.5		120	1.1	0.01	0.84	0.02	6.7	65	1.3	4.43	19.25		0.26	20.4	0.34	551	0.83	4.26	2
NA13938	1	0.06	7.17	0.7		1320	2.33	0.2	1.2	0.31	13.5	88	13.3	3.23	18		2.35	27.7	0.9	739	0.72	0.42	36
NA13939	1	0.06	6.78	1.8		350	0.68	0.07	2.13	0.18	9.5	51	12	3.25	13.75		0.66	13	0.56	714	0.48	2.84	4.6
NA13940	-1	0.02	9.22	0.2		750	1.97	0.02	1.62	0.02	0.7	28	23	0.58	18.75		1.13	1.8	0.28	34	0.37	3.05	2.6
NA13941	3	0.08	7.31	1.5		2460	1.26	0.13	0.53	0.02	2.4	58	43.7	1.17	12.8		2.26	13.8	0.7	105	3.09	1.5	2.5
NA13942	4	0.04	7.37	1.8		1660	1.15	0.15	0.65	0.05	2.5	52	12.8	1.07	12.1		3.83	10.4	0.22	163	0.99	2.25	2.4
NA13943	15	1.5	7.23	1		1500	1.04	1.18	0.31	0.02	0.8	61	38.3	2.18	13.4		2.59	9.9	0.37	129	0.53	2.21	2.2
NA13944	-1	0.07	8.23	1.1		1380	1.12	0.14	1.64	0.04	12.1	63	82.8	3.34	13.5		2.19	16.1	1.44	793	0.57	2.81	6.7
NA13945	2	0.1	8.53	1.9		860	1.04	0.08	3.23	0.41	16.5	65	17.1	4.39	15.6		1.98	23.1	1.54	966	0.35	2.57	8.1
NA13946	-1	0.09	7.44	1.4		1680	1	1.64	0.39	0.05	3.9	50	11.7	3.41	16.75		3.22	8.1	0.61	211	1.49	1.03	2.2
NA13947	-1	0.08	8.76	0.4		2480	1.5	0.24	1.76	0.12	4.7	31	8	2.09	17.85		3.09	10.2	0.45	350	0.64	2.48	2.9
NA13948	-1	0.03	9.37	1.6		940	1.14	0.07	2.99	0.07	0.9	33	1.8	1.06	18.7		0.72	5.8	0.11	337	0.34	3.72	2.8
NA13949	6	2.59	3.11	-5		40	4.78	172.5	14	207	16.1	50	55.2	13.2	9.5		0.02	18.2	1.44	10000	0.35	0.37	10.7
NA13950	-1	0.06	8.79	0.9		1840	1.8	3.2	1.1	0.96	1.1	35	7.1	0.43	31.9		2.6	0.6	0.03	138	0.39	4.08	2.8
NA13951	220	0.08	8.43	7		2790	1.14	2.33	1.19	2.7	1	53	6.2	0.38	19.8		1.78	0.7	0.03	158	0.45	4	2.2
NA13952	87	0.06	8.91	3.9		1360	1.32	0.18	2.31	0.12	4.3	27	10.1	1.5	23.1		1.27	5.8	0.5	188	0.35	2.98	3.2
NA13953	25	0.07	9.27	11.4		1120	2.14	0.58	4.55	0.7	20.2	46	3.5	5.49	18.9		2.76	31.1	1.94	1380	0.41	1.68	6.2
NA13954	60	3.17	2.09	11.8		290	0.44	1.83	0.17	0.05	1	156	105	1	6.62		1.05	48.9	0.12	40	2.82	0.07	7.2
NA13955	31	0.16	2.31	-5		160	1.54	0.57	11.3	0.2	26.5	58	4.8	21.9	7.66		0.05	25.7	0.6	6280	0.38	0.83	11.4
NA13956	18	0.12	7.51	17.8		520	1.67	0.12	2.54	0.09	4.7	87	17.3	2.18	15.9		0.21	23.2	0.21	95	0.89	3.67	3.6

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
NA13930	530	7.4	-0	0.06		794	0.2	0.16	0.8	69	0.2	52
NA13931	340	11.4	0.01	0.05		301	0.17	0.47	3.1	74	0.4	41
NA13932	20	14	0.01	0.12		371	0.03	0.4	1.8	2	0.3	4
NA13933	50	41.4	0.01	0.06		8.5	0.03	0.04	4.3	270	0.6	30
NA13934	160	11.5	0.03	0.23		113.5	0.11	0.49	2.2	16	0.4	64
NA13935	360	70.7	-0	0.14		259	0.27	0.51	1.9	32	0.6	31
NA13936	550	23.7	0.03	-0.05		132.5	0.34	0.83	2.4	163	0.6	69
NA13937	170	2.1	-0	0.07		122.5	0.15	0.02	1	1	0.2	19
NA13938	590	21.5	0.02	-0.05		132	0.41	0.64	2.8	109	0.6	45
NA13939	430	3	0.02	0.08		197.5	0.23	0.11	1.1	12	0.3	94
NA13940	90	10.3	0.15	0.1		374	0.05	0.2	0.3	25	1.1	11
NA13941	150	14	-0	0.05		125	0.12	0.36	1.2	59	1.2	27
NA13942	130	16.7	-0	0.11		210	0.07	0.5	1.4	23	0.3	30
NA13943	150	12.4	0.14	0.14		168.5	0.11	0.32	1.1	30	1.4	22
NA13944	270	7.8	0.02	0.09		321	0.19	0.31	1.7	87	0.4	73
NA13945	370	23.3	0.01	0.16		302	0.23	0.32	2.4	143	0.3	73
NA13946	230	11.1	0.02	0.19		84.2	0.13	0.52	2.4	42	1.9	34
NA13947	360	20.2	-0	0.08		182	0.21	0.36	2	29	0.5	48
NA13948	280	9.6	-0	0.09		872	0.05	0.08	0.9	27	0.1	25
NA13949	350	453	0.01	0.27		24.9	0.2	-0.02	3.8	30	0.5	10000
NA13950	10	24.2	-0	0.14		731	0.03	0.32	0.2	5	0.1	154
NA13951	40	23.7	-0	0.15		806	0.02	0.18	0.1	4	0.2	402
NA13952	600	24	-0	0.06		870	0.15	0.22	0.6	61	0.3	68
NA13953	1010	9.1	-0	0.13		283	0.52	0.53	0.9	178	0.1	212
NA13954	1260	29.6	0.09	0.09		23.3	0.06	0.24	1.9	194	2.7	8
NA13955	210	9.2	0.01	0.14		39.8	0.15	-0.02	2.5	38	0.2	118
NA13956	230	6.8	0.05	0.26		340	0.16	0.02	3.2	11	0.5	17

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	Geologist	Sample Date	UTM EAST	UTM NORTH	SAMPLE TYPE	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Min. 1	Min. 2	NOTES
NA13957	YOUNG	06/27/2003	573657	7046081	RK	GNE	FEL	QTZ	BIO					ROCK TYPE ALSO FEL-QTZ-MUS GNEISS. LOC 313, CONTAINS QUARTZ EYES BUT A BIT MORE PLANAR-FOLATED THAN TYPICAL TRASH ROCK
NA13958	YOUNG	06/27/2003	573470	7045895	RK	SCH	FEL	QTZ	MUS	GY	MUS	FEX		ROCK COLOUR ALSO BRIGHT WHITE. LOC 315, FORMER BIO-Q-F ROCK WITH QUARTZ EYES HAS UNDERGONE MUSCOVITIC ALTERATION
NA13959	YOUNG	06/27/2003	573895	7052700	RK	SKR	EPI	FEL	MAG	GR	MAG			ROCK TYPE ALSO EPI-FEL-MAG SKARN. LOC 325, MODERATELY DENSE CALC-SILICATE, ALMOST A SKARN
NA13960	YOUNG	06/27/2003	573127	7054336	RK	GNE	FEL	QTZ	CHL	WT	CHL			LOC 338, METAINTRUSIVE ROCK, FORMS BIG BOULDERS
NA13961	YOUNG	08/14/2003	572865	7045324	RK	SCH	FEL	QTZ		BN	MAG			LOC. 359, RARE EXAMPLE OF FELSIC ROCK? WITH MAGNETITE.
NA13962	YOUNG	08/14/2003	573450	7045100	RK	SCH	QTZ	FEL		BN	FOX			LOC. 361, SILICEOUS BWN VOLCANIC-APPEARING ROCK WITH ABUNDANT IRON OXIDE WITH VUGS.
NA13963	YOUNG	08/14/2003	573333	7047876	RK	GNT	FEL	QTZ		WT	MAG			LOC. 398, FELDSPAR-PORPHYRITIC INTRUSIVE WITH MAGNETITE.
NA13964	YOUNG	08/14/2003	574007	7053938	RK	SCH	QTZ	FEL	BIO	BK				ROCK COLOUR ALSO WHITE. LOC 409, BIOTITIC METAINTRUSIVE WITH QTZ RODS, "EASTERN INTRUSION".
NA13965	YOUNG	08/14/2003	575380	7054650	RK	SCH	QTZ	FEL	MUS	PN				LOC 417, COARSE SALMON QUARTZITE WITH MUSCOVITE PARTINGS.
NA13966	YOUNG	08/14/2003	569190	7057654	RK	GNT	QTZ	FEL	BIO	BK				RK COLOUR ALSO WHITE. LOC. 432-BIOTITE WITH METAGRANITE WITH CATACLASIZED QTZ.
NA13967	YOUNG	08/14/2003	566948	7055927	RK	SCH	FEL	QTZ	BIO	WT				RK COLOUR ALSO BLACK. LOC 440. FOLIATED INTRUSIVE, 15% BIOTITE.
NA13968	YOUNG	08/14/2003	579760	7039400	RK	SCH	FEL	QTZ	BIO	WT				LOC 477; COARSELY-TEXTURED LAMINAR-FOLIATED INTRUSIVE, LEUCOCRATIC.
NA13969	YOUNG	08/14/2003	569216	7054286	RK	SCH	FEL	QTZ	BIO					LOC 502, COARSELY MINERAL-BANDED METAINTRUSIVE, 'EASTERN TYPE'.
NA13970	YOUNG	08/14/2003	570718	7050438	RK	SCH	HOR	FEL			FOX			LOC 524: GOSSANOUS AMPHIBOLITE UNIT
NA13971	YOUNG	08/14/2003	569969	7048382	RK	SCH	FEL	QTZ	BIO	PN				LOC 525. LAMINAR-FOLIATED WITH PINK FELDSPAR AND GRAY QTZ LAYERS.
NA13972	YOUNG	08/14/2003	571160	7049680	RK	SCH	QTZ	FEL	MUS	WT	MUS			LOC 544, GOSSANOUS MUSC-FELDSPAR-QTZ SCHIST.
NA13973	YOUNG	08/14/2003	575500	7049465	RK	QZT	QTZ	FEL	MUS		FOX			LOC. 590, THE "PYRITE WALL,". MAINLY RUSTY MUSCOVITE QUARTZITE.
NA13974	YOUNG	08/14/2003	574425	7049713	RK	SCH	FEL	QTZ	BIO	WT				LOC 562, A SAMPLE OF LEUCOCRATIC BAND FROM GREATER AMP UNIT.
NA13975	YOUNG	08/14/2003	575034	7047807	RK	SCH	FEL	BIO	QTZ		MAG			LOC 613, LAMINAR-FOLIATED FELDSPAR- BIOTITE SCHIST WITH ABUNDANT MAGNETITE.
NA13976	YOUNG	08/14/2003	573208	7053031	RK	SCH	QTZ	MUS		WT	MUS			LOC. 629, SPLENDANT MUSCOVITE-QTZ ROD SCHIST.
NA13977	YOUNG	08/14/2003	573357	7053203	RK	SCH	QTZ	FEL	MUS	WT	MUS	PYR		LOC 631, GRANULAR ROCK, POSSIBLY METACLASTIC.
NA13978	YOUNG	08/14/2003	573262	7054601	RK	GRD	FEL	QTZ	BIO		CHL	PYR	CPY	LOC 664, PROPYLLITICALLY-ALTERED FOLIATED GRANODIORITE WITH MINOR SULFIDES.
NA13979	YOUNG	08/14/2003	575023	7054654	RK	GRD	FEL	QTZ	BIO	PN				LOC 415, SALMON-COLOR METAINTRUSIVE, FRESH
NA13980	YOUNG	08/14/2003	573315	7054659	RK	GRD	FEL	QTZ	BIO		HEM	PYR	CPY	LOC 667, RELATIVELY FRESH BUT MINERALIZED METAINTRUSIVE.
NA13981	YOUNG	08/14/2003	575849	7045653	RK	SCH	FEL	QTZ	BIO	WT				LOC 716, RUN OF MILL LAMINAR-FOLIATED BIO-QTZ FEL ROCK
NA13982	YOUNG	08/14/2003	576878	7046868	RK	SST	QTZ	FEL	BIO	WT				LOC 759, TYPICAL SALT AND PEPPER METACLASTIC ROCK.
NA13983	YOUNG	08/14/2003	577203	7046351	RK	SCH	FEL	QTZ	BIO	WT				LOC 760A, CLASTIC ROCK THAT PERFECTLY RESEMBLES LAMINAT-FOLIATED IGNEOUS UNIT.

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	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 (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)
NA13957	4	0.07	7.45	4.2		1260	1.32	0.52	1.33	0.14	4.3	63	8.1	1.84	13.8		3.23	33.5	0.32	421	0.89	2.37	2.6
NA13958	1	0.1	8.36	1.7		1840	1.23	0.18	0.53	0.08	0.8	82	3.2	2.83	16.55		4.55	15.9	0.63	251	4.17	0.67	1.9
NA13959	19	3.04	8.47	7		110	2.2	3.47	10.9	1.58	6.8	66	227	12.3	36.6		0.1	11	1.5	2100	2.4	0.07	9.1
NA13960	6	0.03	8.91	1.6		410	1.34	0.03	1.5	0.03	1.3	48	11.4	0.34	17.85		0.34	1.2	0.04	56	0.4	5.6	2.5
NA13961	-5	0.07	6.4	1.7		670	1.26	0.03	0.72	0.13	1.1	94	7.2	2.82	18.35		1.48	19.7	0.19	291	1.31	2.7	4.7
NA13962	-5	0.03	2.55	10		90	1.93	0.14	0.04	0.14	12.6	138	9.2	2.03	5.95		0.15	6	0.03	378	1.58	0.03	19
NA13963	-5	-0.02	9.04	0.8		1710	0.65	0.03	1.86	0.05	0.7	34	1.8	0.66	14.65		0.81	0.9	0.13	142	0.83	4.21	3.3
NA13964	-5	0.04	8.32	0.2		1050	1.37	0.05	1.92	0.06	9.2	134	2.1	3.26	13.8		2.54	14.3	1.39	1085	1.08	2.19	7.4
NA13965	-5	0.05	6.65	1		1350	1.53	0.02	0.3	-0.02	0.6	78	5.9	0.7	12.25		1.11	7.7	0.05	124	1.32	3.66	4.7
NA13966	-5	0.03	7.64	0.2		1190	1.18	0.17	2.56	0.08	8.7	158	1.8	3.19	14.85		2.51	23.6	0.8	626	1.26	1.72	8.4
NA13967	-5	0.09	8.06	0.4		2090	1.03	0.04	2.06	0.04	4.9	108	3.8	2.44	13.85		1.44	25.2	0.53	459	1.47	3.48	6.7
NA13968	-5	0.12	7.22	1.1		110	2.09	0.06	0.5	-0.02	0.7	92	2.6	0.78	12.9		3.97	2.7	0.02	344	1.36	2.54	6.5
NA13969	-5	0.11	8.21	1		830	1.16	0.06	1.96	0.05	4.6	60	8.4	2.31	14.5		1.7	31.5	0.49	538	0.83	3.16	4.2
NA13970	-5	0.12	7.7	0.7		120	0.48	0.17	1.87	0.08	3.8	138	23.3	7.82	18		0.38	6.9	2.39	1545	1.54	3.26	5.4
NA13971	-5	0.07	7.69	1.7		1270	1.03	0.16	0.84	0.05	3.5	86	2.9	1.98	15		2.52	33.8	0.36	348	1.24	3.31	5.6
NA13972	-5	1.09	8.01	0.8		1340	1.15	0.34	0.41	0.04	1.5	176	12.1	1.71	14.25		2.55	25.1	0.29	172	1.58	2.82	6.8
NA13973	-5	0.28	4.08	0.5		580	1	0.42	0.32	0.18	4.3	198	42.1	2.29	11		1.66	13.6	0.77	457	2.72	0.29	16.8
NA13974	-5	0.07	7.61	0.6		330	0.76	0.02	3.33	0.03	6.6	178	41.9	1.74	10.25		0.36	19.7	0.33	207	1.48	2.76	11
NA13975	-5	0.05	8.96	-0.2		90	0.7	0.08	3.23	0.05	21.7	86	7.6	9.15	19.8		0.23	5.6	2.56	2330	0.41	4.14	6.2
NA13976	-5	0.07	6.76	0.2		810	1.1	0.05	0.66	0.06	0.9	256	15.2	2.78	12.95		1.74	25.1	0.26	65	2.39	2.13	7.8
NA13977	-5	0.45	7.27	0.7		230	1.14	0.23	0.58	0.17	2.1	163	127	2.56	9.06		2.15	18	0.23	61	39.8	3.04	7.6
NA13978	-5	0.22	8.19	1.7		1620	0.9	0.19	1.54	0.12	8.2	120	32	3.57	14.15		3.36	16	0.97	557	0.99	2.32	6.1
NA13979	-5	0.09	7.02	0.5		430	1.7	0.03	0.55	-0.02	0.7	87	2.6	0.81	11.3		4.18	4.3	0.02	160	1.82	2.36	6.6
NA13980	-5	0.32	7.39	0.7		340	0.84	0.33	2.58	1.17	16	173	228	4.4	13.55		1.87	16.9	1.68	909	3.85	1.72	12
NA13981	6	0.06	7.39	0.6		440	0.84	0.03	2.05	0.02	1.5	99	20.3	2.2	17.1		0.43	19.9	0.12	412	1.22	3.8	5
NA13982	-5	0.08	7.08	0.8		2470	1.52	0.07	1.14	0.26	12	279	7.5	4.35	15.3		1.81	13.1	2.34	527	1.34	1.35	120.5
NA13983	-5	0.1	8.06	1.9		1250	1.26	0.1	0.93	0.09	1.2	91	6.4	2.2	18		1.72	3.1	0.28	343	1.64	3.58	5.5

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
NA13957	190	13.2	0.02	0.08		189.5	0.1	0.55	2.3	24	0.4	42
NA13958	200	19	0.19	0.05		369	0.15	0.71	1.2	39	1.2	68
NA13959	290	260	0.12	0.95		1340	0.06	0.07	3.8	64	0.4	219
NA13960	70	9.7	-0	0.13		1170	0.02	-0.02	0.1	5	0.1	14
NA13961	160	5.7	-0	0.14		149	0.14	0.16	1.2	8	0.4	75
NA13962	300	9.1	-0	6.33		31.1	0.06	0.03	2.1	33	2.5	55
NA13963	200	8.6	-0	0.12		1260	0.04	0.07	0.2	13	0.2	16
NA13964	420	7.1	-0	0.11		190.5	0.19	0.39	1.8	77	0.8	94
NA13965	40	3.3	-0	0.08		69.1	0.01	0.21	1.8	4	1	16
NA13966	440	10.9	-0	0.06		317	0.16	0.39	2.5	73	0.4	41
NA13967	360	8.3	-0	-0.05		408	0.22	0.19	2.8	41	0.3	46
NA13968	40	23.5	-0	-0.05		34	0.02	0.81	3.6	1	0.4	6
NA13969	400	7.2	0.02	0.05		367	0.21	0.21	2.5	41	0.2	45
NA13970	890	5.7	0.32	-0.05		248	0.79	0.05	0.4	259	0.2	48
NA13971	320	7.9	-0	0.09		367	0.18	0.24	1.7	33	0.5	33
NA13972	170	20.9	0.07	0.09		189	0.12	0.39	1.6	33	0.6	34
NA13973	430	18.6	0.1	-0.05		89.1	0.15	0.3	2.3	71	1.3	46
NA13974	240	1.9	0.02	-0.05		245	0.16	0.03	2.4	41	0.2	6
NA13975	1290	3.9	-0	-0.05		136	0.89	0.03	0.3	247	0.1	79
NA13976	160	15.6	0.82	-0.05		115.5	0.11	0.29	1.8	71	1	13
NA13977	200	11.2	0.88	-0.05		127	0.12	0.28	1.7	32	1.2	5
NA13978	290	6.5	0.33	0.27		289	0.19	0.5	2.5	87	0.9	45
NA13979	50	19	-0	-0.05		67.3	0.02	0.66	3.4	2	0.4	9
NA13980	310	17.8	0.88	0.07		251	0.22	0.27	1.7	136	0.4	96
NA13981	190	1.9	0.01	0.08		274	0.16	0.03	1.8	4	0.4	6
NA13982	740	10.8	0.02	0.5		182.5	0.26	0.36	1.2	154	0.1	27
NA13983	180	18.5	0.02	0.07		140	0.13	0.25	1.9	9	0.9	42

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	Geologist	Sample Date	UTM EAST	UTM NORTH	SAMPLE TYPE	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Min. 1	Min. 2	NOTES
NA14283	FRANKLIN	08/10/2003	572011	7054112	RK	SCH	MUS	QTZ		WT	MUS	PYY	LIM	SAMPLE FROM FROST BOIL MUS QTZ SCH (QTZ-ROD SCH) MOD. FEOX ON FRACS&WTHRD SURFACES LOC. DSSM PYY& LIM AFTER PYY PYY APPEARS UNDERFORMED
NA14599	BOYER	07/31/2003	568620	7057242	RK	AMP	GAR					PYY	CPY	
NA14849	FRANKLIN	08/18/2003			DR	SCH	MUS	BIO		GY	MUS	CPY	PYY	SELECT CORE SAMPLES FROM R1076-4 578-594
NA14995	FRANKLIN	08/11/2003	573386	7053221	RK	SCH	MUS	QTZ		WT	MUS	PYY		RK COLOUR ALSO YELLOW. MUS-QTZ-SCHIST, V. SILCEOUS, FNLY DSSM EUHEDRAL PYY, MOD FeOx ON WTHRD SURFACES AND FOLIATION PLANES. OLD RIOCANEX SAMPLE SITE. STATION 78.7
NA15724	FRANKLIN	08/07/2003	573505	7052772	RK	SCH	QTZ	MUS		WT	MUS	FEX	GAL	RK COLOUR ALSO ORANGE. QTZ-MUS SCHIST-MYLONITIC. POSSIBLE TR. GAS, PALE YELLOW. OXIDE-PbOx? THIS WAS A SOIL STATION BUT COLLUVIUM IS INPENETRABLE. STEEP SLOPE
NA15876	BOYER	08/08/2003	573078	7054620	RK	GNE	OTH					LIM		GRAB@BOTTOM OF PIT #1 POSSIBLE BEDROCK
NA15895	BOYER	08/11/2003	572635	7054291	RK	SCH	FLD	QTZ	BIO		WEA			8 FOOD PIT (#6) AT SAMPLE SITE NA12270. ALSO SOIL SAMPLE NA15894
NA15897	BOYER	08/11/2003	572560	7054246	RK	SCH	BIO	QTZ	FLD					PIT 7, SAMPLE AT BOTTOM OF 7 FOOT PIT, SEE DIAGRAM
NA15898	BOYER	08/11/2003	572560	7054246	RK	GNT	FLD	QTZ						PIT 7, SEE DIAGRAM ON CARD
NA15899	BOYER	08/11/2003	572492	7054147	RK	SCH	BIO	QTZ	FLO		WEA			PIT 8, SEE CARD FOR DIAGRAM
NA15900	BOYER	08/11/2003	572492	7054147	RK	SCH	MUS							SEE NOTES NA15899, PIT 8
NA15901	BOYER	08/11/2003	572446	7054265	RK	SCH	MUS	QTZ				LIM	HEM	PIT 9, AT 4 FEET. QTZ-MUSC SCHIST. STA 217, ENHEDRAL QTZ XTALS IN VUGS
NA15903	BOYER	08/12/2003	569988	7055555	RK	SCH	MUS	QTZ						PIT 10. SEE NOTES NA15902
NA15904	BOYER	08/12/2003	569945	7055540	RK	SCH	BIO	MUS	QTZ			LIM		PIT 11. SOIL OVERBURDEN VERY ORANGE. SOIL WITH BEDROCKS LIGHT BROWN. 4FEET DEEP.
NA15905	BOYER	08/12/2003	569897	7055524	RK	QTZ					WEA	LIM		PIT 12
NA15906	BOYER	08/12/2003	569897	7055524	RK	SCH	MUS	QTZ			WEA	LIM		PIT 12. SEE NOTES NA15905
NA15907	BOYER	08/13/2003	569848	7055496	RK	SCH	BIO	QTZ	MUS					PIT 13
NA15908	BOYER	08/13/2003	569833	7055542	RK	SCG	QTZ	BIO	CHL					PIT 14
NA15909	BOYER	08/13/2003	569946	7055495	RK	SCH	MUS	QTZ						PIT 15
NA15910	BOYER	08/13/2003	570055	7055507	RK	SCH	BIO	QTZ	MUS					PIT 16
NA15911	BOYER	08/13/2003	570156	7055466	RK	SCH	MUS				OXI	LIM		PIT 17
NA15912	BOYER	08/13/2003	570156	7055464	RK									SEE NOTES NA15911
NA15914	BOYER	08/13/2003	570340	7055579	RK	SCH	MUS			OR	WEA			PIT 19
NA15915	BOYER	08/13/2003	570415	7055623	RK	SCH	MUS			TA				PIT 21.
NA15916	BOYER	08/13/2003	570415	7055623	RK	SCH	MUS			TN				
NA15917	BOYER	08/14/2003	570604	7055660	RK	SCH	MUS	QTZ		OR	WEA			PIT 22.
NA15919	BOYER	08/14/2003	570817	7055677	RK	SCH	MUS			TN				PIT 24
NA15920	BOYER	08/14/2003	570909	7055727	RK	QTZ				WT				ROCK COLOR ALSO BROWN. PIT 25
NA15921	BOYER	08/14/2003	570909	7055727	RK	SCH	MUS			TN	WEA	LIM		SEE NA15920
NA15922	BOYER	08/14/2003	571009	7055765	RK	SCH	MUS	QTZ						PIT 26
NA15923	BOYER	08/14/2003	571080	7055841	RK	SCH	BIO	QTZ						LOOKING AZ 120DEGREES
NA15924	BOYER	08/17/2003	571311	7049359	RK	SCH	QTZ	BIO		GY		LIM		PIT 31. SOIL AND QTZ-BIO SCHIST OVERBURDEN. V. ROCKY.
NA15925	BOYER	08/17/2003	571304	7049277	RK	SCH	QTZ	BIO		GY				PIT 30.
NA15926	BOYER	08/17/2003	571306	7049277	RK	GOU	SHD			OR				PIT 30. SEE 15925
NA15927	BOYER	08/17/2003	571308	7049277	RK	SCH	QTZ	MUS		GY				PIT 30. SEE 15925
NA15928	BOYER	08/17/2003	571308	7049277	RK	SCH				BK				PIT 30. UNKNOWN MINERALS. SEE 15925
NA15929	BOYER	08/17/2003	571256	7049402	RK	SCH	BIO	QTZ		GY				PIT 32.
NA15930	BOYER	08/17/2003	571306	7049277	RK	QTZ				WT		QTZ		PIT 30. EUHEDRAD QTZ XTALS. SEE NA15925
NA15933	BOYER	08/19/2003	571200	7049284	RK	AMP				BK				PIT 35. 15933 AT 6' DEEP. LOOSE BEDROCK.
NA15934	BOYER	08/19/2003	571349	7049192	RK	SCH	MUS	QTZ	BIO	TN				PIT 36. AT SOIL NA14789. BIO, QTZ,MUSC SCHIST.

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	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 (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)
NA14283	-5	0.2	0.26	3	-10	520	-0.5	2	0.01	-0.5	1	214	12	1.33	-10	-1	0.2	10	0.02	20	2	0.01	11
NA14599	-5	0.13	8.45	0.3		160	0.49	0.06	4.01	0.1	32.5	193	321	14.5	19.95		0.29	9.4	2.05	2870	1.98	1.14	13.6
NA14849	341	2	1.36	-2	-10	60	-0.5	4	0.31	0.8	19	128	4680	2.92	-10	-1	0.42	10	0.86	96	23	0.04	9
NA14995	-5	-0.2	0.26	4	-10	110	-0.5	-2	0.01	-0.5	5	224	25	2.07	-10	-1	0.21	10	0.02	20	11	0.04	9
NA15724	-5	-0.2	0.27	5	-10	400	-0.5	-2	0.01	-0.5	1	217	7	1.74	-10	-1	0.28	10	0.02	24	2	0.06	8
NA15876	-5	0.5	1.68	2	-10	260	0.5	2	0.13	0.5	11	189	614	3.55	10	-1	0.83	10	0.84	380	3	0.06	13
NA15895	-5	0.2	2.27	3	-10	570	-0.5	2	0.52	0.5	8	154	769	4.18	10	-1	0.89	10	1.27	344	13	0.08	11
NA15897	16	-0.2	3.17	4	-10	330	-0.5	2	0.82	0.5	10	207	770	4.38	10	-1	0.55	10	1.6	568	4	0.14	16
NA15898	-5	-0.2	4.42	6	-10	350	-0.5	2	1.86	-0.5	13	94	460	2.56	10	-1	0.38	10	0.72	289	1	0.13	13
NA15899	-5	-0.2	3.53	3	-10	220	0.6	3	0.64	-0.5	5	148	593	4.51	10	-1	0.38	20	0.98	300	1	0.12	11
NA15900	10	0.8	0.38	4	-10	160	-0.5	-2	0.02	-0.5	1	206	82	2.38	-10	-1	0.34	20	0.05	40	20	0.06	10
NA15901	21	1.4	0.59	4	-10	110	-0.5	3	0.01	0.6	2	254	260	4.55	-10	-1	0.24	10	0.07	48	14	0.02	10
NA15903	31	0.5	0.6	44	-10	170	-0.5	-2	0.07	0.5	2	188	367	2.54	-10	-1	0.35	20	0.27	59	11	0.07	10
NA15904	10	0.4	1.4	2	-10	200	-0.5	-2	0.06	-0.5	2	281	247	2.17	-10	-1	0.82	10	1.16	181	6	0.05	13
NA15905	9	0.9	0.27	4	-10	90	-0.5	2	0.04	-0.5	2	271	284	2.44	-10	-1	0.16	10	0.16	46	2	0.04	12
NA15906	54	1.3	3.32	4	-10	150	1	-2	0.38	-0.5	2	12	2280	7.08	10	-1	0.88	50	1.47	161	11	0.03	-1
NA15907	5	-0.2	1.22	-2	-10	90	-0.5	-2	0.04	-0.5	3	66	134	1.42	-10	-1	0.32	20	0.78	132	6	0.03	2
NA15908	13	0.5	1.74	-2	-10	260	-0.5	-2	0.09	-0.5	2	173	483	2.94	10	-1	0.76	20	1.31	165	9	0.05	7
NA15909	7	0.2	1.46	-2	-10	160	-0.5	-2	0.13	-0.5	6	142	406	1.73	-10	-1	0.52	20	0.81	171	2	0.03	6
NA15910	-5	0.2	2.08	-2	-10	750	-0.5	-2	0.52	-0.5	16	134	40	3.99	10	-1	0.95	10	1.58	555	2	0.06	10
NA15911	-5	0.3	0.71	-2	-10	30	-0.5	-2	0.03	0.7	1	302	46	13.2	10	-1	0.85	10	0.1	56	18	0.96	6
NA15912	-5	-0.2	2.67	-2	-10	260	-0.5	-2	0.27	-0.5	8	259	54	4.98	10	-1	1.04	10	1.45	482	3	0.18	11
NA15914	-5	0.3	5.07	-2	-10	440	0.6	-2	0.28	-0.5	22	90	319	5.14	10	-1	0.5	20	0.89	309	2	0.13	9
NA15915	54	1.9	2.03	-2	-10	100	-0.5	-2	0.01	-0.5	2	177	596	6.86	10	-1	0.66	10	0.49	126	11	0.35	5
NA15916	5	-0.2	0.28	-2	-10	220	-0.5	-2	-0	-0.5	1	188	9	3.1	-10	-1	0.53	10	0.02	17	31	0.04	5
NA15917	5	0.2	2.21	-2	-10	40	-0.5	-2	0.05	-0.5	-1	121	110	9.23	10	-1	1.4	20	0.88	174	1	0.38	4
NA15919	5	0.2	0.83	-2	-10	260	-0.5	-2	0.01	-0.5	1	186	97	3.33	-10	-1	0.46	10	0.33	64	3	0.05	5
NA15920	8	0.2	0.44	-2	-10	20	-0.5	-2	0.05	-0.5	1	335	69	1.54	-10	-1	0.05	-10	0.19	50	4	0.02	12
NA15921	27	0.5	1.62	-2	-10	80	-0.5	-2	0.21	-0.5	2	148	328	5.23	10	-1	0.25	10	0.66	94	22	0.1	5
NA15922	10	0.3	0.89	-2	-10	110	-0.5	-2	0.12	-0.5	1	272	158	3.04	-10	-1	0.35	10	0.3	82	4	0.07	9
NA15923	5	-0.2	3.14	-2	-10	560	-0.5	-2	0.96	0.6	12	131	24	4.16	10	-1	1.1	10	1.42	682	1	0.04	9
NA15924	-5	-0.2	0.71	-2	-10	40	-0.5	-2	0.11	0.5	5	68	370	1.65	-10	-1	0.07	10	0.45	343	1	0.04	5
NA15925	49	5.5	1.74	35	-10	60	-0.5	15	0.58	-0.5	7	180	881	5.17	10	-1	0.13	20	1.07	225	8	0.03	40
NA15926	82	3.6	1.4	31	-10	260	-0.5	4	0.26	-0.5	3	165	548	3.03	10	-1	0.23	20	0.58	106	6	0.05	26
NA15927	82	4.7	0.3	34	-10	60	-0.5	6	0.34	-0.5	1	299	133	1.81	-10	-1	0.15	30	0.07	38	8	0.01	26
NA15928	58	3.1	0.64	41	-10	130	-0.5	6	0.45	-0.5	1	246	366	2.13	-10	-1	0.18	50	0.17	41	12	0.01	39
NA15929	61	1.6	1.11	7	-10	60	-0.5	2	0.08	0.7	6	176	1570	3.36	10	-1	0.07	20	0.91	315	4	0.05	17
NA15930	6	0.8	0.11	10	-10	20	-0.5	3	0.02	-0.5	1	306	98	1.02	-10	-1	0.03	-10	0.04	31	4	0.01	16
NA15933	-5	-0.2	1.62	-2	-10	100	-0.5	-2	1.59	-0.5	13	40	24	4.04	-10	-1	0.12	10	0.91	588	-1	0.22	5
NA15934	73	3.3	1.73	9	-10	420	-0.5	5	0.18	-0.5	4	146	1040	6.97	10	-1	0.5	10	0.79	322	26	0.04	15

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
NA14283	30	5	0.16	-2	-1	6	-0	-10	-10	3	-10	3
NA14599	2240	2	1.48	-0.05		172.5	1.1	0.06	0.4	324	0.5	87
NA14849	560	2	1.38	-2	5	10	0.03	-10	-10	37	-10	57
NA14995	60	3	1.22	-2	-1	8	0.01	-10	-10	3	-10	-2
NA15724	110	8	0.44	-2	-1	15	0.01	-10	-10	4	-10	2
NA15876	210	-2	0.02	-2	10	19	0.16	-10	-10	80	-10	83
NA15895	380	6	0.53	3	9	57	0.22	-10	-10	115	-10	99
NA15897	380	8	0.23	-2	15	62	0.16	-10	-10	128	-10	85
NA15898	230	5	0.09	2	6	111	0.08	-10	-10	64	-10	54
NA15899	420	-2	0.46	2	14	118	0.16	-10	-10	121	-10	55
NA15900	160	53	0.59	-2	1	10	0.01	-10	-10	8	-10	9
NA15901	260	5	0.1	-2	1	5	0.01	-10	-10	15	-10	10
NA15903	290	3	0.47	-2	2	15	0.03	-10	-10	21	-10	15
NA15904	210	3	0.13	2	2	9	0.09	-10	-10	21	-10	43
NA15905	50	2	0.25	-2	1	5	0.02	-10	-10	7	-10	12
NA15906	980	15	1.07	-2	9	56	0.12	-10	10	96	10	85
NA15907	130	-2	0.04	-2	2	11	0.05	-10	-10	16	-10	18
NA15908	250	3	0.38	2	5	18	0.1	-10	-10	41	-10	104
NA15909	180	5	0.08	-2	3	19	0.08	-10	-10	24	-10	66
NA15910	440	4	0.01	-2	9	25	0.22	-10	-10	118	-10	50
NA15911	280	9	4.31	3	5	140	0.08	-10	-10	51	-10	5
NA15912	330	-2	0.76	3	13	132	0.15	-10	-10	112	-10	59
NA15914	290	5	0.75	-2	13	171	0.12	-10	-10	114	-10	90
NA15915	130	21	2.13	2	6	58	0.07	-10	-10	52	-10	43
NA15916	110	-2	0.95	-2	1	14	0.01	-10	-10	9	-10	2
NA15917	500	10	3.23	2	12	85	0.13	-10	-10	89	-10	52
NA15919	170	6	0.6	2	4	21	0.04	-10	-10	32	-10	15
NA15920	50	-2	0.06	-2	1	12	0.02	-10	-10	14	-10	9
NA15921	370	5	0.56	-2	5	82	0.07	-10	-10	61	-10	30
NA15922	180	5	0.56	2	2	68	0.02	-10	-10	18	-10	16
NA15923	390	8	0.01	2	10	42	0.19	-10	-10	105	-10	112
NA15924	250	-2	-0	-2	3	7	0.03	-10	-10	20	-10	106
NA15925	3280	12	0.14	2	10	31	0.01	-10	-10	118	-10	121
NA15926	2050	11	0.33	-2	8	32	0.01	-10	10	82	-10	63
NA15927	3120	23	0.2	2	1	22	-0	-10	10	43	-10	7
NA15928	5290	21	0.25	-2	3	42	-0	-10	20	117	-10	19
NA15929	620	29	0.03	2	8	7	0.02	-10	-10	62	-10	169
NA15930	150	-2	0.02	-2	1	3	-0	-10	-10	9	-10	8
NA15933	1720	3	-0	-2	12	20	0.18	-10	-10	112	-10	52
NA15934	150	11	0.23	-2	2	12	0.03	-10	-10	19	-10	116

SAMPLE Number	Geologist	Sample Date	UTM EAST	UTM NORTH	SAMPLE TYPE	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Min. 1	Min. 2	NOTES
NA15935	BOYER	08/19/2003	571349	7049192	RK	SCH	MUS	QTZ	BIO	TN		LIM		PIT 36. SEE NA15934. PROB. FLOAT.
NA15946	BOYER	08/21/2003	570449	7050198	FL	QZT						CPY	BOR	
NA16150	FRANKLIN	08/18/2003			DR	SCH	MUS	QTZ		WT	MUS	CPY	PYY	RK COLOR ALSO LIGHT GREY.R1076-4 578. CORE DUMPED ON GROUND WITH CORE BLOCK IN MIDDLE OF PILE (PHOTO).
NA16151	FRANKLIN	08/18/2003			DR	SCH	BIO	QTZ	FEL	GY		CPY	PYY	RK COLOR ALSO BLACK. SELECT CORE FROM R1076-4 594-614'.
NA16152	FRANKLIN	08/18/2003			DR									SELECT CORE FROM R1076-5 617-639.
NA16153	FRANKLIN	08/18/2003			DR	SCH	MUS	BIO	QTZ	GY		PYY		SELECT CORE FROM R1076-5 693-700.
NA16154	FRANKLIN	08/18/2003			DR	SCH	BIO	QTZ		GY		CPY	PYY	SELECT CORE FROM RI076-1 725-731.
NA16155	FRANKLIN	08/18/2003			DR	SCH	MUS	BIO		GY		CPY	PYY	SELECT CORE FROM R1076-1. 589-604
NA16156	FRANKLIN	08/18/2003			DR	SCH	BIO	QTZ	FEL	GY	BIO	CPY	MDL	SELECT CORE FROM R1078-1 205-227

Lucky Joe 2003 Rock Geochemistry

SAMPLE Number	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 (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)
NA15935	536	7.2	0.9	30	-10	240	-0.5	20	0.07	-0.5	6	144	729	8.07	-10	-1	0.34	20	0.28	145	10	0.02	16
NA15946	-5	-0.2	0.8	-2	-10	210	-0.5	-2	0.3	-0.5	3	73	12	3.64	10	-1	0.37	-10	0.36	533	-1	0.08	3
NA16150	355	2.39	6.63	3.5		280	0.84	2.98	0.61	1	14.6	81	4870	2.2	15.35		2.23	9.6	0.82	81	37.5	0.7	8.2
NA16151	90	1.06	7.43	1.1		400	1.52	0.47	1.63	0.37	22.2	200	1950	3.8	16.1		2.5	9	3.13	282	73.1	1.18	61.8
NA16152	256	2.39	7.76	0.7		150	1	0.66	1.79	0.91	31	79	4200	4.16	15.45		1.92	12.6	2.02	272	98.8	2.01	18.4
NA16153	171	1.3	7.55	1.5		70	0.97	0.31	1.68	0.6	46.7	85	3830	6.43	16.9		2.03	8.5	2.29	327	3.65	1.49	14.5
NA16154	1615	6.01	7.46	4.5		60	0.81	2.93	0.67	2.5	48.8	132	6760	9.89	24.2		2.48	121	2.32	316	4.67	1.55	28.4
NA16155	37	0.62	8.9	1.9		180	0.63	1.4	2.46	0.41	50.4	59	1070	10.4	23.6		2.2	10.2	1.89	724	1.86	1.53	12.9
NA16156	19	2.36	7.93	0.9		120	0.98	0.49	3.08	0.91	34.7	112	2480	5.63	16.95		1.47	13	2.32	817	84.5	1.6	13.8

SAMPLE Number	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Ti (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)
NA15935	220	14	0.23	-2	1	7	0.02	-10	-10	10	-10	97
NA15946	540	3	0.02	-2	6	20	0.15	-10	-10	15	-10	90
NA16150	260	12	1.04	0.23		81.6	0.11	0.65	1.4	86	2	58
NA16151	560	10.7	0.72	0.16		125	0.24	0.95	1.3	128	0.4	69
NA16152	940	9	1.46	0.33		135.5	0.31	0.57	1.3	174	0.7	70
NA16153	990	13.2	2.59	2.48		130.5	0.54	0.64	1.1	264	1.3	52
NA16154	500	16.7	4.03	0.18		115	0.28	0.88	4.1	108	1.7	170
NA16155	1400	22	3.15	0.16		156.5	1.15	0.82	0.6	436	3	53
NA16156	410	22.5	1.35	0.18		251	0.26	0.28	1.5	167	0.8	115

Appendix D

Whole Rock Sample Descriptions and Analytical Results

Kennecott Canada Exploration Inc.
Lucky Joe Project, Yukon Territory
2003 Whole Rock Geochemistry: Locations, Descriptions and Analytical Results

SAMPLE Number	GEOLOGIST	SAMPLE DATE	UTM EAST	UTM NORTH	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Mineral 1	Mineral 2
NA13900	YOUNG	06/27/2003	570864	7050558	SCH	MUS	QTZ	FEL	BN	MAG		
NA13901	YOUNG	06/27/2003	571062	7051167	QMZ	FEL	QTZ		WT			
NA13902	YOUNG	06/27/2003	571274	7051614	SCH	QTZ	FEL	MUS	QT	MAG		
NA13903	YOUNG	06/27/2003	571305	7051849	SCH	FEL	QTZ	MUS	QT	MAG		
NA13904	YOUNG	06/27/2003	571248	7050733	AMP	AMP	FEL		BK			
NA13905	YOUNG	06/27/2003	573762	7052449	GNE	QTZ	FEL	BIO	GY			
NA13906	YOUNG	06/27/2003	573762	7052449	GNE	FEL	QTZ	BIO	BF			
NA13907	YOUNG	06/27/2003	573762	7052449	SCH	BIO	MUS	QTZ				
NA13908	YOUNG	06/27/2003	573889	7052319	QTZ	QTZ	MUS	BIO	GY			
NA13909	YOUNG	06/27/2003	574249	7051970	DOL				GN	EPI	GAL	
NA13910	YOUNG	06/27/2003	573741	7051785	SCH	FEL	QTZ	MUS	GY			
NA13911	YOUNG	06/27/2003	573297	7051114	SCH	FEL	QTZ	CHL	WT	CHL		
NA13912	YOUNG	06/27/2003	573297	7051114	SCH	QTZ	FEL	MUS	WT	MUS		
NA13913	YOUNG	06/27/2003	573297	7051114	SCH	MUS	QTZ			MUS	FEX	
NA13914	YOUNG	06/27/2003	573663	7052489	SCH	QTZ	BIO	FEL	GY			
NA13915	YOUNG	06/27/2003	573474	7052487	SCH	QTZ	MUS	FEL		MUS		
NA13916	YOUNG	06/27/2003	572875	7053021	SCH	QTZ	MUS	FEL	WT	MUS		
NA13917	YOUNG	06/27/2003	573130	7051891	SCH	QTZ	MUS		WT	MUS		
NA13918	YOUNG	06/27/2003	573112	7051775	QTZ	QTZ	MUS		GY	MUS		
NA13919	YOUNG	06/27/2003	572911	7051527	SCH	FEL	BIO		OL			
NA13920	YOUNG	06/27/2003	572870	7051200	AMP	FEL	AMP		WT	MAG		
NA13921	YOUNG	06/27/2003	573514	7051660	SCH	QTZ	FEL	BIO				

SAMPLE Number	NOTES	Sample ID	Certificate	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %
NA13900	LOC 1	NA13900	VA03024450	14.61	0.12	1.01	0.01	8.23	1.17	3.57	0.08	3.5	0.12	60.69
NA13901	LOC. 4, POSS. ASSOCIATED WITH AMP OR ALTERNATELY WITH PELLY GNEISS	NA13901	VA03024450	16.13	0.15	2.51	0.04	1.25	0.82	0.08	0.01	4.86	0.05	72.67
NA13902	LOC. 6 POSSIBLE FELSIC SCHIST	NA13902	VA03024450	13.35	0.29	0.93	0.01	3.96	2.97	0.3	0.06	2.26	0.06	74.2
NA13903	LOC. 7, META-INTRUSIVE OR META-SEDIMENT	NA13903	VA03024450	15.93	0.15	3.05	0.01	1.21	1.4	0.53	0.01	4	0.07	71.13
NA13904	LOC. 9, TEST OF UNALTERED AMPHIBOLITE	NA13904	VA03024450	16.42	0.02	10.98	0.04	10.57	0.4	8.51	0.18	2.15	0.12	47.41
NA13905	LOC 11, IMPURE SANDSTONE?	NA13905	VA03024450	9.92	0.05	1.16	0.02	1.96	1.59	0.86	0.01	2.23	0.08	79.36
NA13906	LOC 11, ARKOSE?	NA13906	VA03024450	11.79	0.63	1.25	0.02	2.73	2.54	1.11	0.03	2.95	0.07	75.1
NA13907	LOC. 11, SILTY SHALE?	NA13907	VA03024450	21.43	0.2	1.31	0.01	6.42	6.35	2.7	0.11	1.6	0.24	54.22
NA13908	LOC. 12, TEST OF QUARTZITE	NA13908	VA03024450	1.66	-0.01	0.13	0.05	1.27	0.47	0.14	0.01	0.07	0.03	95.34
NA13909	LOC 17, GALENA AND POSSIBLE SPHALERITE, SMITHSONITE	NA13909	VA03024450	9.46	-0.01	22.2	0.02	7.02	0.03	2.15	0.6	1.04	0.06	44.4
NA13910	LOC 23, TINY FELDSPAR PORPHYROBLASTS	NA13910	VA03024450	11.12	0.09	1.24	0.02	4.35	2.79	1.02	0.15	1.36	0.05	75.17
NA13911	LOC 26, LUCKY JOE MAIN TRENCH, ALTERED RODDED BIO-QTZ-FELD SCHIST OF TRASH ROCK ASSEMBLAGE?, PROBABLY HAS COPPER	NA13911	VA03024450	14.63	0.05	2.92	0.03	2.78	1.3	2.69	0.01	1.65	0.11	69.76
NA13912	LOC 26, LUCKY JOE MAIN TRENCH, PROBABLY LIKE NA13911 BUT MORE ALTERED	NA13912	VA03024450	16.36	0.02	0.38	0.03	0.64	1.85	0.18	-0.01	0.95	0.04	77.58
NA13913	LOC. 26, LUCKY JOE TRENCH, INTENSE MUSCOVITE ALTERATION OF NA13911-12, PROBABLY HAS SOME COPPER	NA13913	VA03024450	12.55	0.05	0.26	0.02	2	2.04	0.35	-0.01	0.81	0.08	78.35
NA13914	LOC 27, LUSTROUS MICA-RICH WITH BIOTITE AND MUSCOVITE	NA13914	VA03024450	21.85	0.41	0.47	0.02	5.83	8.2	2.26	0.08	0.28	0.1	54.09
NA13915	LOC 23, INTERBEDS WITHIN QUARTZITE	NA13915	VA03024450	12.19	0.3	0.55	0.01	2.56	3.61	2.37	0.03	0.43	0.02	73.99
NA13916	LOC 32, JUST LIKE LUCKY JOE MAIN TRENCH, ALTERED TRASH ROCK WITH QUARTZ RODS	NA13916	VA03024450	12.76	0.38	0.08	0.02	2.12	4.77	0.76	0.01	0.7	0.01	76.06
NA13917	LOC 37, COMPARE WITH ALTERED ROCKS AT LUCKY JOE	NA13917	VA03024450	7.1	0.09	0.04	0.04	0.82	1.86	0.23	-0.01	0.21	0.02	87.05
NA13918	LOC. 39, QUARTZITE WITH MUSCOVITE AS POSSIBLE ALTERATION	NA13918	VA03024450	6.61	0.03	0.18	0.03	2.61	1.63	0.98	0.06	0.07	0.07	85.33
NA13919	LOC 40, PROBLEMATIC LINEATED BIOTITE OR BIOTITIZED HORNBLENDE IN FELDSPAR ROCK	NA13919	VA03024450	12.07	0.04	1.21	0.01	4.8	1.4	0.34	0.12	3.72	0.05	75.15
NA13920	LOC 42, FELSPAR GREATER THAN AMPHIBOLITE	NA13920	VA03024450	13.07	0.01	2.9	0.01	2.59	0.45	0.42	0.02	4.29	0.08	74.3
NA13921	LOC 49A, BIOTITE LOOKS PSEUDOMORPHIC AFTER AMPHIBOLITE	NA13921	VA03024450	10.38	0.03	3.76	0.02	9.45	1.78	1.31	0.16	0.39	0.06	69.47

SAMPLE Number	SrO %	TiO2 %	LOI %	TOTAL %
NA13900	0.03	0.76	5.04	98.93
NA13901	0.13	0.08	0.81	99.58
NA13902	0.02	0.27	1.22	99.91
NA13903	0.09	0.15	1.08	98.78
NA13904	0.03	0.9	1.13	98.84
NA13905	0.01	0.4	0.76	98.39
NA13906	0.04	0.55	0.74	99.55
NA13907	0.02	0.8	3.55	98.95
NA13908	-0.01	0.1	0.38	99.63
NA13909	0.05	0.26	8.81	96.08
NA13910	0.01	0.46	1.18	99.02
NA13911	0.02	0.7	2.17	98.82
NA13912	-0.01	0.52	1.4	99.95
NA13913	-0.01	0.86	2.06	99.42
NA13914	-0.01	0.85	4.03	98.47
NA13915	-0.01	0.16	2.74	98.96
NA13916	-0.01	0.22	1.94	99.83
NA13917	0.01	0.35	1.52	99.34
NA13918	0.01	0.38	1.51	99.5
NA13919	0.02	0.33	0.45	99.72
NA13920	0.03	0.3	0.67	99.14
NA13921	0.04	0.49	2.76	100.1

SAMPLE Number	GEOLOGIST	SAMPLE DATE	UTM EAST	UTM NORTH	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Mineral 1	Mineral 2
NA13922	YOUNG	06/27/2003	573514	7051660	GNE	QTZ	FEL	BIO	WT			
NA13923	YOUNG	06/27/2003	573507	7051556	QTZ	QTZ	MUS		GY		PYY	
NA13924	YOUNG	06/27/2003	573074	7051348	SCH	QTZ	FEL	BIO	GY			
NA13925	YOUNG	06/27/2003	572988	7051112	QTZ	QTZ	BIO				PYY	
NA13926	YOUNG	06/27/2003	572585	7052311	GNE	QTZ	FEL	MUS	GY			
NA13927	YOUNG	06/27/2003	572408	7052280	AMP	AMP	FEL		OL	MAG		
NA13928	YOUNG	06/27/2003	572339	7052217	SCH	FEL	BIO			MAG		
NA13929	YOUNG	06/27/2003	572239	7051791	SCH	FEL	QTZ	BIO	BF	MAG		
NA13930	YOUNG	06/27/2003	571964	7051321	GNE	FEL	QTZ	BIO				
NA13931	YOUNG	06/27/2003	575795	7051359	GNE	FEL	QTZ	BIO	GY			
NA13932	YOUNG	06/27/2003	575597	7050308	SCH	FEL	QTZ	BIO	WT			
NA13933	YOUNG	06/27/2003	575435	7050359	SCH	QTZ	FEL	MUS	GY			
NA13934	YOUNG	06/27/2003	574945	7050672	SKR	FEL	QTZ	EPI	GR	EPI		
NA13935	YOUNG	06/27/2003	573914	7051481	SKR	FEL	QTZ	MUS	WT			
NA13936	YOUNG	06/27/2003	575127	7050336	SCH	QTZ	MUS	CBN	GY			
NA13937	YOUNG	06/27/2003	575000	7050070	SCH	QTZ	FEL	GAR	WT	GAR		
NA13938	YOUNG	06/27/2003	573778	7050774	SCH	FEL	QTZ	MUS				
NA13939	YOUNG	06/27/2003	573538	7050876	SCH	QTZ	FEL	MUS	GY	MAG		

SAMPLE Number	NOTES	Sample ID	Certificate	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %
NA13922	LOC 49B, LOOKS LIKE IMPURE SANDSTONE, BLOCKY	NA13922	VA03024450	10.09	0.04	1.57	0.05	2.99	1.73	0.91	0.03	1.8	0.06	79.27
NA13923	LOC 50, MUSCOVITE-QTZ SCHIST; RELATED TO BLUISH QUARTZITE FACIES; POSSIBLY HAS COPPER	NA13923	VA03024450	6.99	0.07	0.33	0.03	1.4	1.75	0.14	-0.01	1.09	0.02	86.48
NA13924	LOC 56, FINELY LAMINATED QUARTZ-RICH ROCK	NA13924	VA03024450	13.18	0.05	1.86	0.01	6.66	1.63	0.77	0.17	3.48	0.05	70.66
NA13925	LOC 59, POSSIBLE QUARTZITE HOSTED IN AMPHIBOLITE	NA13925	VA03024450	13.11	0.01	1.76	-0.01	5.23	0.17	0.56	0.04	4.86	0.05	73.16
NA13926	LOC 66, ROCK TYPE ALSO QTZ-FEL-BIO GNEISS. PROBABLY TYPICAL TRASH ROCK; LOOKS LIKE UNALTERED EQUIVALENT TO LUCKY JOE HOST	NA13926	VA03024450	14.9	0.16	1.95	0.02	4.79	3.13	1.56	0.07	0.53	0.12	68.65
NA13927	LOC 68; AMPHIBOLITE=SALMON FELDSPAR	NA13927	VA03024450	15.05	0.04	5.07	-0.01	10.21	0.43	4.06	0.08	4.69	0.08	57.51
NA13928	LOC 70, SALMON FELDSPAR AND BIOTITE (AFTER AMPHIBOLE?) IN SUB-EQUAL PROPORTIONS	NA13928	VA03024450	13.69	0.09	1.13	-0.01	5.26	1.9	0.73	0.11	4.13	0.06	71.97
NA13929	LOC 75, ROCK TYPE ALSO FEL-QTZ-HBL SCHIST, TEST OF QUARTZ CONTENT, STREAKY BIOTITE AND HONBLENDE(?) IN LEUCOCRATIC ROCK	NA13929	VA03024450	13.33	0.19	2.55	0.01	2.98	1.57	0.23	0.03	3.4	0.1	74.31
NA13930	LOC 83, ROCK TYPE ALSO FEL-QTZ-GAR GNEISS. TRASH ROCK, EQUIGRANULAR VARIANT WITH GARNET	NA13930	VA03024450	17.01	0.14	4.76	-0.01	3.45	1.22	1.35	0.05	3.65	0.12	66.75
NA13931	LOC 91, PELLY GNEISS, EASTERN FACIES, META-INTRUSION OR PEBBLY ARKOSE	NA13931	VA03024450	14.55	0.17	3.16	0.01	4.3	3.31	1.39	0.08	2.4	0.06	68.92
NA13932	LOC 92, POSS RHYOLITIC BORDER PHASE OF PELLY GNEISS, COULD EQUALLY BE F.G. QUARTZITE	NA13932	VA03024450	12.89	0.25	0.32	0.01	0.67	4.55	0.03	-0.01	3.47	0.02	77.12
NA13933	ROCK TYPE ALSO QTZ-FEL-BIO SCHIST. LOC 93, VARIANT OF BLUE-GRAY QUARTZITE FACIES	NA13933	VA03024450	0.95	0.01	0.17	0.05	0.9	0.29	0.1	0.01	0.54	0.02	96.28
NA13934	LOC 100, CALC-SILICATE WITH POSSIBLE SPHALERITE, COULD BE ALTERED AMPHIBOLITE	NA13934	VA03024450	13.17	0.28	0.32	-0.01	2.6	2.91	0.38	0.01	4.11	0.04	74.5
NA13935	LOC 106, PROBLEMATIC, RESEMBLES NA13934	NA13935	VA03024450	10.85	0.59	1.63	0.03	0.8	2.18	0.25	0.03	1.8	0.09	79.98
NA13936	LOC 116, CARBONCACEOUS OR GRAPHITIC SCHIST	NA13936	VA03024450	16.96	0.13	0.94	0.03	6.08	4.03	1.74	0.08	0.52	0.13	64.75
NA13937	LOC 120, IS THIS A SKARN?	NA13937	VA03024450	13.97	-0.01	1.17	-0.01	6.37	0.33	0.56	0.04	4.93	0.05	71.14
NA13938	ROCK TYPE ALSO FEL-QTZ-BIO SCHIST. LOC 133, GRANULAR AND SPECKLED WITH CHALKY FELDSPAR	NA13938	VA03024450	13.13	0.14	1.54	0.03	4.62	2.75	1.41	0.1	0.48	0.11	73.1
NA13939	ROCK TYPE ALSO QTZ-FEL-BIO SCHIST. LOC 136A, TRENCH, LUCKY JOE, PLANAR-BEDDED SILICEOUS ROCK	NA13939	VA03024450	12.6	0.04	2.88	0.01	4.74	0.79	0.89	0.08	3.37	0.1	73.09

SAMPLE Number	SrO %	TiO2 %	LOI %	TOTAL %
NA13922	0.03	0.45	0.67	99.67
NA13923	0.01	0.25	1.01	99.59
NA13924	0.04	0.41	0.68	99.65
NA13925	0.05	0.41	0.31	99.73
NA13926	0.02	0.74	2.75	99.41
NA13927	0.07	0.8	1.31	99.39
NA13928	0.04	0.4	0.6	100.1
NA13929	0.03	0.28	0.65	99.65
NA13930	0.1	0.39	0.76	99.75
NA13931	0.05	0.34	1.02	99.77
NA13932	0.06	0.14	0.32	99.82
NA13933	-0.01	0.07	0.19	99.57
NA13934	0.02	0.24	0.85	99.43
NA13935	0.04	0.55	0.86	99.67
NA13936	0.03	0.84	3.07	99.32
NA13937	0.04	0.35	0.56	99.51
NA13938	0.07	0.81	1.51	99.8
NA13939	0.05	0.46	0.65	99.76

SAMPLE Number	GEOLOGIST	SAMPLE DATE	UTM EAST	UTM NORTH	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Mineral 1	Mineral 2
NA13940	YOUNG	06/27/2003	570410	7055613	SCH	FEL	QTZ	MUS	WT	MUS	FEX	
NA13941	YOUNG	06/27/2003	569908	7055487	GNE	QTZ	FEL	MUS		MUS		
NA13942	YOUNG	06/27/2003	569679	7057022	SCH	FEL	QTZ	BIO	BF			
NA13943	YOUNG	06/27/2003	571872	7054552	GNE	FEL	QTZ	MUS	WT	MUS		
NA13944	YOUNG	06/27/2003	572042	7054730	GNE	QTZ	FEL	BIO	WT			
NA13945	YOUNG	06/27/2003	571332	7056108	GNE	FEL	QTZ	BIO				
NA13946	YOUNG	06/27/2003	572531	7053186	SCH	QTZ	MUS	FEL	GY	MUS		
NA13947	YOUNG	06/27/2003	572070	7053076	QTZ	QTZ	FEL	MUS	WT			
NA13948	YOUNG	06/27/2003	571104	7052628	GNE	FEL	QTZ	MUS	WT			
NA13949	YOUNG	06/27/2003	571000	7054300	SKP	QPI	GAR	AMP	OL	EPI		
NA13950	YOUNG	06/27/2003	571033	7054939	SCH	FEL	QTZ	BIO	BF			
NA13951	YOUNG	06/27/2003	571033	7055011	SCH	FEL	QTZ		BF			
NA13952	YOUNG	06/27/2003	569798	7055183	SCH	FEL	QTZ	BIO	GY			
NA13953	YOUNG	06/27/2003	573156	7049582	SCH	FEL	QTZ	BIO	BK			
NA13954	YOUNG	06/27/2003	571310	7049278	SCH	QTZ	MUS		GY	MUS	FEX	PYY
NA13955	YOUNG	06/27/2003	576244	7049316	SKR	AMP	GAR	MAG	OL	AMP		
NA13956	YOUNG	06/27/2003	576014	7046538	GNE	QTZ	FEL	HBL	WT			
NA13957	YOUNG	06/27/2003	573657	7046081	GNE	FEL	QTZ	BIO				

SAMPLE Number	NOTES	Sample ID	Certificate	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %
NA13940	ROCK TYPE ALSO FEL-QTZ-BIO SCHIST. LOC 138, LOOKDS LIKE STRONGLY MUSCOVITE-ALTERED TRASHROCK, RUSTY ORANGE WEATHERING	NA13940	VA03024450	16.6	0.06	2.14	0.01	0.84	1.31	0.4	-0.01	3.49	0.02	72.23
NA13941	ROCK TYPE ALSO QTZ-FEL-BIO GNEISS. LOC 140, PROBABLY MODERATELY ALTERED (MUSCOVITE) RODDED TRASH ROCK	NA13941	VA03024450	14.55	0.29	0.74	0.01	1.72	2.93	1.23	-0.01	1.88	0.04	73.92
NA13942	LOC 148, FELDSPAR ROCK WITH STREAKY BIOTITE, PLANAR "BEDS"	NA13942	VA03024450	13.91	0.19	0.88	0.01	1.49	4.68	0.35	0.01	2.62	0.04	74.5
NA13943	LOC 154, AGAIN A MUSCOVITE ALTERED TRASH ROCK WITH QUARTZ EYES/RODS	NA13943	VA03024450	13.41	0.17	0.43	0.01	3.1	3.11	0.55	0.01	2.64	0.05	73.89
NA13944	LOC 155, UNALTERED BIOTITIC TRASH ROCK VARIANT, LACKING QUARTZ EYES/RODS	NA13944	VA03024450	14.27	0.16	2.11	0.01	4.6	2.52	2.35	0.09	3.04	0.05	68.9
NA13945	LOC 162, LIKE NA13944 BUT HAS FEW QUARTZ EYES/RODS	NA13945	VA03024450	14.8	0.09	4.29	0.01	6.15	2.24	2.58	0.11	2.72	0.09	64.6
NA13946	ROCK COLOUR ALSO BRIGHT WHITE. LOC 175, TYPICAL 'FELSIC' SCHIST, DENSE, COULD BE BARITIC	NA13946	VA03024450	13.75	0.19	0.52	0.02	4.87	3.91	0.98	0.02	1.22	0.06	70.95
NA13947	QTZ-FEL-BIO QUARTZ. LOC 180, RESEMBLES STREAKY (BIOTITE) FELDSPAR ROCK, WAS SOME OF THIS HORNBLENDE?	NA13947	VA03024450	15.77	0.27	2.3	-0.01	2.92	3.57	0.69	0.03	2.81	0.09	69.55
NA13948	LOC 191, PELLY GNEISS, MONZONITIC WESTERN FACIES, METAINTRUSIVE	NA13948	VA03024450	16.7	0.09	3.71	0.01	1.46	0.84	0.15	0.03	4	0.07	71.29
NA13949	LOC. 214, DENSE SKARN	NA13949	VA03024450	5.59	-0.01	20.56	0.01	19.41	0.04	2.39	2.41	1.45	0.08	44.27
NA13950	LOC. 217, CHECK FOR RHYOLITIC-LATITIC COMPOSITION	NA13950	VA03024450	15.82	0.21	1.37	0.01	0.58	2.98	-0.01	-0.01	4.53	0.02	73.85
NA13951	LOC 218, COULD BE RHYOLITE OR LATITE PROPHYRY	NA13951	VA03024450	14.7	0.32	1.58	-0.01	0.56	2.1	-0.01	0.01	4.42	0.01	74.56
NA13952	LOC 225, COULD BE MORE QUARTZ-RICH THAN ANTICIPATED, IS THIS RELATED TO 'STREAKY BIOTITE FACIES' OF AMPHIBOLITE?	NA13952	VA03024450	15.93	0.15	2.99	0.01	2.21	1.48	0.78	0.01	3.36	0.13	70.08
NA13953	LOC 251, VERY BIOTITE RICH, CLOSELY FOLIATED ROCK, COULD BE MISIDENTIFIED, IF SO-IT IS AMPHIBOLITIC	NA13953	VA03024450	16.79	0.14	6.36	0.01	8.05	3.29	3.43	0.19	1.94	0.22	56.73
NA13954	ROCK COLOUR ALSO BRIGHT WHITE. LOC 263, LUSTROUS SCHIST, RUSTY; PARALLEL 'LAMINATED' LAYERS	NA13954	VA03024450	3.85	0.02	0.24	0.05	1.48	1.32	0.15	-0.01	0.21	0.26	91.06
NA13955	LOC 269, SKARN, AFTER CARBONATE? VERY DENSE	NA13955	VA03024450	4.23	0.01	16.31	0.01	30.49	0.09	0.97	0.8	0.85	0.06	44.64
NA13956	LOC 299, MAY BE METAINTRUSIVE; BIOTITE MAY BE PRESENT	NA13956	VA03024450	13.34	0.04	3.43	0.02	3.07	0.25	0.25	-0.01	4.14	0.05	74.25
NA13957	ROCK TYPE ALSO FEL-QTZ-MUS GNEISS. LOC 313, CONTAINS QUARTZ EYES BUT A BIT MORE PLANAR-FOLATED THAN TYPICAL TRASH ROCK	NA13957	VA03024450	14.07	0.14	1.79	0.01	2.64	3.94	0.53	0.05	2.71	0.05	73.14

SAMPLE Number	SrO %	TiO2 %	LOI %	TOTAL %
NA13940	0.05	0.2	2.25	99.6
NA13941	0.08	0.37	1.73	99.48
NA13942	0.06	0.2	0.95	99.89
NA13943	0.03	0.23	2	99.61
NA13944	0.04	0.34	0.91	99.4
NA13945	0.04	0.41	1.02	99.15
NA13946	0.02	0.27	2.8	99.59
NA13947	0.03	0.38	1.28	99.69
NA13948	0.1	0.12	0.94	99.52
NA13949	0.02	0.35	1.63	98.2
NA13950	0.07	0.06	0.5	99.94
NA13951	0.1	0.07	0.52	98.93
NA13952	0.08	0.25	1.09	98.56
NA13953	0.02	0.89	1.62	99.67
NA13954	-0.01	0.16	1.02	99.82
NA13955	0.01	0.26	-0.2	98.53
NA13956	0.03	0.26	0.82	99.95
NA13957	0.01	0.19	0.63	99.88

SAMPLE Number	GEOLOGIST	SAMPLE DATE	UTM EAST	UTM NORTH	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Mineral 1	Mineral 2
NA13958	YOUNG	06/27/2003	573470	7045895	SCH	FEL	QTZ	MUS	GY	MUS	FEX	
NA13959	YOUNG	06/27/2003	573895	7052700	SKR	EPI	FEL	MAG	GR	MAG		
NA13960	YOUNG	06/27/2003	573127	7054336	GNE	FEL	QTZ	CHL	WT	CHL		
NA13961	YOUNG	08/14/2003	572865	7045324	SCH	FEL	QTZ		BN	MAG		
NA13962	YOUNG	08/14/2003	573450	7045100	SCH	QTZ	FEL		BN	FOX		
NA13963	YOUNG	08/14/2003	573333	7047876	GNT	FEL	QTZ		WT	MAG		
NA13964	YOUNG	08/14/2003	574007	7053938	SCH	QTZ	FEL	BIO	BK			
NA13965	YOUNG	08/14/2003	575380	7054650	SCH	QTZ	FEL	MUS	PN			
NA13966	YOUNG	08/14/2003	569190	7057654	GNT	QTZ	FEL	BIO	BK			
NA13967	YOUNG	08/14/2003	566948	7055927	SCH	FEL	QTZ	BIO	WT			
NA13968	YOUNG	08/14/2003	579760	7039400	SCH	FEL	QTZ	BIO	WT			
NA13969	YOUNG	08/14/2003	569216	7054286	SCH	FEL	QTZ	BIO				
NA13970	YOUNG	08/14/2003	570718	7050438	SCH	HOR	FEL			FOX		
NA13971	YOUNG	08/14/2003	569969	7048382	SCH	FEL	QTZ	BIO	PN			
NA13972	YOUNG	08/14/2003	571160	7049680	SCH	QTZ	FEL	MUS	WT	MUS		
NA13973	YOUNG	08/14/2003	575500	7049465	QZT	QTZ	FEL	MUS		FOX		
NA13974	YOUNG	08/14/2003	574425	7049713	SCH	FEL	QTZ	BIO	WT			
NA13975	YOUNG	08/14/2003	575034	7047807	SCH	FEL	BIO	QTZ		MAG		
NA13976	YOUNG	08/14/2003	573208	7053031	SCH	QTZ	MUS		WT	MUS		
NA13977	YOUNG	08/14/2003	573357	7053203	SCH	QTZ	FEL	MUS	WT	MUS	PYR	

SAMPLE Number	NOTES	Sample ID	Certificate	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %
NA13958	ROCK COLOUR ALSO BRIGHT WHITE. LOC 315, FORMER BIO-Q-F ROCK WITH QUARTZ EYES HAS UNDERGONE MUSCOVITIC ALTERATION	NA13958	VA03024450	15.29	0.21	0.69	0.02	3.91	5.47	1.01	0.03	0.73	0.05	69.1
NA13959	ROCK TYPE ALSO EPI-FEL-MAG SKARN. LOC 325, MODERATELY DENSE CALC-SILICATE, ALMOST A SKARN	NA13959	VA03024450	15.61	-0.01	16.31	0.01	18.57	0.14	2.63	0.35	0.07	0.07	41.62
NA13960	LOC 338, METAINTRUSIVE ROCK, FORMS BIG BOULDERS	NA13960	VA03024450	17.3	0.05	2.01	-0.01	0.52	0.46	0.04	-0.01	6.42	0.01	72.23
NA13961	LOC. 359, RARE EXAMPLE OF FELSIC ROCK? WITH MAGNETITE.	NA13961	VA03034141	12.01	0.08	1	0.01	3.99	1.87	0.31	0.02	3.28	0.03	75.32
NA13962	LOC. 361, SILICEOUS BWN VOLCANIC-APPEARING ROCK WITH ABUNDANT IRON OXIDE WITH VUGS.	NA13962	VA03034141	5.08	0.02	0.07	0.04	2.88	0.2	0.02	0.05	0.06	0.07	88.55
NA13963	LOC. 398, FELDSPAR-PORPHYRITIC INTRUSIVE WITH MAGNETITE.	NA13963	VA03034141	16.56	0.19	2.5	0.01	1.02	0.97	0.43	-0.01	5.1	0.05	72.01
NA13964	ROCK COLOUR ALSO WHITE. LOC 409, BIOTITIC METAINTRUSIVE WITH QTZ RODS, "EASTERN INTRUSION".	NA13964	VA03034141	14.86	0.11	2.6	0.03	4.62	2.99	2.37	0.14	2.62	0.09	67.73
NA13965	LOC 417, COARSE SALMON QUARTZITE WITH MUSCOVITE PARTINGS.	NA13965	VA03034141	12.38	0.15	0.42	0.01	1.03	1.38	0.07	-0.01	4.59	0.01	77.82
NA13966	RK COLOUR ALSO WHITE. LOC. 432-BIOTITE WITH METAGRANITE WITH CATACLASIZED QTZ.	NA13966	VA03034141	14.2	0.12	3.51	0.04	4.66	3.02	1.38	0.08	2.11	0.09	69.15
NA13967	RK COLOUR ALSO BLACK. LOC 440. FOLIATED INTRUSIVE, 15% BIOTITE.	NA13967	VA03034141	14.29	0.22	2.72	0.02	3.41	1.64	0.8	0.04	3.92	0.08	71.69
NA13968	LOC 477; COARSELY-TEXTURED LAMINAR-FOLIATED INTRUSIVE, LEUCOCRATIC.	NA13968	VA03034141	12.71	0.01	0.66	0.04	1.06	4.72	-0.01	0.03	2.8	0.02	76.99
NA13969	LOC 502, COARSELY MINERAL-BANDED METAINTRUSIVE, 'EASTERN TYPE'.	NA13969	VA03034141	14.21	0.09	2.62	0.01	3.19	1.9	0.76	0.05	3.46	0.08	72.04
NA13970	LOC 524: GOSSANOUS AMPHIBOLITE UNIT	NA13970	VA03034141	13.38	0.03	2.64	0.02	11.66	0.45	4.43	0.17	3.6	0.19	57.69
NA13971	LOC 525. LAMINAR-FOLIATED WITH PINK FELDSPAR AND GRAY QTZ LAYERS.	NA13971	VA03034141	13.71	0.14	1.13	0.02	2.74	2.85	0.54	0.03	3.69	0.06	72.56
NA13972	LOC 544, GOSSANOUS MUSC-FELDSPAR-QTZ SCHIST.	NA13972	VA03034141	14.08	0.14	0.57	0.04	2.34	2.85	0.46	0.01	3.12	0.04	74.11
NA13973	LOC. 590, THE "PYRITE WALL,". MAINLY RUSTY MUSCOVITE QUARTZITE.	NA13973	VA03034141	7.35	0.06	0.46	0.06	3.15	1.97	1.18	0.06	0.34	0.09	83.05
NA13974	LOC 562, A SAMPLE OF LEUCOCRATIC BAND FROM GREATER AMP UNIT.	NA13974	VA03034141	13.21	0.04	4.39	0.05	2.41	0.4	0.49	0.01	3.08	0.05	74.63
NA13975	LOC 613, LAMINAR-FOLIATED FELDSPAR- BIOTITE SCHIST WITH ABUNDANT MAGNETITE.	NA13975	VA03034141	15.5	0.02	4.57	0.01	13.48	0.26	4.27	0.24	4.46	0.28	54.12
NA13976	LOC. 629, SPLENDANT MUSCOVITE-QTZ ROD SCHIST.	NA13976	VA03034141	12.4	0.1	0.9	0.06	3.94	2.08	0.45	-0.01	2.44	0.03	72.99
NA13977	LOC 631, GRANULAR ROCK, POSSIBLY METACLASTIC.	NA13977	VA03034141	13.33	0.12	0.78	0.03	3.58	2.48	0.34	-0.01	3.46	0.05	72.11

SAMPLE Number	SrO %	TiO2 %	LOI %	TOTAL %
NA13958	0.04	0.28	3.05	99.87
NA13959	0.13	0.11	3.56	99.18
NA13960	0.13	0.04	0.31	99.51
NA13961	0.03	0.31	1.08	99.34
NA13962	0.01	0.14	2.67	99.86
NA13963	0.14	0.09	0.5	99.56
NA13964	0.03	0.37	1.33	99.88
NA13965	0.02	0.06	0.46	98.39
NA13966	0.03	0.32	1	99.72
NA13967	0.05	0.38	0.6	99.85
NA13968	0.01	0.05	0.22	99.32
NA13969	0.06	0.39	1.01	99.88
NA13970	0.02	1.57	4.04	99.89
NA13971	0.04	0.3	0.99	98.8
NA13972	0.01	0.23	1.76	99.75
NA13973	0.01	0.42	1.71	99.9
NA13974	0.02	0.26	0.54	99.58
NA13975	0.01	1.66	1.01	99.87
NA13976	0.02	0.29	3.51	99.2
NA13977	0.01	0.25	3.25	99.8

SAMPLE Number	GEOLOGIST	SAMPLE DATE	UTM EAST	UTM NORTH	Rock TYPE	Rock MOD1	Rock MOD2	Rock MOD3	Rock COLOR	Rock ALT	Mineral 1	Mineral 2
NA13978	YOUNG	08/14/2003	573262	7054601	GRD	FEL	QTZ	BIO		CHL	PYR	CPY
NA13979	YOUNG	08/14/2003	575023	7054654	GRD	FEL	QTZ	BIO	PN			
NA13980	YOUNG	08/14/2003	573315	7054659	GRD	FEL	QTZ	BIO		HEM	PYR	CPY
NA13981	YOUNG	08/14/2003	575849	7045653	SCH	FEL	QTZ	BIO	WT			
NA13982	YOUNG	08/14/2003	576878	7046868	SST	QTZ	FEL	BIO	WT			
NA13983	YOUNG	08/14/2003	577203	7046351	SCH	FEL	QTZ	BIO	WT			
NA14599	BOYER	07/31/2003	568620	7057242	AMP	GAR					PYY	CPY
NA16150	FRANKLIN	08/18/2003			SCH	MUS	QTZ		WT	MUS	CPY	PYY
NA16151	FRANKLIN	08/18/2003			SCH	BIO	QTZ	FEL	GY		CPY	PYY
NA16152	FRANKLIN	08/18/2003										
NA16153	FRANKLIN	08/18/2003			SCH	MUS	BIO	QTZ	GY		PYY	
NA16154	FRANKLIN	08/18/2003			SCH	BIO	QTZ		GY		CPY	PYY
NA16155	FRANKLIN	08/18/2003			SCH	MUS	BIO		GY		CPY	PYY
NA16156	FRANKLIN	08/18/2003			SCH	BIO	QTZ	FEL	GY	BIO	CPY	MDL

SAMPLE Number	NOTES	Sample ID	Certificate	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %
NA13978	LOC 664, PROPYLLITICALLY-ALTERED FOLIATED GRANODIORITE WITH MINOR SULFIDES.	NA13978	VA03034141	14.78	0.17	2.06	0.03	4.93	3.72	1.58	0.06	2.62	0.07	67.82
NA13979	LOC 415, SALMON-COLOR METAINTRUSIVE, FRESH	NA13979	VA03034141	12.56	0.05	0.7	0.03	1.09	4.87	0.02	0.01	2.58	0.02	75.95
NA13980	LOC 667, RELATIVELY FRESH BUT MINERALIZED METAINTRUSIVE.	NA13980	VA03034141	12.84	0.08	3.48	0.04	6.12	2.03	2.65	0.11	1.88	0.06	68.15
NA13981	LOC 716, RUN OF MILL LAMINAR-FOLIATED BIO-QTZ FEL ROCK	NA13981	VA03034141	12.86	0.06	2.8	0.02	3.16	0.48	0.18	0.03	4.12	0.04	75.64
NA13982	LOC 759, TYPICAL SALT AND PEPPER METACLASTIC ROCK.	NA13982	VA03034141	12.98	0.28	1.57	0.07	6.25	2.07	3.53	0.06	1.52	0.15	69.02
NA13983	LOC 760A, CLASTIC ROCK THAT PERFECTLY RESEMBLES LAMINAT-FOLIATED IGNEOUS UNIT.	NA13983	VA03034141	14.18	0.13	1.25	0.02	3.05	1.89	0.4	0.02	3.88	0.04	73.49
NA14599		NA14599	VA03034141	15.33	0.04	5.86	0.03	21.85	0.34	3.65	0.41	1.17	0.58	46.3
NA16150	RK COLOR ALSO LIGHT GREY.R1076-4 578. CORE DUMPED ON GROUND WITH CORE BLOCK IN MIDDLE OF PILE (PHOTO).	NA16150	VA03032866	14.43	0.04	1	0.03	3.68	2.89	1.77	0.01	0.92	0.08	72.22
NA16151	RK COLOR ALSO BLACK. SELECT CORE FROM R1076-4 594-614'.	NA16151	VA03032866	15.43	0.05	2.52	0.06	6.17	3.05	5.66	0.04	1.51	0.14	62.46
NA16152	SELECT CORE FROM R1076-5 617-639.	NA16152	VA03032866	14.84	0.17	2.62	0.02	6.59	2.4	3.6	0.03	2.34	0.22	62.25
NA16153	SELECT CORE FROM R1076-5 693-700.	NA16153	VA03032866	15.23	0.17	2.4	0.02	10.2	2.45	4.11	0.04	1.73	0.22	58.16
NA16154	SELECT CORE FROM RI076-1 725-731.	NA16154	VA03032866	14.34	0.38	1.14	0.02	14.79	2.98	4.1	0.03	1.86	0.12	54.03
NA16155	SELECT CORE FROM R1076-1. 589-604	NA16155	VA03032866	16.69	0.07	3.41	0.01	15.98	2.48	3.46	0.1	1.71	0.3	50.75
NA16156	SELECT CORE FROM R1078-1 205-227	NA16156	VA03032866	14.46	0.11	4.14	0.02	8.66	1.71	3.88	0.11	1.77	0.09	61.8

SAMPLE Number	SrO %	TiO2 %	LOI %	TOTAL %
NA13978	0.02	0.32	1.64	99.83
NA13979	-0.01	0.05	0.29	98.22
NA13980	0.04	0.39	1.62	99.49
NA13981	0.04	0.29	0.27	99.98
NA13982	0.01	0.78	1.47	99.76
NA13983	0.01	0.22	0.98	99.56
NA14599	0.01	2.23	1.96	99.75
NA16150	0.01	0.38	2.33	99.78
NA16151	0.02	0.79	1.9	99.77
NA16152	0.02	1.14	2.06	98.3
NA16153	0.02	1.68	2.88	99.3
NA16154	0.02	0.65	3.8	98.28
NA16155	0.01	2.2	2.77	99.93
NA16156	0.02	0.46	1.76	98.99

Appendix E

Stream Sediment Samples and Analytical Results

Kennecott Canada Exploration Inc.
Lucky Joe Project, Yukon Territory
2003 Stream Sediment Samples, Descriptions and Analytical Results

Sample Number	Geologist	Sample Date	Sample Type	NOTES	Certificate	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm
NA10647	HULSTEIN	20030616	SS	STREAM SED. FLOAT IN AREA OF WHITE MASSIVE QTZ -FELDSPAR GNE	VA03023299	3	-0.2	2.13	6	-10	240	0.6	-2	0.34	-0.5	10
NA11996			SS		VA03021117	3	-0.2	1.03	5	-10	140	-0.5	-2	0.61	-0.5	9
NA13031			SS		VA03022745	11	-0.2	1.6	12	-10	380	-0.5	-2	1.02	-0.5	13
NA13112	HULSTEIN	20030621	SS	STREAM SED. -FE, LIMONITE COLORED OXIDE ON STREAM BANK LEFT BY SPRING FRESHET, QTZ. FELD MUSC SCHIST FLOAT	VA03023171	6	-0.2	1.46	8	-10	170	-0.5	2	0.91	0.6	12
NA13741	HULSTEIN	20030724	SS	DOM ROCK TYPE: MASSIVE QTZ-FELDPAR (GNE?), ALSO AMP AND SCH (QTZ-FELD+-MUSC+-BIO)	VA03029279	2	-0.2	1.42	4	-10	140	-0.5	-2	0.56	-0.5	7
NA15164	HULSTEIN	20030725	SS	OR-BN CRSE SAND FINE GRAVEL OF LIMONITE MICACEOUS SCH	VA03029342	11	-0.2	1.1	4	-10	180	-0.5	-2	0.36	-0.5	6
NA15580	HULSTEIN	20030805	SS	SOME LOESS, NOT A VERY GOOD SAMPLE	VA03032533	7	-0.2	1.04	4	-10	300	-0.5	-2	0.8	-0.5	8
NA15613	HULSTEIN	20030810	SS	RK TYPES: QTZ BOULDERS, AND QTZ-FEL-BIO SCHIST, OK SAMPLE	VA03032533	7	0.2	1.31	6	-10	160	-0.5	-2	0.43	-0.5	11
NA15639	HULSTEIN	20030811	SS	GOOD SAMP, COLLECTED JUST BELOW FORK IN CREEK	VA03032533	4	0.4	1.37	5	-10	230	-0.5	-2	0.25	-0.5	8
NA15644	HULSTEIN	20030811	SS	SMALL RIVELET GULLY SED OF QTZ-MUSC SCH PEBBLES	VA03032533	5	-0.2	1.02	2	-10	410	-0.5	-2	0.38	0.5	7
NA15773	HULSTEIN	20030813	SS	FLOAT OF LIM WEATHERING QTZ-FEL-MUSC SCHIST AND WHITE QTZ-FELD-BIO SCHIST. OK SAMPLE. NO LOESS	VA03032867	9	0.3	1.34	3	-10	270	-0.5	-2	0.28	-0.5	5
NA15781	HULSTEIN	20030813	SS	RK FLOAT OF QTZ-MUS SCHIST AND QTZ-BIO-MUS SCHIST	VA03032867	8	-0.2	1.06	5	-10	210	-0.5	-2	0.52	-0.5	7
NA16009	HULSTEIN	20030814	SS	RED BROWN(RUSTY) SEDIMENT. MINOR LOESS AND ORGANICS IN SED.	VA03032867	13	-0.2	1.66	5	-10	280	-0.5	-2	0.29	-0.5	5
NA16031	HULSTEIN	20030815	SS	SMALL CREEK CULTING PERMAFROZEN COLLUVIUM. FLOAT OF QTZ-MUS SCHIST-LIM, WEA AND QTZ PEBBLES, QTZ BIO-MUSC SCHIST AND RARE PIECE OF SCHIST WITH 5%+ LIM AFTER PG.	VA03032867	9	-0.2	1.24	4	-10	240	-0.5	-2	0.54	-0.5	7
NA16032	HULSTEIN	20030815	SS	ROCK TYPES: QTZ-MUSC SCHIST, LIMONITE COLOR WEATHERING. QTZ VEIN PEBBLES.	VA03032867	4	-0.2	1.62	2	-10	340	-0.5	2	0.34	-0.5	7

Kennecott Canada Exploration Inc.
Lucky Joe Project, Yukon Territory
2003 Stream Sediment Samples, Descriptions and Analytical Results

Sample Number	Geologist	Sample Date	Sample Type	NOTES	Certificate	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm
NA10647	HULSTEIN	20030616	SS	STREAM SED. FLOAT IN AREA OF WHITE MASSIVE QTZ -FELDSPAR GNE	VA03023299	3	-0.2	2.13	6	-10	240	0.6	-2	0.34	-0.5	10
NA11996			SS		VA03021117	3	-0.2	1.03	5	-10	140	-0.5	-2	0.61	-0.5	9
NA13031			SS		VA03022745	11	-0.2	1.6	12	-10	380	-0.5	-2	1.02	-0.5	13
NA13112	HULSTEIN	20030621	SS	STREAM SED. -FE, LIMONITE COLORED OXIDE ON STREAM BANK LEFT BY SPRING FRESHET, QTZ. FELD MUSC SCHIST FLOAT	VA03023171	6	-0.2	1.46	8	-10	170	-0.5	2	0.91	0.6	12
NA13741	HULSTEIN	20030724	SS	DOM ROCK TYPE: MASSIVE QTZ-FELDPAR (GNE?), ALSO AMP AND SCH (QTZ-FELD+-MUSC+-BIO)	VA03029279	2	-0.2	1.42	4	-10	140	-0.5	-2	0.56	-0.5	7
NA15164	HULSTEIN	20030725	SS	OR-BN CRSE SAND FINE GRAVEL OF LIMONITE MICACEOUS SCH	VA03029342	11	-0.2	1.1	4	-10	180	-0.5	-2	0.36	-0.5	6
NA15580	HULSTEIN	20030805	SS	SOME LOESS, NOT A VERY GOOD SAMPLE	VA03032533	7	-0.2	1.04	4	-10	300	-0.5	-2	0.8	-0.5	8
NA15613	HULSTEIN	20030810	SS	RK TYPES: QTZ BOULDERS, AND QTZ-FEL-BIO SCHIST, OK SAMPLE	VA03032533	7	0.2	1.31	6	-10	160	-0.5	-2	0.43	-0.5	11
NA15639	HULSTEIN	20030811	SS	GOOD SAMP, COLLECTED JUST BELOW FORK IN CREEK	VA03032533	4	0.4	1.37	5	-10	230	-0.5	-2	0.25	-0.5	8
NA15644	HULSTEIN	20030811	SS	SMALL RIVELET GULLY SED OF QTZ-MUSC SCH PEBBLES	VA03032533	5	-0.2	1.02	2	-10	410	-0.5	-2	0.38	0.5	7
NA15773	HULSTEIN	20030813	SS	FLOAT OF LIM WEATHERING QTZ-FEL-MUSC SCHIST AND WHITE QTZ-FELD-BIO SCHIST. OK SAMPLE. NO LOESS	VA03032867	9	0.3	1.34	3	-10	270	-0.5	-2	0.28	-0.5	5
NA15781	HULSTEIN	20030813	SS	RK FLOAT OF QTZ-MUS SCHIST AND QTZ-BIO-MUS SCHIST	VA03032867	8	-0.2	1.06	5	-10	210	-0.5	-2	0.52	-0.5	7
NA16009	HULSTEIN	20030814	SS	RED BROWN(RUSTY) SEDIMENT. MINOR LOESS AND ORGANICS IN SED.	VA03032867	13	-0.2	1.66	5	-10	280	-0.5	-2	0.29	-0.5	5
NA16031	HULSTEIN	20030815	SS	SMALL CREEK CULTING PERMAFROZEN COLLUVIUM. FLOAT OF QTZ-MUS SCHIST-LIM, WEA AND QTZ PEBBLES, QTZ BIO-MUSC SCHIST AND RARE PIECE OF SCHIST WITH 5%+ LIM AFTER PG.	VA03032867	9	-0.2	1.24	4	-10	240	-0.5	-2	0.54	-0.5	7
NA16032	HULSTEIN	20030815	SS	ROCK TYPES: QTZ-MUSC SCHIST, LIMONITE COLOR WEATHERING. QTZ VEIN PEBBLES.	VA03032867	4	-0.2	1.62	2	-10	340	-0.5	2	0.34	-0.5	7

Appendix F

Soil Sample Descriptions and Analytical Results

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

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA10617	569911	7048597	NAD83, Z 7	HULSTEIN	20030615	BN	QE	0.35	M		B	M	L	G	COL	S	GNE
NA10618	569871	7048789	NAD83, Z 7	HULSTEIN	20030615	BN	QE	0.3	M		B	M	M	M	COL	S	PGM
NA10619	569847	7048993	NAD83, Z 7	HULSTEIN	20030615	BN	QE	0.4	M		B	M	M	M	COL	S	
NA10620	569831	7049190	NAD83, Z 7	HULSTEIN	20030615	BN	QE	0.35	M		B	M	M	M	COL	N	
NA10621	569748	7049374	NAD83, Z 7	HULSTEIN	20030615	BN	QE	0.35	M		B	M	M	M	COL	N	SCH
NA10622	567278	7055405	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.4	M		B	L	M	G	COL	N	QTZ
NA10623	567079	7055420	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.5	M		B	M	M	G	COL	S	SCH
NA10624	566915	7055326	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.5	M		B	M	M	M	COL	S	
NA10625	566729	7055380	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.5	M		B	L	M	M	COL	S	
NA10626	566577	7055245	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.45	M		C	L	L	M	COL	S	SCH
NA10628	566444	7055110	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.55	M		B	L	L	G	BDR	S	SCH
NA10636	567837	7054870	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.4	M		B	L	L	G	BDR	S	SCH
NA10637	567640	7054785	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.5	M		B	M	L	G	COL	P	SCH
NA10638	567451	7054707	NAD83, Z 7	HULSTEIN	20030616	BF	QE	0.4	M		C	L	M	M	COL	S	SCH
NA10639	567281	7054553	NAD83, Z 7	HULSTEIN	20030616	BF	QE	0.4	M		B	L	M	G	COL	S	SCH
NA10640	567112	7054501	NAD83, Z 7	HULSTEIN	20030616	BN	QE	0.5	M		B	L	M	M	COL	P	GNE
NA10641	566912	7054516	NAD83, Z 7	HULSTEIN	20030616	BF	QE	0.6	M		B	L	L	M	COL	S	
NA10642	566721	7054447	NAD83, Z 7	HULSTEIN	20030616	BF	QE	0.5	M		B	M	M	M	COL	P	SCH
NA10643	566521	7054427	NAD83, Z 7	HULSTEIN	20030616	BF	QE	0.65	M		B	M	L	M	COL	S	QTZ
NA10704	566779	7058982	NAD83, Z 7	HULSTEIN	20030617	OR	QE	0.4	M		C	M	L	M	BDR	S	SCH
NA10706	566869	7058793	NAD83, Z 7	HULSTEIN	20030617	OR	QE	0.45	M		C	L	L	M	BDR	N	SCH
NA10707	566803	7058584	NAD83, Z 7	HULSTEIN	20030617	BN	QL	0.5	M		C	L	L	M	BDR	N	SCH
NA10708	566901	7058397	NAD83, Z 7	HULSTEIN	20030617	TA	QE	0.5	M		C	M	L	G	COL	S	SCH
NA10709	566839	7058215	NAD83, Z 7	HULSTEIN	20030617	BN	QL	0.7	M		C	M	L	M	COL	S	AMP
NA10710	566805	7058011	NAD83, Z 7	HULSTEIN	20030617	BN	QE	0.5	M		B	M	M	S	COL	S	QTZ
NA10716	566054	7058725	NAD83, Z 7	HULSTEIN	20030617	BN	QE	0.6	M		BC	L	L	M	COL	N	SCH
NA10717	566110	7058526	NAD83, Z 7	HULSTEIN	20030617	BN	QE	0.9	M		B	L	L	M	COL	N	SCH
NA10718	566338	7058271	NAD83, Z 7	HULSTEIN	20030617	TA	QE	0.55	M		C	L	L	M	BDR	S	SCH
NA10719	566387	7058064	NAD83, Z 7	HULSTEIN	20030617	BN	QE	5	M	0	C	L	L	S	BDR	N	SCH
NA10720	572164	7055247	NAD83, Z 7	HULSTEIN	20030618	TA	QE	0.6	M		C	L	H	F	BDR	N	SCH
NA10721	572293	7055393	NAD83, Z 7	HULSTEIN	20030618	BF	QE	0.25	M		B	M	H	M	COL	S	SCH
NA10722	572410	7055554	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.5	M		C	L	L	G	BDR	S	SCH

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA10617	L	SOME LOESS, FLOAT OF MASSIVE QUARTZ-FELD GNEISS (?)	1	-0.2	1.73	6	-10	180	-0.5	-2	0.4	-0.5	9	25	25	2.79	10	-1	0.14	20	0.65
NA10618	L	LOESS MIXED WITH SANDY SOIL, FLOAT OF MASSIVE WHITE QUARTZ-FELDSPAR BLOCKS	3	-0.2	2.17	6	-10	160	-0.5	-2	0.36	-0.5	11	32	18	2.89	10	-1	0.08	10	0.77
NA10619	L	LOESS AS NA10618	1	-0.2	2.52	8	-10	170	-0.5	-2	0.37	-0.5	13	33	21	3.54	10	-1	0.08	10	0.73
NA10620	M	SANDY SOIL, SOME LOESS(?)	1	-0.2	2.78	4	-10	230	-0.5	-2	0.88	-0.5	16	27	46	4.28	10	-1	0.15	20	1.02
NA10621	M	SOME LOESS AND SANDY SOIL, MIXED WITH SCHIST PEBBLES NEARBY FLOAT OF MASSIVE WHITE WEATHERING QUARTZ-FELDSPAR SCHIST (GNEISS?)	2	-0.2	1.78	5	-10	240	-0.5	-2	0.46	-0.5	11	27	26	2.9	10	-1	0.1	20	0.62
NA10622	M	SANDY ORG-BN SL QTZ-BIOTITE SCH FRAGS	2	-0.2	1.76	12	-10	360	0.6	-2	0.43	-0.5	12	35	33	3.78	10	-1	0.33	30	0.58
NA10623	L	~ FIFTY PERCENT LOESS, QUARTZ AND SCHIST PEBBLES	1	-0.2	3.1	4	-10	520	0.6	-2	0.72	-0.5	19	21	55	4.95	10	1	0.29	20	1.58
NA10624	L	LOESS	4	-0.2	2.48	10	-10	300	0.6	-2	0.42	-0.5	12	36	30	3.57	10	-1	0.08	30	0.74
NA10625	M	SANDY	3	-0.2	2.18	9	-10	320	0.5	-2	0.44	-0.5	11	35	25	3.39	10	-1	0.07	20	0.73
NA10626	M	PEBBLES OF QUARTZ-MUSC SCHIST AND QUARTZ	2	-0.2	1.89	8	-10	210	-0.5	-2	0.4	-0.5	10	29	17	3.13	10	-1	0.14	30	0.65
NA10628	M	SANDY, AS PREVIOUS, LIGHT ORANGE TINGE	2	-0.2	3.22	4	-10	270	-0.5	-2	0.42	-0.5	10	19	15	4.05	10	-1	0.54	30	1.6
NA10636	M	SANDY, W/ QTZ-MUSC AT LZ-LJ-5	1	-0.2	2.66	8	-10	190	0.6	-2	0.41	-0.5	13	22	14	4.45	10	-1	0.94	20	0.88
NA10637	L	MOSTLY LOESS!!!!!!!!! FEW PEBBLES OF QTZ & QTZ MUSC SCH	7	-0.2	3.19	9	-10	380	0.7	-2	0.62	-0.5	17	33	29	5.26	10	-1	0.66	30	1.21
NA10638	M	SANDY SL W/ QTZ-MUSC SCH	2	-0.2	1.9	7	-10	320	-0.5	-2	0.49	-0.5	8	31	23	2.72	10	-1	0.06	20	0.55
NA10639	M	SAMPLE AS PREVIOUS., SLIGHT ORANGE-LIMONITE COLOR TINGE	1	-0.2	2.81	5	-10	180	-0.5	-2	0.33	-0.5	10	21	13	3.79	10	-1	0.31	10	0.85
NA10640	M	FLOAT OF MASSIVE 'BLOCKY' WHITE QTZ - FELDSPAR GNE (SCH?) SANDY SAMPLE 10M FROM RYAN GRID STATION 12220N/200E	1	-0.2	4.15	7	-10	330	0.6	-2	0.21	-0.5	8	21	23	5.44	20	-1	0.51	10	1.01
NA10641	M	SANDY	1	-0.2	3.48	4	-10	750	0.8	-2	1.46	0.7	18	33	70	5.04	10	-1	0.7	20	1.65
NA10642	L	< 50% LOESS PEBBLES OF QTZ & QTZ-BIO SCH	3	-0.2	2.93	6	-10	320	0.9	-2	0.4	-0.5	14	23	27	4.9	20	-1	0.35	10	1.24
NA10643	M	SANDY, QTZ PEBBLES	3	-0.2	2.07	8	-10	290	0.5	-2	0.34	-0.5	9	31	24	3.1	10	-1	0.07	20	0.59
NA10704	M	ORG-BN DECOPOSED MUSC SCH	-1	-0.2	1.42	4	-10	170	-0.5	-2	0.23	-0.5	7	21	32	2.27	-10	-1	0.07	40	0.63
NA10706	M	ORG-BN DECOMPOSED MUSC SCH	-1	-0.2	1.26	4	-10	150	0.5	-2	0.23	-0.5	5	14	40	1.77	-10	-1	0.12	50	0.72
NA10707	M	LT YELLOW-ORG-BN DECOMPOSED MUSC SCH	15	-0.2	1.77	6	-10	380	0.7	-2	0.23	0.6	8	11	221	3.69	10	-1	0.44	70	0.74
NA10708	M		-1	-0.2	1.82	3	-10	350	0.7	-2	0.22	0.5	11	37	55	3.33	10	-1	0.66	30	0.86
NA10709	M	LT&MED BN SL DECOMPOSED MUSC SCH&AMP	3	-0.2	2.19	16	-10	450	0.8	2	1	1.2	14	43	96	4.71	10	-1	0.41	30	0.97
NA10710	M	MINOR LOESS SANDY, QTZ PEBBLES	-1	-0.2	1.52	5	-10	200	-0.5	2	0.48	-0.5	10	26	33	3.02	10	-1	0.15	10	0.74
NA10716	M	DECOPOSED QTZ MUSC-BIO SCH	-1	-0.2	2.39	-2	-10	420	0.6	-2	0.78	0.8	11	9	47	5.59	20	-1	0.49	30	1.1
NA10717	M	DECOMPOSED SCH	1	-0.2	2.36	3	-10	330	0.5	-2	0.97	1	17	42	71	4.08	10	-1	0.18	10	1.02
NA10718	M	DECOMPOSED MUSC-QTZ-SCH	-1	-0.2	1.22	8	-10	150	-0.5	-2	0.39	-0.5	10	22	24	2.3	-10	-1	0.11	20	0.44
NA10719	M	OUTCROP NEARBY (<20M) OF QTZ-MUSC-BIO SCH NO TIME FOR FURTHER EXAMINATION	1	-0.2	4.13	-2	-10	270	0.9	-2	0.86	0.7	31	8	63	9.09	20	-1	0.16	20	2.2
NA10720	M	FLOAT OF BLOCKY QTZ-FELD MUSC SCH	2	-0.2	1.66	6	-10	160	-0.5	2	0.2	-0.5	10	26	52	2.62	10	-1	0.1	20	0.53
NA10721	M	SEASONAL FROST COULD BE PERMAFROST BLOCKY SCHIST UNDER MOSS SOME LOESS IN SAMPLE	3	-0.2	1.84	5	-10	160	-0.5	-2	0.23	-0.5	14	29	29	3.61	10	-1	0.28	10	0.8
NA10722	M	SANDY QUARTZ-BIOTITE SCHIST	2	-0.2	2.28	-2	-10	280	-0.5	2	0.59	1	24	33	54	4.76	10	-1	0.78	20	1.52

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA10617	361	-1	0.02	16	450	9	0.01	-2	5	31	0.15	-10	-10	59	-10	71
NA10618	271	-1	0.01	19	290	7	-0.01	-2	4	36	0.15	-10	-10	70	-10	60
NA10619	421	-1	0.02	20	520	7	-0.01	-2	5	38	0.16	-10	-10	78	-10	65
NA10620	456	-1	0.04	16	780	4	-0.01	-2	8	58	0.22	-10	-10	110	-10	82
NA10621	289	-1	0.02	16	600	6	-0.01	-2	6	32	0.14	-10	-10	68	-10	52
NA10622	340	1	0.02	28	250	11	0.01	-2	10	29	0.11	-10	-10	63	-10	71
NA10623	651	-1	0.02	13	900	8	0.01	-2	7	83	0.18	-10	-10	111	-10	117
NA10624	294	-1	0.02	22	170	10	-0.01	-2	9	40	0.15	-10	-10	74	-10	68
NA10625	338	-1	0.02	21	300	8	-0.01	-2	7	37	0.13	-10	-10	69	-10	61
NA10626	289	-1	0.02	15	370	8	-0.01	-2	5	33	0.12	-10	-10	58	-10	65
NA10628	484	-1	0.01	11	440	5	-0.01	-2	6	77	0.16	-10	-10	61	-10	93
NA10636	589	-1	0.01	14	620	8	0.01	-2	7	28	0.22	-10	-10	70	-10	84
NA10637	670	-1	0.02	21	980	36	0.01	-2	8	57	0.23	-10	-10	98	-10	141
NA10638	243	-1	0.02	19	380	6	-0.01	-2	6	38	0.11	-10	-10	58	-10	50
NA10639	390	-1	0.01	10	930	8	0.01	-2	3	25	0.11	-10	-10	67	-10	122
NA10640	580	-1	0.02	10	260	14	0.01	-2	12	28	0.22	-10	-10	130	-10	166
NA10641	787	1	0.05	17	3740	11	0.01	-2	10	293	0.24	-10	-10	131	-10	122
NA10642	491	-1	0.02	12	400	14	-0.01	-2	9	49	0.15	-10	-10	112	-10	207
NA10643	293	-1	0.02	17	280	11	-0.01	-2	5	31	0.11	-10	-10	66	-10	69
NA10704	161	2	0.01	13	170	9	0.01	-2	5	20	0.1	-10	-10	54	-10	47
NA10706	241	4	0.01	10	220	10	-0.01	-2	4	15	0.09	-10	-10	32	-10	108
NA10707	282	6	0.02	9	430	38	0.26	-2	5	55	0.09	-10	-10	30	-10	153
NA10708	353	1	0.02	30	150	5	-0.01	-2	6	19	0.2	-10	-10	60	-10	83
NA10709	553	2	0.04	34	2570	8	0.01	-2	13	32	0.25	-10	-10	106	-10	132
NA10710	355	-1	0.02	19	650	8	0.01	-2	6	25	0.15	-10	-10	62	-10	69
NA10716	643	-1	0.02	11	2450	6	0.01	-2	20	26	0.12	-10	-10	74	-10	135
NA10717	416	-1	0.05	25	1120	6	0.01	-2	10	52	0.22	-10	-10	104	-10	88
NA10718	226	-1	0.01	17	650	8	0.01	-2	5	20	0.09	-10	-10	48	-10	53
NA10719	913	-1	0.03	11	1570	8	0.01	-2	38	46	0.13	-10	-10	290	-10	168
NA10720	345	1	0.01	17	340	11	0.01	-2	4	17	0.11	-10	-10	52	-10	60
NA10721	474	2	0.01	16	360	9	0.02	-2	4	25	0.17	-10	-10	82	-10	64
NA10722	718	1	0.01	13	1390	7	0.01	-2	6	26	0.21	-10	-10	108	-10	69

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA10723	572589	7055664	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.5	M		C	L	L	F	BDR	S	SCH
NA10724	572605	7055873	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.4	M		C	L	L	M	BDR	S	SCH
NA10726	572579	7056068	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.4	M		C	L	L	G	BDR	N	SCH
NA10727	572650	7056255	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.45	M		B	L	L	G	BDR	S	
NA10728	572657	7056452	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.45	M		B	M	L	S	BDR	S	
NA10729	572590	7056641	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.5	M		B	L	L	G	BDR	N	SCH
NA10730	572583	7056845	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.3	M		B	L	L	F	BDR	N	SCH
NA10731	572524	7057061	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.35	M		B	L	L	M	BDR	N	SCH
NA10732	572444	7057248	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.45	M		B	L	L	M	BDR	S	SCH
NA10733	572364	7057430	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.5	M		B	M	L	M	BDR	S	SCH
NA10734	572304	7057612	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.5	M		B	M	L	S	BDR	N	
NA10735	572266	7057802	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.4	M		B	L	L	M	BDR	N	
NA10736	572363	7057974	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.25	M	0	B	L	M	S	BDR	N	SCH
NA10737	572845	7056307	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.5	M		B	L	L	M	COL	N	SCH
NA10738	573032	7056404	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.4	M		B	L	L	G	BDR	S	SCH
NA10739	573230	7056480	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.25	M		C	L	L	F	BDR	N	SCH
NA10740	573434	7056473	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.35	M		C	L	L	G	BDR	N	
NA10741	573635	7056496	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.65	M		C	L	L	S	BDR	N	SCH
NA10742	573761	7056623	NAD83, Z 7	HULSTEIN	20030618	BN	QE	0.4	M	4	B	M	L	S	COL	N	
NA10743	576650	7048636	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.4	M		C	L	L	G	BDR	N	SCH
NA10744	576697	7048435	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.3	M		C	L	L	G	BDR	N	SCH
NA10745	576775	7048254	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.5	M		B	M	L	G	BDR	N	SCH
NA10746	576780	7048058	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.5	M		C	M	L	G	BDR	N	SCH
NA10747	576820	7047854	NAD83, Z 7	HULSTEIN	20030619	TA	QE	0.6	M		B	M	L	F	BDR	N	SCH
NA10748	576745	7047671	NAD83, Z 7	HULSTEIN	20030619	TA	QE	0.3	M		B	L	L	G	BDR	N	
NA10749	576740	7047479	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.45	M		C	M	L	G	BDR	N	SCH
NA10750	569643	7058092	NAD83, Z 7	FRANKLIN	20030617	BN	QE	0.15	M	2	C	L	H	F	BDR	N	GNE
NA10751	569470	7057987	NAD83, Z 7	FRANKLIN	20030617	BN	QE	0.2	M	1	C	L	M	G	BDR	N	SCH
NA10752	569308	7057870	NAD83, Z 7	FRANKLIN	20030617	BN	QE	0.35	M	1	C	L	H	G	BDR	N	SCH
NA10753	569150	7057736	NAD83, Z 7	FRANKLIN	20030617	BF	QE	0.35	M	1	C	L	M	M	BDR	N	SCH
NA10754	568975	7057732	NAD83, Z 7	FRANKLIN	20030617	GY	QE	0.35	M	2	C	M	M	G	BDR	N	SCH
NA10755	568769	7057684	NAD83, Z 7	FRANKLIN	20030617	OR	QE	0.15	M	2	C	L	L	G	BDR	N	SCH
NA10756	568581	7057623	NAD83, Z 7	FRANKLIN	20030617	BF	QE	0.3	M	5	C	L	M	G	BDR	S	SCH
NA10757	568095	7059284	NAD83, Z 7	FRANKLIN	20030617	OR	QE	0.1	M	3	C	L	L	G	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA10723	H	SANDY QUARTZ-BIOTITE SCHIST	-1	-0.2	2.22	-2	-10	200	0.5	-2	0.47	0.5	15	25	68	3.8	-10	-1	0.38	10	1.12
NA10724	H	SANDY DECOMPOSED QUARTZ-FELD- BIO SCHIST	-1	-0.2	3.69	-2	-10	150	0.8	-2	0.47	1.5	19	35	24	4.5	10	-1	0.65	20	1.98
NA10726	H	SANDY DECOMPOSED QUARTZ-FELD-BIO SCHIST	2	-0.2	3.23	2	-10	210	0.5	-2	0.44	1	24	29	40	4.77	10	-1	0.95	10	1.64
NA10727	M	BC HORIZON JUST BELOW LOESS WITH THIN 2CM ASH BAND--SANDY	1	-0.2	2.04	7	-10	110	-0.5	-2	0.22	1.3	15	31	20	4.08	10	-1	0.46	10	0.95
NA10728	M	AS PREVIOUS-BC HORIZON JUST BELOESS LOESS WITH THIN 2CM ASH BAND SANDY	1	-0.2	3.26	4	-10	180	0.5	-2	0.37	1.9	23	33	33	5.33	10	-1	0.99	10	1.61
NA10729	M	SANDY--QUARTZ-BIOTITE SCHIST	-1	-0.2	1.56	4	-10	120	-0.5	-2	0.34	-0.5	11	23	18	2.61	-10	-1	0.41	10	0.83
NA10730	M	SOME DECOMPOSED QUARTZ-BIOTITE SCHIST SL--SANDY	1	-0.2	2.36	-2	-10	190	0.5	-2	0.65	0.6	16	53	67	3.4	10	-1	0.49	10	1.38
NA10731	M	SOME SCHIST AS PREVIOUS, SANDY	-1	-0.2	3.87	-2	-10	190	0.6	-2	0.44	1.6	21	31	35	5.04	10	-1	0.8	10	1.67
NA10732	M	SOME SANDY QTZ-BIOTITE SCHIST	2	-0.2	2.25	3	-10	170	-0.5	-2	0.51	0.6	16	26	39	3.52	10	-1	0.77	10	1.29
NA10733	H	DARK RED BROWN COLOUR, SANDY, QTZ-BIO SCHIST SOIL, SLIGHTLY MORE CLAY THAN NA10732	-1	-0.2	2.39	2	-10	270	0.6	-2	0.71	1.2	17	26	59	4.43	10	-1	0.78	20	1.26
NA10734	M	RED BROWN COLOR	-1	0.2	2.41	-2	-10	170	-0.5	-2	0.72	0.7	19	23	29	4.56	10	-1	0.91	30	1.64
NA10735	M		-1	-0.2	3.46	4	-10	150	0.7	-2	0.66	1.3	22	33	30	5.35	10	-1	0.53	10	2.15
NA10736	M	SANDY, QTZ-BIO SCHIST SL	1	-0.2	4	2	-10	160	0.6	-2	0.76	1	19	26	45	4.4	10	-1	0.78	10	1.42
NA10737	M	SANDY, DECOMPOSED QTZ-BIOTITE SCHIST	1	-0.2	3.16	-2	-10	210	0.5	2	0.5	1	22	29	43	4.81	10	-1	0.95	10	1.78
NA10738	M	SANDY DECOMPOSED QTZ-BIOTITE SCHIST SOIL	3	-0.2	2.42	2	-10	270	-0.5	-2	0.55	1.3	17	36	41	3.63	10	-1	0.71	10	1.48
NA10739	H	SANDY, DECOMPOSED QTZ-BIOTITE SCHIST SL OVER OUTCROP OF SAME RH3-016	-1	-0.2	3.01	3	-10	170	0.5	-2	0.46	1	18	52	64	3.91	10	-1	0.57	-10	1.66
NA10740	H	SAMPLE SIMILAR TO NA10739	-1	-0.2	2.33	2	-10	170	0.5	-2	0.66	0.9	18	70	62	3.51	10	-1	0.41	10	1.34
NA10741	H	SOME SANDY TEXTURE, DECOMPOSED QTZ-BIOTITE SCHIST SL.	7	-0.2	1.93	2	-10	180	-0.5	-2	0.83	-0.5	14	46	35	3.02	10	-1	0.37	10	1.13
NA10742	M		1	-0.2	1.72	3	-10	170	-0.5	-2	0.37	-0.5	12	34	24	2.84	-10	-1	0.24	10	0.89
NA10743	H	SANDY TEXTURED DECOMPOSED QTZ-BIO SCHIST SL. O.C. OF SAME SEE RH3-018	1	-0.2	3.23	4	-10	230	0.9	-2	0.41	-0.5	17	44	35	5.6	10	-1	0.89	50	1.33
NA10744	H	QTZ. MUSC. BIO SCHIST O.C. NOSE OF RECUMBENT FELD AS AT RH3-018	2	-0.2	2.35	8	-10	340	0.8	-2	0.15	-0.5	15	31	47	4.53	10	-1	0.44	50	0.73
NA10745	H	QTZ BIO MUSC SCHIST ORG.	4	-0.2	2.19	6	-10	310	-0.5	-2	0.47	-0.5	14	35	34	4.07	10	-1	0.59	50	0.92
NA10746	H	RED BRN SANDY TEXTURED QTZ-BIO-MUSC-SCHIST SL, SOME SCHIST AS PEBBLES AND NEARBY FLOAT	2	1.1	3.13	4	-10	220	0.7	-2	0.08	0.7	13	56	522	10.5	10	-1	0.76	50	1.08
NA10747	H	MED-ORANGE-BROWN COLOR, DECOMPOSED QTZ-MUSC-BIO SCHIST	1	-0.2	3.53	3	-10	270	0.8	-2	0.31	-0.5	14	50	38	4.97	10	-1	0.79	30	1.09
NA10748	M	SOME LOESS IN SAMPLE, TAN TO LIGHT ORANGE-BRN COLOR	1	-0.2	2.96	5	-10	280	-0.5	-2	0.43	-0.5	18	17	22	5.11	10	1	0.55	10	1.02
NA10749	H	DECOMPOSED SCHIST SOIL	1	-0.2	3.25	3	-10	530	0.8	-2	0.15	-0.5	9	70	97	5.56	10	-1	0.87	50	1.61
NA10750	H		4	-0.2	3.5	3	-10	390	-0.5	-2	0.69	-0.5	20	27	48	4.73	10	-1	1.09	20	1.81
NA10751	H	SLIGHT ORG HUE BIO-SCH	3	-0.2	3.37	6	-10	230	0.6	-2	0.41	1.5	17	27	63	5.1	10	1	1.19	20	1.8
NA10752	H	BIO-SCH	3	-0.2	3.1	4	-10	290	0.5	-2	0.57	-0.5	16	23	40	4.83	10	-1	1.2	20	1.61
NA10753	H	SLIGHT ORG HUE	2	-0.2	3.06	5	-10	130	0.6	-2	1.05	0.8	14	18	27	4.7	10	-1	0.77	20	1.11
NA10754	H	BIO SCH	13	-0.2	1.98	6	-10	140	-0.5	-2	0.51	-0.5	9	15	14	3.46	10	-1	0.56	30	0.83
NA10755	H	MUS SCH	3	-0.2	1.63	12	-10	180	-0.5	-2	0.27	-0.5	8	23	63	2.71	10	-1	0.31	10	0.74
NA10756	H		5	-0.2	2.59	6	-10	500	0.6	-2	0.88	0.7	18	17	42	5.83	10	1	0.29	20	1.16
NA10757	H	BRIGHT ORG SOIL, CHUNKS OF WHT MICA-RICH SCH W/LIM AFTER ENLFIDES	2	-0.2	2.6	14	-10	120	1.3	-2	0.09	-0.5	16	46	97	5.57	10	-1	0.54	30	1.71

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA10723	530	1	0.01	12	690	11	0.01	-2	4	24	0.12	-10	-10	72	-10	51
NA10724	876	-1	0.01	10	560	19	-0.01	-2	10	38	0.19	-10	-10	98	-10	229
NA10726	1195	-1	0.01	10	1420	5	0.01	-2	4	22	0.28	-10	-10	108	-10	81
NA10727	548	1	0.01	15	660	5	0.01	-2	4	15	0.21	-10	-10	84	-10	62
NA10728	981	1	0.02	14	1170	10	0.01	-2	4	27	0.34	-10	-10	118	-10	82
NA10729	411	-1	0.01	12	710	5	0.01	-2	4	18	0.16	-10	-10	60	-10	54
NA10730	407	-1	0.02	18	1610	5	0.01	-2	4	31	0.28	-10	-10	70	-10	51
NA10731	833	1	0.02	12	460	16	0.01	-2	5	34	0.34	-10	-10	114	-10	114
NA10732	625	1	0.01	11	960	7	0.01	-2	5	26	0.19	-10	-10	85	-10	69
NA10733	774	-1	0.01	14	1740	6	0.01	-2	9	29	0.21	-10	-10	98	-10	63
NA10734	914	-1	0.01	9	1880	4	0.01	-2	7	23	0.25	-10	-10	104	-10	75
NA10735	882	-1	0.01	12	980	5	0.01	-2	5	51	0.45	-10	-10	118	-10	121
NA10736	801	-1	0.01	13	470	8	0.01	-2	5	45	0.28	-10	-10	97	-10	150
NA10737	787	-1	0.02	11	850	4	0.01	-2	7	39	0.29	-10	-10	112	-10	68
NA10738	772	-1	0.02	18	510	13	0.01	-2	6	45	0.25	-10	-10	79	-10	146
NA10739	860	-1	0.02	17	820	24	0.01	-2	4	26	0.33	-10	-10	87	-10	144
NA10740	452	-1	0.02	23	1500	5	0.01	-2	5	27	0.26	-10	-10	77	-10	59
NA10741	410	-1	0.02	22	1580	5	-0.01	-2	7	35	0.22	-10	-10	67	-10	47
NA10742	385	-1	0.02	18	480	8	0.01	-2	4	22	0.17	-10	-10	67	-10	55
NA10743	678	-1	0.02	33	340	7	-0.01	-2	6	105	0.28	-10	-10	46	-10	69
NA10744	271	2	0.01	34	270	14	0.05	-2	4	20	0.15	-10	-10	50	-10	79
NA10745	422	-1	0.02	31	1050	8	0.04	-2	7	34	0.21	-10	-10	56	-10	79
NA10746	295	1	0.02	15	890	12	0.42	-2	8	21	0.16	-10	-10	73	-10	199
NA10747	436	4	0.02	31	210	23	0.01	-2	7	20	0.25	-10	-10	51	-10	123
NA10748	391	-1	0.03	12	730	6	0.01	-2	8	26	0.2	-10	-10	157	-10	89
NA10749	247	4	0.04	28	740	16	0.46	-2	6	97	0.17	-10	-10	104	-10	130
NA10750	774	-1	0.02	14	290	7	0.01	2	5	58	0.25	-10	-10	108	-10	118
NA10751	1025	-1	0.01	12	600	107	0.01	-2	7	32	0.25	-10	-10	116	-10	605
NA10752	863	-1	0.02	14	350	6	0.02	-2	8	36	0.26	-10	-10	105	-10	152
NA10753	753	-1	0.01	10	1100	8	0.01	-2	7	90	0.25	-10	-10	87	-10	95
NA10754	447	-1	0.01	10	920	6	0.01	-2	6	25	0.11	-10	-10	69	-10	50
NA10755	288	1	0.01	17	330	10	0.01	-2	2	19	0.09	-10	-10	44	-10	54
NA10756	679	-1	0.04	17	1390	4	0.01	-2	18	37	0.13	-10	-10	157	-10	124
NA10757	1235	4	0.01	44	340	5	-0.01	-2	13	9	0.1	-10	-10	75	-10	132

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA10759	567923	7059175	NAD83, Z 7	FRANKLIN	20030618	OR	QE	0.25	M	2	C	H	M	G	BDR	N	SCH
NA10760	567787	7059031	NAD83, Z 7	FRANKLIN	20030618	BF	QE	0.25	M	2	C	L	M	M	COL	N	SCH
NA10761	567619	7058907	NAD83, Z 7	FRANKLIN	20030618	GN	QD	0.35	M	1	C	L	L	G	BDR	N	AMP
NA10762	567485	7058755	NAD83, Z 7	FRANKLIN	20030618	OR	QE	0.25	M	1	C	L	M	M	COL	N	AMP
NA10763	567420	7058575	NAD83, Z 7	FRANKLIN	20030618	TA	QE	0.55	M	1	C	M	M	G	COL	N	GNE
NA10764	567283	7058377	NAD83, Z 7	FRANKLIN	20030618	OR	QE	0.45	M	2	C	M	H	G	BDR	S	SCH
NA10765	567169	7058203	NAD83, Z 7	FRANKLIN	20030618	OR	QE	0.25	M	1	C	M	M	G	BDR	N	SCH
NA10766	567055	7058037	NAD83, Z 7	FRANKLIN	20030618	BF	QE	0.2	M	1	C	L	M	G	BDR	N	SCH
NA10767	568222	7059144	NAD83, Z 7	FRANKLIN	20030618	BF	QE	0.2	M	1	C	L	L	G	BDR	N	SCH
NA10768	568209	7058943	NAD83, Z 7	FRANKLIN	20030618	BF	QE	0.3	M	2	C	M	M	M	BDR	N	QZT
NA10769	568167	7058754	NAD83, Z 7	FRANKLIN	20030618	BF	QE	0.2	M	1	C	L	L	M	COL	N	GNE
NA10770	568241	7058570	NAD83, Z 7	FRANKLIN	20030618	OR	QL	0.4	M	1	C	M		G	BDR	N	QZT
NA10771	568324	7058387	NAD83, Z 7	FRANKLIN	20030618	TA	QL	0.2	M	10	C	M	H	F	BDR	S	SCH
NA10772	568576	7058163	NAD83, Z 7	FRANKLIN	20030618	TA	QE	0.2	M	2	C	L	L	G	BDR	N	GNE
NA10773	568535	7058020	NAD83, Z 7	FRANKLIN	20030618	TA	QL	0.25	M	2	C	M	H	G	BDR	N	SCH
NA10774	571100	7046147	NAD83, Z 7	FRANKLIN	20030619	TA	QE	0.3	M	3	C	M	M	G	BDR	N	GNE
NA10775	571565	7045667	NAD83, Z 7	FRANKLIN	20030619	TA	QE	0.3	M	2	C	L	M	F	BDR	N	GNE
NA10776	571413	7045539	NAD83, Z 7	FRANKLIN	20030619	TA	QE	0.15	M	1	C	L	L	G	BDR	N	GNE
NA10777	571274	7045402	NAD83, Z 7	FRANKLIN	20030619	TA	QL	0.15	M	1	C	L	L	G	BDR	N	GNE
NA10778	571111	7045277	NAD83, Z 7	FRANKLIN	20030619	TA	QD	0.1	M	1	C	L	M	F	BDR	N	GNE
NA10779	570946	7045149	NAD83, Z 7	FRANKLIN	20030619	TA	QD	0.2	M	1	C	L	L	G	BDR	N	GNE
NA10780	570743	7045179	NAD83, Z 7	FRANKLIN	20030619	BN	QL	0.15	M	1	C	L	L	G	BDR	N	SCH
NA10781	570544	7045128	NAD83, Z 7	FRANKLIN	20030619	YW	QE	0.35	M	1	C	H	M	G	BDR	N	SCH
NA10782	570329	7045060	NAD83, Z 7	FRANKLIN	20030619	OR	QE	0.25	M	7	C	H	H	F	BDR	S	RHY
NA10796	571992	7044415	NAD83, Z 7	FRANKLIN	20030620	RD	QL	0.2	M	2	C	L	L	G	BDR	N	GNE
NA10797	571944	7044840	NAD83, Z 7	FRANKLIN	20030620	BF	QE	0.15	M	2	C	L	L	G	BDR	N	SCH
NA10798	572188	7044390	NAD83, Z 7	FRANKLIN	20030620	BN	QL	0.2	M	2	B	M	L	G	BDR	N	GNE
NA10799	572379	7044316	NAD83, Z 7	FRANKLIN	20030620	BN	QL	0.45	M	1	B	L	L	G	BDR	N	SCH
NA10800	576777	7047276	NAD83, Z 7	HULSTEIN	20030619	BN	QL	0.75	M		C	L	L	G	BDR	N	SCH
NA10801	576804	7047078	NAD83, Z 7	HULSTEIN	20030619	BN	QL	0.4	M		B	M	L	G	BDR	N	SCH
NA10802	576868	7046890	NAD83, Z 7	HULSTEIN	20030619	TA	QE	0.4	M		C	L	L	G	BDR	N	
NA10804	577017	7046750	NAD83, Z 7	HULSTEIN	20030619	BF	QE	0.5	M		C			F	BDR	N	SCH
NA10805	577114	7046579	NAD83, Z 7	HULSTEIN	20030619	TA	QE	0.3	M		B	L	L	G	BDR	N	SCH
NA10806	577181	7046397	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.4	M		C	L	L	G	BDR	N	SCH
NA10807	577276	7046223	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.5	M		B	L	L	G	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA10759	H	MUS SCH WITH LOC LIM AFTER SULFIDE	3	-0.2	1.27	20	-10	150	0.7	-2	0.17	-0.5	8	14	40	3.11	-10	-1	0.13	20	0.22
~~NA10760~~	H	QUARTZ-MICA SCHIST	2	-0.2	1.84	7	-10	250	0.5	-2	0.65	-0.5	11	37	106	3.82	10	-1	0.35	30	0.91
NA10761	H	SOME ORG SOIL AT 55CM	3	-0.2	2.25	2	-10	390	0.6	-2	1.99	-0.5	22	7	68	5.77	10	-1	0.47	20	1.47
NA10762	H		3	0.2	1.74	4	-10	180	-0.5	-2	0.36	-0.5	8	15	38	3.02	10	-1	0.34	20	0.97
NA10763	M	QTZ-FEL-MUS GNE, SOME LOESS CONTAMINATION	4	-0.2	1.78	6	-10	260	-0.5	-2	0.41	-0.5	9	25	33	2.76	10	-1	0.18	20	0.79
NA10764	M	MICA SCH-SOME LOESS CONTAMINATION TOUGH TO GET SAMPLE, FROZEN	8	-0.2	1.54	15	-10	260	-0.5	4	0.48	-0.5	12	23	231	4.06	-10	-1	0.09	20	0.48
NA10765	H	WHITE MICA SCH, HAS A TALCY FEEL	4	-0.2	1.93	6	-10	290	0.6	-2	0.51	-0.5	11	19	144	4.29	10	-1	0.38	30	1.03
NA10766	H	HAS ORG HUE ESP. AT TOP, POSSIBLE MAGNETITE	6	-0.2	1.59	22	-10	300	0.6	-2	0.33	-0.5	16	26	64	3.71	10	1	0.23	20	0.56
NA10767	H	QTZ-MICA SCH	5	-0.2	1.98	9	-10	270	0.9	-2	0.96	-0.5	9	31	93	3.63	10	1	0.1	30	0.8
NA10768	H	CHIPS OF SUGARY TEXTURED QZT, COULD BE RECRYST. CHERT?	34	-0.2	2.36	11	-10	260	0.8	-2	1.17	-0.5	12	32	94	3.75	10	1	0.49	30	0.7
NA10769	H	QTZ-FEL GNE	5	-0.2	2.3	10	-10	230	-0.5	-2	0.51	-0.5	9	11	11	2.56	10	-1	0.36	20	1.82
NA10770	H	CHUNKS OF BULL QTZ PRESENT	11	-0.2	2.35	10	-10	220	0.6	-2	0.66	-0.5	6	15	20	2.59	10	-1	0.12	30	1.85
NA10771	M		6	-0.2	1.75	9	-10	190	-0.5	-2	0.67	-0.5	6	17	19	2.38	10	-1	0.17	20	0.75
NA10772	H		4	-0.2	1.38	8	-10	180	-0.5	-2	0.21	-0.5	7	21	13	2.55	-10	-1	0.1	10	0.38
NA10773	H	SLIGHT ORG HUE, V. MICACEOUS QUARTZ-MICA-SCH	51	-0.2	1.98	9	-10	940	0.6	4	0.33	1.5	18	5	422	5.16	10	-1	0.56	70	1.27
NA10774	M	V. ROCKY, SOME LOESS CONTAMINATION	6	-0.2	2.44	9	-10	130	0.5	-2	0.15	-0.5	8	29	22	3.2	10	-1	0.08	10	0.59
NA10775	M	VERY ROCKY, SOME LESS CONTAMINATION	3	-0.2	2.36	8	-10	170	0.6	-2	0.33	-0.5	11	25	20	3.4	10	1	0.14	30	0.73
NA10776	H	QTZ-KSP GNE, PINK	1	-0.2	2.36	10	-10	110	0.8	-2	0.27	-0.5	10	22	27	3.64	10	-1	0.2	20	0.68
NA10777	H	GRANITIC GNE. LOTS OF KSP SOIL HAS A PINK HUE	1	-0.2	2.36	4	-10	90	0.6	-2	0.22	-0.5	8	14	37	2.64	10	-1	0.2	10	0.8
NA10778	H		2	-0.2	2.09	7	-10	120	0.7	-2	0.29	-0.5	8	18	17	3.33	10	-1	0.13	20	0.61
NA10779	H	QTZ. FEL. MICA GNE, V. MICACEOUS SOIL	2	-0.2	4.16	4	-10	290	0.7	-2	0.59	-0.5	12	18	71	5.01	10	1	0.31	20	2.09
NA10780	H	ACT-BIO SCH MINOR EPD	-1	-0.2	2.89	6	-10	180	0.7	-2	1.01	0.5	16	32	23	4.91	10	1	0.72	10	2.14
NA10781	H	V. CLAY-RICH, POSSIBLE FAULT ZONE	8	-0.2	1.47	15	10	150	1	-2	0.32	-0.5	9	46	45	2.55	-10	-1	0.16	30	0.37
NA10782	H	V. CLAY-RICH, POSS. FAULT ZONE, ROCK CHIPS LOOK LIKE ALTERED RHY	0	0.3	2.16	42	-10	220	1.6	-2	0.84	0.5	13	40	72	3.99	10	1	0.04	50	0.38
NA10796	H	PUT SAMPLE IN WRONG BAG, THUS THE CHANGE IN ENTRIES	-1	-0.2	1.77	7	-10	70	0.5	-2	0.15	-0.5	6	16	13	2.33	10	-1	0.07	10	0.33
NA10797	H	SOME THIN QTZ CHIPS WITH LIM AFTER SULFIDE	1	-0.2	1.9	10	-10	100	0.5	-2	0.09	-0.5	8	15	21	3.11	10	-1	0.07	10	0.4
NA10798	M	SOME LOESS CONTAMINATION	2	-0.2	1.89	7	-10	120	-0.5	-2	0.21	-0.5	10	24	24	3.06	10	-1	0.15	10	0.52
NA10799	H	DUPE PAIR WITH NA12850	-1	-0.2	2.28	6	-10	230	0.7	-2	0.46	-0.5	11	13	15	3.82	10	-1	0.29	40	1.08
NA10800	H	LIGHT-MED ORANGE-BRWN COLOR SOIL OF DECOMPOSED SCHIST, BURNT AREA	7	-0.2	4.1	-2	-10	610	1.4	-2	0.55	0.8	21	73	124	6.42	10	-1	0.73	60	1.66
NA10801	H	MED TAN-LIMONITE COLOUR, QTZ-BIO-MUSC SCHIST PEBBLES, BURNT AREA	6	-0.2	2.88	14	-10	440	0.5	-2	0.17	-0.5	18	76	43	4.6	10	-1	0.22	20	1.26
NA10802	H	TAN-LIMONITE COLOR, RH3-O19 AND 22-LJ-15 LESS THAN 10 AND LESS THAN 20M AWAY	1	-0.2	2.58	63	-10	290	0.7	-2	0.16	-0.5	23	39	64	4.36	10	-1	0.14	40	0.73
NA10804	H	DECOMPOSED SCHIST SOIL	2	-0.2	2.83	-2	-10	570	0.8	-2	0.19	-0.5	10	44	63	4.78	10	-1	0.64	50	1.3
NA10805	H	ORANGE(LIMINITE) TAN SOIL COLOUR, DECOMPOSED SCHIST SOIL	3	-0.2	4.97	-2	-10	160	1.1	-2	0.09	0.6	15	128	117	8.16	10	-1	1.22	80	2.19
NA10806	H	DECOMPOSED SCHIST SOIL QTZ-FELD-BIO SCHIOST PEBBLES	2	-0.2	3	-2	-10	850	-0.5	-2	0.76	-0.5	17	14	47	6.74	10	-1	0.81	10	1.1
NA10807	H	DECOMPOSED SCHIST SOIL	1	-0.2	2.81	-2	-10	460	-0.5	-2	0.41	-0.5	15	194	24	2.92	10	-1	0.18	20	1.64

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA10759	206	3	0.01	45	870	8	0.01	-2	4	14	0.01	-10	-10	43	-10	164
~~NA10760~~	408	1	0.01	35	3030	9	0.1	-2	5	45	0.1	-10	-10	105	-10	107
NA10761	437	-1	0.07	25	6580	-2	0.01	-2	11	31	0.15	-10	-10	124	-10	69
NA10762	363	-1	0.01	11	430	7	0.01	-2	6	28	0.15	-10	-10	64	-10	97
NA10763	371	-1	0.03	18	240	7	0.01	-2	7	31	0.15	-10	-10	66	-10	74
NA10764	466	5	0.02	19	390	9	0.02	-2	5	32	0.08	-10	-10	54	-10	192
NA10765	234	2	0.02	12	870	4	0.01	-2	5	33	0.12	-10	-10	59	-10	132
NA10766	787	4	0.01	29	740	27	0.01	-2	6	21	0.09	-10	-10	65	-10	100
NA10767	301	7	0.01	32	4880	11	0.04	-2	5	35	0.05	-10	-10	123	-10	112
NA10768	857	1	0.01	47	4200	10	0.01	-2	9	37	0.06	-10	-10	85	-10	94
NA10769	559	-1	0.02	10	530	3	-0.01	-2	14	35	0.13	-10	-10	78	-10	53
NA10770	446	-1	0.02	13	1000	4	0.01	-2	26	26	0.11	-10	-10	118	-10	60
NA10771	309	-1	0.02	14	320	9	0.02	-2	10	50	0.08	-10	-10	53	-10	98
NA10772	305	-1	0.01	15	240	8	0.01	-2	4	22	0.05	-10	-10	48	-10	57
NA10773	599	7	0.02	4	820	67	0.06	-2	11	48	0.05	-10	-10	83	-10	306
NA10774	254	-1	0.01	18	180	8	0.01	-2	5	18	0.11	-10	-10	59	-10	70
NA10775	405	-1	0.01	17	310	33	-0.01	-2	4	45	0.15	-10	-10	55	-10	85
NA10776	411	-1	0.01	17	520	13	0.01	-2	3	30	0.07	-10	-10	51	-10	88
NA10777	497	-1	0.01	7	150	21	-0.01	2	3	21	0.04	-10	-10	31	-10	91
NA10778	356	-1	0.01	11	420	14	0.01	-2	4	29	0.05	-10	-10	50	-10	67
NA10779	546	-1	0.02	14	630	78	0.01	-2	13	133	0.26	-10	-10	153	-10	248
NA10780	597	-1	0.01	16	2300	5	0.01	-2	7	73	0.27	-10	-10	114	-10	171
NA10781	515	2	0.01	57	290	14	-0.01	5	6	22	0.01	-10	-10	30	-10	87
NA10782	728	-1	0.01	67	290	23	0.01	3	14	21	0.06	-10	-10	74	-10	116
NA10796	170	-1	0.01	10	300	10	-0.01	-2	5	13	0.03	-10	-10	36	-10	74
NA10797	372	8	0.01	11	220	10	-0.01	-2	4	9	0.04	-10	-10	47	-10	64
NA10798	343	-1	0.01	15	240	8	0.01	-2	4	17	0.11	-10	-10	53	-10	53
NA10799	613	-1	0.01	10	720	7	-0.01	-2	8	22	0.07	-10	-10	56	-10	68
NA10800	517	1	0.02	78	1060	20	0.23	-2	8	70	0.15	10	-10	78	-10	221
NA10801	416	3	0.02	66	540	8	0.02	-2	6	17	0.12	-10	-10	117	-10	75
NA10802	306	2	0.01	68	600	6	0.01	-2	4	13	0.05	-10	-10	68	-10	52
NA10804	328	1	0.03	27	680	9	0.29	2	5	45	0.13	-10	-10	67	-10	117
NA10805	329	6	0.07	50	1320	11	0.82	-2	8	86	0.24	10	-10	187	-10	121
NA10806	504	-1	0.1	12	750	3	0.32	-2	16	38	0.34	10	-10	243	-10	96
NA10807	253	-1	0.04	37	400	4	-0.01	-2	6	46	0.19	-10	-10	84	-10	52

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA10808	577373	7046038	NAD83, Z 7	HULSTEIN	20030619	TA	QE	0.25	M		B	L	L	M	BDR	N	SCH
NA10809	577355	7045832	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.5	M		C	L	L	M	COL	N	SCH
NA10810	577389	7045666	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.3	M		B	M	L	S	COL	N	SCH
NA10811	577485	7045410	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.25	M		C	L	L	M	BDR	N	SCH
NA10812	577443	7045207	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.35	M		B	M	L	M	BDR	N	SCH
NA10813	577439	7044992	NAD83, Z 7	HULSTEIN	20030619	BF	QE	0.5	M		C	L	L	G	BDR	N	SCH
NA10814	577428	7044789	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.45	M		C	L	L	G	BDR	N	SCH
NA10815	577495	7044609	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.9	M		C	L	L	S	COL	N	SCH
NA10816	577297	7044533	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.5	M		B	M	L	S	COL	N	
NA10817	577125	7044417	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.4	M		B	L	L	M	BDR	N	SCH
NA10818	577071	7044221	NAD83, Z 7	HULSTEIN	20030619	BN	QE	0.4	M		B	L	L	G	BDR	N	SCH
NA10819	577081	7044038	NAD83, Z 7	HULSTEIN	20030619	BN	QL	0.5	M		B	L	L	S	BDR	N	
NA10830	571052	7045054	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.35	M		C	L	L	M	BDR	N	GNE
NA10831	571083	7044849	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.5	M		C	L	L	G	BDR	N	GNE
NA10832	571166	7044652	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.6	M		C	M	L	M	BDR	N	GNE
NA10833	571210	7044455	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.6	M		B	M	L	M	BDR	S	
NA10834	571190	7044260	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.5	M		B	M	M	G	COL	S	
NA10835	571323	7044107	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.6	M		B	M	L	G	COL	S	GNE
NA10836	571424	7043902	NAD83, Z 7	HULSTEIN	20030620	TA	QE	0.6	M		B	L	L	G	BDR	N	GNE
NA10837	571494	7043698	NAD83, Z 7	HULSTEIN	20030620	TA	QE	0.25	M		B	L	L	M	BDR	N	GNE
NA10838	571497	7043493	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.5	M		B	L	L	G	BDR	S	
NA10839	571587	7043313	NAD83, Z 7	HULSTEIN	20030620	BN	QE	0.4	M		B	L	L	S	COL	N	SCH
NA10842	573151	7049628	NAD83, Z 7	HULSTEIN	20030621	TA	QE	0.25	M		B	L	L	F	BDR	N	SCH
NA10843	573118	7049434	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.2	M		B	L	L	G	BDR	N	SCH
NA10844	573094	7049229	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.2	M		B	L	L	G	BDR	N	
NA10845	573034	7049034	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.25	M		B	L	L	G	BDR	N	
NA10846	573020	7048832	NAD83, Z 7	HULSTEIN	20030621	OL	QE	0.35	M		C	L	L	G	BDR	N	AMP
NA10847	573016	7048625	NAD83, Z 7	HULSTEIN	20030621	OL	QE	0.4	M		C	L	L	M	BDR	N	
NA10848	573169	7048482	NAD83, Z 7	HULSTEIN	20030621	OL	QE	0.4	M		C	L	L	G	BDR	N	AMP
NA10849	573241	7048292	NAD83, Z 7	HULSTEIN	20030621	GY	QE	0.2	M		C	L	L	G	BDR	N	AMP
NA10932	575805	7045836	NAD83, Z 7	PRESNELL	20030619	BN		1.5	I	2	C	L	L	F	BDR	N	SCH
NA10933	575688	7046031	NAD83, Z 7	PRESNELL	20030619	BN		3	I	30	C	M	L	F	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA10808	M	ORANGE TAN COLOR, DECOMPOSED SCHIST SOIL, ROCKY!	1	-0.2	2.86	5	-10	250	0.7	-2	0.11	0.7	20	40	78	4.58	10	-1	0.5	30	0.8
NA10809	H	DECOMPOSED SCHIST SOIL, WITH ABUNDANT MUSC	4	-0.2	3.58	5	-10	260	1.1	-2	0.21	-0.5	24	48	96	5.96	10	-1	1.06	90	1.16
NA10810	M	MINOR LOESS MIXED WITH DECOMPOSED SCHIST QTZ PEBBLES	3	0.3	2.97	7	-10	230	0.7	-2	0.25	-0.5	15	51	58	4.29	10	-1	0.31	20	1.04
NA10811	H	DECOMPOSED SCHIST SOIL	6	0.3	3.39	3	-10	400	0.6	-2	0.18	-0.5	16	56	23	5.21	10	-1	0.98	20	1.15
NA10812	M	"ROSE" DECOMPOSED SCHIST SOIL, TOUGH SAMPLE SUBCROP OF QTZ-FELD-BIO-MUSC-SCHIST	3	-0.2	3.46	4	-10	390	0.8	-2	0.49	-0.5	18	43	28	4.1	10	-1	0.74	40	0.89
NA10813	H	DECOMPOSED QTZ-BIOTITE-MUSC SCHIST	3	-0.2	3.78	4	-10	430	1.3	-2	0.56	-0.5	15	41	51	5.8	10	-1	1.42	50	0.85
NA10814	H	OUTCROP AND FLOAT OF QTZ-BIOTITE-MUSCOVITE SCHIST AND QTZ BOULDERS	2	-0.2	2.95	-2	-10	410	0.7	-2	0.56	0.5	19	34	24	3.51	10	-1	0.58	30	0.93
NA10815	M	MINOR LOESS MIZED WITH MINOR B HORIZON MOSTLY DECOMPOSED BIOTITE MUSCOVITE SCHIST	6	-0.2	3.09	8	-10	290	0.7	-2	0.72	-0.5	17	46	55	4.59	10	-1	1	110	1.09
NA10816	M	MINOR LOESS MIXED WITH 'B' HORIZON	3	-0.2	2.31	12	-10	180	0.5	-2	0.35	-0.5	14	42	28	3.55	10	-1	0.5	30	0.7
NA10817	H	DECOMPOSED SCHIST SOIL	3	0.6	3.38	4	-10	280	0.7	-2	0.6	0.5	16	71	23	4.15	10	-1	1.06	30	1.3
NA10818	M	MINOR LOESS, DECOMPOSED SCHIST SOIL	4	-0.2	2.61	14	-10	200	1.2	-2	0.74	-0.5	14	60	35	4.15	10	-1	0.14	30	0.79
NA10819	M	MINOR LOESS	2	-0.2	2.69	7	-10	200	0.7	-2	0.63	-0.5	11	24	22	3.23	10	-1	0.51	40	0.61
NA10830	M	SOME LOESS, GRANULAR QTZ-FELD GNE? GRANITE?	1	-0.2	2.21	9	-10	210	-0.5	-2	0.25	-0.5	11	28	18	3.12	10	-1	0.07	10	0.57
NA10831	H	GRANULAR (QTZ-FELD) SOIL	5	-0.2	2.22	12	-10	210	0.6	-2	0.38	-0.5	10	24	23	3.2	10	-1	0.14	10	0.77
NA10832	H	GRANULAR (QTZ-FELD) SOIL, REDDISH BROWN	7	-0.2	2.09	13	-10	110	0.9	-2	0.35	-0.5	10	31	25	3.43	10	-1	0.09	40	0.68
NA10833	M	ORANGE-REDDISH BROWN COLOUR	9	-0.2	2.22	9	-10	180	0.7	-2	0.45	-0.5	11	35	46	3.87	10	-1	0.15	20	0.92
NA10834	M	SOME LOESS, CLAY RICH, RED-BRN AND MED. BROWN COLOUR, FROZEN GROUND, MAY BE PERMAFROST	6	-0.2	2.08	10	-10	200	0.8	-2	0.36	-0.5	12	28	37	3.45	10	-1	0.12	40	0.64
NA10835	L	SOME LOESS, ANGULAR QUARTZ-FELD PEBBLES	4	-0.2	2.18	9	-10	210	0.5	-2	0.23	-0.5	10	27	22	3.2	10	-1	0.11	10	0.6
NA10836	M	SOME LOESS, RIDGE HAS FLOAT OF BLOCKY MASSIVE QUARTZ-FELD GN? SCH?	4	-0.2	1.85	9	-10	150	0.5	-2	0.14	-0.5	10	27	21	2.88	10	-1	0.07	10	0.64
NA10837	M	BLOCKY GROUND, FLOAT OF SAME (AS 10836) QTZ-FELD GNE-SCHIST	5	0.9	1.37	15	-10	310	-0.5	-2	0.29	-0.5	7	20	23	2.4	-10	-1	0.09	10	0.39
NA10838	M		-1	-0.2	2.31	7	-10	210	0.5	-2	0.4	-0.5	12	21	18	3.89	10	-1	0.43	10	1.05
NA10839	M	MINOR LOESS, QTZ-FELDSPAN SCHIST? PEBBLES	27	-0.2	1.78	8	-10	330	0.8	-2	0.53	-0.5	10	20	26	3.03	10	-1	0.27	50	0.52
NA10842	M	MINOR LOESS, QTZ-FELD-BIO SCH FLOAT	2	-0.2	2.65	9	-10	200	-0.5	-2	0.2	-0.5	14	28	19	3.7	10	-1	0.13	10	0.77
NA10843	M	SOME LOESS, SAME N-S STRIKING, GENTLY WITH DRIPPING QTZ-FELD BIO SCH NEARBY	-1	-0.2	2.3	8	-10	230	-0.5	-2	0.31	-0.5	14	64	16	4.01	10	-1	0.09	10	1.1
NA10844	M	MINOR LOESS	-1	-0.2	2.53	6	-10	150	-0.5	-2	0.24	-0.5	16	178	13	3.12	10	-1	0.07	10	1.78
NA10845	M	MINOR LOESS	1	-0.2	2.74	5	-10	170	-0.5	-2	0.37	-0.5	15	26	24	3.69	10	-1	0.17	10	1.36
NA10846	H	DK-GREEN-OLIVE SOIL OF DECOMPOSED AMP (+CHL+BIO+MUSC) SCHIST	-1	-0.2	2.63	6	-10	190	-0.5	-2	0.38	-0.5	14	62	23	3.12	10	-1	0.21	10	1.27
NA10847	M	MINOR LOESS	-1	-0.2	2.22	5	-10	180	-0.5	-2	0.36	-0.5	13	45	23	2.92	10	-1	0.28	10	1.03
NA10848	M	MINOR LOESS, OLIVE AND OLIVE-BROWN SOIL	-1	-0.2	2.96	8	-10	220	-0.5	-2	0.32	-0.5	11	38	59	4.42	10	-1	0.38	10	1.21
NA10849	M	MINOR LOESS, GREY 'SANDY' DECOMPOSED AMP SCHIST AND BROWN LOAMY 'B' WITH LOESS	1	-0.2	1.5	6	-10	170	-0.5	-2	0.37	-0.5	14	22	20	2.77	10	-1	0.06	10	0.38
NA10932	H	QTZ. MUSC. SCHIST	0	-0.2	3.57	7	-10	250	0.5	-2	0.32	-0.5	17	132	118	3.74	10	-1	0.42	10	1.58
NA10933	M	BIOTITE CHLORITE SCHIST	2	-0.2	1.68	8	-10	150	-0.5	-2	0.14	-0.5	9	29	13	2.37	10	-1	0.08	10	0.67

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA10808	392	2	0.01	35	470	10	0.03	-2	4	18	0.21	10	-10	64	-10	205
NA10809	447	4	0.01	62	790	9	0.02	-2	7	13	0.25	-10	-10	62	-10	157
NA10810	441	1	0.01	41	490	18	0.04	-2	5	31	0.2	-10	-10	95	-10	104
NA10811	488	-1	0.02	33	600	7	0.01	-2	6	22	0.36	-10	-10	76	-10	74
NA10812	417	-1	0.02	34	1280	7	0.04	-2	5	38	0.24	-10	-10	59	-10	91
NA10813	531	1	0.02	44	1700	6	0.12	-2	5	178	0.3	10	-10	49	-10	71
NA10814	466	-1	0.02	28	1230	6	0.01	-2	4	44	0.25	-10	-10	53	-10	91
NA10815	339	-1	0.05	41	930	12	0.03	2	6	40	0.24	-10	-10	56	-10	92
NA10816	319	-1	0.02	34	560	9	0.02	-2	7	30	0.18	-10	-10	65	-10	64
NA10817	552	-1	0.02	41	1000	6	0.01	-2	9	36	0.33	-10	-10	82	-10	105
NA10818	692	-1	0.02	35	620	13	0.01	-2	11	39	0.13	-10	-10	68	-10	108
NA10819	491	-1	0.02	29	570	6	0.01	-2	6	46	0.16	10	-10	56	-10	73
NA10830	589	-1	0.01	20	530	12	0.01	-2	3	29	0.09	-10	-10	62	-10	104
NA10831	843	-1	0.01	16	670	25	0.01	-2	4	32	0.07	-10	-10	62	-10	104
NA10832	465	-1	0.01	16	310	10	-0.01	-2	9	38	0.05	-10	-10	60	-10	86
NA10833	413	-1	0.02	27	290	12	0.01	-2	8	36	0.11	-10	-10	66	-10	97
NA10834	331	-1	0.01	20	180	11	-0.01	-2	7	29	0.09	-10	-10	56	-10	67
NA10835	437	-1	0.01	18	320	15	0.01	-2	5	22	0.12	-10	-10	61	-10	74
NA10836	292	-1	0.01	20	220	10	-0.01	-2	5	18	0.08	-10	-10	53	-10	86
NA10837	278	-1	0.01	16	180	21	0.01	2	3	20	0.05	-10	-10	39	-10	48
NA10838	760	-1	0.01	13	820	5	0.01	-2	5	34	0.2	-10	-10	63	-10	96
NA10839	499	1	0.01	12	400	25	0.01	3	4	30	0.04	-10	-10	40	-10	79
NA10842	438	-1	0.01	25	350	8	0.01	-2	4	17	0.16	-10	-10	65	-10	69
NA10843	750	-1	0.02	39	660	5	0.01	-2	4	17	0.17	-10	-10	85	-10	77
NA10844	466	-1	0.02	99	600	7	0.01	-2	3	32	0.17	-10	-10	68	-10	56
NA10845	318	-1	0.03	18	280	4	-0.01	-2	5	32	0.22	-10	-10	81	-10	54
NA10846	352	-1	0.02	30	280	5	-0.01	-2	4	45	0.21	-10	-10	62	-10	45
NA10847	249	-1	0.02	31	270	5	0.01	-2	3	32	0.17	-10	-10	63	-10	40
NA10848	688	-1	0.03	22	950	7	0.01	-2	7	41	0.13	-10	-10	96	-10	68
NA10849	549	-1	0.03	14	1740	4	0.01	-2	4	13	0.08	-10	-10	59	-10	62
NA10932	556	-1	0.02	52	120	2	-0.01	-2	5	34	0.21	-10	-10	64	-10	37
NA10933	161	-1	0.01	27	530	8	0.01	-2	2	14	0.08	-10	-10	60	-10	36

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA10934	575913	7045648	NAD83, Z 7	PRESNELL	20030619	BN		4	I	5	B	M	L	G	BDR	N	QZT
NA10935	575986	7045415	NAD83, Z 7	PRESNELL	20030619	BN	QE	6	I	2	B	L	L	G	BDR	N	SCH
NA10936	576084	7045242	NAD83, Z 7	PRESNELL	20030619	BN	QL	7	I	3	C	L	L	G	BDR	N	SCH
NA10937	576241	7045041	NAD83, Z 7	PRESNELL	20030619	TA	QD	6	I	2	C	L	L	G	BDR	N	SCH
NA10938	576336	7044852	NAD83, Z 7	PRESNELL	20030619	BN	QE	4	I	5	B	L	L	S	BDR	N	SCH
NA10939	576383	7044652	NAD83, Z 7	PRESNELL	20030619	BN	QL	5	I	10	C	M	L	S	BDR	N	SCH
NA10940	576385	7044480	NAD83, Z 7	PRESNELL	20030619	BN	QE	6	I	3	B	L	L	S	BDR	N	AMP
NA10942	576409	7044229	NAD83, Z 7	PRESNELL	20030619	BN		3	I	3	B	L	L	G	BDR	N	AMP
NA10943	575642	7045988	NAD83, Z 7	PRESNELL	20030619	TA	QD	5	I	2	AB	L	L	G	BDR	N	AMP
NA10944	575630	7045760	NAD83, Z 7	PRESNELL	20030619	BN		7	I	3	B	L	L	G	BDR	N	SCH
NA10945	575618	7045636	NAD83, Z 7	PRESNELL	20030619	BN	QL	4	I	4	C	H	L	G	BDR	N	SCH
NA10946	575538	7045427	NAD83, Z 7	PRESNELL	20030619	BN	QL	12	I	5	C	M	L	G	BDR	N	SCH
NA10947	575469	7045198	NAD83, Z 7	PRESNELL	20030620	TA		1	F	4	C	L	L	G	BDR	N	SCH
NA10948	575364	7044989	NAD83, Z 7	PRESNELL	20030620	TA		2	F	2	C	L	L	G	BDR	N	SCH
NA10949	575306	7044779	NAD83, Z 7	PRESNELL	20030620	TA	QD	1.7	F	2	C	L	L	G	BDR	N	SCH
NA12200	573833	7052399	NAD83, Z 7	BOYER	20030611	BN	QD	0.4	M	10	C	M	M	F	BDR	N	SCH
NA12201	573645	7052470	NAD83, Z 7	BOYER	20030611	TA	QD	0.4	M	10	C	M	M	F	BDR	N	SCH
NA12202	573440	7052478	NAD83, Z 7	BOYER	20030611	BN	QL	0.3	M	10	C	M	M	F	BDR	N	SCH
NA12203	573251	7052535	NAD83, Z 7	BOYER	20030611	BN	QL	0.3	M	12	C	M	M	F	BDR	N	SCH
NA12204	573066	7052584	NAD83, Z 7	BOYER	20030611	BN	QE	0.4	M	9	C	M	M	G	BDR	N	
NA12205	572887	7052495	NAD83, Z 7	BOYER	20030611	BN	QE	0.3	M	10	C	M	M	M	BDR	N	
NA12206	572679	7052476	NAD83, Z 7	BOYER	20030611	BN	QE	0.3	M	8	C	M	M	M	BDR	N	SCH
NA12207	572508	7052347	NAD83, Z 7	BOYER	20030611	BN	QE	0.3	M	16	C	M	M	M	BDR	N	GNE
NA12208	572341	7052213	NAD83, Z 7	BOYER	20030611	BN	QD	0.2	M	15	C	M	M	M	BDR	N	GNE
NA12209	572235	7052053	NAD83, Z 7	BOYER	20030611	BN	QE	0.3	M	15	C	M	M	M	BDR	N	
NA12210	572246	7051850	NAD83, Z 7	BOYER	20030611	BN	QD	0.5	M	11	C	M	M	F	BDR	N	
NA12211	572131	7051683	NAD83, Z 7	BOYER	20030611	BN	QE	0.3	M	15	C	M	M	F	BDR	N	
NA12212	572022	7051509	NAD83, Z 7	BOYER	20030611	BN	QE	0.2	M	10	C	M	M	F	BDR	N	
NA12213	571868	7051373	NAD83, Z 7	BOYER	20030611	BN	QE	0.6	M	8	C	L	M	F	BDR	N	
NA12214	571686	7051262	NAD83, Z 7	BOYER	20030611	BN	QE	0.3	M	18	C	M	M	M	BDR		GNE
NA12215	571571	7051096	NAD83, Z 7	BOYER	20030611	BN	QE	0.3	M	20	C	M	M	M	BDR	N	GNE
NA12216	571401	7050997	NAD83, Z 7	BOYER	20030611	BN	QE	0.4	M	15	C	M	M	M	BDR	S	
NA12217	571262	7050851	NAD83, Z 7	BOYER	20030611	BN	QE	0.4	M	14	C	M	M	M	BDR	S	
NA12218	573904	7052540	NAD83, Z 7	BOYER	20030612	BN	QL	0.2	M	20	C	M	M	M	BDR	N	SCH
NA12219	573972	7052737	NAD83, Z 7	BOYER	20030612	GY	QE	0.2	M	25	BC	M	M	M	COL	S	SCH
NA12220	574008	7052917	NAD83, Z 7	BOYER	20030612	BN	QE	0.2	M	20	BC	M	M	M	COL	S	
NA12222	574012	7053091	NAD83, Z 7	BOYER	20030612	BM	QE	0.4	M	15	C	M	M	M	COL	S	
NA12223	573994	7053291	NAD83, Z 7	BOYER	20030612	BN	QE	0.4	M	11	C	M	M	M	COL	N	
NA12224	573971	7053486	NAD83, Z 7	BOYER	20030612	OR		0.3	M	10	C	M	M	F	BDR	N	SCH
NA12225	573995	7053682	NAD83, Z 7	BOYER	20030612	BN	QE	0.4	M	10	C	M	M	F	BDR	N	
NA12226	573968	7053875	NAD83, Z 7	BOYER	20030612	BN	QE	0.4	M	10	C	M	M	M	BDR	N	
NA12227	574036	7054062	NAD83, Z 7	BOYER	20030612	OR	QE	0.5	M	10	C	M	M	M	BDR	S	GNE
NA12228	574129	7054244	NAD83, Z 7	BOYER	20030612	BN	QE	0.4	M	10	C	M	M	F		S	GNE
NA12229	574323	7054303	NAD83, Z 7	BOYER	20030612	BN	QE	0.4	M	10	BC	M		M	BDR	N	
NA12230	574486	7054422	NAD83, Z 7	BOYER	20030612	BN	QE	0.4	M	10	C	M	M	F	BDR	N	

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA10934	H		1	-0.2	1.78	6	-10	210	-0.5	-2	0.31	-0.5	11	24	11	2.4	10	-1	0.07	10	0.38
~~NA10935~~	H	QTZ. BIOTITE SCHIST	3	-0.2	2.07	3	-10	170	-0.5	-2	0.29	-0.5	19	20	14	3.17	10	-1	0.04	10	0.69
NA10936	H	QTZ. BIOTITE SCHIST	2	-0.2	2.12	5	-10	170	-0.5	-2	0.21	-0.5	9	22	14	3.04	10	-1	0.05	10	0.54
NA10937	H	QTZ. SCHIST	1	-0.2	1.74	6	-10	150	-0.5	-2	0.2	-0.5	7	17	14	3.05	10	-1	0.16	10	0.56
NA10938	H	QTZ. SCHIST	2	-0.2	1.49	6	-10	160	-0.5	-2	0.24	-0.5	8	20	12	2.56	10	-1	0.09	20	0.46
NA10939	H	QUARTZ. MUSC. SCHIST	2	0.3	1.14	7	-10	230	-0.5	-2	0.21	-0.5	6	20	16	2.64	-10	-1	0.13	20	0.35
NA10940	H		7	-0.2	1.4	3	-10	770	-0.5	-2	0.42	-0.5	11	26	12	2.58	-10	-1	0.18	10	0.49
NA10942	H		12	-0.2	1.89	4	-10	360	-0.5	-2	0.56	-0.5	12	24	162	3.49	10	-1	0.29	20	0.77
NA10943	H		2	-0.2	2.11	10	-10	150	-0.5	-2	0.19	-0.5	11	31	14	3.62	10	-1	0.07	10	0.53
NA10944	H	BIOTITE QTZ. SCHIST	3	-0.2	1.91	6	-10	220	-0.5	-2	0.25	-0.5	10	28	12	3.11	10	-1	0.07	10	0.55
NA10945	H	BIOTITE QTZ. SCHIST	3	-0.2	2.18	8	-10	260	-0.5	-2	0.27	-0.5	12	30	17	3.22	10	-1	0.05	10	0.63
NA10946	H	QTZ MUSC. SCHIST	2	-0.2	1.9	5	-10	220	-0.5	-2	0.22	-0.5	9	38	20	3.16	10	-1	0.11	10	0.73
NA10947	H	QTZ. MUSC. SCHIST	1	-0.2	1.53	12	-10	200	-0.5	-2	0.23	-0.5	8	26	28	2.75	10	-1	0.07	10	0.49
NA10948	H	QTZ. MUSC. SCHIST,	1	-0.2	2.39	3	-10	1670	0.5	-2	0.25	0.6	14	37	34	4.12	10	-1	0.75	40	1.15
NA10949	H	QTZ. MUSCOVITE SCHIST	3	-0.2	1.71	4	-10	520	-0.5	-2	0.3	-0.5	10	32	39	3.72	10	-1	0.57	30	0.89
NA12200	H		3	0.2	1.72	10	-10	230	-0.5	-2	0.21	-0.5	10	28	32	2.93	-10	-1	0.11	20	0.52
NA12201	H		2	-0.2	2.28	10	-10	190	-0.5	-2	0.12	-0.5	12	32	18	3.29	10	-1	0.06	10	0.45
NA12202	H		-1	0.3	2.67	5	-10	610	-0.5	-2	0.24	-0.5	40	372	301	6.13	10	-1	0.24	10	2.29
NA12203	H		4	-0.2	2.33	9	-10	320	0.5	-2	0.11	-0.5	14	36	30	3.31	10	-1	0.09	20	0.57
NA12204	H		3	-0.2	1.86	7	-10	270	0.5	-2	0.16	-0.5	9	30	27	2.77	10	-1	0.04	70	0.43
NA12205	H		-1	-0.2	2.64	-2	-10	160	0.8	-2	0.28	-0.5	24	36	66	2.77	-10	-1	0.19	10	1.52
NA12206	H		1	-0.2	2.79	8	-10	240	0.7	-2	0.22	-0.5	19	38	54	3.97	10	-1	0.41	40	1.05
NA12207	H		1	0.3	2.62	10	-10	170	-0.5	2	0.17	-0.5	15	25	27	4.1	10	-1	0.07	10	0.69
NA12208	H		2	-0.2	2.94	9	-10	170	-0.5	-2	0.09	-0.5	8	14	9	5.82	20	-1	0.23	10	0.67
NA12209	M		-1	-0.2	2.35	7	-10	180	-0.5	-2	0.18	-0.5	14	40	25	3.44	10	-1	0.11	10	0.95
NA12210	M		-1	-0.2	2.91	-2	-10	210	0.5	-2	0.68	-0.5	26	107	9	5.18	10	-1	0.3	-10	2.01
NA12211	H		2	-0.2	2.27	4	-10	130	-0.5	2	0.42	-0.5	9	17	15	2.96	10	-1	0.06	-10	0.5
NA12212	M		1	-0.2	2.89	-2	-10	170	-0.5	-2	0.36	-0.5	18	26	24	4.08	10	-1	0.08	10	1.29
NA12213	M		-1	-0.2	4.45	-2	-10	380	0.6	-2	1.84	-0.5	10	18	25	3.06	10	-1	0.58	10	1.18
NA12214	H		-1	-0.2	2.09	6	-10	170	-0.5	-2	0.45	-0.5	15	26	31	3.31	10	-1	0.05	-10	0.56
NA12215	M		-1	0.2	1.96	4	-10	340	-0.5	-2	0.49	-0.5	15	18	30	3.29	10	-1	0.2	-10	0.65
NA12216	M		1	-0.2	1.58	5	-10	200	-0.5	-2	0.28	-0.5	9	25	21	2.4	-10	-1	0.03	10	0.44
NA12217	M		-1	-0.2	2.12	3	-10	110	-0.5	-2	0.9	-0.5	16	44	27	3.36	10	-1	0.06	10	0.97
NA12218	M		1	-0.2	2.37	2	-10	1050	0.5	-2	0.18	0.5	28	100	50	4.57	10	-1	0.31	10	1
NA12219	L	DRT-SCH F-SF E-COL S-M	2	0.4	1	2	-10	450	-0.5	-2	0.13	0.5	7	25	47	1.82	-10	-1	0.12	20	0.29
NA12220	M		3	0.2	1.76	5	-10	170	-0.5	-2	0.21	-0.5	11	31	48	2.72	10	-1	0.27	40	0.67
NA12222	M		3	-0.2	1.86	4	-10	100	-0.5	-2	0.18	-0.5	17	25	17	3.5	10	-1	0.4	10	0.8
NA12223	H		1	-0.2	2.19	8	-10	110	-0.5	2	0.11	-0.5	13	21	151	3.93	10	-1	0.25	10	0.71
NA12224	M		1	-0.2	2.27	2	-10	180	-0.5	-2	0.24	-0.5	19	27	25	4.08	10	-1	0.57	10	1.02
NA12225	H		-1	-0.2	3.19	2	-10	240	0.6	-2	0.91	-0.5	19	14	68	3.92	10	-1	0.97	10	1.48
NA12226	M		-1	0.4	3.1	-2	-10	100	0.5	-2	0.47	-0.5	19	14	64	4.67	10	-1	0.46	10	1.36
NA12227	M		1	-0.2	2.71	2	-10	200	0.5	-2	0.33	-0.5	18	21	64	4	10	-1	0.4	20	1.05
NA12228	H		2	-0.2	3	5	-10	370	-0.5	-2	0.28	-0.5	19	40	69	4.48	10	-1	0.28	10	1.27
NA12229	M		-1	-0.2	1.77	7	-10	210	-0.5	2	0.13	-0.5	10	28	18	2.86	-10	-1	0.06	10	0.46
NA12230	M		-1	-0.2	2.89	10	-10	190	-0.5	-2	0.23	-0.5	19	35	62	4.29	10	-1	0.72	10	1.38

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA10934	825	1	0.01	15	470	7	0.01	-2	3	23	0.08	-10	-10	57	-10	45
~~NA10935~~	361	1	0.02	14	620	6	0.01	-2	3	25	0.07	-10	-10	80	-10	57
NA10936	362	1	0.01	13	210	6	-0.01	-2	5	21	0.1	-10	-10	54	-10	80
NA10937	371	-1	0.01	12	260	5	0.01	-2	5	14	0.15	-10	-10	61	-10	49
NA10938	254	-1	0.01	13	180	4	0.01	-2	4	19	0.11	-10	-10	52	-10	37
NA10939	160	1	0.02	12	560	16	0.12	-2	3	34	0.09	-10	-10	52	-10	37
NA10940	590	-1	0.03	17	230	8	0.01	-2	3	28	0.11	-10	-10	56	-10	44
NA10942	386	-1	0.04	18	440	5	0.06	-2	7	39	0.17	-10	-10	66	-10	65
NA10943	256	-1	0.01	19	340	7	0.01	-2	3	16	0.12	-10	-10	75	-10	45
NA10944	235	-1	0.02	17	510	7	0.01	-2	3	19	0.11	-10	-10	69	-10	50
NA10945	460	-1	0.01	20	250	6	0.01	-2	4	24	0.09	-10	-10	71	-10	49
NA10946	246	-1	0.02	19	160	10	0.03	-2	4	37	0.13	-10	-10	68	-10	74
NA10947	253	-1	0.01	17	190	15	0.01	-2	3	21	0.09	-10	-10	55	-10	62
NA10948	440	-1	0.03	25	240	18	0.03	-2	5	43	0.25	-10	-10	47	-10	184
NA10949	361	-1	0.03	21	430	11	0.24	-2	5	37	0.2	-10	-10	59	-10	95
NA12200	355	1	0.01	20	430	12	0.03	2	4	21	0.08	-10	-10	50	-10	63
NA12201	304	1	0.01	22	270	9	0.02	-2	3	13	0.07	-10	-10	58	-10	49
NA12202	301	12	0.01	421	360	12	0.27	-2	2	23	0.17	-10	-10	46	-10	85
NA12203	316	1	0.01	28	270	11	0.01	-2	5	14	0.09	-10	-10	61	-10	59
NA12204	237	1	0.01	18	500	10	0.01	-2	6	17	0.07	-10	-10	53	-10	45
NA12205	954	-1	0.01	45	200	169	0.01	-2	2	24	0.2	-10	-10	29	-10	160
NA12206	282	1	0.01	41	510	32	0.04	2	4	16	0.13	-10	-10	52	-10	96
NA12207	310	1	0.01	17	590	8	0.01	-2	4	12	0.13	-10	-10	112	-10	82
NA12208	684	1	0.01	9	500	7	0.01	-2	16	10	0.29	-10	-10	40	-10	142
NA12209	347	-1	0.01	27	230	7	0.01	-2	3	23	0.15	-10	-10	74	-10	58
NA12210	903	-1	0.02	31	1010	4	-0.01	-2	13	26	0.12	-10	-10	135	-10	59
NA12211	187	-1	0.03	8	640	11	0.01	-2	4	20	0.08	-10	-10	62	-10	48
NA12212	411	-1	0.03	16	350	5	-0.01	-2	5	25	0.22	-10	-10	103	-10	78
NA12213	435	-1	0.03	13	740	11	-0.01	-2	4	138	0.16	-10	-10	69	-10	72
NA12214	358	1	0.02	15	450	10	-0.01	-2	4	33	0.08	-10	-10	81	-10	76
NA12215	660	-1	0.02	12	1050	5	0.01	-2	4	27	0.11	-10	-10	84	-10	67
NA12216	191	-1	0.02	15	200	16	0.01	-2	4	20	0.08	-10	-10	58	-10	41
NA12217	317	-1	0.04	15	1500	7	-0.01	-2	8	66	0.13	-10	-10	89	-10	65
NA12218	553	3	0.02	205	370	10	0.03	-2	3	18	0.13	-10	-10	63	-10	79
NA12219	151	2	0.01	26	360	12	0.03	-2	1	14	0.07	-10	-10	38	-10	39
NA12220	243	2	0.01	23	500	20	0.03	-2	4	16	0.12	-10	-10	40	-10	89
NA12222	750	1	0.01	14	490	8	0.01	-2	6	12	0.15	-10	-10	76	-10	69
NA12223	475	15	0.01	12	420	9	0.01	-2	4	32	0.16	-10	-10	85	-10	47
NA12224	1000	-1	0.01	11	610	9	0.01	-2	10	13	0.12	-10	-10	100	-10	62
NA12225	704	-1	0.05	7	770	5	0.01	-2	3	41	0.19	-10	-10	82	-10	63
NA12226	724	-1	0.01	6	360	5	0.01	-2	6	19	0.14	-10	-10	104	-10	54
NA12227	603	1	0.02	12	200	10	0.02	-2	5	30	0.11	-10	-10	77	-10	60
NA12228	523	1	0.02	18	300	12	0.01	-2	8	42	0.17	-10	-10	118	-10	134
NA12229	238	1	0.01	13	250	8	0.01	-2	2	12	0.07	-10	-10	62	-10	46
NA12230	740	1	0.01	14	710	5	0.01	-2	4	14	0.19	-10	-10	104	-10	77

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA12231	574649	7054542	NAD83, Z 7	BOYER	20030612	BN		0.3	M	10	C	M	M	F	BDR	S	
NA12232	574851	7054597	NAD83, Z 7	BOYER	20030612	BN	QE	0.4	M	15	C	M	M	M	BDR	N	
NA12233	574933	7054806	NAD83, Z 7	BOYER	20030612			0									
NA12234	575141	7054833	NAD83, Z 7	BOYER	20030612	BN	QE	0.3	M	15	C	M	M	M	COL	N	
NA12235	575322	7054753	NAD83, Z 7	BOYER	20030612	BN	QE	0.2	M	25	BC	M	M	S	COL	N	
NA12236	575464	7054754	NAD83, Z 7	BOYER	20030612	BN	QE	0.2	M	20	B	M	M	S	COL	S	
NA12237	574087	7052622	NAD83, Z 7	BOYER	20030613	BN	QE	0.3	M	15	BC	M	M	M	COL	S	GNE
NA12238	574232	7052757	NAD83, Z 7	BOYER	20030613	BN	QL	0.4	M	10	C	M	M	M	COL	S	
NA12239	574406	7052881	NAD83, Z 7	BOYER	20030613	BN	QL	0.4	M	10	B	M	M	M	COL	S	
NA12240	574572	7052993	NAD83, Z 7	BOYER	20030613	BN		0.3	M	15	C	M	M	M	COL	S	
NA12242	574734	7053119	NAD83, Z 7	BOYER	20030613	BN		0.4	M	10	BC	M	M	M	BDR	S	GNE
NA12243	574845	7053281	NAD83, Z 7	BOYER	20030613	BN		0.5	M	10	C	L	M	M	BDR	S	GNT
NA12244	574963	7053446	NAD83, Z 7	BOYER	20030613	BN	QE	0.4	M	10	C	L	M	F	BDR	S	GNE
NA12245	575115	7053569	NAD83, Z 7	BOYER	20030613	BN	QL	0.4	M	5	C	L	M	G	BDR	S	
NA12246	575224	7053736	NAD83, Z 7	BOYER	20030613	BN	QL	0.2	M	20	C	M	M	M	BDR	S	GNE
NA12247	575305	7053916	NAD83, Z 7	BOYER	20030613	BN	QE	0.4	M	15	C	L	M	G	BDR	S	GNE
NA12248	575425	7054072	NAD83, Z 7	BOYER	20030613	BN	QL	0.4	M	20	BC	M	M	M	BDR	S	GNE
NA12249	575446	7054274	NAD83, Z 7	BOYER	20030613	BN	QE	0.3	M	20	BC	M	M	M	BDR	S	
NA12250	569603	7052905	NAD83, Z 7	FRANKLIN	20030611	GY	QD	0.3	M	2	C	L	M	G	BDR	N	AMP
NA12251	569716	7053065	NAD83, Z 7	FRANKLIN	20030611	GN		0.3	M	5	C	L	H	M	COL	S	AMP
NA12252	569927	7053156	NAD83, Z 7	FRANKLIN	20030611	GY	QD	0.5	M		C	M	M	M	COL	S	AMP
NA12253	569996	7053351	NAD83, Z 7	FRANKLIN	20030611	TA	QL	0.55	M	1	C	M	M	G	BDR	S	GNE
NA12254	570050	7053543	NAD83, Z 7	FRANKLIN	20030611	BN	QE	0.5	M	5	B	H	H	G	COL	S	GNE
NA12255	570077	7053740	NAD83, Z 7	FRANKLIN	20030611	BN	QE	0.2	M	10	B	M	H	M	COL	S	GNE
NA12256	570233	7053867	NAD83, Z 7	FRANKLIN	20030611	TA	QD	0.45	M	2	C	M	H	M	COL	N	GNE
NA12257	570422	7053937	NAD83, Z 7	FRANKLIN	20030611	BN	QD	0.35	M	5	B	M	H	M	COL	S	GNE
NA12258	570582	7054054	NAD83, Z 7	FRANKLIN	20030611	BN	QE	0.3	M	8	B	M	M	M	COL	S	GNE
NA12259	570780	7054104	NAD83, Z 7	FRANKLIN	20030611	TA	QE	0.35	M	2	C	L	L	G	COL	N	SCH
NA12260	570845	7054303	NAD83, Z 7	FRANKLIN	20030611	OR	QL	0.2	M	2	C	M	M	G	BDR	N	SCH
NA12262	570989	7054433	NAD83, Z 7	FRANKLIN	20030611	TA	QE	0.15	M	2	C	M	M	F	BDR	N	SCH
NA12263	571190	7054438	NAD83, Z 7	FRANKLIN	20030611	TA	QE	0.15	M	2	C	M	M	G	BDR	N	GNE
NA12264	571397	7054453	NAD83, Z 7	FRANKLIN	20030611	BN	QE	0.15	M	5	C	M	M	G	BDR	N	AMP
NA12265	571804	7054465	NAD83, Z 7	FRANKLIN	20030611	TA	QD	0.2	M	10	C	M	H	G	BDR	N	SCH
NA12266	571953	7053907	NAD83, Z 7	FRANKLIN	20030612	TA	QD	0.3	M	2	C	M	H	G	BDR	N	SCH
NA12267	572157	7053910	NAD83, Z 7	FRANKLIN	20030612	BN	QL	0.2	M	5	C	M	M	M	BDR	N	GNE
NA12268	572324	7054032	NAD83, Z 7	FRANKLIN	20030612	BN	QE	0.2	M	5	C	M	M	M	BDR	N	GNE
NA12269	572492	7054144	NAD83, Z 7	FRANKLIN	20030612	TA	QL	0.2	M	5	C	M	M	M	BDR	S	GNE
NA12270	572637	7054289	NAD83, Z 7	FRANKLIN	20030612	TA	QE	0.25	M	2	C	M	M	G	BDR	N	SCH
NA12271	572848	7054298	NAD83, Z 7	FRANKLIN	20030612	OR	QL	0.45	M	1	C	M	M	G	BDR	N	SCH
NA12272	573033	7054359	NAD83, Z 7	FRANKLIN	20030612	OR	QL	0.3	M	1	C	L	M		BDR		GNE
NA12273	573445	7055092	NAD83, Z 7	FRANKLIN	20030612	TA	QE	0.35	M	2	C	M	M	G	COL	N	GNE
NA12274	573256	7055159	NAD83, Z 7	FRANKLIN	20030612	BN	QE	0.3	M	5	C	M	M	G	COL	S	GNE
NA12275	573050	7055190	NAD83, Z 7	FRANKLIN	20030612	BN	QD	0.25	M	2	C	L	M	G	BDR	S	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA12231	M		-1	-0.2	2.18	6	-10	140	-0.5	-2	0.19	-0.5	12	29	16	3.3	10	-1	0.14	10	0.69
~~NA12232~~	M		-1	-0.2	2.63	-2	-10	210	0.5	-2	0.47	-0.5	20	24	40	4.41	10	-1	0.56	10	1.39
NA12233	H	NO INFORMATION AVAILABLE	2	-0.2	1.84	7	-10	140	-0.5	-2	0.11	-0.5	8	24	9	2.38	10	-1	0.04	10	0.29
NA12234	M		1	-0.2	1.37	5	-10	110	-0.5	-2	0.12	-0.5	6	20	13	2.35	-10	-1	0.04	20	0.3
NA12235	L		-1	-0.2	0.96	6	-10	140	-0.5	-2	0.09	-0.5	6	16	8	2.12	-10	-1	0.05	10	0.22
NA12236	L		1	-0.2	1.52	5	-10	130	-0.5	-2	0.31	-0.5	11	22	12	2.67	-10	-1	0.15	10	0.6
NA12237	M		3	-0.2	1.82	7	-10	200	-0.5	-2	0.24	0.5	11	42	36	3.01	10	-1	0.16	20	0.7
NA12238	M		1	-0.2	2.44	6	-10	160	-0.5	-2	0.18	1	12	31	31	3.9	10	-1	0.42	20	0.92
NA12239	M		3	-0.2	1.93	7	-10	150	-0.5	2	0.19	-0.5	8	29	25	2.79	10	-1	0.12	20	0.63
NA12240	M		3	-0.2	1.79	8	-10	90	-0.5	-2	0.15	-0.5	8	27	24	2.77	10	-1	0.1	10	0.53
NA12242	M		3	-0.2	1.71	10	-10	100	-0.5	2	0.15	-0.5	8	28	19	3.1	10	-1	0.07	10	0.43
NA12243	H		1	-0.2	3.67	3	-10	390	0.5	-2	1.32	0.7	12	12	71	2.83	10	1	0.52	10	0.9
NA12244	H		1	-0.2	3.31	7	-10	200	0.5	-2	0.71	1.4	22	35	46	4.79	10	-1	0.68	10	1.82
NA12245	H		1	-0.2	3.39	7	-10	200	0.8	-2	0.94	1	18	54	24	3.79	10	-1	0.46	10	1.44
NA12246	M		-1	-0.2	2.34	8	-10	150	-0.5	-2	0.25	0.7	13	38	19	3.41	10	-1	0.16	10	0.7
NA12247	M		1	-0.2	3.27	7	-10	160	0.5	-2	0.32	1.2	19	53	40	4.88	10	-1	0.33	10	1.34
NA12248	M		1	-0.2	2.46	11	-10	110	-0.5	-2	0.22	0.7	12	32	14	4.08	10	-1	0.22	10	0.79
NA12249	M		1	-0.2	2.96	5	-10	190	0.5	-2	0.53	1.1	23	55	39	5.19	10	-1	0.3	20	1.18
NA12250	H		1	-0.2	2.78	4	-10	200	-0.5	-2	0.66	-0.5	18	30	22	3.34	10	-1	0.08	10	1.02
NA12251	H	ROCKY SANDY SOIL PARTIALLY FROZEN	2	-0.2	2.12	4	-10	120	-0.5	-2	0.69	-0.5	19	34	44	2.95	10	-1	0.06	-10	0.72
NA12252	M	ROCKY SOIL - PARTIALLY FROZEN	3	0.2	2.16	7	-10	160	-0.5	-2	0.42	0.5	13	31	33	3.29	10	-1	0.04	10	0.73
NA12253	H	FRAGS. OF QTZ. IN SOIL V. SERICTIC	5	-0.2	1.37	2	-10	240	-0.5	-2	0.67	-0.5	3	5	8	1.02	-10	-1	0.07	-10	0.31
NA12254	L	POOR QUALITY SAMPLE-CHUNKS OF HEM STND ORTHO? GNEISS, V. MICACEOUS	2	-0.2	1.58	5	-10	220	-0.5	-2	0.45	-0.5	7	21	17	2.19	-10	-1	0.05	10	0.46
NA12255	L	FROZEN GROUND-POOR SAMPLE V. ROCKY	8	-0.2	1.69	6	-10	160	-0.5	-2	0.3	-0.5	8	20	10	2.4	10	-1	0.05	10	0.44
NA12256	M	SLIGHT ORG COLOR	-1	-0.2	2	6	-10	220	0.5	-2	0.3	0.8	11	12	120	5.99	10	-1	0.46	-10	0.53
NA12257	M	POOR SAMPLE - FROZEN NO PENETRATION PAST 45CM , V. ROCKY	-1	-0.2	1.57	5	-10	210	0.5	-2	0.36	0.5	8	19	20	3.82	10	-1	0.06	30	0.54
NA12258	M	FROZEN ON PENETRATION PAST 45 CM	-1	-0.2	1.81	5	-10	200	-0.5	-2	0.45	0.8	11	18	20	3.75	10	-1	0.08	10	0.74
NA12259	H	V. MICACEOUS SOIL	12	-0.2	1.95	10	-10	220	0.6	2	0.22	0.9	14	46	51	3.99	10	-1	0.58	50	0.92
NA12260	H	SERICITIC SOIL	2	-0.2	2.09	5	-10	600	1.3	-2	0.21	0.6	14	37	31	4.1	10	-1	0.72	50	0.8
NA12262	H	V. MICACEOUS SOIL	1	-0.2	2.87	2	-10	330	0.6	2	0.07	0.7	10	34	50	5.15	10	-1	0.99	100	0.93
NA12263	H	V. MICACEOUS, SLIGHT ORG HUE	1	-0.2	2.27	7	-10	180	0.8	2	0.16	0.6	13	32	32	3.47	10	-1	0.45	20	0.93
NA12264	M	V. ROCKY, NO PENETRATION PAST 30CM	2	0.2	2.07	4	-10	940	0.5	-2	0.16	0.6	11	44	68	3.39	10	-1	0.27	30	0.88
NA12265	M		17	0.9	1.32	4	-10	320	-0.5	-2	0.09	0.9	8	18	75	4.34	-10	-1	0.27	40	0.4
NA12266	H	BIO SCH	5	-0.2	2.28	7	-10	290	0.6	-2	0.21	-0.5	14	36	27	3.71	10	-1	0.45	30	0.74
NA12267	H	LOTS OF QTZ & KSP? CHUNKS	15	0.3	1.87	4	-10	860	-0.5	2	0.18	-0.5	9	26	41	3.16	10	-1	0.16	20	0.67
NA12268	H	QTZ-FSP GNE, SOME QZT CHIPS	9	-0.2	1.64	5	-10	270	-0.5	-2	0.1	-0.5	7	22	43	4.14	10	-1	0.18	20	0.39
NA12269	H	LOOKS LIKE ORTHOGNE , LOC HM STN	50	0.7	1.37	4	-10	250	-0.5	-2	0.06	-0.5	6	15	218	4.83	10	-1	0.48	20	0.32
NA12270	H	BIO-MUSC SCH, SLIGHT ORG HUE	12	-0.2	3.59	3	-10	320	0.5	-2	0.46	-0.5	14	42	1605	6.35	10	-1	1.18	20	1.68
NA12271	H	V. MICACEOUS, V. FEW ROCK FRAGS	6	0.2	3.36	3	-10	140	-0.5	-2	0.34	-0.5	7	12	536	5.01	10	-1	0.82	20	0.81
NA12272	H	V. MICACEOUS	3	-0.2	2.27	2	-10	360	0.5	2	0.34	-0.5	8	19	174	5.04	10	-1	0.46	30	0.78
NA12273	H		9	-0.2	3.13	-2	-10	860	0.6	-2	0.51	1.7	19	38	294	5.11	10	-1	1.23	10	1.85
NA12274	M		3	-0.2	1.76	4	-10	320	-0.5	-2	0.3	-0.5	12	31	40	2.92	10	-1	0.19	10	0.84
NA12275	H		2	0.4	3.55	-2	-10	400	0.6	2	0.75	-0.5	20	36	41	3.96	10	-1	0.58	10	1.44

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA12231	417	1	0.01	16	490	8	0.01	-2	3	16	0.1	-10	-10	67	-10	78
~~NA12232~~	673	2	0.01	8	910	9	0.01	-2	5	24	0.14	-10	-10	102	-10	55
NA12233	384	1	0.01	11	290	10	0.01	-2	3	11	0.06	-10	-10	55	-10	44
NA12234	487	1	0.01	11	140	9	0.01	-2	3	12	0.06	-10	-10	41	-10	42
NA12235	336	1	0.01	8	190	7	0.01	-2	2	9	0.06	-10	-10	51	-10	32
NA12236	402	1	0.01	14	410	6	0.01	-2	3	17	0.09	-10	-10	57	-10	55
NA12237	296	1	0.01	32	380	23	0.02	-2	4	18	0.15	-10	-10	51	-10	66
NA12238	518	2	0.01	18	350	14	0.01	-2	5	17	0.23	-10	-10	74	-10	86
NA12239	217	-1	0.01	17	270	13	0.01	-2	5	15	0.15	-10	-10	57	-10	53
NA12240	240	1	0.01	12	160	8	-0.01	2	4	14	0.13	-10	-10	69	-10	43
NA12242	267	1	0.01	12	300	9	0.01	-2	3	14	0.14	-10	-10	66	-10	39
NA12243	518	-1	0.11	7	400	6	-0.01	-2	5	62	0.17	-10	-10	56	-10	56
NA12244	858	-1	0.02	18	750	7	0.01	-2	6	40	0.32	-10	-10	108	-10	83
NA12245	583	-1	0.02	23	630	7	-0.01	2	6	37	0.24	-10	-10	73	-10	62
NA12246	430	-1	0.01	16	300	13	0.01	-2	3	18	0.17	-10	-10	74	-10	73
NA12247	464	1	0.02	22	690	8	0.01	-2	3	21	0.33	-10	-10	102	-10	73
NA12248	441	1	0.01	18	350	6	0.01	-2	3	18	0.17	-10	-10	78	-10	62
NA12249	1160	-1	0.01	16	1030	6	0.01	-2	12	26	0.09	-10	-10	112	-10	113
NA12250	306	-1	0.03	20	590	2	-0.01	2	4	63	0.19	-10	-10	81	-10	69
NA12251	451	-1	0.03	16	1220	5	0.01	-2	4	39	0.13	-10	-10	75	-10	96
NA12252	378	-1	0.02	15	530	6	-0.01	-2	5	29	0.12	-10	-10	84	-10	67
NA12253	170	-1	0.02	2	700	5	-0.01	-2	1	132	0.03	-10	-10	17	-10	43
NA12254	236	-1	0.01	11	520	7	-0.01	-2	4	41	0.07	-10	-10	48	-10	52
NA12255	250	-1	0.01	11	620	8	0.01	-2	2	30	0.08	-10	-10	55	-10	52
NA12256	461	1	0.01	6	690	3	0.01	-2	15	15	0.1	-10	-10	38	-10	341
NA12257	432	-1	0.01	10	290	7	-0.01	2	9	21	0.07	-10	-10	55	-10	88
NA12258	362	-1	0.02	10	610	13	0.01	2	6	20	0.1	-10	-10	96	-10	83
NA12259	253	-1	0.01	27	930	17	0.28	-2	4	29	0.1	-10	-10	51	-10	130
NA12260	399	3	0.01	25	280	18	0.01	2	6	14	0.23	-10	-10	44	-10	126
NA12262	262	-1	0.04	14	790	9	0.71	-2	4	30	0.18	-10	-10	43	-10	69
NA12263	350	1	0.01	29	360	9	0.01	2	3	11	0.11	-10	-10	32	-10	41
NA12264	461	-1	0.02	25	370	9	0.01	2	6	14	0.15	-10	-10	66	-10	69
NA12265	273	3	0.02	8	530	17	0.32	-2	4	36	0.06	-10	-10	46	-10	73
NA12266	441	-1	0.01	29	330	11	0.01	-2	6	22	0.19	-10	-10	53	-10	79
NA12267	237	2	0.02	18	320	16	0.08	-2	4	21	0.11	-10	-10	60	-10	69
NA12268	178	2	0.06	12	610	10	0.39	-2	3	26	0.06	-10	-10	47	-10	46
NA12269	158	18	0.12	8	470	87	1.14	-2	3	39	0.05	-10	-10	41	-10	38
NA12270	399	14	0.06	9	740	33	0.96	-2	18	104	0.21	-10	-10	169	-10	130
NA12271	170	1	0.29	3	730	37	1.82	-2	8	262	0.13	-10	-10	81	-10	77
NA12272	217	3	0.14	8	660	9	0.99	-2	10	209	0.14	-10	-10	82	-10	76
NA12273	857	3	0.03	13	900	64	0.01	-2	9	43	0.21	-10	-10	144	-10	456
NA12274	347	-1	0.02	16	180	9	0.01	-2	6	25	0.12	-10	-10	72	-10	80
NA12275	792	1	0.03	10	450	19	0.01	-2	7	43	0.2	-10	-10	104	-10	282

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA12276	572853	7055182	NAD83, Z 7	FRANKLIN	20030612	GY	QD	0.25	M	2	C	L	M	G	BDR	N	GNE
NA12277	572656	7055173	NAD83, Z 7	FRANKLIN	20030612	TA	QE	0.1	M	5	C	M	H	M	BDR	S	GNE
NA12278	572498	7055059	NAD83, Z 7	FRANKLIN	20030612	BN	QD	0.2	M	2	C	L	M	M	COL	N	AMP
NA12279	572299	7055018	NAD83, Z 7	FRANKLIN	20030612	BN	QE	0.1	M	5	C	L	M	G	BDR	N	GNE
NA12280	572236	7054900	NAD83, Z 7	FRANKLIN	20030612	BN	QE	0.2	M	2	C	L	M	M	BDR	N	GNE
NA12282	572416	7054859	NAD83, Z 7	FRANKLIN	20030612	TA	QL	0.3	M	2	C	L	L	M	COL	N	GNE
NA12283	572587	7054819	NAD83, Z 7	FRANKLIN	20030612	BN	QL	0.25	M	1	C	L	L	M	COL	N	GNE
NA12284	572762	7054641	NAD83, Z 7	FRANKLIN	20030612	TA	QE	0.4	M	2	C	L	M	M	COL	N	SCH
NA12285	572974	7054658	NAD83, Z 7	FRANKLIN	20030612	GY	QL	0.25	M	2	C	H	H	G	COL	S	SCH
NA12286	573155	7054580	NAD83, Z 7	FRANKLIN	20030612	OR	QE	0.5	M	2	C	M	H	M	BDR	N	SCH
NA12287	569184	7053367	NAD83, Z 7	FRANKLIN	20030613	BN	QE	0.4	M	2	BC	H	H	G	BDR	N	GNE
NA12288	569277	7053540	NAD83, Z 7	FRANKLIN	20030613	GY	QD	0.2	M	5	C	M	H	G	BDR	N	AMP
NA12289	569338	7053738	NAD83, Z 7	FRANKLIN	20030613	BN	QE	0.2	M	5	C	M	H	G	BDR	S	AMP
NA12290	569406	7053922	NAD83, Z 7	FRANKLIN	20030613	GY	QD	0.25	M	2	C	L	H	M	BDR	S	AMP
NA12291	569469	7054110	NAD83, Z 7	FRANKLIN	20030613	BN	QE	0.25	M	3	C	L	H	G	BDR	S	QTZ
NA12292	569542	7054294	NAD83, Z 7	FRANKLIN	20030613	RD	QL	0.55	M	1	C	L	H	G	COL	S	GNE
NA12293	569460	7054495	NAD83, Z 7	FRANKLIN	20030613	BN	QD	0.3	M	5	C	H	H	M	COL	N	GNE
NA12294	569478	7054705	NAD83, Z 7	FRANKLIN	20030613	TA	QE	0.5	M	1	C	L	M	M	BDR	N	GNE
NA12295	570891	7054584	NAD83, Z 7	FRANKLIN	20030613	TA	QL	0.1	M	1	C	M	M	G	BDR	N	SCH
NA12296	570730	7054702	NAD83, Z 7	FRANKLIN	20030613	OR	QL	0.25	M	1	C	L	M	G	BDR	N	SCH
NA12297	570547	7054666	NAD83, Z 7	FRANKLIN	20030613	TA	QL	0.2	M	1	C	L	M	G	BDR	N	GNE
NA12298	570368	7054669	NAD83, Z 7	FRANKLIN	20030613	TA	QL	0.2	M	1	C	L	M	M	COL	N	GNE
NA12299	570168	7054639	NAD83, Z 7	FRANKLIN	20030613	TA	QE	0.35	M	4	C	M	H	M	COL	N	GNE
NA12300	569962	7054677	NAD83, Z 7	FRANKLIN	20030613	TA	QE	0.5	M	2	C	M	H	G	BDR	N	SCH
NA12301	567626	7052498	NAD83, Z 7	FRANKLIN	20030614	BN	QE	0.15	M	2	C	L	L	F	BDR	N	GNE
NA12302	567776	7052621	NAD83, Z 7	FRANKLIN	20030614	OR	QE	0.25	M	2	C	M	M	G	BDR	N	AMP
NA12303	567908	7052772	NAD83, Z 7	FRANKLIN	20030614	TA	QE	0.2	M	5	C	L	M	G	BDR	N	GNE
NA12304	568065	7052904	NAD83, Z 7	FRANKLIN	20030614	GY	QD	0.25	M	2	C	L	L		BDR	N	AMP
NA12305	568225	7053024	NAD83, Z 7	FRANKLIN	20030614	OR	QL	0.2	M	2	C	L	M	G	BDR	N	SCH
NA12306	568302	7053209	NAD83, Z 7	FRANKLIN	20030614	OR	QL	0.2	M	1	C	L	L	F	BDR	N	SCH
NA12307	568259	7053407	NAD83, Z 7	FRANKLIN	20030614	PN	QL	0.15	M	1	C	H	M	F	BDR	N	GNE
NA12309	568204	7053603	NAD83, Z 7	FRANKLIN	20030614	TA	QL	0.15	M	1	C	L	L	F	BDR	N	QTZ
NA12310	568055	7053752	NAD83, Z 7	FRANKLIN	20030614	TA	QL	0.15	M	2	C	L	L	F	BDR	N	GNE
NA12311	567952	7053932	NAD83, Z 7	FRANKLIN	20030614	BN	QL	0.2	M	1	C	L	L	F	BDR	N	GNE
NA12312	567831	7054096	NAD83, Z 7	FRANKLIN	20030614	GN	QD	0.2	M	1	C	L	M	F	BDR	N	SCH
NA12313	567785	7054323	NAD83, Z 7	FRANKLIN	20030614	TA	QE	0.2	M	2	C	L	M	F	BDR	N	GNE
NA12314	567888	7054501	NAD83, Z 7	FRANKLIN	20030614	RD	QE	0.2	M	1	C	L	M	G	BDR	N	SCH
NA12315	567949	7054702	NAD83, Z 7	FRANKLIN	20030614	RD	QL	0.25	M	1	C	L	M	G	BDR	N	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA12276	H	BIO-GNE	1	-0.2	2.77	-2	-10	710	-0.5	-2	0.34	-0.5	17	31	67	4.46	10	-1	1.24	20	1.52
~~NA12277~~	M		4	-0.2	2.36	4	-10	290	-0.5	-2	0.14	-0.5	13	28	26	3.65	10	-1	0.23	10	0.73
NA12278	H		1	-0.2	3.32	2	-10	330	0.5	-2	0.47	-0.5	35	38	84	6.16	10	-1	0.53	10	1.6
NA12279	H	HRNBLD GNE	-1	0.2	3.48	4	-10	120	0.5	-2	0.2	0.7	18	20	45	5.33	10	-1	0.17	10	1.32
NA12280	H	SLIGHT ORG-RED HUE,LOC HEM STN	1	-0.2	2.88	2	-10	80	0.6	-2	0.24	-0.5	15	15	102	4.46	10	-1	0.18	10	1.24
NA12282	H	SLIGHT YELLOW HUE	-1	-0.2	2.79	-2	-10	160	0.5	-2	0.76	-0.5	12	13	132	3.8	10	-1	0.47	20	1.04
NA12283	H	V.SANDY& MICACEOUS SOIL	-1	-0.2	2.57	4	-10	130	0.5	-2	0.33	0.5	15	18	52	3.94	10	-1	0.69	10	1.15
NA12284	H	SLIGHT ORG HUE	-1	-0.2	2.63	6	-10	380	0.6	-2	0.36	0.7	14	17	484	5.59	10	-1	0.59	20	1.22
NA12285	L	CONTAMINATION FROM MUCK ABOVE C HORRIZ	1	-0.2	1.42	5	-10	260	-0.5	-2	0.38	-0.5	9	25	66	2.5	-10	-1	0.07	10	0.53
NA12286	H		24	0.2	2.57	-2	-10	530	1.2	-2	0.42	1.1	25	13	1660	8.31	10	-1	0.51	20	1.06
NA12287	M	QUARTZ-FSP GNE, B. ROCKY, LOESS CONTAM.	1	-0.2	2.4	9	-10	440	0.5	-2	0.5	-0.5	15	35	34	3.52	10	-1	0.16	10	0.73
NA12288	M	SHALLOW BEDROCK DIFFICULT T O GET SAMPLE DUE TO POOR SOIL DEVELOPMENT SOME LOESS CONTAMINATION	2	-0.2	2.74	5	-10	270	0.5	-2	0.52	-0.5	20	27	37	3.88	10	-1	0.11	10	0.84
NA12289	L	SHALLOW BDRK AND FROZEN, POOR SAMPLE	2	-0.2	2.96	7	-10	240	0.5	-2	0.32	-0.5	18	26	23	4.89	10	-1	0.25	10	0.78
NA12290	H		2	-0.2	2.63	3	-10	180	-0.5	-2	0.94	-0.5	16	18	20	3.64	10	-1	0.15	10	0.78
NA12291	M	NO PENETRATION PAST 40CM FROZEN	-1	-0.2	2.1	6	-10	160	-0.5	-2	0.42	-0.5	13	21	13	3.3	10	1	0.1	10	0.6
NA12292	H	PARTIALLY FROZ. GOOD SAMP. V. GRITTY SOIL W/ DISTINCT RED HUE, MICACEOUS	1	-0.2	2.05	-2	-10	310	-0.5	-2	0.72	-0.5	9	6	11	3.24	10	-1	0.31	10	0.82
NA12293	L	NO PENETRATION PAST 45 CM, POOR SAMPLE	4	-0.2	2.08	7	-10	290	0.5	-2	0.49	-0.5	12	34	33	3.08	10	-1	0.13	20	0.7
NA12294	H	V. GRITTY SOIL	-1	-0.2	2.05	5	-10	210	-0.5	-2	0.42	-0.5	12	9	47	5.91	10	-1	0.37	30	1.12
NA12295	H	MICA SCH, HAS TALCY FEEL	-1	-0.2	2.45	7	-10	240	0.8	-2	0.1	-0.5	28	33	67	5.34	10	-1	0.61	90	0.9
NA12296	H	V. MICACEOUS	1	0.2	3.15	4	-10	60	-0.5	-2	0.26	-0.5	9	9	68	9.09	10	-1	0.92	50	0.88
NA12297	H	LOC HENS STRD QTZ-FSP GNE	2	-0.2	2.49	5	-10	200	-0.5	-2	0.29	-0.5	16	11	17	4.25	10	-1	0.37	20	0.78
NA12298	H	SLIGHT ORG HUE	1	-0.2	2.77	5	-10	470	0.6	-2	0.15	-0.5	14	12	25	4.21	10	1	0.64	30	0.93
NA12299	H	SLIGHT ORG. HUE, V. MICACEOUS	1	-0.2	2.64	6	-10	320	0.5	-2	0.22	-0.5	11	25	24	3.63	10	-1	0.14	30	1.05
NA12300	H	SLIGHT ORG HUE	22	0.3	3.9	6	-10	330	0.6	-2	0.78	-0.5	27	14	471	7.45	10	-1	0.16	10	1.3
NA12301	H	GAR-MUS-QTZ-FEL GNE	4	-0.2	3.26	10	-10	490	-0.5	-2	0.38	-0.5	20	15	32	4.64	10	1	0.32	10	1.13
NA12302	H	MIXTURE OF BK AND OR SOIL, BK IS DOMINANT AT DEPTH, SUBCROP AROUND SAMPLE SITE IS ALL QTZ-FEL GNE BUT SOIL AUGER GOLE IS EXCLUSIVELY AMP	5	0.4	3.5	2	-10	550	0.8	-2	0.79	-0.5	27	31	54	6.18	10	1	0.16	10	1.25
NA12303	H	V. ROCKY, LOC. HEM STN	1	-0.2	1.9	2	-10	90	-0.5	-2	0.12	-0.5	6	10	8	1.74	10	1	0.05	-10	0.3
NA12304	H	ALSO QTZ-FEL GNE PRESENT	5	-0.2	3.52	6	-10	330	0.6	-2	0.75	-0.5	24	26	36	5.26	10	-1	0.18	10	1.23
NA12305	H	BIO SCH, MINOR AMP ALSO PRESENT, DISTINCT ORG HUE TO SOIL	1	-0.2	4.29	3	-10	410	0.9	-2	1.38	-0.5	17	23	46	5	20	-1	0.51	30	1.21
NA12306	H	V. FEW ROCK FRAGS--BIO SCHIST? COULD ALSO BE SOME GNE	5	0.3	3.1	4	-10	250	-0.5	-2	0.59	-0.5	7	13	15	2.42	10	-1	0.16	-10	0.61
NA12307	H	SMALL RK FRAGS OF PLAG-WHT MICA, MINOR BIO, V. CLAY RICH	2	0.2	2.93	2	-10	400	0.6	-2	0.72	-0.5	11	10	24	5	10	-1	0.17	20	0.72
NA12309	H	VERY ROCKY, HARD TO GET SAMPLE	1	0.2	3	4	-10	310	0.5	-2	0.42	-0.5	9	24	23	2.62	10	-1	0.08	10	0.61
NA12310	H	V. ROCKY, LOC. SPEC HM IN QTZ-FEL GNE	6	1.7	5.2	9	-10	900	0.7	-2	1.82	-0.5	16	17	36	3.63	20	-1	0.51	10	1.48
NA12311	H	BIO-QTZ-FEL GNE	2	0.3	4.07	5	-10	550	0.5	-2	0.6	-0.5	25	25	49	5.58	10	-1	0.95	10	1.77
NA12312	H	BIO-SCH	3	0.2	3.92	7	-10	570	0.6	-2	0.77	-0.5	26	13	55	5.37	10	-1	0.88	10	2.11
NA12313	H	VERY ROCKY	37	0.3	3.82	13	-10	320	-0.5	-2	0.43	-0.5	13	14	28	3.62	10	-1	0.15	-10	1.03
NA12314	H	HEM STND QTZ-MICA SCH	11	-0.2	3.18	16	-10	260	0.6	-2	0.36	-0.5	14	14	15	4.25	10	-1	0.38	10	0.91
NA12315	H		3	-0.2	3.13	10	-10	230	0.7	2	0.18	-0.5	12	17	18	4.99	20	1	0.47	20	1.52

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA12276	667	2	0.02	9	710	7	0.16	-2	7	79	0.19	-10	-10	114	-10	104
~~NA12277~~	348	1	0.02	14	300	8	0.13	-2	4	22	0.11	-10	-10	82	-10	55
NA12278	970	2	0.01	15	670	11	0.05	-2	3	45	0.22	-10	-10	122	-10	89
NA12279	569	1	0.01	9	350	10	0.01	-2	3	19	0.18	-10	-10	101	-10	316
NA12280	511	2	0.01	7	300	6	0.01	-2	3	26	0.17	-10	-10	92	-10	52
NA12282	621	3	0.01	6	540	6	-0.01	-2	8	136	0.17	-10	-10	83	-10	115
NA12283	725	1	0.01	9	570	10	0.02	-2	5	52	0.19	-10	-10	85	-10	95
NA12284	488	9	0.02	7	440	14	-0.01	-2	8	52	0.17	-10	-10	115	-10	301
NA12285	254	1	0.02	15	450	7	0.01	-2	5	29	0.09	-10	-10	54	-10	47
NA12286	1150	5	0.02	17	940	13	0.07	-2	20	124	0.18	-10	-10	179	-10	203
NA12287	570	-1	0.03	21	640	7	0.01	-2	6	71	0.13	-10	-10	81	-10	79
NA12288	492	1	0.04	20	400	4	0.01	-2	7	37	0.16	-10	-10	106	-10	83
NA12289	930	1	0.02	15	750	5	0.01	-2	11	19	0.15	-10	-10	60	-10	160
NA12290	495	-1	0.05	10	820	5	0.01	-2	7	49	0.17	-10	-10	93	-10	78
NA12291	434	-1	0.02	12	630	5	0.01	-2	4	28	0.14	-10	-10	69	-10	73
NA12292	569	-1	0.01	3	1200	5	0.01	-2	3	39	0.1	-10	-10	60	-10	98
NA12293	405	1	0.02	20	640	5	0.01	-2	7	31	0.12	-10	-10	70	-10	62
NA12294	860	1	0.01	6	920	4	0.01	-2	19	19	0.1	-10	-10	75	-10	205
NA12295	328	1	0.03	47	510	6	0.37	-2	4	28	0.12	10	-10	50	-10	115
NA12296	192	1	0.39	4	950	4	1.97	-2	15	214	0.14	-10	-10	97	-10	20
NA12297	548	1	0.02	5	380	7	0.07	-2	5	45	0.19	-10	-10	60	-10	75
NA12298	572	4	0.02	8	390	6	0.06	-2	6	34	0.14	-10	-10	58	-10	80
NA12299	299	1	0.02	13	290	9	0.03	-2	4	25	0.1	-10	-10	63	-10	80
NA12300	406	7	0.04	15	2110	16	0.05	-2	22	49	0.18	10	-10	235	-10	138
NA12301	483	1	0.03	12	570	5	0.01	-2	5	26	0.28	10	-10	131	-10	128
NA12302	879	1	0.04	17	970	5	-0.01	-2	18	109	0.1	-10	-10	188	-10	99
NA12303	340	-1	0.01	5	470	10	0.01	-2	2	14	0.02	-10	-10	38	-10	72
NA12304	692	-1	0.04	17	930	8	0.01	-2	7	80	0.31	-10	-10	129	-10	108
NA12305	1070	-1	0.04	12	560	9	0.01	-2	14	209	0.29	10	-10	88	-10	265
NA12306	190	-1	0.02	6	380	9	0.01	-2	2	142	0.03	-10	-10	40	-10	86
NA12307	1085	-1	0.02	6	1260	4	-0.01	-2	14	78	0.13	-10	-10	68	10	498
NA12309	247	1	0.02	14	300	7	0.01	-2	4	74	0.07	-10	-10	61	-10	85
NA12310	529	-1	0.07	12	680	6	0.01	-2	3	1075	0.24	-10	-10	82	-10	124
NA12311	806	-1	0.03	11	460	4	0.01	-2	5	119	0.39	10	-10	143	-10	100
NA12312	1100	-1	0.04	7	910	3	0.01	-2	4	99	0.35	10	-10	133	-10	110
NA12313	509	-1	0.02	10	530	4	0.01	-2	2	81	0.11	-10	-10	70	-10	126
NA12314	1040	-1	0.02	8	390	9	0.01	-2	5	40	0.14	-10	-10	76	-10	117
NA12315	566	-1	0.01	9	420	4	0.01	-2	11	21	0.18	-10	-10	88	-10	125

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA12316	568137	7054758	NAD83, Z 7	FRANKLIN	20030614	TA	QE	0.25	M	1	C	L	M	G	BDR	N	GNE
NA12317	568343	7054769	NAD83, Z 7	FRANKLIN	20030614	BN	QE	0.45	M	1	C	M	H	M	BDR	N	AMP
NA12318	568524	7054650	NAD83, Z 7	FRANKLIN	20030614	GY	QD	0.25	M	1	C	L	M	M	BDR	N	AMP
NA12319	568785	7054647	NAD83, Z 7	FRANKLIN	20030614	OR	QL	0.2	M	1	C	M	M	G	BDR	N	SCH
NA12320	567496	7055415	NAD83, Z 7	FRANKLIN	20030615	BN	QE	0.25	M	2	C	L	M	F	BDR	N	GNE
NA12321	567655	7055523	NAD83, Z 7	FRANKLIN	20030615	BN	QE	0.3	M	5	C	M	H	G	BDR	N	GNE
NA12322	567782	7055680	NAD83, Z 7	FRANKLIN	20030615	BN	QE	0.25	M	5	C	M	H	M	COL	N	AMP
NA12323	568006	7055737	NAD83, Z 7	FRANKLIN	20030615	GN	QD	0.3	M	2	C	L	H	G	BDR	S	AMP
NA12324	568206	7055732	NAD83, Z 7	FRANKLIN	20030615	GN	QD	0.15	M	2	C	L	M	G	BDR	N	AMP
NA12325	568381	7055816	NAD83, Z 7	FRANKLIN	20030615	GN	QD	0.15	M	2	C	L	M	G	BDR	S	AMP
NA12326	568573	7055742	NAD83, Z 7	FRANKLIN	20030615	GN	QE	0.35	M	2	C	M	H	G	BDR	S	AMP
NA12327	568763	7055786	NAD83, Z 7	FRANKLIN	20030615	GN	QE	0.35	M	5	C	H	H	G	COL	S	AMP
NA12328	567291	7056016	NAD83, Z 7	FRANKLIN	20030615	BN	QL	0.35	M	2	C	L	M	G	BDR	N	GNE
NA12329	567474	7056097	NAD83, Z 7	FRANKLIN	20030615	GN	QE	0.35	M	2	C	L	M	G	BDR	N	SCH
NA12330	567657	7056186	NAD83, Z 7	FRANKLIN	20030615	GN	QL	0.35	M	2	C	L	L	G	BDR	N	GNE
NA12331	567809	7056314	NAD83, Z 7	FRANKLIN	20030615	OR	QE	0.2	M	1	C	L	M	F	BDR	N	SCH
NA12332	567998	7056373	NAD83, Z 7	FRANKLIN	20030615	GN	QD	0.3	M	10	C	L	H	G	BDR	N	
NA12333	568153	7056494	NAD83, Z 7	FRANKLIN	20030615	GN	QD	0.15	M	5	C	L	M	G	COL	N	AMP
NA12334	568356	7056496	NAD83, Z 7	FRANKLIN	20030615	TA	QL	0.3	M	5	C	L	L	M	COL	N	GNE
NA12335	568550	7056546	NAD83, Z 7	FRANKLIN	20030615	GN	QL	0.4	M	5	C	M	M	G	COL	S	AMP
NA12336	570373	7057222	NAD83, Z 7	FRANKLIN	20030616	GN	QL	0.2	M	7	C	L	L	G	BDR	N	GNE
NA12337	570196	7057144	NAD83, Z 7	FRANKLIN	20030616	TA	QE	0.3	M	1	C	L	L	G	BDR	N	SCH
NA12339	570083	7056974	NAD83, Z 7	FRANKLIN	20030616	GN	QL	0.25	M	1	C	L	L	G	BDR	N	SCH
NA12340	569998	7056794	NAD83, Z 7	FRANKLIN	20030616	TA	QD	0.2	M	1	C	L	L	G	BDR	N	SCH
NA12341	569907	7056616	NAD83, Z 7	FRANKLIN	20030616	TA	QE	0.1	M	1	C	L	L	G	BDR	N	GNE
NA12342	569794	7056453	NAD83, Z 7	FRANKLIN	20030616	TA	QL	0.15	M	1	C	L	L	G	BDR	N	SCH
NA12343	569635	7056381	NAD83, Z 7	FRANKLIN	20030616	BF	QE	0.4	M	1	C	L	L	G	BDR	N	SCH
NA12344	570012	7057204	NAD83, Z 7	FRANKLIN	20030616	BN	QD	0.1	M	1	C	L	H	M	BDR	N	SCH
NA12345	569838	7057117	NAD83, Z 7	FRANKLIN	20030616	BN	QL	0.15	M	1	C	L	M	M	BDR	N	GNE
NA12346	569665	7057039	NAD83, Z 7	FRANKLIN	20030616	OR	QE	0.1	M	2	C	L	M	M	BDR	N	GNE
NA12347	569493	7057100	NAD83, Z 7	FRANKLIN	20030616	BN	QL	0.4	M	1	C	L	M	M	BDR	N	SCH
NA12348	568891	7056880	NAD83, Z 7	FRANKLIN	20030616	PN	QL	0.15	M	3	C	M	H	M	BDR	N	GNE
NA12349	568726	7056679	NAD83, Z 7	FRANKLIN	20030616	TA	QL	0.35	M	5	C	M	H	G	COL	S	GNE
NA12415	575117	7047909	NAD83, Z 7	RYAN	20030614	BN		0.3	M	15	B	L	L	G	COL	N	SCH
NA12500	575508	7054459	NAD83, Z 7	BOYER	20030613	BN	QE	0.2	M	20	BC	M	M	M	BDR	S	
NA12501	572966	7052835	NAD83, Z 7	BOYER	20030613	BN		0.3	M	15	C	M	M	G	BDR	N	
NA12502	573070	7053005	NAD83, Z 7	BOYER	20030613	BN	QE	0.3	M	20	BC	M	M	M	COL	S	
NA12503	573196	7053163	NAD83, Z 7	BOYER	20030613	BN	QE	0.3	M	20	B	M	M	M	COL	S	
NA12504	573314	7053320	NAD83, Z 7	BOYER	20030613	BK	QD	0.3	M	25	BC	M	M	M	COL	S	
NA12505	573437	7053661	NAD83, Z 7	BOYER	20030613	BN	QE	0.3	M	5	BC	M	M	M	COL	S	
NA12506	576213	7049107	NAD83, Z 7	BOYER	20030614	BN	QL	0.5	M	10	C	M	M	M	BDR	N	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA12316	H	HOR GNE	3	0.2	3.07	9	-10	450	0.5	-2	0.67	-0.5	17	29	34	4.45	10	-1	0.26	50	1.53
~~NA12317~~	H	SLIGHT ORANGE HUE	3	-0.2	3.26	3	-10	210	0.7	2	0.78	-0.5	23	91	46	4.92	10	1	0.1	10	1.79
NA12318	H		5	-0.2	2.73	12	-10	190	0.5	-2	1.02	-0.5	15	21	33	4.46	10	-1	0.11	10	0.95
NA12319	H	BIO SCH	4	0.2	3.35	4	-10	480	0.5	2	1.12	0.5	24	31	58	5.05	10	-1	0.33	10	1.98
NA12320	L	V. ROCKY, DIFFICULT TO GET SAME. V. DEVELOPED SOIL, MIXTURE OF SANDY SOIL & LOESS HOR-QTZ-FEL GNE W/ MAG OCTAHEDRA	1	-0.2	2.75	5	-10	280	0.5	-2	0.41	-0.5	13	20	23	4.41	10	-1	0.79	40	1.06
NA12321	L	MIX OF SANDY SOIL & LOESS, POOR SAMP.	3	-0.2	2.18	6	-10	350	-0.5	-2	0.57	-0.5	11	23	29	3.7	10	1	0.49	40	0.89
NA12322	M		1	-0.2	2	3	-10	220	-0.5	-2	0.58	-0.5	16	37	31	3.13	10	-1	0.23	10	0.91
NA12323	H		2	-0.2	2.32	2	-10	230	-0.5	-2	0.66	-0.5	16	47	34	3.27	10	-1	0.28	10	1.26
NA12324	H		-1	-0.2	2.64	4	-10	190	-0.5	-2	0.79	-0.5	19	33	58	4	10	-1	0.27	-10	1.32
NA12325	H		-1	-0.2	2.79	5	-10	190	-0.5	-2	0.54	-0.5	23	27	48	4.6	10	-1	0.07	10	0.69
NA12326	H		2	-0.2	2.31	6	-10	240	-0.5	-2	0.74	-0.5	15	30	54	3.71	10	-1	0.09	10	0.71
NA12327	M	SOME LOESS CONTAMINATION	4	-0.2	1.88	7	-10	220	0.5	2	0.68	0.8	10	30	25	3.2	10	-1	0.13	30	0.62
NA12328	H		2	-0.2	3.22	6	-10	410	0.5	-2	0.53	-0.5	17	19	29	4.49	10	-1	0.55	10	1.15
NA12329	H		-1	-0.2	3.95	-2	-10	570	0.6	-2	0.84	-0.5	30	28	81	6	10	-1	1.1	30	1.79
NA12330	H	POSS. SOME BIO-SCH IN W/ GNE TO PRODUCE GREENISH COLOR	-1	-0.2	3.8	5	-10	270	0.7	-2	1.52	-0.5	27	28	44	4.99	10	-1	0.11	10	1.72
NA12331	H		-1	-0.2	3.05	4	-10	490	-0.5	-2	0.43	-0.5	19	18	86	4.26	10	-1	1.06	30	1.72
NA12332	H		-1	-0.2	2.17	4	-10	130	-0.5	-2	0.48	-0.5	16	30	37	4	10	-1	0.07	10	0.82
NA12333	M	V. ROCKY, DIFF. TO GET ENOUGH SAMP.	4	0.5	2.64	5	-10	290	-0.5	-2	0.8	-0.5	20	20	49	4.68	10	-1	0.19	10	1.03
NA12334	M	V. ROCKY DIFF TO GET SAMPLE	4	-0.2	1.94	10	-10	250	-0.5	-2	0.2	-0.5	10	25	14	2.87	10	-1	0.06	10	0.46
NA12335	L	V. DIFF TO GET SAMPLE, ROCKY & FROZEN - MUCH LOESS CONTAMINATION	4	-0.2	1.54	7	-10	340	0.5	-2	0.42	-0.5	11	25	23	2.48	10	-1	0.06	20	0.55
NA12336	H	BIO-QTZ-FEL GNE	-1	-0.2	3.45	4	-10	280	-0.5	-2	0.31	-0.5	17	33	58	5	10	-1	0.87	10	1.57
NA12337	L	CHUNKS OF QTZ	2	-0.2	3.18	-2	-10	210	0.5	-2	0.81	-0.5	12	24	91	3.98	10	-1	0.29	10	1.74
NA12339	H	BIO-SCH	1	-0.2	3.2	3	-10	470	0.5	-2	1.12	-0.5	20	33	71	4.21	-10	-1	0.49	-10	1.26
NA12340	H	SLIGHT ORG HUE, V. MICACEOUS	-1	-0.2	2.19	5	-10	200	0.7	2	0.31	-0.5	9	11	51	3.37	10	-1	0.57	70	0.81
NA12341	H		22	0.2	4.8	8	-10	110	1.1	-2	0.6	-0.5	115	75	3060	8.12	10	-1	0.04	40	2.56
NA12342	H	SLIGHT ORG HUE	-1	-0.2	2.24	4	-10	260	-0.5	2	0.29	-0.5	11	21	34	3.27	10	-1	0.61	10	1
NA12343	H	MICACEOUS	33	0.3	2.92	-2	-10	270	0.5	2	0.75	-0.5	15	9	374	3.12	10	-1	0.35	30	2.33
NA12344	H	BIO-SCH	2	-0.2	3.69	-2	-10	380	-0.5	-2	0.44	-0.5	15	18	54	5.03	-10	-1	0.79	10	1.25
NA12345	H	MICACEOUS	-1	-0.2	2.69	-2	-10	330	-0.5	-2	0.41	-0.5	14	18	32	4.04	-10	-1	0.62	10	1.18
NA12346	H	BIO-MUS-QTZ-FEL GNE	2	-0.2	2.5	5	-10	120	0.6	-2	0.11	-0.5	6	12	41	3.34	10	-1	0.2	20	0.82
NA12347	H	V. MICACEOUS	6	0.2	1.77	4	-10	190	0.6	-2	0.28	-0.5	9	17	38	3.02	-10	-1	0.36	20	0.64
NA12348	H	MICACEOUS	2	0.3	1.48	-2	-10	170	-0.5	-2	0.54	-0.5	4	9	8	1.38	-10	-1	0.12	-10	0.31
NA12349	L	SIGNIFICANT LOESS CONTAMINATION V. ROCKY & FROZEN IN PLACES	12	-0.2	1.78	5	-10	250	-0.5	-2	0.43	-0.5	8	23	13	2.26	-10	-1	0.07	10	0.46
NA12415	M	QTZ MUSC SCH	-1	-0.2	2.01	11	-10	100	-0.5	2	0.19	-0.5	12	38	13	3.6	10	-1	0.07	10	0.5
NA12500	M		5	-0.2	2.12	5	-10	160	-0.5	-2	0.5	0.6	14	31	15	3.08	10	-1	0.23	20	0.84
NA12501	H		3	-0.2	1.78	8	-10	460	-0.5	-2	0.12	0.8	7	21	32	4.24	10	-1	0.41	30	0.58
NA12502	M		6	0.3	1.85	7	-10	200	-0.5	-2	0.25	-0.5	7	23	29	2.78	10	-1	0.14	20	0.58
NA12503	M		9	0.2	1.33	4	-10	190	-0.5	-2	0.18	0.5	5	19	112	2.94	-10	-1	0.22	20	0.49
NA12504	L		0	0.7	0.95	4	-10	150	-0.5	-2	0.24	-0.5	4	11	520	1.96	-10	1	0.12	20	0.27
NA12505	M		1	-0.2	3.39	5	-10	270	0.6	-2	0.42	1	61	35	1210	3.64	10	-1	0.27	30	1.13
NA12506	H		1	-0.2	3.36	5	-10	280	1.2	2	0.35	1.4	17	54	50	4.72	10	-1	0.79	30	1.18

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA12316	553	-1	0.03	16	550	2	-0.01	-2	6	73	0.24	-10	-10	96	-10	108
~~NA12317~~	862	-1	0.01	39	500	-2	0.01	-2	19	43	0.04	-10	-10	104	-10	66
NA12318	507	-1	0.07	16	1200	4	0.01	-2	10	45	0.14	-10	-10	116	-10	82
NA12319	1165	-1	0.02	23	1370	2	-0.01	-2	19	44	0.08	-10	-10	128	-10	80
NA12320	629	-1	0.02	14	690	5	0.01	-2	6	39	0.28	-10	-10	83	-10	113
NA12321	395	-1	0.02	13	970	4	0.01	-2	6	55	0.21	-10	-10	74	-10	128
NA12322	480	-1	0.03	18	900	3	0.01	-2	5	44	0.18	-10	-10	77	-10	70
NA12323	366	-1	0.03	21	720	4	-0.01	-2	6	56	0.2	-10	-10	85	-10	62
NA12324	459	-1	0.04	21	1490	4	0.01	-2	5	33	0.27	-10	-10	110	-10	60
NA12325	403	-1	0.04	21	1160	3	0.02	-2	5	24	0.15	-10	-10	92	-10	247
NA12326	362	-1	0.04	20	1050	6	0.01	-2	8	34	0.16	-10	-10	91	-10	98
NA12327	310	1	0.04	15	820	7	0.01	2	9	33	0.15	-10	-10	71	-10	67
NA12328	486	-1	0.02	10	1180	8	0.01	-2	3	44	0.2	-10	-10	93	-10	141
NA12329	1115	2	0.02	16	2450	5	0.01	-2	4	54	0.41	10	-10	114	-10	143
NA12330	667	1	0.04	20	1150	3	-0.01	-2	8	148	0.32	10	-10	135	-10	98
NA12331	963	-1	0.02	9	1430	3	0.01	-2	11	18	0.32	10	-10	85	-10	76
NA12332	368	-1	0.06	16	1240	3	0.01	-2	6	19	0.14	-10	-10	98	-10	52
NA12333	468	-1	0.04	13	2240	7	0.01	-2	7	29	0.2	-10	-10	123	-10	85
NA12334	221	-1	0.01	14	370	9	0.01	-2	3	37	0.06	-10	-10	65	-10	50
NA12335	262	-1	0.03	17	460	8	-0.01	-2	5	32	0.11	-10	-10	57	-10	61
NA12336	777	-1	0.02	12	420	9	0.01	-2	5	27	0.25	20	-10	131	-10	71
NA12337	1210	-1	0.01	9	190	29	-0.01	-2	7	56	0.16	20	-10	95	-10	532
NA12339	556	-1	0.04	13	690	11	-0.01	-2	8	51	0.23	20	-10	133	-10	64
NA12340	408	1	0.01	7	630	9	0.01	-2	5	26	0.09	10	-10	47	-10	82
NA12341	1390	22	0.01	22	630	15	0.01	-2	21	62	0.23	40	-10	191	-10	180
NA12342	544	-1	0.02	12	400	12	0.01	-2	9	20	0.17	10	-10	76	-10	99
NA12343	650	8	0.02	10	1110	16	0.1	-2	12	54	0.08	10	-10	66	-10	216
NA12344	751	3	0.02	6	540	12	0.01	-2	5	54	0.24	20	-10	138	-10	203
NA12345	625	1	0.02	11	590	10	0.01	-2	5	31	0.17	10	-10	101	-10	65
NA12346	343	5	0.01	6	270	10	0.01	-2	4	10	0.06	10	-10	58	-10	58
NA12347	331	2	0.02	8	410	7	-0.01	-2	4	20	0.1	10	-10	50	-10	38
NA12348	134	-1	0.01	4	600	9	-0.01	-2	2	53	0.02	-10	-10	25	-10	45
NA12349	224	1	0.02	12	390	10	-0.01	-2	3	49	0.11	10	-10	52	-10	52
NA12415	420	-1	0.01	20	510	82	0.02	-2	3	16	0.11	-10	-10	75	-10	55
NA12500	513	-1	0.02	15	690	7	0.01	-2	4	26	0.17	-10	-10	63	-10	76
NA12501	244	3	0.03	9	450	12	0.55	-2	4	32	0.13	-10	-10	55	-10	49
NA12502	215	1	0.01	12	460	12	0.04	-2	4	22	0.11	-10	-10	50	-10	52
NA12503	164	22	0.04	9	510	10	0.36	-2	3	31	0.1	-10	-10	50	-10	44
NA12504	90	2	0.02	10	800	7	0.16	-2	2	27	0.05	-10	10	22	-10	30
NA12505	1125	1	0.02	16	540	6	0.02	-2	9	190	0.16	-10	-10	98	-10	90
NA12506	583	-1	0.01	30	880	14	-0.01	-2	7	25	0.26	-10	-10	53	-10	110

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA12507	576162	7049021	NAD83, Z 7	BOYER	20030614	BN	QL	0.5	M	10	C	M	M	M	BDR	S	SCH
NA12508	576053	7048983	NAD83, Z 7	BOYER	20030614	BN	QE	0.2	M	20	BC	M	M	M	BDR	N	GNE
NA12509	575920	7048829	NAD83, Z 7	BOYER	20030614	BN	QL	0.4	M	10	BC	M	M	G	BDR	S	
NA12510	575781	7048688	NAD83, Z 7	BOYER	20030614	BN	QE	0.5	M	5	C	M	M	G	BDR	N	
NA12511	575644	7048532	NAD83, Z 7	BOYER	20030614	BN	QE	0.4	M	10	C	M	M	G	BDR	N	GNE
NA12512	575509	7048382	NAD83, Z 7	BOYER	20030614	BN		0.4	M	15	C	M	M	G	BDR	N	
NA12513	575334	7048271	NAD83, Z 7	BOYER	20030614	BN	QE	0.4	M	10	C	M	M	G	BDR	N	
NA12514	575184	7048114	NAD83, Z 7	BOYER	20030614	BN	QE	0.5	M	20	BC	M	M	G	BDR	N	
NA12515	575117	7047909	NAD83, Z 7	BOYER	20030614	BN	QE	0.3	M	20	BC						
NA12516	574948	7047747	NAD83, Z 7	BOYER	20030614	BN		0.4	M	15	BC	M	M	G	BDR	N	
NA12517	574754	7047644	NAD83, Z 7	BOYER	20030614	BN	QL	0.4	M	10	C	M	M	G	BDR	N	
NA12518	574573	7047553	NAD83, Z 7	BOYER	20030614	BN	QL	0.3	M	15	C	M	M	G	BDR	N	SCH
NA12519	574571	7047283	NAD83, Z 7	BOYER	20030614	BN	QL	0.3	M	15	C	M	M	M	BDR	N	GNE
NA12520	574614	7047113	NAD83, Z 7	BOYER	20030614	BN		0.3	M	15	C	M	M	M	COL	N	GNE
NA12521	574720	7047051	NAD83, Z 7	BOYER	20030614	BN	QE	0.2	M	20	BC	M	M	M	BDR	N	
NA12522	574926	7047019	NAD83, Z 7	BOYER	20030614	BN	QD	0.2	M	25	BC	M	M	M	BDR	S	
NA12523	567474	7052532	NAD83, Z 7	BOYER	20030615	BN	QE	0.3	M	3	B	M	M	G	BDR	S	
NA12524	567298	7052639	NAD83, Z 7	BOYER	20030615	BN	QD	0.4	M	4	C	M	M	F	BDR	S	AMP
NA12525	567104	7052701	NAD83, Z 7	BOYER	20030615	BN	QD	0.5	M	2	C	M	M	F	BDR	N	AMP
NA12563	565236	7058404	NAD83, Z 7	BOYER	20030616	BN	QE	0.6	M	2	BC	M	M	M	BDR	N	AMP
NA12564	565226	7058213	NAD83, Z 7	BOYER	20030616	BN	QE	0.4	M	4	B	M	M	M	BDR	N	
NA12565	565265	7058088	NAD83, Z 7	BOYER	20030616	BN	QE	0.5	M	2	C	M	L	M	BDR	N	
NA12573	571119	7056830	NAD83, Z 7	BOYER	20030617	BN	QE	0.5	M	3	C	M	M	M	BDR	N	
NA12575	571345	7057167	NAD83, Z 7	BOYER	20030617	BN	QE	0.5	M	1	C	M	M	F	BDR	N	
NA12576	571401	7057344	NAD83, Z 7	BOYER	20030617	BN	QE	0.4	M	2	C	M	M	G	BDR	N	SCH
NA12577	571360	7057541	NAD83, Z 7	BOYER	20030617	BN	QE	0.4	M	3	C	M	M	F	BDR	N	
NA12578	571427	7057741	NAD83, Z 7	BOYER	20030617	BN	QE	0.2	M	15	BC	M	M	F	BDR	N	
NA12579	571331	7057933	NAD83, Z 7	BOYER	20030617	BN	QE	0.3	M	4	BC	M	M	G	BDR	N	
NA12580	571239	7058137	NAD83, Z 7	BOYER	20030617	OR	QD	0.3	M	10	C	M	M	M	BDR	N	
NA12581	571195	7058317	NAD83, Z 7	BOYER	20030617	BN	QE	0.3	M	10	BC	M	M	G	BDR	N	
NA12582	571174	7058513	NAD83, Z 7	BOYER	20030617	BN	QD	0.3	M	8	C	L	M	M	BDR	N	
NA12583	571351	7058845	NAD83, Z 7	BOYER	20030617	BN	QE	0.5	M	3	C	M	M	M	BDR	N	
NA12584	571565	7058872	NAD83, Z 7	BOYER	20030617	BN	QE	0.3	M	3	C	M	M	M	BDR	N	
NA12585	571680	7058970	NAD83, Z 7	BOYER	20030617	BN	QE	0.3	M	10	BC	M	M	M	BDR	N	
NA12586	571605	7057838	NAD83, Z 7	BOYER	20030617	BN	QE	0.3	M	4	C	M	M	M	COL	N	GNE
NA12587	571795	7057906	NAD83, Z 7	BOYER	20030617	BN	QE	0.1	M	15	BC	M	M	M	COL	N	GNE
NA12588	571978	7057978	NAD83, Z 7	BOYER	20030617	BN	QE	0.3	M	8	C	M	M	G	COL	N	
NA12589	572164	7058046	NAD83, Z 7	BOYER	20030617	BN	QE	0.2	M	15	C	M	M	M	COL	N	
NA12590	576630	7046841	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	15	BC	M	M	G	BDR	N	
NA12591	576442	7046774	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	10	BC	M	M	F	BDR	N	
NA12592	576251	7046657	NAD83, Z 7	BOYER	20030619	BN	QE	0.2	M	10	BC	M	M	G	BDR	N	
NA12593	576101	7046518	NAD83, Z 7	BOYER	20030619	BN	QD	0.3	M	8	BC	M	M	F	BDR	N	
NA12594	575978	7046337	NAD83, Z 7	BOYER	20030619	BN	QE	0.2	M	15	BC	M	M	F	BDR	N	
NA12595	575854	7046193	NAD83, Z 7	BOYER	20030619	GN	QU	0.5	M	2	C	M	M	G	BDR	N	

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA12507	H	7M DIAMETER KILLZONE IN OTHERWISE DENSE BRUSH	1	-0.2	3.02	6	-10	240	0.8	-2	0.5	1.3	20	54	66	5.32	10	-1	1.1	90	1.16
NA12508	M		2	-0.2	1.95	9	-10	230	0.6	-2	0.28	0.9	17	28	66	4.18	10	-1	0.26	20	0.79
NA12509	M		2	0.2	3.33	6	-10	420	0.5	-2	0.38	1.1	15	51	25	3.97	10	-1	0.54	10	1.39
NA12510	H		2	-0.2	2.8	14	-10	180	1.6	-2	0.32	0.9	28	47	64	3.82	10	-1	0.43	70	1.03
NA12511	H		2	-0.2	3.27	9	-10	200	0.6	-2	0.22	1.1	14	25	33	4.68	10	1	0.08	50	1.12
NA12512	H		1	-0.2	2.62	3	-10	220	0.6	-2	0.06	1.1	7	13	19	4.95	10	-1	0.65	20	0.56
NA12513	H		2	-0.2	2.04	6	-10	160	-0.5	-2	0.18	0.7	10	27	29	3.39	10	-1	0.18	10	0.81
NA12514	M		1	-0.2	2.28	7	-10	160	-0.5	2	0.3	0.8	12	31	20	3.43	10	-1	0.04	10	0.81
NA12515	M		1	-0.2	2.59	10	-10	170	-0.5	2	0.2	0.6	13	28	16	3.82	10	1	0.05	10	0.7
NA12516	M		1	-0.2	2.41	10	-10	170	-0.5	-2	0.13	0.6	11	34	13	3.28	10	-1	0.06	10	0.44
NA12517	H		1	-0.2	4.18	6	-10	160	0.5	-2	1	2.5	22	12	31	5.94	20	-1	0.07	20	1.99
NA12518	H		1	-0.2	1.47	4	-10	220	-0.5	-2	0.18	-0.5	7	16	25	3.69	10	-1	0.25	20	0.38
NA12519	H		1	-0.2	3.1	7	-10	360	1	-2	0.71	0.5	16	37	24	3.15	10	-1	0.48	40	0.72
NA12520	H		-1	-0.2	2.22	4	-10	340	-0.5	-2	0.22	1.1	8	7	58	5.58	10	-1	0.61	20	0.77
NA12521	M		2	-0.2	1.76	9	-10	120	-0.5	-2	0.15	0.5	9	25	16	3.29	10	-1	0.13	10	0.5
NA12522	M		5	-0.2	1.4	8	-10	150	-0.5	-2	0.31	-0.5	9	29	17	2.42	-10	-1	0.05	10	0.46
NA12523	M		4	-0.2	2.6	5	-10	240	-0.5	-2	0.41	0.6	13	42	19	3.34	10	1	0.1	10	0.98
NA12524	H		2	-0.2	2.41	4	-10	290	-0.5	-2	0.6	1.5	24	26	130	6.77	10	-1	0.22	10	1.18
NA12525	H		-1	-0.2	3.25	3	-10	640	0.6	-2	1.22	2.1	19	32	69	6.31	10	-1	0.52	10	1.54
NA12563	M		14	-0.2	1.66	6	-10	210	-0.5	-2	0.57	-0.5	11	28	32	3.19	10	-1	0.15	20	0.61
NA12564	M		-1	-0.2	2.95	-2	-10	400	0.6	-2	1.04	0.6	21	12	42	5.97	10	-1	0.59	10	0.94
NA12565	H		-1	-0.2	3.19	-2	-10	660	-0.5	-2	0.71	1.5	24	19	58	6.77	10	-1	1.5	10	1.38
NA12573	H		26	-0.2	1.96	5	-10	360	0.5	2	0.65	0.8	13	27	57	3.62	10	-1	0.49	10	0.79
NA12575	H		3	-0.2	2.42	2	-10	170	0.5	-2	0.61	0.8	20	27	22	4.28	10	-1	0.56	20	1.7
NA12576	H		-1	-0.2	3.47	6	-10	190	0.7	-2	0.41	1.8	21	36	43	4.8	10	-1	0.95	20	1.44
NA12577	H		3	-0.2	3.24	3	-10	220	0.5	-2	0.47	1.6	20	36	56	4.79	10	-1	1.18	20	1.76
NA12578	M		6	-0.2	1.46	5	-10	150	-0.5	-2	0.22	-0.5	9	24	17	2.52	10	-1	0.11	20	0.57
NA12579	M		2	-0.2	1.7	8	-10	140	-0.5	-2	0.21	-0.5	10	33	16	2.92	10	-1	0.09	10	0.53
NA12580	H		2	-0.2	2.17	6	-10	150	-0.5	-2	0.25	-0.5	13	21	15	3.7	10	-1	0.36	10	1
NA12581	M		2	-0.2	1.61	6	-10	160	-0.5	-2	0.25	-0.5	11	30	23	2.77	10	-1	0.14	10	0.68
NA12582	H		-1	-0.2	2.82	5	-10	340	-0.5	-2	1.1	0.5	16	46	14	3.04	10	1	0.54	10	1.36
NA12583	H		2	-0.2	1.64	6	-10	220	-0.5	-2	0.24	-0.5	9	27	17	2.45	-10	-1	0.09	10	0.51
NA12584	H		2	-0.2	1.8	6	-10	100	-0.5	2	0.32	-0.5	13	25	32	3.45	-10	-1	0.35	20	0.85
NA12585	M		-1	-0.2	2.3	4	-10	140	-0.5	-2	0.31	0.5	16	25	34	4.03	10	-1	0.53	10	1.16
NA12586	H		2	-0.2	1.8	6	-10	160	-0.5	-2	0.26	-0.5	9	24	23	2.98	10	-1	0.25	10	0.75
NA12587	M		-1	-0.2	1.63	4	-10	110	-0.5	-2	0.23	-0.5	9	21	20	2.9	10	-1	0.27	10	0.75
NA12588	M		2	-0.2	2.87	2	-10	160	-0.5	-2	0.54	0.8	19	30	41	4.56	10	1	1.02	20	1.72
NA12589	M		-1	-0.2	3.16	2	-10	120	-0.5	-2	0.39	0.9	25	25	35	5.7	10	-1	1.48	10	1.79
NA12590	H		1	-0.2	2.98	6	-10	300	-0.5	-2	0.37	0.5	17	27	24	4.58	10	-1	0.17	10	1.18
NA12591	M		5	-0.2	2.57	11	-10	170	-0.5	-2	0.21	-0.5	13	34	41	2.91	-10	-1	0.05	10	0.63
NA12592	M		2	-0.2	1.54	9	-10	100	-0.5	-2	0.27	-0.5	12	22	51	3.83	10	-1	0.03	-10	0.39
NA12593	M		1	-0.2	2.12	5	-10	200	-0.5	-2	0.3	-0.5	11	30	21	2.75	10	-1	0.14	10	0.79
NA12594	M		3	-0.2	2.06	7	-10	140	-0.5	-2	0.21	-0.5	12	46	74	3.08	10	-1	0.05	10	0.66
NA12595	H		-1	-0.2	2.69	3	-10	80	-0.5	-2	0.96	-0.5	14	165	72	2.02	-10	-1	0.03	-10	1.22

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA12507	551	-1	0.01	44	1960	8	0.01	-2	10	19	0.35	-10	-10	57	-10	81
NA12508	995	4	0.01	29	780	30	0.14	2	4	37	0.15	-10	-10	83	-10	102
NA12509	437	1	0.02	23	490	7	0.01	-2	8	20	0.25	-10	-10	90	-10	68
NA12510	208	1	0.01	111	690	20	0.01	-2	5	22	0.08	-10	-10	50	-10	485
NA12511	365	1	0.03	16	220	9	0.01	-2	12	16	0.24	-10	-10	108	-10	114
NA12512	1290	1	0.01	7	320	7	0.01	2	16	7	0.21	-10	-10	21	-10	140
NA12513	301	1	0.01	15	250	6	0.07	-2	7	18	0.12	-10	-10	63	-10	73
NA12514	298	1	0.02	17	230	7	-0.01	-2	6	20	0.14	-10	-10	82	-10	52
NA12515	312	1	0.02	17	510	9	0.01	-2	5	14	0.14	-10	-10	88	-10	54
NA12516	317	1	0.01	17	340	11	0.01	-2	5	14	0.13	-10	-10	77	-10	75
NA12517	672	1	0.05	9	1210	6	0.01	-2	16	52	0.21	-10	-10	107	-10	148
NA12518	205	1	0.05	9	430	7	0.4	-2	6	32	0.07	-10	-10	36	-10	76
NA12519	812	-1	0.02	37	510	14	0.01	-2	6	70	0.2	-10	-10	49	-10	108
NA12520	378	7	0.03	3	590	18	0.46	-2	4	76	0.11	-10	-10	48	-10	100
NA12521	210	2	0.02	16	260	11	0.08	2	3	23	0.13	-10	-10	64	-10	58
NA12522	292	-1	0.01	15	570	7	0.01	-2	3	20	0.09	-10	-10	56	-10	47
NA12523	323	-1	0.02	23	450	5	0.01	-2	6	76	0.19	-10	-10	80	-10	73
NA12524	346	-1	0.04	20	1220	-2	0.01	2	9	57	0.44	-10	-10	148	-10	94
NA12525	719	-1	0.07	14	2640	3	0.01	2	11	86	0.46	-10	-10	140	-10	160
NA12563	338	-1	0.03	20	660	6	0.01	-2	8	33	0.16	-10	-10	79	-10	57
NA12564	792	-1	0.06	9	2360	5	0.01	-2	18	52	0.21	-10	-10	158	-10	99
NA12565	839	-1	0.03	13	1880	6	0.01	-2	14	35	0.4	-10	-10	156	-10	125
NA12573	309	-1	0.02	19	1400	7	0.01	-2	6	42	0.16	-10	-10	80	-10	92
NA12575	824	-1	0.01	11	1240	7	0.01	-2	6	25	0.21	-10	-10	106	-10	63
NA12576	1165	1	0.02	16	930	8	0.01	-2	7	28	0.28	-10	-10	109	-10	132
NA12577	1070	-1	0.02	16	410	8	0.01	-2	8	35	0.32	-10	-10	116	-10	171
NA12578	300	-1	0.01	16	340	6	0.01	-2	3	18	0.14	-10	-10	61	-10	45
NA12579	236	-1	0.01	18	260	12	-0.01	-2	4	19	0.12	-10	-10	64	-10	48
NA12580	505	1	0.01	13	370	4	0.01	-2	3	19	0.15	-10	-10	83	-10	57
NA12581	285	-1	0.01	19	310	4	-0.01	-2	3	19	0.12	-10	-10	63	-10	45
NA12582	802	1	0.06	20	1600	10	-0.01	-2	5	51	0.2	-10	-10	63	-10	224
NA12583	212	1	0.01	19	240	5	-0.01	-2	4	17	0.11	-10	-10	53	-10	48
NA12584	554	1	0.01	14	460	5	0.01	-2	5	14	0.11	-10	-10	80	-10	45
NA12585	859	1	0.01	12	460	4	0.01	-2	4	19	0.19	-10	-10	99	-10	63
NA12586	331	1	0.01	14	400	7	0.01	-2	5	18	0.14	-10	-10	73	-10	54
NA12587	313	-1	0.01	11	290	7	0.01	-2	3	16	0.15	-10	-10	72	-10	52
NA12588	726	1	0.01	12	580	5	0.01	-2	5	30	0.24	-10	-10	104	-10	108
NA12589	816	1	0.01	15	1060	4	0.01	-2	4	23	0.29	-10	-10	130	-10	127
NA12590	394	1	0.03	19	230	9	0.02	-2	7	22	0.17	-10	-10	110	-10	83
NA12591	221	-1	0.01	35	210	7	0.01	-2	4	17	0.09	-10	-10	60	-10	52
NA12592	168	1	0.02	16	400	5	0.01	-2	3	12	0.16	-10	-10	117	-10	30
NA12593	222	-1	0.02	21	170	5	-0.01	-2	3	19	0.15	-10	-10	55	-10	36
NA12594	206	1	0.01	39	330	5	0.01	-2	4	10	0.14	-10	-10	72	-10	37
NA12595	193	-1	0.05	46	50	-2	-0.01	-2	7	56	0.1	-10	-10	51	-10	17

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA12596	575627	7045825	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	10	BC	M	M	G	BDR	N	
NA12597	575451	7045929	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	10	BC	M	M	M	BDR	N	
NA12598	575306	7045749	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	8	BC	M	M	M	BDR	N	
NA12599	575462	7045638	NAD83, Z 7	BOYER	20030619	BN	QL	0.3	M	5	BC	M	M	M	BDR	N	
NA12600	575213	7045588	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	5	BC	M	M	G	BDR	N	
NA12602	575027	7045512	NAD83, Z 7	BOYER	20030619	GY	QE	0.3	M	5	C	M	M	F	BDR	N	SCH
NA12603	574813	7045288	NAD83, Z 7	BOYER	20030619	BN	QL	0.3	M	10	C	M	M	F	BDR	N	
NA12604	574709	7045089	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	8	BC	M	M	G	BDR	N	SCH
NA12605	574647	7044895	NAD83, Z 7	BOYER	20030619	BN	QE	0.3	M	15	BC	M	L	G	BDR	N	SCH
NA12606	574473	7044729	NAD83, Z 7	BOYER	20030619	BN	QL	0.3	M	8	BC	M	L	F	BDR	N	
NA12607	574332	7044588	NAD83, Z 7	BOYER	20030619	OR	QB	0.2	M	4	C	M	M	F	BDR	N	SCH
NA12608	574246	7044407	NAD83, Z 7	BOYER	20030619	OR	QD	0.1	M	15	BC	M	L	M	BDR	N	PGM
NA12609	574162	7044226	NAD83, Z 7	BOYER	20030619	BN	QE	0.1	M	15	BC	M	L	G	BDR	N	
NA12610	574001	7044064	NAD83, Z 7	BOYER	20030619	BN	QD	0.2	M	15	BC	M	L	M	BDR	N	GNE
NA12611	573888	7043903	NAD83, Z 7	BOYER	20030619	BN	QE	0.1	M	15	BC	M	L	M	BDR	N	SCH
NA12612	573829	7043757	NAD83, Z 7	BOYER	20030619	BN	QE	0.1	M	15	BC	M	L	G	BDR	N	GNE
NA12613	573595	7043552	NAD83, Z 7	BOYER	20030619	BN	QE	0.1	M	20	BC	M	L	S	COL	N	
NA12623	571635	7045715	NAD83, Z 7	BOYER	20030621	BN	QL	0.25	M	8	BC	M	M	M	BDR	N	
NA12624	571845	7045671	NAD83, Z 7	BOYER	20030621	BN	QE	0.3	M	8	BC	M	M	M	BDR	N	
NA12625	572034	7045727	NAD83, Z 7	BOYER	20030621	BN	QD	0.2	M	10	BC	M	L	M	BDR	N	
NA12626	572235	7045714	NAD83, Z 7	BOYER	20030621	OR	QD	0.3	M	5	BC	M	L	M	BDR	N	SCH
NA12627	572447	7045763	NAD83, Z 7	BOYER	20030621	BN	QE	0.5	M	8	C	M	M	M	BDR	N	
NA12628	572640	7045814	NAD83, Z 7	BOYER	20030621	BN	QE	0.4	M	5	B	M	M	M	BDR	N	
NA12629	572867	7045758	NAD83, Z 7	BOYER	20030621	BN	QE	0.4	M	8	BC	M	M	G	BDR	S	
NA12630	573079	7045780	NAD83, Z 7	BOYER	20030621	BN	QE	0.3	M	5	BC	M	M	M	BDR	S	
NA12631	571188	7046489	NAD83, Z 7	BOYER	20030621	BN	QE	0.3	M	6	BC	M	M	M	BDR	N	
NA12632	571385	7046513	NAD83, Z 7	BOYER	20030621	BN	QE	0.2	M	10	BC	M	M	M	BDR	N	
NA12633	571608	7046396	NAD83, Z 7	BOYER	20030621	BN	QE	0.5	M	5	BC	M	M	M	BDR	N	
NA12634	571797	7046395	NAD83, Z 7	BOYER	20030621	GY	QE	0.5	M	5	B	M	M	M	BDR	S	
NA12635	571978	7046352	NAD83, Z 7	BOYER	20030621	BN	QE	0.5	M	3	BC	M	M	M	BDR	N	
NA12637	572377	7046367	NAD83, Z 7	BOYER	20030621	BN	QD	0.3	M	10	BC	M	M	M	BDR	S	
NA12638	572595	7046450	NAD83, Z 7	BOYER	20030621	GY	QE	0.3	M	5	C	M	L	M	BDR	N	SCH
NA12639	572733	7046400	NAD83, Z 7	BOYER	20030621	BN	QE	0.3	M	5	C	M	M	G	BDR	N	SCH
NA12851	572575	7044274	NAD83, Z 7	FRANKLIN	20030620	BF	QE	0.2	M	1	C	M	L	G	BDR	N	GNE
NA12852	572780	7044235	NAD83, Z 7	FRANKLIN	20030620	TA	QD	0.5	M	1	C	M	M	G	BDR	S	SCH
NA12853	573011	7044194	NAD83, Z 7	FRANKLIN	20030620	BF	QE	0.25	M	1	B	M	M	G	COL	N	SCH
NA12854	573313	7044291	NAD83, Z 7	FRANKLIN	20030620	TA	QL	0.2	M	1	B	L	L	F	COL	N	GNE
NA12855	572140	7044802	NAD83, Z 7	FRANKLIN	20030620	BF	QE	0.2	M	2	C	L	L	G	BDR	N	GNE
NA12856	572331	7044834	NAD83, Z 7	FRANKLIN	20030620	BN	QL	0.3	M	2	B	M	H	G	COL	S	QTZ
NA12857	572514	7044756	NAD83, Z 7	FRANKLIN	20030620	BN	QE	0.35	M	2	B	L	L	S	COL	N	QTZ
NA12858	572698	7044671	NAD83, Z 7	FRANKLIN	20030620	TA	QL	0.2	M	1	C	L	L	M	BDR	N	GNE
NA12859	572896	7044651	NAD83, Z 7	FRANKLIN	20030620	TA	QE	0.15	M	1	C	L	L	S	BDR	N	GNE
NA12860	573073	7044563	NAD83, Z 7	FRANKLIN	20030620	BF	QL	0.2	M	1	C	L	L	M	BDR	N	GNE

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA12596	M		-1	-0.2	2.85	14	-10	280	-0.5	-2	0.19	-0.5	12	41	31	3.64	10	-1	0.11	10	0.67
~~NA12597~~	M		2	-0.2	2.29	8	-10	240	-0.5	-2	0.35	-0.5	11	31	23	2.99	10	-1	0.05	10	0.66
NA12598	M		3	-0.2	1.8	6	-10	190	-0.5	-2	0.22	-0.5	10	25	14	3.43	10	-1	0.25	10	0.66
NA12599	H		6	-0.2	2.02	13	-10	180	-0.5	-2	0.25	-0.5	10	32	18	3.12	10	-1	0.13	10	0.59
NA12600	H		1	-0.2	1.98	7	-10	230	-0.5	-2	0.16	-0.5	9	27	14	2.86	10	-1	0.09	10	0.46
NA12602	H		4	0.4	2.72	9	-10	310	0.6	-2	0.18	-0.5	6	55	53	6.23	10	-1	0.92	80	1.06
NA12603	H		4	0.2	2.4	9	-10	310	-0.5	-2	0.22	-0.5	10	26	24	4.25	10	-1	0.33	10	0.64
NA12604	H		1	0.3	1.98	3	-10	420	-0.5	-2	0.31	1.1	14	32	17	2.67	10	-1	0.31	10	0.76
NA12605	H		1	-0.2	1.48	4	-10	200	-0.5	-2	0.17	-0.5	6	19	7	1.92	10	-1	0.07	10	0.33
NA12606	M		3	-0.2	2.52	14	-10	210	-0.5	-2	0.12	-0.5	10	36	22	3.1	10	-1	0.05	10	0.45
NA12607	H		6	-0.2	2.27	11	-10	240	-0.5	3	0.03	-0.5	5	21	75	8.04	10	-1	0.12	20	0.21
NA12608	M		1	-0.2	2.16	5	-10	330	-0.5	-2	0.29	-0.5	10	30	11	2.84	10	-1	0.09	10	0.45
NA12609	M		1	-0.2	2.03	3	-10	310	-0.5	-2	0.42	-0.5	14	22	17	3.18	10	-1	0.1	10	0.62
NA12610	M		1	0.3	1.97	4	-10	580	-0.5	-2	0.29	-0.5	14	27	13	2.54	10	-1	0.09	10	0.45
NA12611	M		1	0.2	2.19	2	-10	650	-0.5	-2	0.32	-0.5	14	29	33	2.62	10	-1	0.33	20	0.97
NA12612	M		1	-0.2	1.32	2	-10	250	-0.5	-2	0.32	-0.5	12	26	14	2.18	-10	-1	0.18	10	0.5
NA12613	M		1	-0.2	3.04	6	-10	190	0.6	-2	0.59	-0.5	10	19	75	3.61	10	-1	0.63	20	0.76
NA12623	M		1	-0.2	1.98	7	-10	140	-0.5	-2	0.2	-0.5	8	19	21	2.98	10	-1	0.07	20	0.5
NA12624	H		5	-0.2	2.3	10	-10	260	0.5	-2	0.28	-0.5	10	37	26	3.29	-10	-1	0.05	10	0.62
NA12625	M		3	-0.2	1.63	5	-10	90	-0.5	-2	0.13	-0.5	7	19	12	3.23	10	-1	0.08	10	0.37
NA12626	H		-1	-0.2	2.67	9	-10	160	-0.5	-2	0.24	-0.5	11	20	13	3.99	10	-1	0.26	10	0.92
NA12627	H		4	-0.2	2.25	8	-10	210	0.5	-2	0.42	-0.5	11	30	23	3.28	10	-1	0.1	30	0.72
NA12628	H		2	-0.2	2.6	10	-10	230	0.6	-2	0.56	-0.5	10	14	74	5.66	10	-1	0.47	10	0.87
NA12629	M		4	-0.2	1.57	8	-10	170	-0.5	-2	0.41	-0.5	9	24	22	2.78	10	-1	0.08	20	0.55
NA12630	H		14	-0.2	1.78	9	-10	250	-0.5	-2	0.54	-0.5	10	27	25	2.92	10	-1	0.13	20	0.64
NA12631	H		1	-0.2	2.92	15	-10	190	-0.5	-2	0.18	-0.5	12	32	23	3.72	10	-1	0.09	10	0.67
NA12632	M		2	-0.2	2	6	-10	140	-0.5	-2	0.21	-0.5	9	27	18	2.9	10	-1	0.06	20	0.6
NA12633	M		3	-0.2	1.94	7	-10	300	0.5	-2	0.51	-0.5	12	30	28	2.99	10	-1	0.08	20	0.61
NA12634	M		6	-0.2	1.54	12	-10	330	-0.5	-2	0.79	0.5	12	28	35	3.03	-10	-1	0.08	10	0.74
NA12635	H		4	-0.2	2.31	7	-10	290	0.5	-2	0.88	-0.5	14	30	45	3.86	10	-1	0.11	10	0.88
NA12637	M		3	-0.2	1.87	5	-10	280	-0.5	-2	0.95	-0.5	12	26	30	3.2	10	-1	0.07	10	0.76
NA12638	H		-1	-0.2	2.05	4	-10	120	-0.5	-2	0.54	-0.5	11	51	23	3.01	10	1	0.05	-10	0.88
NA12639	H		1	-0.2	3.48	-2	-10	160	0.5	-2	2.23	-0.5	17	20	75	3.87	10	-1	0.28	-10	1.06
NA12851	H	VERY PUNKY FEL GNE, LIM AFTER SULFIDE	-1	-0.2	1.35	7	-10	140	0.7	-2	0.33	-0.5	7	19	14	2.88	10	-1	0.25	30	0.37
NA12852	H		1	-0.2	2.79	5	-10	240	0.6	2	0.89	-0.5	12	14	12	4.08	10	-1	0.57	50	1.64
NA12853	H	THIN LOESS LAYERS INTERSTRATIFIED WITH SOIL, POSSIBLE DOWNSLOPE TRANSPORT	-1	-0.2	1.9	6	-10	180	-0.5	-2	0.44	-0.5	9	15	12	2.94	10	-1	0.12	20	0.7
NA12854	M	SOME LOESS INTERMIXED	1	-0.2	1.46	6	-10	130	-0.5	-2	0.22	-0.5	9	16	16	2.33	-10	-1	0.11	20	0.41
NA12855	H		-1	-0.2	1.3	7	-10	120	-0.5	-2	0.09	-0.5	7	16	10	2.94	-10	-1	0.06	10	0.24
NA12856	L	POOR SAMPLE, ROCKY AND FROZEN, LOTS OF LOESS CONTAMINATION	11	-0.2	1.49	6	-10	130	0.6	-2	0.24	-0.5	9	21	22	3	10	-1	0.15	50	0.65
NA12857	L		-1	-0.2	2.65	9	-10	130	0.7	-2	0.72	-0.5	11	20	17	3.7	10	-1	0.64	20	0.89
NA12858	H		-1	-0.2	1.52	6	-10	130	0.7	-2	0.45	-0.5	7	11	21	2.85	10	-1	0.35	50	0.74
NA12859	H		1	-0.2	2.49	7	-10	90	0.8	-2	0.49	-0.5	10	18	13	3.15	10	-1	0.29	30	0.59
NA12860	H	QTZ-FEL GNE	-1	-0.2	3.24	5	-10	100	1	-2	1.15	-0.5	9	9	18	3.18	10	-1	0.56	50	0.61

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA12596	370	1	0.02	26	460	7	0.01	-2	4	16	0.13	-10	-10	74	-10	50
~~NA12597~~	348	1	0.03	18	220	6	-0.01	-2	5	24	0.12	-10	-10	75	-10	39
NA12598	1110	1	0.01	13	840	11	0.01	-2	5	17	0.11	-10	-10	77	-10	118
NA12599	293	1	0.02	20	540	6	0.01	-2	4	21	0.1	-10	-10	73	-10	59
NA12600	485	1	0.01	16	580	9	0.01	-2	4	18	0.09	-10	-10	65	-10	80
NA12602	126	2	0.02	14	810	12	0.59	-2	5	47	0.17	10	-10	87	-10	97
NA12603	401	1	0.02	13	810	8	0.08	-2	5	22	0.19	-10	-10	66	-10	67
NA12604	2750	1	0.02	17	600	9	0.01	-2	4	27	0.1	-10	-10	62	-10	225
NA12605	205	-1	0.01	12	300	10	0.01	-2	2	18	0.06	-10	-10	48	-10	118
NA12606	336	2	0.01	22	230	11	0.01	-2	4	16	0.1	-10	-10	73	-10	69
NA12607	82	4	0.02	6	350	3	0.2	-2	6	8	0.05	-10	-10	39	-10	22
NA12608	693	2	0.02	19	620	7	0.01	-2	4	26	0.09	-10	-10	69	-10	88
NA12609	746	1	0.03	14	720	7	0.01	-2	4	27	0.11	-10	-10	88	-10	118
NA12610	824	1	0.02	22	550	11	0.01	-2	3	29	0.09	-10	-10	60	-10	190
NA12611	569	1	0.02	22	660	48	0.05	-2	4	40	0.11	-10	-10	53	-10	163
NA12612	504	1	0.02	17	670	9	0.01	-2	4	22	0.1	-10	-10	52	-10	87
NA12613	659	1	0.02	13	500	10	0.02	-2	6	43	0.18	-10	-10	57	-10	117
NA12623	245	-1	0.01	12	170	11	0.01	-2	3	22	0.1	-10	-10	60	-10	65
NA12624	274	-1	0.02	24	200	10	-0.01	-2	4	23	0.1	-10	-10	64	-10	57
NA12625	344	1	0.01	11	430	8	0.01	-2	3	11	0.1	-10	-10	68	-10	65
NA12626	473	-1	0.01	13	280	8	0.01	-2	5	20	0.16	-10	-10	64	-10	68
NA12627	350	-1	0.02	18	220	7	-0.01	-2	6	31	0.16	-10	-10	66	-10	58
NA12628	765	-1	0.01	9	770	7	0.01	-2	9	67	0.17	-10	-10	50	-10	430
NA12629	298	-1	0.02	17	480	7	0.01	-2	4	29	0.09	-10	-10	48	-10	64
NA12630	316	-1	0.02	18	550	9	0.01	-2	5	36	0.12	-10	-10	54	-10	65
NA12631	378	-1	0.01	26	290	9	0.01	-2	4	18	0.11	-10	-10	70	-10	68
NA12632	295	-1	0.01	16	170	8	0.01	-2	4	19	0.11	-10	-10	58	-10	58
NA12633	640	-1	0.02	22	340	9	0.01	-2	6	33	0.1	-10	-10	59	-10	59
NA12634	446	-1	0.04	29	780	9	0.01	-2	5	40	0.1	-10	-10	56	-10	77
NA12635	514	-1	0.05	27	580	7	0.01	-2	8	48	0.14	-10	-10	81	-10	73
NA12637	577	-1	0.03	17	620	7	0.02	-2	6	45	0.09	-10	-10	67	-10	80
NA12638	306	1	0.03	22	470	2	-0.01	-2	7	24	0.14	-10	-10	77	-10	42
NA12639	483	-1	0.06	11	1330	4	-0.01	-2	10	126	0.23	-10	-10	91	-10	56
NA12851	436	-1	0.01	9	710	5	0.01	-2	5	14	0.05	-10	-10	37	-10	61
NA12852	604	-1	0.02	10	910	6	-0.01	-2	7	60	0.2	-10	-10	53	-10	85
NA12853	286	-1	0.01	10	330	6	-0.01	-2	4	27	0.09	-10	-10	43	-10	51
NA12854	242	-1	0.01	11	200	7	-0.01	-2	4	18	0.08	-10	-10	39	-10	63
NA12855	354	-1	0.01	9	320	9	0.01	-2	4	9	0.04	-10	-10	42	-10	56
NA12856	389	-1	0.01	14	230	7	-0.01	-2	6	18	0.11	-10	-10	48	-10	62
NA12857	513	-1	0.01	16	560	6	0.01	-2	6	59	0.19	-10	-10	58	-10	71
NA12858	580	-1	0.01	14	730	6	-0.01	-2	6	21	0.08	-10	-10	32	-10	52
NA12859	429	-1	0.01	14	490	5	0.01	-2	4	43	0.07	-10	-10	44	-10	59
NA12860	578	-1	0.01	10	610	8	0.01	-2	5	79	0.09	-10	-10	37	-10	54

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA12861	573329	7044482	NAD83, Z 7	FRANKLIN	20030620	TA	QE	0.25	M	1	C	L	L	G	COL	N	GNE
NA12862	573444	7044442	NAD83, Z 7	FRANKLIN	20030620	OR	QE	0.2	M	5	C	M	M	G	BDR	N	SCH
NA12900	572752	7053079	NAD83, Z 7	HULSTEIN	20030611	TA	QE	0.2	M		C	M	M	G	BDR	N	
NA12901	572575	7053179	NAD83, Z 7	HULSTEIN	20030611	TA	QE	0.35	M		c	M	M	G	BDR	N	SCH
NA12902	572375	7053241	NAD83, Z 7	HULSTEIN	20030611	TA	QE	0.2	M		C	M	M	G	BDR	N	SCH
NA12903	572178	7053221	NAD83, Z 7	HULSTEIN	20030611	TA	QE	0.25	M		C	M	M	M	BDR	S	
NA12904	572036	7053061	NAD83, Z 7	HULSTEIN	20030611	TA	QE	0.3	M		C	L	L	M	BDR	N	SCH
NA12905	571833	7053024	NAD83, Z 7	HULSTEIN	20030611	TA	QE	0.5	M		C	M	H	G	BDR	S	SCH
NA12906	571660	7052912	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.25	M		C	M	H	G	BDR	S	SCH
NA12907	571455	7052860	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.4	M		BC	L	M	G	BDR	S	SCH
NA12908	571257	7052796	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.35	M		B	L	L	M	BDR	N	SCH
NA12909	571074	7052696	NAD83, Z 7	HULSTEIN	20030611	TA	QL	0.4	M		C	L	L	G	BDR	N	SCH
NA12910	570932	7052549	NAD83, Z 7	HULSTEIN	20030611	TA	QL	0.35	M		C	L	L	F	BDR	N	QTZ
NA12911	570788	7052403	NAD83, Z 7	HULSTEIN	20030611	TA	QL	0.3	M		C	L	L	G	BDR	N	QTZ
NA12912	570669	7052231	NAD83, Z 7	HULSTEIN	20030611	TA	QL	0.35	M	0	C	L	M	G	BDR	N	QTZ
NA12913	570463	7052210	NAD83, Z 7	HULSTEIN	20030611	GN	QU	0.4	M		C	L	L	G	BDR	N	SCH
NA12914	570261	7052201	NAD83, Z 7	HULSTEIN	20030611	GN	QU	0.3	M		C	L	L	F	BDR	N	SCH
NA12915	570184	7051992	NAD83, Z 7	HULSTEIN	20030611	OL	QE	0.4	M		BC	M	L	G	BDR	S	
NA12916	570079	7051798	NAD83, Z 7	HULSTEIN	20030611	OL	QE	0.4	M		C	L	L	M	BDR	S	SCH
NA12917	570023	7051599	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.35	M		C	L	L	G	BDR	N	SCH
NA12918	569829	7051476	NAD83, Z 7	HULSTEIN	20030611	GN	QE	0.4	M		C	L	L	G	BDR	N	SCH
NA12919	569685	7051318	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.35	M		B	L	L	G	BDR	N	SCH
NA12921	569521	7051166	NAD83, Z 7	HULSTEIN	20030611	OL	QE	0.35	M		C	L	L	M	BDR	S	SCH
NA12922	569328	7051143	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.3	M		B	M	M	M	BDR	S	QTZ
NA12923	569116	7051130	NAD83, Z 7	HULSTEIN	20030611	OL	QE	0.4	M		C	L	L	M	COL	S	SCH
NA12924	568951	7051026	NAD83, Z 7	HULSTEIN	20030611	OL	QE	0.3	M		C	L	L	M	COL	S	
NA12925	568762	7050933	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.5	M		B	M	H	M	COL	S	SCH
NA12926	568610	7050798	NAD83, Z 7	HULSTEIN	20030611	BN	QE	0.25	M		B	M	H	S	COL	S	SCH
NA12927	575773	7050233	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.2	M		C	L	L	F	BDR	N	SCH
NA12928	575584	7050304	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.2	M		C	L	L	F	BDR	N	GNE
NA12929	575383	7050343	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.25	M		C	L	L	F	BDR	N	SCH
NA12930	575182	7050368	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.4	M		C	L	L	G	BDR	N	SCH
NA12931	575002	7050263	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.35	M		B	L		G	BDR	N	
NA12932	574846	7050124	NAD83, Z 7	HULSTEIN	20030612	OL	QE	0.35	M		C	L	L	F	BDR	N	SCH
NA12933	574721	7049950	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.5	M		B	M	L	G	BDR	N	SCH
NA12934	574702	7049745	NAD83, Z 7	HULSTEIN	20030612	OR	QL	0.4	M		BC	L	L	G	BDR	N	SCH
NA12935	574508	7049801	NAD83, Z 7	HULSTEIN	20030612	OR	QE	0.5	M		C	L	L	G	BDR	N	
NA12936	574337	7049912	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.4	M		B	M	L	G	BDR	N	
NA12937	574155	7049991	NAD83, Z 7	HULSTEIN	20030612	OL	QE	0.6	M		C	L	L	G	BDR	N	AMP

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA12861	H		-1	-0.2	2.2	9	-10	130	0.5	-2	0.38	-0.5	14	18	12	3.52	10	-1	0.36	20	0.65
~~NA12862~~	H		-1	-0.2	3.71	3	-10	170	0.8	-2	0.6	0.6	12	8	52	6.27	10	-1	0.82	50	1.68
NA12900	M	-2M FROM O.C. - AT TOE-IN HELI PAD LZHOR - RH FIELD STW - RH 03-001	2	-0.2	2.71	6	-10	320	0.8	-2	0.08	0.7	17	34	45	4.22	10	-1	0.41	20	0.75
NA12901	M	SANE QTZ-BIO SCH FRAGS	1	-0.2	2.93	9	-10	220	0.5	2	0.1	0.6	12	26	24	4	10	-1	0.22	20	0.81
NA12902	M	LESS THAN 50M N OF CLAIM LINE - SANE BIO-QTZ SCH FLOAT	-1	-0.2	2.88	-2	-10	2940	1.2	-2	0.11	0.9	18	42	70	5.2	10	-1	0.78	70	1.08
NA12903	M		5	-0.2	2.31	11	-10	220	0.8	-2	0.19	-0.5	14	36	31	3.53	10	-1	0.32	50	0.71
NA12904	M	SAME BIO-QTZ SCH SUBCROP	-1	0.2	2.15	8	-10	230	0.5	-2	0.12	0.6	9	22	14	3.19	10	-1	0.15	10	0.58
NA12905	M	SAME BIO-QTZ SCH SUBCROP	4	-0.2	1.9	9	-10	340	0.5	-2	0.33	0.6	10	30	24	3.15	10	-1	0.13	20	0.62
NA12906	M	NEAR OUTCROP OF QUARTZ-BIOTITE SCHIST AND STATION RH03-002	3	-0.2	2.13	7	-10	170	-0.5	-2	0.21	-0.5	14	28	19	3.52	10	-1	0.03	10	0.96
NA12907	M	MED RD- BRN SL & CHL-BIO SCH FRAGS	3	-0.2	2.35	9	-10	280	0.8	-2	0.22	0.5	13	37	36	3.92	10	-1	0.13	30	0.61
NA12908	M		1	-0.2	2.08	5	-10	90	-0.5	-2	0.14	-0.5	8	20	23	2.55	10	-1	0.04	-10	0.56
NA12909	M	QTZ-MUSC. SCH FRAGS	1	-0.2	2.09	5	-10	210	-0.5	-2	0.17	-0.5	7	22	12	2.19	-10	-1	0.03	10	0.33
NA12910	M	FLOAT OF QTZ-MUSCOVITE GNEISS	-1	-0.2	2.54	5	-10	250	-0.5	-2	0.49	-0.5	8	17	10	2.01	10	-1	0.07	10	0.58
NA12911	M	QTZ.-MUSCOVITE GNEISSIC FRAGMENTS	2	-0.2	1.78	8	-10	200	-0.5	-2	0.36	-0.5	5	9	14	2.08	10	-1	0.03	10	0.25
NA12912	M	QTZ MUSCOVITE GNEISSIC FRAGMENTS	3	-0.2	1.77	6	-10	160	0.5	-2	0.21	-0.5	8	26	25	2.37	10	-1	0.03	10	0.53
NA12913	M	'C' HORIZON OF CHLORITE-BIOTITE SCHIST	3	-0.2	2.59	9	-10	190	0.5	-2	0.71	0.5	13	30	25	2.92	10	-1	0.07	10	0.6
NA12914	M	BIO-CHL SCH	1	-0.2	3.09	12	-10	220	0.5	-2	0.27	0.5	16	79	28	3.96	10	-1	0.06	10	0.88
NA12915	M		1	0.2	1.66	4	-10	150	-0.5	-2	0.3	-0.5	11	38	27	2.22	-10	-1	0.02	10	0.67
NA12916	M	CHL-BIO SCH FRAGS	2	0.3	2.95	5	-10	180	-0.5	2	0.84	0.6	13	36	57	3.36	10	-1	0.06	-10	0.81
NA12917	M	SANDY ORANGE BRN SL WITH CHL- BIO SCH FRAGS	1	-0.2	2.45	10	-10	210	-0.5	-2	0.1	0.8	11	24	31	4.09	10	-1	0.22	10	0.57
NA12918	M	CHL-HBL (+- BIO) SCH FRAGS	-1	0.3	4.12	2	-10	280	-0.5	-2	1.74	-0.5	14	36	32	2.73	10	-1	0.15	-10	1.1
NA12919	M	SANDY SOIL	1	-0.2	2.48	6	-10	260	0.5	-2	0.19	0.6	9	14	14	5.05	10	-1	0.45	10	0.78
NA12921	M	HBL-CHL-(+BIO) SCH FRAGS	-1	-0.2	2.31	6	-10	210	-0.5	-2	0.94	-0.5	17	49	104	2.81	10	-1	0.06	10	1.14
NA12922	M	RED BRN SL WITH QTZ PEBBLES	2	-0.2	1.74	8	-10	240	-0.5	-2	0.21	-0.5	9	27	14	2.61	10	-1	0.08	10	0.52
NA12923	M	GRN HBL-CHL(+-BIO) SCH	1	0.5	2.56	3	-10	310	0.5	-2	0.45	0.6	19	30	40	4.63	10	-1	0.06	10	0.88
NA12924	M		4	0.2	3.03	7	-10	370	0.5	-2	0.84	0.8	18	32	43	5.6	10	-1	0.12	10	1.19
NA12925	L	LOESS RICH,QTZ & GREEN SCH PEBBLES	3	-0.2	1.88	7	-10	290	0.5	-2	0.48	0.5	11	33	31	2.93	10	-1	0.04	10	0.61
NA12926	L	LOESS W PEBBLES OF SCH & QTZ	2	-0.2	2.53	4	-10	210	0.5	-2	0.67	0.7	15	40	39	4.03	10	-1	0.21	10	0.87
NA12927	M	NEXT TO QUARTZ-BIO SCHIST O.C.-RH03-005 AT LZH-003 PAD	1	0.6	3.14	8	-10	140	0.6	2	0.13	0.5	13	29	35	4.16	10	1	0.38	10	1.02
NA12928	M	SOME LOESS SUBCROP OF QUARTZ- FELD-BIO ORTHO-GN --FINE GR THAN 927	2	-0.2	2.36	7	-10	160	0.5	-2	0.14	0.5	13	39	24	3.23	10	-1	0.22	40	0.76
NA12929	M	QUARTZ-FOLD-BIO SCHIST	1	-0.2	2.66	10	-10	250	0.8	-2	0.09	0.6	22	48	67	3.85	10	-1	0.5	10	0.96
NA12930	M	SMALL QUARTZ-BIO SCHIST FRAGS	1	-0.2	3.58	5	-10	400	0.6	-2	0.66	0.8	18	46	19	3.91	10	-1	0.67	20	1.6
NA12931	M	MINOR LOESS	1	-0.2	2.47	6	-10	460	-0.5	-2	0.22	0.5	13	18	14	3.59	10	-1	0.07	20	1.2
NA12932	M	BIO	1	-0.2	2.9	3	-10	200	-0.5	-2	0.35	0.7	23	13	13	4.75	10	-1	0.33	20	1.76
NA12933	L	SOME LOESS, SCHIST PEBBLES	3	-0.2	2.4	9	-10	270	-0.5	-2	0.28	0.6	14	27	21	3.66	10	-1	0.07	10	1.14
NA12934	H	ORG-BRN S/ SANDY NEAR QUARTZ-FELD BIO O.C.	-1	-0.2	2.32	7	-10	250	0.6	-2	0.36	0.5	7	16	12	3.73	10	-1	0.07	10	0.32
NA12935	H	SANDY ORG-BROWN SOIL	2	0.2	2.71	15	-10	90	-0.5	2	0.25	-0.5	16	6	76	8.96	10	-1	0.03	20	1.72
NA12936	L	SOME LOESS	3	-0.2	2.19	6	-10	180	-0.5	-2	0.31	0.6	18	22	27	3.71	10	-1	0.03	10	0.89
NA12937	M	AMPHIBOLITE SCH FRAGS	2	-0.2	2.31	5	-10	170	-0.5	-2	0.23	0.6	18	19	12	4.8	10	-1	0.05	10	1.28

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA12861	321	-1	0.01	13	540	14	0.01	-2	5	28	0.13	-10	-10	52	-10	118
~~NA12862~~	782	1	0.02	6	640	8	0.41	2	8	94	0.25	-10	-10	121	-10	270
NA12900	460	1	0.01	34	250	14	0.04	-2	4	12	0.17	-10	-10	50	-10	99
NA12901	354	1	0.02	13	360	9	0.13	-2	4	18	0.1	-10	-10	66	-10	62
NA12902	468	3	0.04	39	390	18	0.11	-2	7	55	0.26	-10	-10	49	-10	253
NA12903	420	-1	0.01	26	390	12	0.01	2	6	18	0.12	-10	-10	53	-10	72
NA12904	546	1	0.01	13	220	10	0.01	-2	3	10	0.06	-10	-10	51	-10	85
NA12905	460	-1	0.01	16	370	10	0.01	-2	6	21	0.09	-10	-10	60	-10	63
NA12906	331	-1	0.01	19	450	4	0.01	2	5	16	0.07	-10	-10	74	-10	56
NA12907	341	-1	0.01	18	220	7	-0.01	-2	12	22	0.11	-10	-10	66	-10	53
NA12908	217	-1	0.01	10	140	21	-0.01	-2	4	13	0.03	-10	-10	58	-10	72
NA12909	162	-1	0.01	11	170	9	-0.01	2	3	26	0.03	-10	-10	45	-10	41
NA12910	218	-1	0.03	9	140	5	-0.01	2	3	86	0.07	-10	-10	39	-10	56
NA12911	135	-1	0.01	5	460	11	-0.01	-2	4	42	0.01	-10	-10	39	-10	39
NA12912	207	-1	0.01	15	170	12	-0.01	-2	7	39	0.07	-10	-10	50	-10	57
NA12913	478	-1	0.03	16	630	10	0.01	2	6	56	0.09	-10	-10	69	-10	76
NA12914	442	-1	0.02	31	330	6	0.01	-2	6	21	0.16	-10	-10	98	-10	59
NA12915	221	-1	0.01	20	210	6	-0.01	2	3	25	0.09	-10	-10	55	-10	39
NA12916	378	1	0.04	20	540	6	0.01	-2	6	92	0.12	-10	-10	95	-10	89
NA12917	799	-1	0.01	16	480	9	0.01	3	9	9	0.11	-10	-10	64	-10	136
NA12918	375	-1	0.05	23	940	5	-0.01	-2	5	285	0.14	-10	-10	77	-10	41
NA12919	1140	1	0.01	9	700	25	0.01	-2	13	21	0.18	-10	-10	51	-10	166
NA12921	269	-1	0.02	18	2450	6	0.01	-2	5	62	0.13	-10	-10	82	-10	45
NA12922	326	-1	0.01	15	260	9	0.01	-2	3	28	0.07	-10	-10	59	-10	47
NA12923	346	-1	0.03	14	450	6	0.01	-2	7	124	0.12	-10	-10	124	-10	76
NA12924	583	-1	0.04	16	1500	5	0.01	2	10	53	0.08	-10	-10	118	-10	190
NA12925	327	-1	0.02	21	460	7	0.01	2	6	32	0.1	-10	-10	68	-10	57
NA12926	549	-1	0.02	19	720	5	0.01	2	9	50	0.2	-10	-10	90	-10	158
NA12927	592	1	0.01	14	240	10	0.01	-2	6	13	0.16	-10	-10	90	-10	79
NA12928	366	-1	0.01	25	200	10	0.01	3	6	16	0.14	-10	-10	71	-10	50
NA12929	573	3	0.01	47	330	14	0.03	2	6	12	0.17	-10	-10	86	-10	76
NA12930	581	1	0.02	23	710	7	0.01	3	5	29	0.24	-10	-10	82	-10	96
NA12931	316	-1	0.02	13	300	5	0.01	3	10	17	0.12	-10	-10	58	-10	68
NA12932	381	-1	0.01	9	1220	-2	-0.01	-2	9	14	0.14	-10	-10	154	-10	67
NA12933	389	-1	0.01	18	460	9	0.01	2	8	22	0.11	-10	-10	76	-10	69
NA12934	615	1	0.01	8	370	4	0.01	-2	6	26	0.03	-10	-10	36	-10	43
NA12935	974	-1	0.01	4	1020	2	0.01	-2	22	17	0.03	-10	-10	46	-10	224
NA12936	437	1	0.02	15	490	7	0.01	-2	8	21	0.06	-10	-10	80	-10	58
NA12937	889	-1	0.01	11	610	4	-0.01	-2	11	15	0.06	-10	-10	99	-10	72

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA12938	573952	7050038	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.3	M		C	L	L	S	COL	N	SCH
NA12939	573752	7050070	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.35	M		B	M	M	G	BDR	N	
NA12940	573554	7050055	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.35	M		B	M	M	G	BDR	S	SCH
NA12941	573354	7050020	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.25	M		B	M	M	M	BDR	N	SCH
NA12942	573181	7049926	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.35	M		B	M	L	G	BDR	N	SCH
NA12943	572989	7049984	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.25	M		B	M	L	M	COL	N	SCH
NA12944	572805	7050070	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.5	M		B	M	M	M	COL	N	
NA12946	572643	7050189	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.4	M		B	M	M	M	COL	S	
NA12947	572471	7050285	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.5	M		B	M	M	M	COL	S	
NA12948	572282	7050372	NAD83, Z 7	HULSTEIN	20030612	BN	QE	0.5	M		B	M	M	M	COL	S	
NA12949	573087	7049723	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.4	M		B	M	L	M	COL	N	
NA12950	572968	7049562	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.45	M		B	M	M	G	COL	S	
NA12951	572801	7049436	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.55	M		B	M	M	G	COL	S	
NA12952	572638	7049327	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.4	M		B	M	M	G	COL	S	
NA12953	572449	7049389	NAD83, Z 7	HULSTEIN	20030613	TA	QE	0.6	M		BC	M	L	G	BDR	N	SCH
NA12954	572241	7049381	NAD83, Z 7	HULSTEIN	20030613	BN	QD	0.5	M		C	L	L	G	BDR	N	
NA12955	572041	7049412	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.5	M		B	L	L	G	BDR	N	
NA12956	571839	7049418	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.4	M		C	M	L	G	BDR	N	SCH
NA12957	571653	7049485	NAD83, Z 7	HULSTEIN	20030613	TA	QE	0.3	M		C	L	L	G	BDR	N	QTZ
NA12958	571450	7049420	NAD83, Z 7	HULSTEIN	20030613	OR	QL	0.35	M		C	L	L	G	BDR	N	
NA12959	571306	7049277	NAD83, Z 7	HULSTEIN	20030613	TA	QL	0.3	M		C	L	L	G	BDR	N	
NA12960	571234	7049079	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.45	M		C			G	BDR	N	
NA12961	571128	7048907	NAD83, Z 7	HULSTEIN	20030613	BN	QD	0.35	M		B	M	L	G	BDR	N	SCH
NA12962	571030	7048725	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.45	M		B	M	L	G	BDR	N	SCH
NA12963	570930	7048556	NAD83, Z 7	HULSTEIN	20030613	TA	QE	0.45	M		B	L	L	G	BDR	N	SCH
NA12965	570761	7048437	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.3	M		B	M	L	M	BDR	N	SCH
NA12966	570623	7048300	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.35	M		B	L	L	M	BDR	N	SCH
NA12967	570403	7048250	NAD83, Z 7	HULSTEIN	20030613	OL	QD	0.3	M		C	L	L	F	BDR	N	SCH
NA12968	570213	7048327	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.3	M		B	L	L	G	BDR	N	
NA12969	570025	7048415	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.25	M		B	L	L	M	BDR	N	SCH
NA12970	569866	7048292	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.2	M		B	L	L	G	BDR	N	
NA12971	569709	7048173	NAD83, Z 7	HULSTEIN	20030613	TA	QE	0.5	M	0	B	M	L	G	BDR	N	
NA12972	569505	7048132	NAD83, Z 7	HULSTEIN	20030613	TA	QE	0.4	M		B	M	L	G	BDR	N	
NA12973	569316	7048070	NAD83, Z 7	HULSTEIN	20030613	BN	QE	0.4	M		B	L	L	G	BDR	N	
NA12974	569124	7048118	NAD83, Z 7	HULSTEIN	20030613	TA	QE	0.25	M	0	B	L	L	F	BDR	N	SCH
NA12975	568958	7048247	NAD83, Z 7	HULSTEIN	20030614	BN	QE	0.25	M		B	M	L	F	BDR	S	DIA
NA12976	568759	7048226	NAD83, Z 7	HULSTEIN	20030614	BN	QE	0.3	M		B	L	L	G	BDR	S	
NA13050	575282	7044545	NAD83, Z 7	PRESNELL	20030620	TA		18	I	2	C	L	L	S	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA12938	M	MINOR LOESS COL SOIL FLOAT/SCREE OF BIO QUARTZ FELD SCHIST	1	-0.2	2.36	7	-10	110	-0.5	-2	0.35	0.6	14	26	27	2.8	10	-1	0.04	-10	0.47
NA12939	L	SOME LOESS NO FROST, JUST ROCKS	4	-0.2	1.74	8	-10	210	-0.5	-2	0.31	-0.5	10	29	24	2.65	10	-1	0.04	10	0.53
NA12940	L	SOME LOESS OL-BN SCH	3	-0.2	2.15	7	-10	150	-0.5	-2	0.18	0.6	17	29	59	3.25	-10	-1	0.02	10	0.41
NA12941	L	SOME LOESS BIO- QUARTZ- FELD SCHIST FLOAT	1	-0.2	2.04	10	-10	180	-0.5	-2	0.3	0.9	20	28	38	3.35	10	-1	0.16	10	0.81
NA12942	M	SOME LOESS FLOAT OF QUARTZ- FOLD--BIO SCHIST- SEE RH3-009	2	0.2	2.9	8	-10	150	-0.5	-2	0.2	0.5	19	43	44	3.16	10	-1	0.04	10	1.04
NA12943	M	GRAY SCH. SCREE AT RH3-009	3	-0.2	2.48	7	-10	150	-0.5	-2	0.25	0.5	18	45	29	3.09	10	1	0.19	10	1.11
NA12944	M		2	-0.2	1.54	4	-10	170	-0.5	-2	0.34	-0.5	11	37	23	2.31	-10	-1	0.08	10	0.75
NA12946	M	SANDY IN PART MINOR LOESS	3	-0.2	1.9	7	-10	160	-0.5	-2	0.22	-0.5	11	31	22	2.5	-10	1	0.04	10	0.57
NA12947	M		2	-0.2	2.52	7	-10	140	-0.5	-2	0.17	0.5	13	19	12	3.9	10	-1	0.48	10	0.83
NA12948	M		-1	-0.2	2.65	4	-10	260	0.6	-2	0.56	-0.5	13	15	18	3.63	10	-1	0.49	40	0.89
NA12949	M		3	-0.2	2.3	8	-10	220	-0.5	-2	0.33	-0.5	14	32	25	3.65	10	-1	0.2	20	0.84
NA12950	L		2	-0.2	2.2	6	-10	200	-0.5	-2	0.39	-0.5	13	22	18	3.61	10	-1	0.38	20	0.87
NA12951	L	SOME LOESS	3	-0.2	2.37	8	-10	210	-0.5	-2	0.22	-0.5	11	30	16	3.38	10	-1	0.09	10	0.7
NA12952	L	BOULDERS, LOESS & SANDY SOIL	2	-0.2	2.48	8	-10	190	-0.5	-2	0.25	-0.5	12	25	19	3.55	10	-1	0.25	20	0.82
NA12953	M	BIO-QTZ SCH FRAGS- GREY SCH C HORIZ DULL ORANGE -BRN B HORIZ SAMPLE 50-50 B&C	1	-0.2	3.24	7	-10	270	0.5	-2	0.37	-0.5	14	24	20	4.67	10	1	0.44	30	0.92
NA12954	M		-1	-0.2	3.04	4	-10	320	0.5	-2	0.91	-0.5	29	36	40	6	10	-1	0.28	10	1.32
NA12955	M		2	-0.2	2.13	7	-10	220	-0.5	-2	0.3	-0.5	11	16	12	3.53	10	-1	0.09	10	0.63
NA12956	M	'PELLY GN' FLOAT~100M TO EAST - BIO SCH FRAGS	2	-0.2	2.76	3	-10	430	0.6	-2	0.68	0.7	21	19	26	5.58	10	-1	0.77	10	1.26
NA12957	M	SANDY-QTZ PEBBLE RICH	1	-0.2	1.4	7	-10	90	-0.5	-2	0.14	-0.5	6	12	13	2.37	10	-1	0.13	20	0.49
NA12958	M	LT-MED-ORANGE BRN QTZ (SANDY) SL	2	-0.2	4.34	6	-10	170	0.9	-2	0.66	-0.5	14	13	49	4.56	10	-1	0.48	20	0.89
NA12959	M	DUPLICATE OF NA14300 TAN-LIMONITE SANDY-QTZ PEBBLE SL, MUSC-QTZ SCHIST	84	5.5	2.39	39	-10	300	0.5	46	0.28	-0.5	12	57	508	4.65	10	-1	0.21	40	0.89
NA12960	M	ORG-BRN SL	3	0.3	2.14	3	-10	270	-0.5	-2	0.28	-0.5	13	12	86	9.83	10	-1	0.26	10	0.61
NA12961	M	Q-BIO SCH FRAGS	1	-0.2	2.86	6	-10	320	-0.5	-2	0.58	-0.5	18	18	31	4.51	10	-1	0.22	10	0.87
NA12962	M	Q-BIO SCH FRAGS	2	-0.2	3	3	-10	340	0.7	-2	0.77	-0.5	13	18	22	4.62	10	-1	0.44	20	1.15
NA12963	M	SANDY QTZ BIO SCH ON CLAIM LINE DUPE OF 12964	1	-0.2	3.42	4	-10	230	0.7	-2	0.77	-0.5	15	30	27	4.54	10	-1	0.37	10	1.07
NA12965	M	QTZ-BIO SCH FRAGS	1	-0.2	3.03	4	-10	190	0.5	-2	0.78	-0.5	19	26	26	4.07	10	-1	0.27	10	1.62
NA12966	L	LOESS & SCH PEBBLES ~ 50 SANDY SL	4	-0.2	2.4	8	-10	150	-0.5	-2	0.4	-0.5	16	33	29	3.43	10	-1	0.05	10	0.71
NA12967	M	QTZ-BIO SCH FRAGS	-1	-0.2	2.79	4	-10	290	0.5	-2	0.87	-0.5	18	42	35	4.64	10	-1	0.18	10	1.16
NA12968	M	SANDY	1	-0.2	1.96	4	-10	170	0.5	-2	0.37	-0.5	10	14	10	3.37	10	-1	0.37	20	0.76
NA12969	M	MED ORG-BRU SANDY SL WITH QTZ-BIO SCH BOULDERS	-1	-0.2	3.69	10	-10	170	0.6	-2	0.09	-0.5	18	21	26	6.25	10	-1	0.82	10	1.34
NA12970	M	MED ORANGE BRU COLOR, SANDY SL	1	-0.2	2.86	6	-10	80	0.5	-2	0.05	-0.5	10	9	8	4.35	10	-1	0.25	-10	0.79
NA12971	M		2	-0.2	2.04	6	-10	140	1.1	-2	0.25	-0.5	12	14	30	4.72	10	-1	0.46	40	0.62
NA12972	M		2	-0.2	2.42	6	-10	120	0.7	-2	0.12	-0.5	11	14	31	3.96	10	-1	0.33	20	0.65
NA12973	M	SANDY ORANGE - BRN SL	1	-0.2	4.07	4	-10	210	0.9	-2	0.56	-0.5	26	158	39	5.48	20	-1	0.23	50	2.37
NA12974	L	SOME LOESS QTZ & QTZ BIO SCH	2	-0.2	2.73	8	-10	190	0.6	-2	0.15	-0.5	13	29	23	3.42	10	-1	0.08	10	0.53
NA12975	M	SOME LOESS SMALL PEBBLES OF FINE GR INTERMEDIATE DYKE SILVER SULFIDE ON LIMONITE FRACTURE	6	-0.2	1.86	8	-10	240	0.6	-2	0.25	-0.5	11	34	36	3.63	10	-1	0.08	30	0.52
NA12976	M	SANDY ORANGE-BROWN SOIL	2	-0.2	2.85	6	-10	150	0.5	-2	0.18	-0.5	17	18	21	4.88	10	-1	0.51	20	1.09
NA13050	H	QTZ. MUSC. SCHIST	1	-0.2	2.12	6	-10	210	0.5	-2	0.43	-0.5	11	27	37	3.47	10	-1	0.45	30	0.92

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA12938	278	-1	0.02	16	660	4	0.01	2	4	16	0.09	-10	-10	67	-10	33
NA12939	288	-1	0.01	20	750	8	0.01	-2	4	21	0.07	-10	-10	59	-10	49
NA12940	249	-1	0.02	19	390	5	0.03	3	3	20	0.08	-10	-10	60	-10	45
NA12941	482	-1	0.02	17	630	6	0.01	2	4	14	0.14	-10	-10	72	-10	105
NA12942	291	-1	0.01	26	200	4	0.01	2	3	24	0.14	-10	-10	73	-10	53
NA12943	507	-1	0.01	23	830	6	0.01	3	2	21	0.16	-10	-10	67	-10	55
NA12944	275	-1	0.01	20	480	4	-0.01	2	3	24	0.11	-10	-10	54	-10	44
NA12946	234	-1	0.01	17	370	4	-0.01	-2	3	17	0.09	-10	-10	59	-10	45
NA12947	513	-1	0.01	10	560	4	0.01	3	3	13	0.15	-10	-10	71	-10	64
NA12948	617	-1	0.01	9	1080	3	0.01	-2	5	33	0.12	-10	-10	60	-10	65
NA12949	501	-1	0.02	24	310	7	0.01	-2	5	23	0.18	-10	-10	73	-10	71
NA12950	535	-1	0.02	16	550	6	0.01	-2	4	24	0.23	-10	-10	69	-10	69
NA12951	350	-1	0.01	18	270	7	0.01	-2	4	17	0.16	-10	-10	71	-10	57
NA12952	490	-1	0.01	17	390	6	0.01	-2	4	19	0.19	-10	-10	69	-10	67
NA12953	495	-1	0.01	14	400	8	-0.01	-2	8	32	0.11	-10	-10	77	-10	65
NA12954	956	-1	0.06	18	1100	3	0.01	-2	11	155	0.29	-10	-10	164	-10	92
NA12955	330	-1	0.01	12	540	9	-0.01	-2	5	23	0.06	-10	-10	75	-10	55
NA12956	721	-1	0.03	12	750	8	-0.01	-2	9	36	0.32	-10	-10	112	-10	119
NA12957	283	-1	0.01	7	600	7	-0.01	-2	8	6	0.09	-10	-10	54	-10	57
NA12958	831	-1	0.02	10	640	13	0.06	-2	4	61	0.17	-10	-10	49	-10	156
NA12959	273	6	0.03	35	1340	35	0.3	-2	9	37	0.06	-10	-10	108	-10	101
NA12960	218	1	0.09	7	1000	7	0.47	-2	17	52	0.63	-10	-10	353	-10	70
NA12961	477	-1	0.03	15	280	6	0.03	-2	7	70	0.27	-10	-10	119	-10	71
NA12962	803	-1	0.02	14	390	4	-0.01	-2	12	67	0.24	-10	-10	67	-10	135
NA12963	917	-1	0.02	17	660	8	-0.01	-2	7	57	0.21	-10	-10	72	-10	164
NA12965	517	-1	0.03	19	1130	4	-0.01	-2	5	82	0.25	-10	-10	107	-10	106
NA12966	447	-1	0.02	23	410	5	0.01	-2	5	39	0.11	-10	-10	78	-10	55
NA12967	529	-1	0.05	21	1120	4	-0.01	-2	9	48	0.24	-10	-10	123	-10	59
NA12968	586	-1	0.01	10	380	14	-0.01	-2	3	38	0.15	-10	-10	51	-10	67
NA12969	956	-1	0.01	17	370	10	0.01	2	10	9	0.3	-10	-10	101	-10	142
NA12970	482	-1	0.01	6	220	5	0.01	-2	6	6	0.13	-10	-10	74	-10	73
NA12971	703	-1	0.01	10	480	10	0.01	-2	11	18	0.13	-10	-10	65	-10	104
NA12972	550	1	0.01	9	280	7	-0.01	-2	5	11	0.12	-10	-10	51	-10	59
NA12973	989	-1	0.03	78	280	3	-0.01	-2	8	38	0.3	-10	-10	86	-10	113
NA12974	315	-1	0.01	25	220	10	0.01	-2	5	14	0.11	-10	-10	62	-10	67
NA12975	392	-1	0.01	22	250	13	-0.01	-2	12	18	0.09	-10	-10	68	-10	81
NA12976	1110	-1	0.01	15	740	8	0.01	-2	6	14	0.25	-10	-10	76	-10	116
NA13050	399	-1	0.02	22	230	7	0.02	-2	6	66	0.19	-10	-10	57	-10	82

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA13051	575399	7044371	NAD83, Z 7	PRESNELL	20030620	BN	QE	1	F	2	C	L	L	G	BDR	N	AMP
NA13052	575362	7043991	NAD83, Z 7	PRESNELL	20030620	TA	QD	2.5	I	3	C	M	L	G	BDR	N	SCH
NA13053	577601	7045812	NAD83, Z 7	PRESNELL	20030620	TA	QD	1	F	2	C	L	L	F	BDR	S	SCH
NA13054	577989	7045589	NAD83, Z 7	PRESNELL	20030620	TA		2.5	I	2	C	L	L	G	BDR	S	SCH
NA13055	578174	7045467	NAD83, Z 7	PRESNELL	20030620	BN	QL	6	I	3	C	L	L	G	BDR	N	SCH
NA13056	578330	7045380	NAD83, Z 7	PRESNELL	20030620	BN	QE	2.5	I	3	C	M	L	G	BDR	S	AMP
NA13057	578599	7045069	NAD83, Z 7	PRESNELL	20030620	BN		2	I	5	C	L	L	G	BDR	N	SCH
NA13058	578786	7044914	NAD83, Z 7	PRESNELL	20030620	BN		10	I	2	C	L	L	G	BDR	N	SCH
NA13059	578826	7044673	NAD83, Z 7	PRESNELL	20030620	BN	QE	8	I	3	C	L	L	S	BDR	N	SCH
NA13100	573286	7048092	NAD83, Z 7	HULSTEIN	20030621	OL	QE	0.3	M		C	L	L	F	BDR	N	AMP
NA13101	573325	7047891	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.2	M		B	L	L	G	BDR	N	SCH
NA13102	573341	7047684	NAD83, Z 7	HULSTEIN	20030621	TA	QE	0.4	M		B	L	L	G	BDR	N	SCH
NA13103	573293	7047464	NAD83, Z 7	HULSTEIN	20030621	TA	QL	0.3	M		B	L	L	G	BDR	N	SCH
NA13104	573326	7047263	NAD83, Z 7	HULSTEIN	20030621	TA	QE	0.5	M	0	B	L	M	F	BDR	N	
NA13105	573367	7047071	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.5	M		C	L	L	M	BDR	N	
NA13107	573372	7046866	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.45	M		C	L	L	M	BDR	N	
NA13108	573311	7046661	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.5	M		B	M	L	M	COL	S	SCH
NA13109	573360	7046446	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.5	M		B	L	L	M	BDR	S	
NA13110	573338	7046230	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.65	M		C	L	L	S	COL	N	SCH
NA13111	573349	7045990	NAD83, Z 7	HULSTEIN	20030621	BN	QE	0.6	M		B	L	M	M	COL	N	SCH
NA13348	572859	7059122	NAD83, Z 7	BOYER	20030624	BN	QE	0.3	M	5	B	M	L	M	BDR	N	
NA13349	572899	7058884	NAD83, Z 7	BOYER	20030624	BN	QE	0.3	M	10	B	M	L	G	BDR	N	
NA13500	572928	7058651	NAD83, Z 7	BOYER	20030624	BN	QE	0.3	M	10	B	M	M	M	BDR	N	
NA13501	572878	7058436	NAD83, Z 7	BOYER	20030624	GN	QU	0.3	M	5	B	M	M	G	BDR	N	
NA13502	572788	7058201	NAD83, Z 7	BOYER	20030624	BN	QE	0.3	M	5	B	M	M	G	BDR	N	
NA13503	572709	7058007	NAD83, Z 7	BOYER	20030624	BN	QE	0.3	M	5	B	M	M	M	BDR	N	
NA13725	571098	7048901	NAD83, Z 7	HULSTEIN	20030724	OL	QE	0.25	M		C	L	L	F	BDR	N	AMP
NA13726	571202	7048899	NAD83, Z 7	HULSTEIN	20030724	OR	QE	0.5	M		C	L	L	F	BDR	N	SCH
NA13727	571302	7048899	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.4	M		B	L	L	G	COL	N	AMP
NA13728	571402	7048900	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.35	M		B	L	L	M	COL	N	AMP
NA13729	571502	7048899	NAD83, Z 7	HULSTEIN	20030724	TA	QE	0.7	M		B	L	L	M	COL	N	SCH
NA13730	571500	7048700	NAD83, Z 7	HULSTEIN	20030724	GY	QD	0.5	M	10	B	L	M	M	COL	P	AMP
NA13731	571401	7048702	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.4	M	5	B	L	L	M	COL	N	SCH
NA13732	571298	7048701	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.4	M		B	L	L	M	COL	N	AMP
NA13733	571199	7048699	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.4	M		B	L	L	G	COL	N	AMP
NA13734	571300	7049100	NAD83, Z 7	HULSTEIN	20030724	TA	QE	0.35	M		C	L	L	G	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA13051	H		10	-0.2	1.88	8	-10	280	-0.5	-2	0.35	-0.5	11	24	32	3.39	10	-1	0.51	30	0.61
~~NA13052~~	H	MUSCOVITE SCHIST	2	-0.2	1.71	5	-10	350	-0.5	-2	0.36	-0.5	11	28	43	2.94	10	-1	0.25	20	0.69
NA13053	H	MUSCOVITE SCHIST	2	-0.2	2.61	8	-10	280	0.6	-2	0.6	-0.5	14	57	43	4.22	10	-1	0.63	40	1.05
NA13054	H	MUSCOVITE SCHIST	3	-0.2	1.73	9	-10	190	-0.5	-2	0.4	-0.5	11	30	24	3.17	10	-1	0.19	30	0.71
NA13055	H	QUARTZ MUSCOVITE SCHIST	2	-0.2	1.89	6	-10	120	-0.5	-2	0.27	-0.5	11	24	17	3.15	10	-1	0.39	10	0.91
NA13056	M		1	-0.2	2.28	6	-10	230	-0.5	-2	0.48	-0.5	15	28	34	3.85	10	-1	0.78	10	1.25
NA13057	H	QUARTZ BIOTITE SCHIST	-1	-0.2	2.46	7	-10	290	-0.5	-2	0.44	-0.5	14	20	225	3.88	10	-1	0.56	10	0.95
NA13058	H	QTZ MUSCOVITE SCHIST	2	-0.2	2.76	3	-10	330	-0.5	-2	0.39	-0.5	15	24	18	3.91	10	-1	0.21	10	1.02
NA13059		QTZ. SCHIST	2	-0.2	1.98	6	-10	150	-0.5	-2	0.39	-0.5	11	25	39	3.31	10	-1	0.4	10	0.79
NA13100	H	DECOMPOSED AMPHIBOLITE SOIL, SANDY TEXTURE	-1	-0.2	2.5	4	-10	140	-0.5	-2	1.01	-0.5	16	28	37	3.65	10	-1	0.07	-10	1.09
NA13101	M	LOESS, FLOAT OF FELSIC SCHIST AND AMPHIBOLITE	-1	-0.2	2.36	6	-10	210	-0.5	-2	0.54	0.5	15	19	8	4.84	10	-1	0.13	-10	0.89
NA13102	M	FLOAT OF WHITE FELSIC (QTZ-FELD) SCHIST NEARBY	-1	-0.2	3.49	5	-10	480	-0.5	-2	0.52	-0.5	12	14	17	3.7	10	-1	0.7	10	1.32
NA13103	M	SOME LOESS?, PEBBLES OF FELSIC SCHIST	-1	-0.2	3.23	6	-10	240	-0.5	-2	0.52	-0.5	9	16	16	3.36	10	-1	0.22	10	0.51
NA13104	M		2	-0.2	2.46	5	-10	160	0.6	-2	0.65	-0.5	10	43	23	3.67	10	-1	0.15	20	0.86
NA13105	H		1	-0.2	3.24	5	-10	140	0.7	-2	1.69	-0.5	7	18	28	3.17	10	-1	0.29	10	0.68
NA13107	H		1	-0.2	2.58	8	-10	210	0.6	-2	0.51	-0.5	19	14	50	6.63	10	-1	0.34	10	0.64
NA13108	M	MINOR LOESS, N50% 'C' OF DECOMPOSED SCHIST (WITH MUSC)	-1	-0.2	2.75	3	-10	1030	0.9	-2	0.6	0.8	12	89	89	4.91	10	-1	0.66	30	1.67
NA13109	M		3	0.3	0.4	7	-10	140	-0.5	-2	15	0.7	4	7	41	1.25	-10	-1	0.02	10	6.1
NA13110	H	SOME 'B' HORIZON, DECOMPOSED SCHIST	2	-0.2	1.97	5	-10	180	0.5	-2	0.55	1	8	10	65	3.32	10	-1	0.68	40	0.94
NA13111	M	QTZ-FELD-MUSC SCHIST FLOAT AT NEARBY COLLAPSED PINGO SANDY 'B' HORIZON	9	-0.2	1.89	6	-10	160	-0.5	-2	0.8	-0.5	10	12	44	3	10	-1	0.32	20	0.75
NA13348	H		-1	-0.2	1.86	9	-10	220	-0.5	-2	0.31	-0.5	12	30	16	3.14	-10	-1	0.16	10	0.57
NA13349	H		-1	-0.2	1.76	6	-10	130	-0.5	-2	0.15	-0.5	10	26	11	2.97	10	-1	0.12	30	0.53
NA13500	H		-1	-0.2	1.92	7	-10	230	-0.5	-2	0.25	-0.5	10	30	13	2.9	-10	-1	0.1	10	0.56
NA13501	H		2	-0.2	2.78	6	-10	320	-0.5	-2	0.82	-0.5	13	39	29	3	10	-1	0.09	10	0.99
NA13502	H		1	-0.2	1.78	9	-10	230	-0.5	-2	0.29	-0.5	12	32	21	3.06	-10	-1	0.15	10	0.64
NA13503	H		-1	-0.2	1.67	9	-10	230	-0.5	-2	0.26	-0.5	10	32	20	2.72	10	-1	0.06	10	0.49
NA13725	H	OLIVE-BRN COLOUR, RK TYPE: AMP; BIO RICH	-1	-0.2	3.04	5	-10	270	-0.5	-2	0.66	-0.5	19	16	28	5.01	10	1	0.24	10	0.95
NA13726	H	LIMONITE ORANGE-YELLOW COLOUR, RK TYPE: SCH-QTZ-MUSC-BIO	-1	-0.2	4.13	3	-10	630	-0.5	2	0.21	-0.5	8	10	35	4.91	10	-1	0.45	40	1.96
NA13727	M	MINOR RUSTY-LIM PATCHES, RK TYPE: AMP; BIO RICH	-1	-0.2	2.82	4	-10	380	-0.5	-2	0.42	-0.5	8	17	42	6.13	10	-1	0.27	10	1.25
NA13728	M	MINOR RUSTY LIMONITE PATCHES, AMP FLOAT AT SITE	-1	-0.2	3.22	6	-10	250	-0.5	-2	0.6	-0.5	10	7	64	6.97	10	2	0.11	10	0.88
NA13729	M	MINOR LIMONITE TINGE TO COLOR, ROCK TYPE: SCH; MUSC>> BIO, NEXT TO S. RYAN GRID #L5500N/2400E	64	1	2.07	14	-10	320	0.7	3	0.66	1.4	14	44	1495	5.55	10	1	0.21	50	1.01
NA13730	M	BLACK ORGANICS MIXED WITH B HORIZON WITH AMP PEBBLES, LIM PATCHES	1	0.2	2.15	4	-10	190	-0.5	-2	0.48	-0.5	8	32	44	3.7	10	2	0.09	10	0.8
NA13731	M	10% LOESS? RK TYPE: SCH; MUSC-QTZ, TAN WEAK	-1	-0.2	1.95	5	-10	260	-0.5	-2	0.52	-0.5	11	15	25	3.25	10	1	0.1	10	0.61
NA13732	M	SOME LOESS (APPROX 25%), RK TYPE: AMP AND QTZ-MUSC SCHIST PEBBLES	-1	-0.2	2.11	4	-10	220	-0.5	-2	0.5	-0.5	11	23	23	2.87	10	-1	0.08	10	0.78
NA13733	M	WEAK ORANGE TINGE, RK TYPE: AMP AND SCH	1	-0.2	2.69	3	-10	450	0.5	-2	0.37	-0.5	10	23	39	3.85	10	2	0.19	10	0.83
NA13734	H	RK TYPE: SCH; MICACEOUS	4	0.2	2.06	5	-10	260	0.8	-2	0.26	-0.5	20	36	65	4.08	10	2	0.21	40	0.79

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA13051	407	-1	0.02	20	600	9	0.02	-2	6	32	0.16	-10	-10	55	-10	69
NA13052	300	-1	0.05	21	370	7	0.02	-2	5	29	0.16	-10	-10	53	-10	60
NA13053	499	-1	0.03	40	630	23	0.01	-2	10	36	0.26	-10	-10	67	-10	72
NA13054	301	-1	0.02	20	320	8	0.01	-2	5	27	0.15	-10	-10	59	-10	47
NA13055	389	-1	0.01	14	220	6	0.01	-2	3	18	0.17	-10	-10	66	-10	50
NA13056	516	-1	0.02	17	530	4	0.01	-2	6	28	0.2	-10	-10	84	-10	63
NA13057	741	2	0.01	13	950	7	0.01	-2	3	27	0.14	-10	-10	75	-10	108
NA13058	1115	-1	0.02	15	1200	6	0.01	-2	5	27	0.18	-10	-10	69	-10	196
NA13059	368	-1	0.02	16	330	5	0.01	-2	4	25	0.16	-10	-10	66	-10	53
NA13100	370	-1	0.07	18	410	3	-0.01	-2	7	28	0.25	-10	-10	95	-10	58
NA13101	450	-1	0.05	11	1900	6	0.01	-2	6	16	0.24	-10	-10	121	-10	74
NA13102	415	-1	0.03	13	370	7	-0.01	-2	2	152	0.27	-10	-10	65	-10	111
NA13103	487	-1	0.02	16	340	5	0.01	-2	8	42	0.16	-10	-10	39	-10	81
NA13104	477	-1	0.04	26	170	3	-0.01	-2	9	33	0.16	-10	-10	43	-10	70
NA13105	416	-1	0.03	14	650	5	-0.01	-2	10	100	0.09	-10	-10	39	-10	49
NA13107	615	2	0.03	11	940	7	0.05	-2	12	46	0.14	-10	-10	47	-10	116
NA13108	566	2	0.03	55	1360	11	0.09	-2	6	72	0.26	-10	-10	109	-10	193
NA13109	1545	1	0.02	25	1880	10	0.02	-2	1	86	0.01	-10	-10	16	-10	42
NA13110	796	1	0.02	12	560	63	0.02	-2	5	36	0.16	-10	-10	36	-10	279
NA13111	489	1	0.02	10	700	7	0.02	-2	5	55	0.12	-10	-10	49	-10	67
NA13348	326	-1	0.01	20	370	9	0.01	-2	4	26	0.12	-10	-10	68	-10	61
NA13349	207	-1	0.01	18	220	9	-0.01	-2	3	15	0.09	-10	-10	50	-10	56
NA13500	369	-1	0.01	18	240	12	0.01	-2	3	22	0.1	-10	-10	63	-10	59
NA13501	414	-1	0.2	26	1270	5	-0.01	-2	8	37	0.15	-10	-10	65	-10	45
NA13502	348	-1	0.01	20	260	7	0.01	-2	5	24	0.11	-10	-10	66	-10	53
NA13503	255	-1	0.01	23	210	7	0.01	-2	4	22	0.08	-10	-10	60	-10	54
NA13725	447	-1	0.06	13	470	4	0.01	-2	8	120	0.22	-10	-10	126	-10	61
NA13726	272	3	0.03	9	950	4	0.47	-2	18	126	0.22	-10	-10	79	-10	52
NA13727	448	-1	0.12	9	1290	8	0.61	-2	10	85	0.17	-10	-10	108	-10	109
NA13728	444	-1	0.1	9	1380	10	0.24	-2	9	52	0.19	-10	-10	148	-10	101
NA13729	466	16	0.01	75	2170	22	0.06	-2	11	30	0.07	-10	-10	95	-10	320
NA13730	242	2	0.03	18	740	6	0.09	-2	9	45	0.14	-10	-10	85	-10	53
NA13731	352	-1	0.02	11	730	5	0.03	-2	7	42	0.15	-10	-10	73	-10	60
NA13732	369	-1	0.02	16	370	5	0.01	-2	5	60	0.17	-10	-10	75	-10	63
NA13733	409	-1	0.02	18	220	9	0.01	-2	8	56	0.17	-10	-10	82	-10	165
NA13734	646	1	0.01	71	780	32	0.01	-2	7	18	0.08	-10	-10	52	-10	374

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA13735	571200	7049301	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.3	M		B	L	L	G	BDR	N	AMP
NA13736	571099	7049301	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.4	M		B	L	L	M	COL	N	AMP
NA13737	571001	7049299	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.4	M		B	L	L	M	COL	N	AMP
NA13738	570349	7050000	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.35	M		B	L	L	G	BDR	N	
NA13739	570450	7050000	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.5	M		B	L	L	M	BDR	N	SCH
NA13740	570653	7050003	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.35	M	10	B	L	L	M	COL	N	
NA13742	570856	7050001	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.4	M		B	L	L	S	COL	N	AMP
NA13743	570953	7049995	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.5	M		B	L	L	S	COL	N	
NA13744	571055	7050007	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.25	M	5	B	L	H	M	COL	P	
NA13745	571151	7050005	NAD83, Z 7	HULSTEIN	20030724	BN	QE	0.2	M	5	B	M	M	G	COL	P	SCH
NA13746	571175	7054398	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.5	M		C	L	L	G	BDR	N	SCH
NA13747	571033	7054535	NAD83, Z 7	HULSTEIN	20030725	BN	QE	0.2	M	5	B	L	H	G	COL	P	SCH
NA13748	570895	7054682	NAD83, Z 7	HULSTEIN	20030725	BN	QE	0.4	M		B	M	M	M	COL	N	SCH
NA13749	570755	7054820	NAD83, Z 7	HULSTEIN	20030726	BN	QE	0.5	M		B	L	L	M	BDR	N	SCH
NA14034	572752	7046807	NAD83, Z 7	FRANKLIN	20030805	BN	QD	0.75	M	1	C	L	H	G	BDR	S	SCH
NA14035	572848	7046804	NAD83, Z 7	FRANKLIN	20030805	GN	QE	0.65	M	2	C	L	L	G	BDR	N	SCH
NA14036	572955	7046801	NAD83, Z 7	FRANKLIN	20030805	BF	QD	0.45	M	1	C	L	L	G	BDR	N	SCH
NA14037	573042	7046801	NAD83, Z 7	FRANKLIN	20030805	BN	QD	0.75	M	1	C	L	H	G	BDR	S	SCH
NA14038	573149	7046800	NAD83, Z 7	FRANKLIN	20030805	BF	QE	0.5	M	1	C	L	L	M	COL	N	SCH
NA14039	573252	7046803	NAD83, Z 7	FRANKLIN	20030805	GN	QE	0.55	M	1	C	L	L	M	BDR	N	AMP
NA14040	573358	7046805	NAD83, Z 7	FRANKLIN	20030805	GY	QD	0.5	M	2	C	L	L	M	BDR	N	SCH
NA14041	573244	7046599	NAD83, Z 7	FRANKLIN	20030805	BN	QE	0.3	M	3	C	H	H	F	COL	N	SCH
NA14042	573350	7046616	NAD83, Z 7	FRANKLIN	20030805	BF	QE	0.2	M	1	C	L	L	G	BDR	N	SCH
NA14043	573441	7046619	NAD83, Z 7	FRANKLIN	20030805	BN	QL	0.45	M		C	L	M	G	BDR	N	SCH
NA14044	573547	7046610	NAD83, Z 7	FRANKLIN	20030805	BF	QD	0.45	M	7	C	H	H	G	COL	N	QTZ
NA14045	573351	7046404	NAD83, Z 7	FRANKLIN	20030805	TA	QL	0.35	M		C	L	L	G	BDR	N	SCH
NA14046	573448	7046409	NAD83, Z 7	FRANKLIN	20030805	BF	QE	0.4	M	2	C	L	L	G	BDR	N	SCH
NA14047	573546	7046404	NAD83, Z 7	FRANKLIN	20030805	BN	QE	0.5	M		C	L	L	G	BDR	N	SCH
NA14048	573437	7052419	NAD83, Z 7	FRANKLIN	20030806	BF	QL	0.5	M	5	C	L	L	G	BDR	N	SCH
NA14049	573510	7052490	NAD83, Z 7	FRANKLIN	20030806	RD	QU	0.25	M	0	C	L	L	G	BDR	N	SCH
NA14140	573091	7046212	NAD83, Z 7	FRANKLIN	20030808	TA	QL	0.5	M	1	C	L	M	G	BDR	N	SCH
NA14141	573159	7046192	NAD83, Z 7	FRANKLIN	20030808	BN	QE	0.2	M	5	C	L	L	G	COL	N	SCH
NA14142	573254	7046199	NAD83, Z 7	FRANKLIN	20030808	TA	QE	0.3	M	3	C	L	L	G	BDR	N	SCH
NA14143	573358	7046218	NAD83, Z 7	FRANKLIN	20030808	BN	QL	0.55	M	2	C	L	M	G	BDR	N	SCH
NA14144	573461	7046190	NAD83, Z 7	FRANKLIN	20030808	BF	OR	0.5	M	1	C	H	M	F	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA13735	M		1	-0.2	2.63	3	-10	300	-0.5	-2	0.32	-0.5	12	37	94	4.55	10	-1	0.26	10	1.06
~~NA13736~~	M		1	-0.2	3.5	5	-10	160	-0.5	-2	0.73	-0.5	23	15	96	5.89	10	2	0.06	10	1.12
NA13737	M	SOME LOESS?	-1	-0.2	3.38	4	-10	220	-0.5	-2	1.2	-0.5	11	17	23	4.05	10	2	0.16	10	0.86
NA13738	M	SANDY SL	-1	-0.2	3.3	5	-10	270	0.7	-2	0.8	-0.5	11	32	35	4.09	10	1	0.27	20	1.08
NA13739	M	RK TYPE: QTZ-MUSC SCHIST	-1	-0.2	4.39	3	-10	260	0.6	-2	1.12	-0.5	8	16	26	3.67	10	1	0.28	10	0.72
NA13740	L	SOME LOESS, APPROX 20%?	2	-0.2	3.61	5	-10	210	0.7	-2	1.24	-0.5	15	14	172	3.81	10	1	0.14	10	0.96
NA13742	M	ROCK TYPE: AMP, MINOR LIM PATCHES	3	-0.2	1.76	5	-10	220	-0.5	-2	0.48	-0.5	9	23	44	3.87	10	1	0.11	10	0.7
NA13743	M	SANDY	28	-0.2	2.62	4	-10	340	-0.5	-2	1.3	-0.5	12	30	37	3.98	10	2	0.35	20	1.08
NA13744	M	SANDY	4	0.3	2.17	2	-10	250	-0.5	-2	0.54	-0.5	7	20	143	2.97	10	-1	0.22	30	0.66
NA13745	M	SOME LOESS? RK T YPE: SCH, MICACEOUS, LIMONITE WEATHERING	-1	0.4	1.97	3	-10	140	0.6	-2	0.43	-0.5	4	13	132	3.48	10	1	0.26	40	0.56
NA13746	H	RX-MICACEOUS SCH TA-OR (LIMONITE) COLOR	-1	-0.2	2.55	5	-10	350	1.2	-2	0.23	-0.5	21	37	71	4.04	10	3	0.7	40	1.1
NA13747	M	SOME LOS RX - MICACEOUS SCH	2	-0.2	2.29	11	-10	150	0.7	-2	0.15	-0.5	14	33	36	3.69	10	1	0.32	40	0.73
NA13748	M	SOME LOS ~25% RX-MICACEOUS SCH	2	-0.2	1.82	4	-10	2910	-0.5	-2	0.2	-0.5	10	31	46	2.82	-10	1	0.26	40	0.71
NA13749	M	SANDY, RK TYPE: MICACEOUS SCHIST	10	0.4	3.68	2	-10	190	-0.5	-2	0.31	-0.5	5	10	91	4.82	10	1	0.75	20	0.94
NA14034	M	NO SOLID CHIPS OR ROCK-LOOKS BIO-RICH,V.WTHRD	5	-0.2	2.15	6	-10	300	0.5	-2	0.7	-0.5	10	34	23	3.48	10	-1	0.56	20	0.93
NA14035	H	HOR-BIO SCH,GN-BN SOIL	2	-0.2	3.02	6	-10	170	-0.5	-2	1.74	-0.5	14	24	41	4.19	10	-1	0.21	10	0.95
NA14036	H	HOR-BIO SCH, MINOR FeOx	4	-0.2	2.59	5	-10	160	0.5	-2	0.95	-0.5	15	11	33	5.36	10	-1	0.07	20	1.1
NA14037	M	V. WET LOESS+SOIL DOWN TO .75M TOP FEW CM'S OF HORIZON IS PARTIALLY FROZEN-VEGITATION DOESNÆT LOOK LIKE IT SHOPULD BE PERMA FROST	9	-0.2	1.92	9	-10	290	-0.5	-2	0.53	-0.5	9	20	28	3.5	10	-1	0.3	10	0.79
NA14038	H	HOR-BIO-QTZ-FEL SCH MINOR FeOx	4	-0.2	2.58	4	-10	360	0.7	2	0.61	-0.5	34	12	30	5.69	10	-1	0.26	10	0.84
NA14039	H	SOME BUFF COLORED SOIL, PROBABLY FROM FELDSPATHIC INTERLAYERS MINOR HEM STM OR RX CHIPS	6	-0.2	1.88	4	-10	160	-0.5	-2	0.79	-0.5	17	11	43	3.74	10	-1	0.12	10	0.87
NA14040	M	HOR-BIO-QTZ-FEL SCH	2	-0.2	2.89	6	-10	380	-0.5	2	0.87	-0.5	13	40	18	4.03	10	-1	0.52	20	1.16
NA14041	H	PRMINENT BREAK IN SLOPE THAT IS ARCUATE COULD BE THE MAKINGS OF A COLLAPSE FEATURE, THERE IS A SMALL ONE A FEW 10'S OF m TO THE NORTH & A LARGE ONE A FEW 100 m TO THE SOUTH BIO SCH	5	-0.2	2.39	5	-10	720	0.7	-2	0.5	-0.5	10	63	74	4.07	10	-1	0.49	30	1.1
NA14042	H	BULL QTZ CHIPS ALSO PRESENT V. MICACEOUS SOIL	-1	-0.2	2.1	6	-10	220	0.7	-2	0.38	-0.5	8	33	33	2.63	10	-1	0.42	20	0.89
NA14043	H	BIO-QTZ-FEL SCH	7	-0.2	2.44	8	-10	190	0.6	-2	0.93	-0.5	6	13	29	2.71	10	-1	0.54	30	0.69
NA14044	M		1	0.2	2.51	9	-10	220	1.1	2	1.18	-0.5	10	37	45	3.29	10	-1	0.27	20	0.8
NA14045	H	V. MICACEOUS MUS SCH	31	0.5	1.15	-2	-10	170	-0.5	2	0.36	-0.5	3	4	359	2.22	-10	-1	0.53	60	0.8
NA14046	H	MUS-BIO SCH	18	0.3	2.01	6	-10	200	0.7	5	0.23	-0.5	9	15	74	3.7	10	-1	0.53	60	0.68
NA14047	H	MUSC-BIO SCH	3	-0.2	2.39	3	-10	220	0.6	3	0.54	-0.5	8	11	93	3.45	10	-1	0.69	20	0.91
NA14048	H	MUS-QTZ-FEL SCHIST	6	0.4	1.69	10	-10	310	-0.5	3	0.22	-0.5	6	26	58	4.33	-10	-1	0.44	40	0.73
NA14049	H	BIO SCHIST. OUTCROP WITHIN 2M	3	-0.2	3.45	6	-10	2680	1.7	2	0.36	-0.5	24	92	89	5.18	10	-1	1.14	50	1.84
NA14140	H	V.MICACEOUS SL	103	0.5	1.7	11	-10	200	-0.5	2	0.55	-0.5	15	19	282	3.04	-10	-1	0.16	40	0.79
NA14141	M	BIO-QTZ-FEL SCH COULDN'T PENETRATE ROCKY COLLUVIUM	8	0.2	4.2	3	-10	110	1	2	1.52	0.5	9	8	70	4.21	10	-1	0.33	20	0.57
NA14142	M	40M FROM PINGO BIO-QTZ-FEL SCH	5	-0.2	2.81	3	-10	180	0.8	-2	0.99	0.9	7	13	52	2.99	10	-1	0.39	50	0.66
NA14143	H	MUS-BIO-QTZ-FEL SCH MINOR FEOX	5	-0.2	2.32	4	-10	190	0.6	2	0.49	0.9	9	14	85	3.91	10	-1	0.71	30	0.8
NA14144	H		10	-0.2	2.87	2	-10	190	0.8	2	0.93	-0.5	7	13	47	2.81	10	-1	0.44	40	0.7

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA13735	512	-1	0.03	18	500	38	0.06	-2	8	27	0.2	-10	-10	122	-10	266
~~NA13736~~	589	-1	0.09	17	740	3	0.13	-2	14	55	0.2	-10	-10	160	-10	87
NA13737	447	-1	0.04	11	1010	4	0.05	-2	7	110	0.19	-10	-10	101	-10	76
NA13738	813	-1	0.02	22	340	8	0.02	2	8	87	0.27	-10	-10	71	-10	399
NA13739	719	-1	0.01	15	500	9	0.01	-2	6	116	0.19	-10	-10	53	-10	176
NA13740	395	-1	0.02	12	440	6	0.03	-2	10	136	0.18	-10	-10	82	-10	69
NA13742	366	1	0.08	15	950	8	0.29	-2	6	51	0.11	-10	-10	81	-10	60
NA13743	578	-1	0.04	17	1430	11	0.01	2	9	76	0.24	-10	-10	86	-10	121
NA13744	362	1	0.02	14	580	7	0.02	-2	4	45	0.13	-10	-10	53	-10	87
NA13745	275	2	0.04	7	470	64	0.38	-2	4	66	0.12	-10	-10	38	-10	136
NA13746	486	4	0.01	55	680	11	0.01	-2	4	13	0.16	-10	-10	42	-10	112
NA13747	298	-1	0.01	34	560	5	0.06	-2	3	22	0.11	-10	-10	49	-10	74
NA13748	389	1	0.02	25	400	12	0.06	-2	6	34	0.12	-10	-10	57	-10	111
NA13749	235	-1	0.13	8	860	2	0.93	2	14	152	0.15	-10	-10	108	-10	55
NA14034	613	-1	0.03	19	1200	2	0.01	-2	8	32	0.21	-10	-10	63	-10	72
NA14035	661	-1	0.08	19	2080	-2	-0.01	-2	11	70	0.15	-10	-10	66	-10	60
NA14036	783	-1	0.06	13	1210	-2	0.01	-2	18	35	0.14	-10	-10	107	-10	156
NA14037	439	1	0.03	14	570	4	0.05	-2	6	39	0.17	-10	-10	70	-10	87
NA14038	1550	-1	0.03	18	690	3	0.01	-2	23	34	0.1	-10	-10	80	-10	148
NA14039	820	1	0.06	14	490	4	0.01	-2	12	26	0.14	-10	-10	99	-10	100
NA14040	430	-1	0.04	16	1470	4	0.01	-2	11	55	0.21	-10	-10	74	-10	73
NA14041	443	3	0.02	38	650	29	0.09	-2	5	67	0.25	-10	-10	99	-10	137
NA14042	314	-1	0.01	25	180	13	0.01	2	5	108	0.17	-10	-10	43	-10	89
NA14043	425	-1	0.02	10	760	5	0.01	-2	6	69	0.16	-10	-10	47	-10	77
NA14044	398	-1	0.01	34	340	28	0.02	3	7	73	0.15	-10	-10	54	-10	114
NA14045	266	15	0.01	5	1680	9	0.35	-2	1	28	0.05	-10	10	14	-10	70
NA14046	425	2	0.01	12	430	29	0.1	-2	6	24	0.09	-10	-10	41	-10	79
NA14047	565	1	0.02	9	530	8	0.01	-2	5	40	0.15	-10	-10	36	-10	78
NA14048	341	1	0.03	26	530	10	0.45	-2	5	32	0.11	-10	-10	47	-10	66
NA14049	755	-1	0.01	57	550	10	0.01	-2	6	43	0.22	-10	-10	65	-10	101
NA14140	439	2	0.02	22	820	122	0.01	-2	5	33	0.11	-10	-10	50	-10	149
NA14141	490	2	0.01	11	480	12	0.01	-2	3	80	0.14	-10	-10	42	-10	258
NA14142	894	2	0.02	12	400	16	0.02	-2	5	57	0.13	-10	-10	41	-10	158
NA14143	811	3	0.01	12	870	36	0.01	-2	6	26	0.14	-10	-10	48	-10	318
NA14144	598	1	0.01	13	400	83	0.01	-2	6	63	0.09	-10	-10	41	-10	185

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14145	573542	7045993	NAD83, Z 7	FRANKLIN	20030808	BN	GN	0.5	M	1	C	L	M	M	BDR	N	SCH
NA14146	573451	7046007	NAD83, Z 7	FRANKLIN	20030808	BF	OR	0.4	M	1	C	L	M	G	BDR	N	SCH
NA14147	573259	7046019	NAD83, Z 7	FRANKLIN	20030808	BF	OR	1	M		C	L	M	G	BDR	N	SCH
NA14148	573147	7045805	NAD83, Z 7	FRANKLIN	20030808	TA	QL	0.75	M	1	C	L	M	G	COL	N	SCH
NA14149	573354	7045598	NAD83, Z 7	FRANKLIN	20030808	TA	QL	0.5	M	1	C	L	M	M	BDR	P	SCH
NA14171	573219	7053339	NAD83, Z 7	FRANKLIN	20030811	TA		0.95	M	5	C	L	H	G	BDR	P	SCH
NA14172	573292	7053410	NAD83, Z 7	FRANKLIN	20030811	BN		1.46	M	15	C	L	H	G	BDR	P	SCH
NA14173	573357	7053480	NAD83, Z 7	FRANKLIN	20030811	GN		1.46	M	3	C	L	M	G	BDR	N	SCH
NA14174	572731	7053123	NAD83, Z 7	FRANKLIN	20030812	TA	BF	1.46	M	1	C	L	L	F	BDR	N	SCH
NA14175	572795	7053198	NAD83, Z 7	FRANKLIN	20030812	YW	TA	1.1	M	5	C	L	M	G	BDR	P	SCH
NA14176	572868	7053261	NAD83, Z 7	FRANKLIN	20030812	TA	QE	1.2	M	3	C	L	M	M	BDR	N	GNE
NA14177	572931	7053335	NAD83, Z 7	FRANKLIN	20030812	BF	YW	1.46	M	5	C	L	H	M	BDR	P	SCH
NA14178	573003	7053414	NAD83, Z 7	FRANKLIN	20030812	GN	BN	1	M	8	C	L	H	G	BDR	N	SCH
NA14179	573084	7053489	NAD83, Z 7	FRANKLIN	20030812	GY	QD	1.46	M	15	C	L	H	G	COL	P	SCH
NA14180	573149	7053554	NAD83, Z 7	FRANKLIN	20030812	TA	BN	1	M	5	C	L	H	G	BDR	P	SCH
NA14181	573226	7053606	NAD83, Z 7	FRANKLIN	20030812	BN	QE	1.25	M	10	C	L	H	M	BDR	P	SCH
NA14182	573341	7053767	NAD83, Z 7	FRANKLIN	20030812	TA	QD	1.25	M	5	C	L	M	M	COL	N	SCH
NA14184	572592	7053270	NAD83, Z 7	FRANKLIN	20030812	TA	YW	1.46	M	1	C	L	M	G	BDR	N	SCH
NA14185	572728	7053411	NAD83, Z 7	FRANKLIN	20030812	BN	QE	0.75	M	15	C	M	H	S	COL	P	SCH
NA14186	572940	7053626	NAD83, Z 7	FRANKLIN	20030812	BN	GY	1.2	M	2	C	L	M	G	BDR	P	QTZ
NA14187	573009	7053691	NAD83, Z 7	FRANKLIN	20030812	GY	BF	1.46	M	1	C	L	M	G	BDR	N	SCH
NA14188	573068	7053772	NAD83, Z 7	FRANKLIN	20030812	BN	QE	1.2	M	4	C	L	H	G	BDR	P	SCH
NA14189	572462	7053404	NAD83, Z 7	FRANKLIN	20030813	WT	YW	1.35	M	5	C	M	H	G	BDR	P	SCH
NA14190	572864	7053842	NAD83, Z 7	FRANKLIN	20030813	BF	QE	1	M	2	C	L	H	M	BDR	P	SCH
NA14191	572942	7053902	NAD83, Z 7	FRANKLIN	20030813	BF	QE	1.46	M	1	C	L	L	S	BDR	N	GNE
NA14192	573007	7053976	NAD83, Z 7	FRANKLIN	20030813	BF	QL	1.46	M	1	C	L	L	M	BDR	N	SCH
NA14193	573087	7054041	NAD83, Z 7	FRANKLIN	20030813	BF	QE	0.75	M	1	C	L	M	M	BDR	P	SCH
NA14194	572302	7053554	NAD83, Z 7	FRANKLIN	20030813	BN	QL	0.75	M	3	C	L	L	G	COL	N	SCH
NA14195	572512	7053776	NAD83, Z 7	FRANKLIN	20030813	TA	BF	1.46	M	1	C	L	M	S	BDR	N	SCH
NA14196	572651	7053895	NAD83, Z 7	FRANKLIN	20030813	OR	BF	0.45	M	0	C	L	L	G	BDR	N	GNE
NA14197	572722	7053975	NAD83, Z 7	FRANKLIN	20030813	TA	BF	0.7	M	10	C	L	H	G	BDR	P	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14145	H	BIO-QTZ-FEL SCH	12	-0.2	4.95	-2	-10	120	1.5	-2	1.88	-0.5	22	13	81	4.53	10	-1	1.04	30	1.86
~~NA14146~~	H	V.MICACEOUS SL	6	-0.2	2.38	2	-10	250	0.8	-2	0.74	-0.5	9	10	37	3.57	10	-1	0.52	20	0.75
NA14147	H	SL LIES UNDER 1M OF ALLUVIUM MUS-QTZ-FEL SCH V.FELD-RICH	5	-0.2	1.75	3	-10	170	0.7	-2	0.89	-0.5	5	6	24	6.61	10	-1	0.37	50	0.46
NA14148	H	MUS-QTZ SCH	14	-0.2	1.96	-2	-10	320	1	-2	0.64	3.8	16	8	128	4.33	-10	-1	0.52	40	0.66
NA14149	H	TOP FEW CM'S OF SOIL ONLY PART. FROZEN MUS-QTZ-FEL SCH	7	-0.2	2.1	-2	-10	80	0.6	-2	0.46	-0.5	4	13	26	5.69	10	-1	0.85	110	0.88
NA14171	M	SL COLOR ALSO GREEN. P. AUGER TO .95M-FROZEN MUS-QTZ SCHIST	9	0.5	4.09	6	-10	40	-0.5	-2	0.07	-0.5	4	28	1165	7.07	10	-1	2.23	20	1.74
NA14172	L	SL COLOUR ALSO TAN. P. AUGER TO 1.46M-FROZEN CRAPPY SAMPLE, LOTS OF CONTAMINATION FROM SURFACE MOSS. MUS-QTZ SCHIST	9	0.4	1.8	7	-10	270	-0.5	-2	0.23	-0.5	5	30	323	4.51	10	-1	0.67	20	0.75
NA14173	H	SOIL COLOUR ALSO BROWN. PIT AUGER TO 1.46M. BIO SCHIST	4	0.4	2.91	2	-10	470	0.5	-2	0.51	-0.5	27	45	720	5.03	10	-1	1.09	20	2.01
NA14174	H	P.AUGER 1.46 BIO-QTZ-FEL SCH MICAEOUS SOIL	10	1	1.66	4	-10	60	-0.5	2	0.17	-0.5	3	33	94	5.94	10	-1	1.04	50	0.66
NA14175	M	P.AUGER 1.1M-FROZEN & ROCKY MUS-QTZ SCH MICACEOUS	16	0.3	1.12	2	-10	100	-0.5	-2	0.17	-0.5	5	30	52	4.6	-10	-1	0.66	50	0.47
NA14176	M	P.AUGER 1.2M - V. ROCKY BIO-QTZ-FEL GNE	15	1.2	2.13	4	-10	70	-0.5	2	0.17	-0.5	7	83	528	5.21	-10	-1	1.02	50	0.91
NA14177	M	P.AUGER 1.46M-PARTIALLY FROZEN MICACEOUS	16	1.2	1.66	10	-10	110	-0.5	2	0.1	-0.5	4	28	665	6.36	10	1	0.81	50	0.54
NA14178	M	P.AUGER 1M-HIT ROCK BIO-QTZ-FEL SCH POSS. AMP?	5	-0.2	2.24	7	-10	220	-0.5	-2	0.31	-0.5	16	39	203	3.65	10	-1	0.37	20	0.9
NA14179	M	P.AUGER 1.46, V.ROCKY BIO-QTZ-FEL SCH	-1	-0.2	2.82	5	-10	320	0.5	-2	0.56	-0.5	27	41	219	4.12	10	-1	0.41	20	1.34
NA14180	H	P.AUGER 1M - FROZEN BIO-QTZ-FEL SCH	2	-0.2	4.12	5	-10	70	-0.5	-2	0.41	-0.5	16	57	1030	6.79	10	-1	1.89	30	1.78
NA14181	M	P.AUGER 1.25M FROZEN BIO-QTZ-FEL SCH	7	0.3	3.09	6	-10	490	-0.5	-2	0.37	-0.5	35	53	182	5.67	10	-1	1.04	20	1.7
NA14182	H	P.AUGER 1.25M-HIT ROCK HAD TO OFFSET SAMPLE SITE DUE TO P.FROST BIO-QTZ-FEL SCH	4	-0.2	3.15	3	-10	60	-0.5	-2	0.44	-0.5	14	54	459	7.13	10	-1	1.68	20	1.68
NA14184	H	P.AUGER 1.46M MUS-QTZ-SC, LOC.LIM AFTER PYY	25	0.7	1.88	7	-10	50	-0.5	4	0.11	-0.5	5	26	356	8.38	10	-1	1.29	120	0.64
NA14185	L	P.AUGER TO.75- FROZEN. V. MUSHY WITH HIGH ORGANICS	18	0.7	2.22	4	-10	270	-0.5	2	0.14	-0.5	6	30	350	4.76	10	-1	0.64	30	0.84
NA14186	H	P.AUGER 1.2 -FROZEN	2	-0.2	2.89	7	-10	560	-0.5	-2	0.39	-0.5	30	41	57	5.82	10	-1	1.36	20	1.83
NA14187	H	P. AUGER 1.46 BIO-QTZ-FEL SCH	3	0.2	3.66	6	-10	150	-0.5	2	0.53	-0.5	18	40	107	5.63	10	-1	1.18	20	1.33
NA14188	H	P.AUGER TO 1.2- HIT WATER JUST BELOW THAT BIO-QTZ-FEL SCH	3	-0.2	3.31	4	-10	560	-0.5	-2	0.64	-0.5	22	38	124	4.73	10	-1	1.07	10	1.85
NA14189	H	P. AUGER TO 1.35M-FROZEN VERY MICACEOUS SOIL	12	0.4	0.88	-2	-10	280	-0.5	-2	0.17	1.2	5	36	90	3.6	-10	-1	0.47	60	0.37
NA14190	H	P. AUGER TO 1M-FROZEN. QTZ RICH SCHIST	6	0.3	4.16	-2	-10	170	0.5	-2	0.73	-0.5	10	48	154	6.67	10	-1	0.55	30	1.22
NA14191	H	P. AUGER TO 1.46M BIO-QTZ-FEL GNEISS. MINOR FeOx.	5	-0.2	4.53	-2	10	140	0.6	-2	0.53	-0.5	17	49	89	7.07	10	1	1.34	30	1.17
NA14192	H	P. AUGER TO 1.46M. BIO-QTZ-FEL SCHIT, LOC EPI	5	-0.2	4.77	-2	-10	110	-0.5	-2	0.53	-0.5	8	47	87	5.84	10	1	1	20	1.16
NA14193	H	P. AUGER TO .75M-FROZEN. BIO-QTZ-FEL SCHIST	5	0.3	4.18	-2	10	50	-0.5	-2	0.14	-0.5	4	67	531	8.76	10	-1	2.24	30	1.91
NA14194	M	P. AUGER TO .75M, HIT ROCK, VERY ROCKY, HARD GETTING THROUGH TO SAMPLE	4	0.4	2.59	10	-10	500	0.7	-2	0.34	0.5	11	44	73	4.33	10	-1	0.51	50	0.64
NA14195	H	MUS-BIO-QTZ-FEL SCHIST. AUGER TO 1.46M.	9	-0.2	4.15	-2	10	90	-0.5	-2	0.35	-0.5	4	15	91	8.66	20	1	1.2	80	1.34
NA14196	H	AUGER TO .45M-HIT ROCK. ORTHOGNEISS	8	0.2	2.88	4	-10	210	-0.5	-2	0.22	-0.5	6	38	145	5.87	10	-1	0.62	20	0.98
NA14197	M	AUGER TO .7M-FROZEN. COMTAM BY SURFACE ORGANICS. ORTHOGNEISS	12	0.2	2.78	-2	10	50	-0.5	-2	0.12	-0.5	5	43	363	9.55	10	1	1.4	40	1

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14145	1395	1	0.02	10	520	18	0.01	-2	7	112	0.14	-10	-10	91	-10	203
~~NA14146~~	443	2	0.02	11	530	9	0.01	-2	6	42	0.15	-10	-10	39	-10	176
NA14147	233	9	0.06	4	680	27	0.43	-2	3	119	0.08	-10	-10	25	-10	89
NA14148	1485	8	0.01	19	800	16	0.01	-2	4	39	0.07	-10	-10	27	-10	257
NA14149	319	4	0.14	8	890	11	1.3	-2	6	104	0.15	-10	-10	43	-10	68
NA14171	377	3	0.14	7	740	-2	2.68	-2	20	45	0.2	-10	-10	172	10	55
NA14172	319	5	0.08	12	760	3	0.98	-2	7	37	0.13	-10	-10	75	-10	49
NA14173	700	2	0.03	16	1290	-2	0.02	-2	11	22	0.2	-10	-10	129	-10	125
NA14174	309	2	0.1	16	860	30	1.37	-2	5	68	0.12	-10	-10	38	-10	142
NA14175	167	4	0.11	8	670	7	1.1	-2	3	71	0.09	-10	-10	31	20	36
NA14176	294	31	0.12	14	860	14	1.46	-2	5	105	0.12	-10	-10	60	10	89
NA14177	216	52	0.11	6	830	6	1.48	-2	3	63	0.09	-10	-10	33	-10	47
NA14178	462	7	0.02	16	670	4	0.09	-2	5	31	0.14	-10	-10	81	-10	59
NA14179	724	3	0.03	14	750	9	0.04	-2	8	54	0.13	-10	-10	104	-10	102
NA14180	725	1	0.05	8	800	-2	1.54	-2	18	102	0.28	-10	-10	170	-10	115
NA14181	994	3	0.02	13	1050	2	0.51	-2	10	65	0.22	-10	-10	140	-10	97
NA14182	530	6	0.05	12	1090	-2	1.36	-2	14	75	0.29	-10	-10	168	-10	83
NA14184	227	2	0.29	5	1170	7	2.5	-2	4	155	0.12	-10	-10	31	-10	36
NA14185	241	40	0.06	12	760	16	0.74	-2	7	62	0.13	-10	-10	72	10	66
NA14186	910	1	0.02	16	880	-2	0.4	-2	10	77	0.19	-10	-10	131	-10	86
NA14187	614	2	0.03	12	1030	3	0.85	-2	13	86	0.21	-10	-10	133	-10	72
NA14188	657	-1	0.02	16	1060	-2	0.2	-2	3	54	0.3	-10	-10	116	-10	74
NA14189	101	2	0.07	11	530	20	0.93	2	2	76	0.03	-10	-10	14	10	190
NA14190	274	5	0.38	10	640	11	1.8	-2	20	320	0.1	-10	-10	150	-10	66
NA14191	347	3	0.26	11	890	8	2.36	-2	17	292	0.2	-10	-10	147	-10	66
NA14192	171	3	0.36	7	710	6	2	-2	15	327	0.14	-10	-10	141	-10	33
NA14193	461	42	0.19	6	1030	7	2.87	-2	30	88	0.25	-10	-10	229	-10	62
NA14194	386	3	0.02	31	800	19	0.15	-2	5	48	0.18	-10	-10	45	-10	152
NA14195	365	10	0.36	4	1040	7	2.31	2	14	391	0.16	-10	-10	105	-10	55
NA14196	255	4	0.12	11	450	8	1.1	-2	11	111	0.13	-10	-10	121	-10	55
NA14197	259	11	0.31	5	770	14	2.92	2	18	166	0.11	-10	-10	145	-10	98

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14198	572784	7054043	NAD83, Z 7	FRANKLIN	20030813	BF	QE	1	M	20	C	L	H	G	BDR	P	GNE
NA14199	572863	7054113	NAD83, Z 7	FRANKLIN	20030813	BF	QE	0.55	M	20	C	L	H	F	BDR	P	UNK
NA14268	572232	7054048	NAD83, Z 7	FRANKLIN	20030809	TA	QL	0.55	M	5	C	L	H	G	COL	P	SCH
NA14269	572308	7054101	NAD83, Z 7	FRANKLIN	20030809	TA	BF	0.5	M	8	C	M	H	G	COL	P	SCH
NA14270	572379	7054188	NAD83, Z 7	FRANKLIN	20030809	OR	TA	0.5	M	1	C	L	M	G	BDR	P	SCH
NA14271	572449	7054255	NAD83, Z 7	FRANKLIN	20030809	OR	TA	0.35	M	2	C	L	M	G	BDR	N	SCH
NA14272	572503	7054343	NAD83, Z 7	FRANKLIN	20030809	GY	QD	0.6	M	2	C	L	H	G	BDR	P	SCH
NA14273	572793	7054604	NAD83, Z 7	FRANKLIN	20030809	TA	PN	0.3	M	0	C	L	L	S	COL	N	GNE
NA14274	572850	7054687	NAD83, Z 7	FRANKLIN	20030809	TA	QE	0.64	M	1	C	L	L	G	BDR	N	GNE
NA14275	573009	7054826	NAD83, Z 7	FRANKLIN	20030809	OR	QL	0.7	M	1	C	L	L	G	BDR	N	SCH
NA14276	573086	7054898	NAD83, Z 7	FRANKLIN	20030809	BN	QE	0.5	M	2	C	L	H	F	BDR	P	SCH
NA14277	573148	7054965	NAD83, Z 7	FRANKLIN	20030809	BN	OR	0.3	M	0	C	L	M	G	BDR	N	GNE
NA14278	573295	7055103	NAD83, Z 7	FRANKLIN	20030809	BN	QE	0.6	M	0	C	L	M	G	BDR	N	SCH
NA14279	573358	7055175	NAD83, Z 7	FRANKLIN	20030809	GY	QD	0.45	M	2	C	L	H	G	BDR	N	SCH
NA14280	573435	7055248	NAD83, Z 7	FRANKLIN	20030809	BN	QE	0.45	M	3	C	L	H	G	BDR	P	SCH
NA14281	571883	7053972	NAD83, Z 7	FRANKLIN	20030810	BN	BF	0.42	M	1	C	L	L	G	BDR	N	SCH
NA14282	571953	7054049	NAD83, Z 7	FRANKLIN	20030810	BF	QD	0.55	M		C	L	L	G	BDR	N	SCH
NA14284	572022	7054111	NAD83, Z 7	FRANKLIN	20030810	OR	QL	0.5	M		C	L	M	G	BDR	N	SCH
NA14285	572097	7054179	NAD83, Z 7	FRANKLIN	20030810	BN	QL	0.55	M	2	C	M	H	G	BDR	P	SCH
NA14286	572366	7054474	NAD83, Z 7	FRANKLIN	20030810	GY	QE	0.5	M		C	L	H	G	BDR	N	SCH
NA14287	572434	7054546	NAD83, Z 7	FRANKLIN	20030810	BF	QE	0.2	M	1	C	L	L	G	BDR	N	GNE
NA14289	572502	7054608	NAD83, Z 7	FRANKLIN	20030810	BN	QD	0.15	M	18	C	L	H	G	BDR	P	GNE
NA14290	572582	7054681	NAD83, Z 7	FRANKLIN	20030810	TA	QD	0.3	M	3	C	L	L	G	BDR	N	GNE
NA14291	572656	7054762	NAD83, Z 7	FRANKLIN	20030810	BF	QE	1	M	1	C	L	L	G	BDR	N	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14198	M	AUGER TO 1M. FROZEN. CONTAM BY SURFACE ORGANICS. ORTHOGNEISS	13	0.3	2.53	3	-10	350	-0.5	-2	0.26	-0.5	6	35	331	4.83	10	1	0.45	20	0.92
NA14199	M	POWER AUGER TO .55M-FROZEN, CONTAMINATION FROM SURFACE ORGANICS, NO ROCK CHIPS-LOOKS LIKE ORTHOGNEISS SOIL	19	1	2.79	5	-10	280	-0.5	-2	0.24	-0.5	6	35	539	5.79	10	1	0.55	20	1.03
NA14268	L	ONLY TOP 5CM OF SOIL HORIZON IS PARTIALLY THAWED, HAD TO AUGER SEVERAL HOLES TO GET ENOUGH SAMPLE. GOT ABOUT HALF OF NORMAL SAMPLE. SOME LOESS CONTAMINATION.	5	0.3	1.48	6	-10	210	-0.5	3	0.23	-0.5	6	21	56	5.27	10	-1	0.31	40	0.43
NA14269	L	POOR SAMPLE, SOIL APPEARS INTERSTRATIFIED WITH LOESS AND SOIL, ONLY TOP FEW CM'S IS THAWED, HAD TO DIG BOOCOO HOLES TO GET ENOUGH MATERIAL. MUS-QTZ-FEL SCHIST	9	0.2	1.18	5	-10	260	-0.5	2	0.13	-0.5	5	15	58	5.2	-10	-1	0.33	30	0.32
NA14270	H	FOUND A SPOT AMONGST THE P.FROST THAT WAS THAWED DOWN TO APPROX. .95M. MUS-QTZ-FEL SCHIST, LOC. LIM AFTER SULFIDE, LOC HEM, V. MICACEOUS	50	1	1.13	5	-10	230	-0.5	2	0.09	-0.5	3	9	255	5.46	-10	-1	0.39	50	0.25
NA14271	H	MUS-QTZ-FEL SCHIST, V. MICACEOUS LOC. LIM AFTER SULFIDE, LOC. HEM	24	0.4	2.47	7	-10	280	-0.5	-2	0.04	-0.5	4	14	525	7.53	-10	-1	0.75	30	0.89
NA14272	M	FOUND A THAWED SPOT DOWN TO 80CM, V. SANDY GRAY SOIL, BIO RICH, UNSURE IF THIS IS IN PLACE. DOESN'T LOOK NORMAL	6	-0.2	3.64	5	-10	380	0.7	-2	0.37	-0.5	18	31	987	4.98	10	-1	0.71	20	1.7
NA14273	H	QTZ-FEL GNE, V. LEUCOCRATIC ORTHOGNEISS	1	-0.2	1.29	5	-10	120	-0.5	-2	0.16	-0.5	6	18	43	1.85	10	-1	0.08	10	0.32
NA14274	L	THICK BED OF LOESS, SOME MIXED WITH SOIL. ORTHOGNEISS	2	-0.2	1.3	6	-10	230	-0.5	-2	0.37	-0.5	6	20	90	2.7	-10	-1	0.13	10	0.5
NA14275	H	QTZ-MUS SCHIST, V. MICACEOUS	3	-0.2	2.07	7	-10	200	-0.5	2	0.31	0.5	8	8	254	7.88	10	-1	0.72	60	0.58
NA14276	M	NO ROCK CHIPS-ASSUME SCHIST DUE TO ABUNDANCE OF MICA, BOTH MUS AND BIO FROZEN SOLID AT .75M.	6	-0.2	3.15	5	-10	700	0.5	-2	0.42	0.7	14	35	354	5.25	10	-1	1.35	10	1.86
NA14277	H	BIO-QTZ-FEL GNEISS. ORTHOGNEISS	18	-0.2	2.87	5	-10	680	0.5	-2	0.34	-0.5	23	41	546	6.67	10	-1	1.11	20	1.48
NA14278	H	SANDY SOIL, V. MICACEOUS, NO SOLID RK CHIPS	8	0.2	2.72	4	-10	330	-0.5	-2	0.74	0.7	20	31	146	4.48	10	-1	1.21	10	1.43
NA14279	H	BIO SCHIST-NO SOLID CHIPS BUT ABUNDANT BIO	8	0.5	3.48	5	-10	720	0.5	-2	0.85	1.6	36	35	309	5.43	10	-1	1.55	10	1.78
NA14280	H	ABUNDANT BIO, SOIL IS FROZEN SOLID @ 55CM	4	-0.2	2.87	7	-10	350	-0.5	-2	0.51	0.8	21	29	53	4.13	10	-1	0.87	10	1.54
NA14281	H	RX TOO WTHRD TO IDENTIFY,LOC STR FEOX	83	2.3	0.95	4	-10	310	-0.5	34	0.3	0.5	3	27	124	9.2	10	-1	0.21	10	0.18
NA14282	H	NO RX CHIPS, SCH IS A GUESS SOIL IS SANDY & SLIGHTLY MICACEOUS SOME FEOX	37	0.4	3.17	7	-10	2910	0.8	2	0.36	-0.5	12	39	340	6.46	10	-1	0.53	50	1.61
NA14284	H	MUS-QTZ SCH (QTZ-ROD SCH)	8	0.6	0.85	7	-10	50	-0.5	2	0.12	-0.5	3	11	76	7.24	-10	-1	0.59	50	0.22
NA14285	L	FROZEN AT 70CM, PROBABLE LOS CONTAMINATION NO RX BUT SANDY &BIO-RICH, PROBABLE SCH- ONE GOSSANOUS CHIP	10	0.2	2.32	9	-10	100	-0.5	-2	0.19	-0.5	6	41	133	4.73	10	-1	0.74	40	0.86
NA14286	M	BIO-QTZ-FEL SCH, CHLORITIZED SANDY SOIL W/ ABUNDANT BIO	2	-0.2	4.96	5	-10	500	0.5	-2	0.58	-0.5	18	14	385	6.7	10	-1	1.04	20	1.87
NA14287	H	WITH 8M OF OUTCROP BIO-QTZ-FEL GNE ORTHOGNEISS	5	-0.2	3.31	9	-10	220	0.8	2	0.36	-0.5	37	19	200	5.37	10	-1	0.62	20	1.2
NA14289	L	FROZEN SOLID @ 55CN, SOIL STARTS JUST BELOW MOSS MAT. DIFFICULT TO DETRMINE IF THIS IS A GOOD SOIL, V. SANDY W/ HIGH ORGANICS	5	0.3	2.35	6	-10	300	-0.5	-2	0.48	-0.5	14	32	164	3.95	10	-1	0.33	10	1.06
NA14290	H	BIO-QTZ-FEL GNE, CHLORITIZED BIO	5	-0.2	2.26	6	-10	100	-0.5	-2	0.58	-0.5	12	12	124	3.67	10	-1	0.48	20	0.85
NA14291	H	P.AUGER TO1M	5	1.6	3.31	9	-10	180	-0.5	-2	0.8	-0.5	13	24	157	4.09	10	-1	0.73	10	1.04

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14198	231	7	0.07	9	440	10	0.7	-2	9	116	0.12	-10	-10	103	-10	63
NA14199	260	14	0.13	7	550	43	1.05	3	12	130	0.12	-10	-10	120	-10	118
NA14268	281	4	0.14	14	710	10	0.87	-2	3	77	0.1	-10	-10	43	-10	43
NA14269	178	15	0.11	10	600	4	0.86	-2	2	50	0.07	-10	-10	36	-10	30
NA14270	128	12	0.09	4	640	13	0.87	-2	2	57	0.05	-10	-10	27	-10	26
NA14271	396	8	0.04	5	670	20	0.6	-2	5	33	0.13	-10	-10	55	-10	78
NA14272	685	2	0.01	9	1000	2	0.16	-2	7	41	0.12	-10	-10	126	-10	89
NA14273	160	1	0.01	11	150	6	0.01	-2	2	21	0.04	-10	-10	37	-10	68
NA14274	227	2	0.02	15	550	3	0.04	-2	4	35	0.1	-10	-10	48	-10	48
NA14275	483	6	0.09	8	920	16	0.96	-2	5	413	0.13	-10	-10	56	-10	156
NA14276	784	2	0.01	12	520	5	0.01	-2	6	32	0.27	-10	-10	147	-10	204
NA14277	633	9	0.01	14	860	3	0.18	-2	15	51	0.22	-10	-10	166	-10	154
NA14278	583	1	0.02	15	1600	2	0.01	-2	5	36	0.21	-10	-10	111	-10	147
NA14279	2660	4	0.01	21	1380	6	0.01	-2	9	39	0.25	-10	-10	133	-10	231
NA14280	1110	2	0.02	12	720	55	-0.01	-2	4	38	0.2	-10	-10	100	-10	458
NA14281	331	1	0.03	8	370	13	0.34	-2	3	32	0.33	-10	-10	30	-10	193
NA14282	507	5	0.01	42	670	20	0.07	-2	14	38	0.15	-10	-10	122	-10	175
NA14284	112	4	0.24	9	760	30	1.7	-2	2	70	0.04	-10	-10	23	-10	30
NA14285	248	10	0.13	20	900	7	1.17	-2	4	72	0.19	-10	-10	69	-10	48
NA14286	567	1	0.07	8	960	-2	0.42	-2	15	118	0.28	-10	-10	165	-10	81
NA14287	923	2	0.01	15	510	5	0.01	-2	10	27	0.15	-10	-10	103	-10	151
NA14289	639	3	0.02	20	490	5	0.01	-2	5	31	0.18	-10	-10	96	-10	103
NA14290	569	1	0.01	9	640	11	0.01	-2	7	27	0.07	-10	-10	72	-10	94
NA14291	638	1	0.02	11	550	-2	0.01	-2	6	38	0.21	-10	-10	92	10	87

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14292	572714	7054821	NAD83, Z 7	FRANKLIN	20030810	BN	QE	1.5	M	2	C	L	M	G	BDR	N	SCH
NA14293	572792	7054898	NAD83, Z 7	FRANKLIN	20030810	TA	QE	1.5	M		C	L	L	F	BDR	N	SCH
NA14294	572864	7054964	NAD83, Z 7	FRANKLIN	20030810	BN	QL	1.5	M	1	C	L	M	G	BDR	N	SCH
NA14295	572945	7055032	NAD83, Z 7	FRANKLIN	20030810	BN	QE	1.25	M		C	L	L	M	BDR	N	SCH
NA14296	573014	7055111	NAD83, Z 7	FRANKLIN	20030810	BF	BN	1.5	M		C	L	L	M	BDR	N	SCH
NA14297	573070	7055176	NAD83, Z 7	FRANKLIN	20030810	GY	BN	1.2	M		C	L	L	G	BDR	N	SCH
NA14298	573150	7055251	NAD83, Z 7	FRANKLIN	20030810	BN	QE	1.1	M	2	C	M	H	G	BDR	P	SCH
NA14299	573219	7055318	NAD83, Z 7	FRANKLIN	20030810	BN	QL	1.5	M		C	L	H	G	BDR	P	SCH
NA14301	571306	7049276	NAD83, Z 7	SMITH	20030718	OR	QE	0.7	M	0	C	M	L	G	BDR	N	SCH
NA14302	571394	7049300	NAD83, Z 7	SMITH	20030718	BN	QE	0.3	M	0	C	L	L	M	BDR	N	SCH
NA14303	571404	7049401	NAD83, Z 7	SMITH	20030718	BN	QD	0.4	M	0	C	L	L	G	BDR	N	SCH
NA14304	571348	7049401	NAD83, Z 7	SMITH	20030718	OR	QE	0.35	M	0	C	L	L	G	BDR	N	SCH
NA14305	571252	7049403	NAD83, Z 7	SMITH	20030718	GN	QE	0.3	M	0	C	L	L	G	BDR	N	SCH
NA14306	571151	7049401	NAD83, Z 7	SMITH	20030718	BN	QD	0.25	M	10	BC	L	M	M	COL	N	SCH
NA14307	570949	7049400	NAD83, Z 7	SMITH	20030718	BN	QE	0.5	M	0	C	L	L	M	COL	N	SCH
NA14308	570848	7049396	NAD83, Z 7	SMITH	20030718	BN	QD	0.7	M	0	C	L	L	M	COL	N	SCH
NA14317	571530	7053617	NAD83, Z 7	PRESNELL	20030727	TA	QD	1.5	M	3	C	L	L	G	BDR	N	SCH
NA14319	571457	7053549	NAD83, Z 7	PRESNELL	20030727	BN	QD	1	F	20	C	L	M	G	BDR	S	SCH
NA14320	571387	7053473	NAD83, Z 7	PRESNELL	20030727	BN	QD	1	F	15	C	M	L	G	BDR	S	SCH
NA14321	571666	7054037	NAD83, Z 7	PRESNELL	20030727	TA	QD	2	F	3	C	L	L	G	BDR	N	SCH
NA14322	571597	7053969	NAD83, Z 7	PRESNELL	20030727	BN	QE	1	F	20	C	L	L	G	BDR	N	SCH
NA14323	571529	7053901	NAD83, Z 7	PRESNELL	20030727	BN	QL	1.5	F	3	C	L	L	G	BDR	N	SCH
NA14324	571457	7053826	NAD83, Z 7	PRESNELL	20030727	TA	QE	1.5	F	3	C	L	L	G	BDR	N	GNE
NA14325	571387	7053758	NAD83, Z 7	PRESNELL	20030727	BN	QL	1	F	3	C	L	L	G	BDR	N	SCH
NA14326	571247	7053620	NAD83, Z 7	PRESNELL	20030727	BN	QE	2.5	F	3	B	L	L	G	BDR	N	SCH
NA14327	571173	7053545	NAD83, Z 7	PRESNELL	20030727	BN	QE	1	F	5	B	L	L	G	BDR	N	SCH
NA14328	572022	7053833	NAD83, Z 7	FRANKLIN	20030809	TA	QE	0.6	M		C	L	M	F	BDR	N	SCH
NA14329	572091	7053905	NAD83, Z 7	FRANKLIN	20030809	TA	QE	0.45	M	1	C	L	M	G	COL	N	SCH
NA14330	572159	7053979	NAD83, Z 7	FRANKLIN	20030809	TA	QE	0.25	M	1	C	L	M	G	BDR	N	SCH
NA14331	571102	7054322	NAD83, Z 7	PRESNELL	20030726	BN	QD	2.5	F	20	C	L	M	G	BDR	N	SCH
NA14332	571033	7054256	NAD83, Z 7	PRESNELL	20030726	BN	QD	1	F	15	B	L	L	G	BDR	N	SCH
NA14333	570965	7054186	NAD83, Z 7	PRESNELL	20030726	TA	QD	1.5	F	2	C	I	L	S	BDR	N	SCH
NA14334	570896	7054113	NAD83, Z 7	PRESNELL	20030726	TA	QD	1	F	3	C	L	L	G	BDR	N	SCH
NA14335	570821	7054070	NAD83, Z 7	PRESNELL	20030726	TA	QE	2	F	5	C	M	L	G	BDR	N	SCH
NA14336	570735	7053972	NAD83, Z 7	PRESNELL	20030726	BN	QL	1	F	5	C	L	L	S	BDR	N	AMP
NA14337	570677	7053896	NAD83, Z 7	PRESNELL	20030726	OL		8	I	5	C	L	L	G	BDR	N	SCH
NA14338	570612	7053831	NAD83, Z 7	PRESNELL	20030726	BN	QL	10	I	3	C	L	L	G	BDR	N	SCH
NA14339	570542	7053758	NAD83, Z 7	PRESNELL	20030726	BN	QE	8	I	3	C	L	L	G	BDR	N	GNE
NA14340	571389	7054331	NAD83, Z 7	PRESNELL	20030726	BN	QL	10	I	3	C	L	L	G	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14292	H	P.AUGER TO 1.5M ~50-60 CM LOESS	7	0.4	2.34	7	-10	150	-0.5	-2	0.71	-0.5	10	43	35	3.32	10	-1	0.49	20	0.85
NA14293	H	P.AUGER TO 1.5 BIO-QTZ-FEL SCH BORDERING ON GNE, CLOUDY FDSPRS	6	2.7	2.24	-2	-10	160	-0.5	-2	0.56	-0.5	17	31	118	4.09	10	-1	0.82	20	0.91
NA14294	H	P. AUGER TO 1.5 BIO-QTZ-FEL SCH	7	1.1	2.65	6	-10	380	-0.5	-2	0.93	-0.5	15	36	130	3.41	10	-1	0.83	10	1.16
NA14295	H	P.AUGER TO 1.25M HIT BDR BIO-QTZ-FEL SCH CHL-EPI , ALTERATION 60CM OF LOS	11	1.1	3.2	-2	-10	510	0.5	-2	1.12	-0.5	18	51	99	4.09	10	-1	0.72	10	1.52
NA14296	H	P.AUGER TO 1.5 35CM OF LOS BIO-QTZ-FEL SCH	4	1	3.95	5	-10	210	0.7	-2	0.97	-0.5	20	47	148	5.47	10	-1	0.59	10	1.58
NA14297	H	P.AUGER TO 1.2M HIT BDR BIO-QTZ-FEL SCH 45CM OF LOS	4	0.7	3.43	4	-10	660	-0.5	-2	0.72	-0.5	23	50	53	3.79	10	-1	1.03	10	1.48
NA14298	M	P.AUGER TO 1.1M FROZEN SOLID JUTS GUESSING ON RX TYPE	5	0.2	2.65	6	-10	290	-0.5	-2	0.38	-0.5	13	38	54	3.99	10	-1	0.59	10	1.17
NA14299	H	P.AUGER TO 1.5M-ALL FROZEN NO RX CHIPS, BIO RICH, MUST BE SCH	5	0.8	3.22	6	-10	430	-0.5	-2	0.61	0.8	22	60	56	4.98	10	-1	1.16	10	1.61
NA14301	H	DUPLICATE AT DEEPER, WENT THRU RUBBLE BACK INTO SOIL, RK SCHI, QTZ-MUSC WITH LIMONITE	504	7.9	2.66	30	-10	290	0.7	24	0.32	-0.5	10	60	1495	5.56	10	1	0.19	40	1.14
NA14302	H	QTZ MUSC SCHIST	3	0.2	1.3	6	-10	140	-0.5	-2	0.19	-0.5	7	17	19	2.05	10	1	0.06	20	0.29
NA14303	H	MUSC-QTZ SCHI- IRON STND	2	0.3	2.51	4	-10	260	-0.5	-2	0.16	-0.5	5	11	86	3.91	10	1	0.37	40	0.71
NA14304	H	MUSC SCHIST	8	0.3	1.78	4	-10	220	0.6	-2	0.19	-0.5	2	5	55	5.34	10	1	0.27	60	0.38
NA14305	H	RK- BIO-MUSC SCHIST	20	0.4	3.48	6	-10	320	0.6	-2	0.43	1.1	37	164	4400	5.89	10	2	0.46	10	2.63
NA14306	M	HARD TO GET THRU COLLOVIUM. ROCK QTZ SCHIST WITH MINOR BIO	7	-0.2	1.66	6	-10	140	-0.5	-2	0.28	-0.5	10	26	50	3.13	10	1	0.11	10	0.47
NA14307	H	BIO-MUSC SCHIST	-1	-0.2	3.88	6	-10	170	0.6	-2	1.5	-0.5	20	18	42	4.95	10	1	0.16	10	1.06
NA14308	H	BIO SCHIST/AMPH	1	-0.2	2.2	5	-10	250	-0.5	-2	0.96	-0.5	12	24	37	3.15	10	1	0.09	10	0.68
NA14317	H	QTZ MUSC SCHIST DUPLICATE OF 14318	2	-0.2	3.11	-2	-10	290	1	-2	0.78	0.5	19	84	44	4.87	10	-1	0.82	110	1.15
NA14319	H	QTZ MICS SCH	3	-0.2	1.8	25	-10	200	0.5	-2	0.86	0.9	12	41	29	3.01	10	-1	0.25	30	0.68
NA14320	H	QTZ MICA SCH	6	0.3	1.64	7	-10	320	0.5	-2	0.87	-0.5	10	29	32	2.75	-10	1	0.08	30	0.55
NA14321	H	QTZ MUSC SCH	2	-0.2	2.35	-2	-10	250	0.7	-2	0.22	1.9	16	96	43	3.85	10	-1	0.33	30	1.09
NA14322	H	QTZ MUSC SCH	26	0.6	1.78	3	-10	620	0.6	-2	0.44	8.5	10	33	36	3.11	10	-1	0.15	60	0.53
NA14323	H	QTZ MUSC SCH	2	-0.2	1.84	5	-10	580	0.6	-2	0.47	0.6	9	33	19	3.17	10	-1	0.16	40	0.67
NA14324	H	FeOX AFTER SULFIDES	1	0.2	2.22	6	-10	210	0.8	-2	0.22	1.1	14	30	46	4.34	10	1	0.24	10	0.79
NA14325	H	QTZ BIOT SCH	1	-0.2	3.25	-2	-10	210	0.9	-2	0.32	-0.5	19	47	44	4.91	10	-1	1.01	30	1.23
NA14326	H	MICA SCH	2	-0.2	2.44	4	-10	380	-0.5	-2	1.1	-0.5	16	16	36	4.98	10	1	0.11	20	1.09
NA14327	H	QTZ MICA SCH 10% LOS	3	-0.2	1.8	8	-10	310	0.5	-2	0.53	0.6	8	20	28	3.69	10	-1	0.18	30	0.62
NA14328	H	BIO-QTZ-FEL SCHIST	4	-0.2	2.63	-2	-10	330	1.1	-2	0.77	1.2	12	35	44	4.05	10	-1	0.72	60	0.76
NA14329	H	MUS-QTZ-FEL SCHIST	11	0.2	2.03	4	-10	490	0.7	-2	0.29	1.1	12	54	85	3.65	10	-1	0.42	20	0.97
NA14330	M	POSSIBLY SOME LOESS CONTAMINATION	8	0.3	1.64	4	-10	750	0.5	-2	0.24	-0.5	7	22	51	3.82	10	-1	0.27	30	0.65
NA14331	M	MICA SCH 40% LOESS	1	0.2	1.9	8	-10	340	-0.5	-2	0.47	4.7	13	42	23	3.12	10	1	0.08	20	0.58
NA14332	H	QUARTZ MUSC SCH A-B HORIZON ON RX	3	0.4	1.09	4	-10	190	-0.5	-2	2.05	79.3	8	23	52	2	-10	1	0.13	20	0.43
NA14333	H	QTZ MUSC SCH	2	-0.2	1.6	7	-10	1080	0.6	-2	0.32	0.6	7	28	32	3.32	10	1	0.23	50	0.53
NA14334	H	QTZ MUSC SCH	2	-0.2	2.69	4	-10	120	0.8	-2	0.14	-0.5	11	37	35	3.35	10	2	0.59	80	0.96
NA14335	H	QTZ BIOT SCH 20%LOESS	1	-0.2	2.76	7	-10	300	0.5	-2	0.44	-0.5	17	160	33	3.32	10	1	0.11	20	1.22
NA14336	M	45% LOESS	-1	-0.2	2.26	5	-10	280	-0.5	-2	0.5	-0.5	10	16	22	3.4	10	1	0.14	10	0.75
NA14337	H	QTZ BIOT SCH 20% LOESS	2	-0.2	2.52	5	-10	180	-0.5	-2	0.38	-0.5	11	26	28	3.86	10	-1	0.09	10	0.97
NA14338	H	BIOT QTZ SCH	1	-0.2	2.44	3	-10	160	0.5	-2	0.86	-0.5	10	11	21	5.41	10	1	0.06	20	1.26
NA14339	M	40% LOESS	1	-0.2	1.53	9	-10	130	-0.5	-2	0.33	-0.5	6	30	21	2.7	-10	1	0.1	20	0.48
NA14340	H	QTZ MICA SCHIST	6	0.4	1.92	6	-10	1400	0.5	-2	0.18	-0.5	9	39	70	3.04	10	2	0.11	90	0.81

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14292	494	-1	0.02	11	710	2	0.01	-2	5	38	0.17	-10	-10	76	-10	75
NA14293	510	3	0.01	7	1110	-2	0.01	-2	6	25	0.11	-10	-10	73	10	49
NA14294	523	1	0.02	10	1140	-2	-0.01	-2	5	46	0.16	-10	-10	91	-10	57
NA14295	887	3	0.02	16	1180	5	0.01	-2	6	52	0.22	-10	-10	107	-10	106
NA14296	641	1	0.01	13	690	33	0.06	-2	9	76	0.27	-10	-10	142	-10	176
NA14297	985	1	0.04	14	860	15	0.02	-2	6	68	0.2	-10	-10	97	-10	236
NA14298	513	1	0.02	15	450	11	0.01	-2	6	25	0.19	-10	-10	102	-10	120
NA14299	781	1	0.02	15	720	8	0.01	-2	6	61	0.24	-10	-10	126	10	241
NA14301	290	11	0.03	55	1360	38	0.31	-2	11	39	0.02	-10	10	120	-10	205
NA14302	537	1	0.01	9	390	13	0.02	2	3	22	0.09	-10	-10	45	-10	52
NA14303	445	7	0.01	6	590	25	0.27	-2	5	68	0.16	-10	-10	86	-10	103
NA14304	302	2	0.04	3	680	18	0.5	2	2	77	0.04	-10	-10	22	-10	149
NA14305	823	-1	0.02	73	470	23	0.03	-2	32	32	0.05	-10	-10	219	-10	330
NA14306	640	1	0.01	11	720	73	0.02	2	4	20	0.12	-10	-10	79	-10	136
NA14307	455	2	0.04	18	900	12	0.11	-2	12	130	0.19	-10	-10	89	-10	74
NA14308	377	-1	0.04	20	730	7	0.01	2	8	67	0.15	-10	-10	80	-10	60
NA14317	1135	1	0.06	55	1240	39	0.01	-2	13	42	0.28	-10	-10	69	-10	94
NA14319	485	1	0.02	28	490	29	0.04	-2	5	35	0.11	-10	-10	53	-10	136
NA14320	474	1	0.02	23	580	11	0.02	-2	6	36	0.09	-10	-10	64	-10	91
NA14321	393	1	0.01	94	290	14	0.01	-2	5	16	0.25	-10	-10	64	-10	367
NA14322	495	2	0.01	27	630	72	0.03	-2	4	30	0.11	-10	-10	51	-10	498
NA14323	350	1	0.01	24	490	12	0.01	-2	5	26	0.14	-10	-10	53	-10	88
NA14324	875	4	0.01	25	490	34	0.02	-2	5	17	0.11	-10	-10	74	-10	242
NA14325	466	1	0.01	48	310	37	-0.01	-2	6	18	0.26	-10	-10	62	-10	182
NA14326	848	1	0.03	14	1280	6	0.01	-2	18	35	0.06	-10	-10	147	-10	85
NA14327	495	1	0.02	18	450	11	0.01	-2	10	26	0.12	-10	-10	61	-10	134
NA14328	432	2	0.03	30	700	38	0.03	-2	7	70	0.22	-10	-10	46	-10	204
NA14329	392	8	0.01	36	680	43	0.16	-2	4	42	0.18	-10	-10	109	-10	135
NA14330	284	3	0.03	18	430	10	0.18	-2	5	29	0.12	-10	-10	52	-10	67
NA14331	623	-1	0.02	43	290	16	0.02	2	5	28	0.1	-10	-10	57	-10	1395
NA14332	614	-1	0.03	30	740	24	0.08	-2	2	63	0.07	-10	-10	32	-10	1570
NA14333	272	-1	0.02	27	360	162	0.07	-2	5	25	0.13	-10	-10	41	-10	299
NA14334	348	-1	0.02	35	190	22	-0.01	-2	6	18	0.25	-10	-10	42	-10	92
NA14335	273	-1	0.03	49	510	9	0.01	-2	9	37	0.12	-10	-10	74	-10	86
NA14336	299	-1	0.03	13	1040	3	0.01	-2	5	22	0.14	-10	-10	92	-10	69
NA14337	534	-1	0.02	19	520	6	0.01	-2	10	23	0.09	-10	-10	95	-10	124
NA14338	664	-1	0.03	9	2090	10	0.01	-2	21	32	0.11	-10	-10	86	-10	165
NA14339	246	-1	0.01	19	290	6	0.01	-2	7	23	0.1	-10	-10	54	-10	51
NA14340	321	-1	0.01	26	210	16	0.02	-2	6	23	0.1	-10	-10	59	-10	182

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14341	571311	7054249	NAD83, Z 7	PRESNELL	20030726	BN	QL	10	I	3	C	L	L	G	BDR	N	SCH
NA14342	571245	7054177	NAD83, Z 7	PRESNELL	20030726	BN	QE	1	F	3	C	L	L	G	BDR	N	SCH
NA14343	571176	7054119	NAD83, Z 7	PRESNELL	20030726	TA	QD	2	F	3	C	L	L	G	BDR	N	SCH
NA14344	571096	7054041	NAD83, Z 7	PRESNELL	20030726	BN	QD	2	F	3	C	L	L	G	BDR	S	SCH
NA14345	570761	7053692	NAD83, Z 7	PRESNELL	20030726	TA	QD	0.5	M	5	C	L	L	G	BDR	P	SCH
NA14346	571814	7053898	NAD83, Z 7	PRESNELL	20030727	BN	QL	2	F	3	C	M	L	G	BDR	N	SCH
NA14347	571741	7053834	NAD83, Z 7	PRESNELL	20030727	BN	QE	1.5	F	3	C	L	L	G	BDR	N	SCH
NA14348	571670	7053760	NAD83, Z 7	PRESNELL	20030727	BN	QE	1	F	3	C	L	M	G	BDR	N	SCH
NA14349	571602	7053690	NAD83, Z 7	PRESNELL	20030727	BN	QE	2	F	3	C	L	L	G	BDR	N	SCH
NA14481	571450	7049600	NAD83, Z 7	BOYER	20030724	BN	QL	0.25	M	5	C	M	M	M	BDR	N	
NA14482	571350	7049600	NAD83, Z 7	BOYER	20030724	BN	QL	0.3	M	8	BC	M	M	M	BDR	N	
NA14483	571250	7049600	NAD83, Z 7	BOYER	20030724	BN	QL	0.3	M	8	BC	M	M	M	COL	N	
NA14484	571050	7049600	NAD83, Z 7	BOYER	20030724	BN	QD	0.1	M	25	C	L	M	S	COL	N	SCH
NA14485	570950	7049600	NAD83, Z 7	BOYER	20030724	BN	QD	0.3	M	10	BC	M	H	S	COL	N	SCH
NA14486	570750	7049600	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	8	BC	M	M	M	COL	N	
NA14487	570649	7049600	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	6	BC	M	M	G	BDR	N	
NA14488	570550	7049600	NAD83, Z 7	BOYER	20030724	TA	QL	0.5	M		AB	H	L	M	COL	N	
NA14489	570450	7049800	NAD83, Z 7	BOYER	20030724	TA	QE	0.25	M	8	BC	M	L	M	COL	N	
NA14490	570550	7049800	NAD83, Z 7	BOYER	20030724	BN	QE	0.2	M	10	BC	M	M	M	BDR	N	
NA14491	570650	7049800	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	10	BC	M	M	M	COL	N	
NA14493	570850	7049800	NAD83, Z 7	BOYER	20030724	BN	QD	0.3	M	15	BC	M	H	M	COL	N	
NA14494	570950	7049800	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	10	BC	M	M	S	COL	N	
NA14495	571050	7049800	NAD83, Z 7	BOYER	20030724	BN	QD	0.3	M	10	BC	M	M	M	COL	N	
NA14496	571150	7049800	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	10	BC	M	M	M	COL	N	
NA14497	571250	7049800	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	8	BC	M	M	M	BDR	N	
NA14498	571350	7049800	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	5	BC	M	M	M	BDR	N	
NA14499	571350	7050000	NAD83, Z 7	BOYER	20030724	BN	QE	0.3	M	6	BC	M	M	M	BDR	N	
NA14500	571250	7050000	NAD83, Z 7	BOYER	20030724	BN	QL	0.4	M	4	BC	M	M	M	BDR	N	
NA14501	571251	7054470	NAD83, Z 7	BOYER	20030725	OR	QE	0.2	M	8	BC	M	M	G	BDR	N	
NA14502	571108	7054605	NAD83, Z 7	BOYER	20030725	TA	QE	0.3	M	5	BC	M	H	M	COL	N	
NA14503	570965	7054750	NAD83, Z 7	BOYER	20030725	TA	QE	0.3	M	8	BC	M	H	M	COL	N	
NA14504	570822	7054895	NAD83, Z 7	BOYER	20030725	BN	QE	0.3	M	10	BC	M	H	M	COL	N	
NA14505	570679	7055048	NAD83, Z 7	BOYER	20030725	BN	QD	0.3	M	10	B	M	H	M	COL	N	
NA14506	570537	7055169	NAD83, Z 7	BOYER	20030725	BN	QD	0.4	M	10	BC	M	H	M	COL	S	
NA14507	570465	7055093	NAD83, Z 7	BOYER	20030725	OR	QE	0.4	M	5	BC	M	M	M	COL	N	
NA14508	570393	7055018	NAD83, Z 7	BOYER	20030725	BN	QL	0.6	M	4	BC	M	M	M	COL	N	
NA14509	570324	7054946	NAD83, Z 7	BOYER	20030725	BN	QE	0.3	M	10	BC	M	M	M	COL	S	
NA14510	570254	7054874	NAD83, Z 7	BOYER	20030725	BN	QE	0.5	M	3	BC	M	M	M	COL	S	SCH
NA14511	570186	7054801	NAD83, Z 7	BOYER	20030725	BN	QE	0.3	M	5	BC	M	M	M	BDR	N	
NA14512	570117	7054729	NAD83, Z 7	BOYER	20030725	BN	QE	0.5	M	5	BC	M	H	M	BDR	S	
NA14513	570047	7054657	NAD83, Z 7	BOYER	20030725	BN	QE	0.5	M	4	BC	M	M	M	BDR	N	
NA14514	569976	7054582	NAD83, Z 7	BOYER	20030725	BN	QE	0.8	M	3	BC	M	M	M	BDR	N	
NA14515	569847	7054723	NAD83, Z 7	BOYER	20030725	BN	QD	0.5	M	5	BC	M	H	M	COL	S	
NA14516	569919	7054801	NAD83, Z 7	BOYER	20030725	BN	QE	0.7	M	4	BC	M	H	M	COL	S	

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14341	H	QTZ MUSC SCHIST	104	0.6	1.78	14	-10	1260	0.6	4	0.44	2.1	9	48	105	4.87	10	-1	0.18	20	0.76
~~NA14342~~	H	MICA SCHIST	12	0.2	1.54	4	-10	510	-0.5	-2	0.19	-0.5	6	29	27	2.62	-10	2	0.11	20	0.5
NA14343	H	QTZ MUSC SCHIST	10	-0.2	2.43	4	-10	320	0.6	-2	0.3	-0.5	12	39	30	3.9	10	1	0.56	20	0.89
NA14344	H	QTZ BIO SCHIST	2	-0.2	3.36	3	-10	460	0.9	-2	0.86	3	29	49	136	4.4	10	2	0.78	40	1.84
NA14345	H	QTZ MICA SCHIST	1	-0.2	1.96	5	-10	290	0.5	-2	0.67	-0.5	10	26	36	3.75	10	1	0.19	20	0.75
NA14346	M	QTZ MICA SCH 40% LOS	3	-0.2	1.9	6	-10	300	0.5	-2	0.2	-0.5	10	32	24	2.97	10	-1	0.14	50	0.57
NA14347	H	QTZ MICA SCH 20% LOS	1	-0.2	1.96	4	-10	430	0.6	-2	0.31	0.5	10	36	17	3.28	10	-1	0.14	30	0.6
NA14348	M	QTZ MICA SCH 30% LOS	6	0.2	1.51	6	-10	350	-0.5	-2	0.37	-0.5	7	28	13	2.51	-10	-1	0.09	20	0.48
NA14349	H	QTZ MUSC SCH	2	-0.2	1.62	4	-10	280	0.5	-2	0.66	-0.5	9	33	22	2.65	10	-1	0.11	30	0.58
NA14481	H		2	-0.2	2.66	9	-10	140	0.6	-2	0.49	-0.5	9	23	15	2.57	10	-1	0.1	20	0.6
NA14482	H		6	0.5	2.19	11	-10	120	0.5	-2	0.17	0.5	7	26	29	2.91	10	-1	0.06	20	0.52
NA14483	H		6	-0.2	1.92	5	-10	160	-0.5	-2	0.19	-0.5	6	24	28	2.94	10	-1	0.08	20	0.45
NA14484	L	POOR SAMP. NO SL DEVELOPMENT IN MOSS TALYS SLPOE COVERED	1	-0.2	1.32	8	-10	70	-0.5	-2	0.12	-0.5	4	13	16	3.9	10	-1	0.05	10	0.25
NA14485	M		-1	0.3	1.93	8	-10	150	-0.5	-2	0.29	-0.5	9	40	44	2.98	10	-1	0.11	10	0.66
NA14486	H		1	-0.2	2.35	9	-10	90	-0.5	-2	0.67	-0.5	8	17	14	2.7	10	-1	0.06	10	0.56
NA14487	H		1	0.2	2.6	10	-10	220	-0.5	-2	0.22	-0.5	10	23	27	4.33	10	1	0.34	10	0.66
NA14488	M		2	-0.2	1.44	9	-10	190	-0.5	-2	0.29	-0.5	9	25	20	2.55	-10	-1	0.1	10	0.53
NA14489	M		2	-0.2	2.69	15	-10	170	-0.5	-2	0.27	-0.5	11	30	24	3.79	10	1	0.12	10	0.75
NA14490	M		1	-0.2	2.17	8	-10	190	-0.5	-2	0.35	-0.5	9	17	10	3.29	10	-1	0.2	10	0.58
NA14491	M		-1	-0.2	2.64	7	-10	110	-0.5	-2	0.87	-0.5	11	23	15	3	10	1	0.11	10	0.73
NA14493	M		10	-0.2	2.32	9	-10	130	-0.5	-2	0.74	-0.5	8	18	14	2.12	10	-1	0.08	10	0.51
NA14494	M		5	0.2	1.8	8	-10	150	-0.5	-2	0.34	-0.5	10	22	49	3.2	10	-1	0.09	10	0.62
NA14495	M		19	0.6	1.99	10	-10	160	-0.5	-2	0.26	-0.5	7	25	140	2.8	10	-1	0.08	20	0.57
NA14496	H		1	-0.2	2.44	13	-10	110	0.6	-2	0.29	0.5	8	24	33	3.42	10	-1	0.07	20	0.59
NA14497	H		1	-0.2	2.48	14	-10	130	0.5	-2	0.39	-0.5	9	25	20	2.81	10	-1	0.07	20	0.49
NA14498	H		3	-0.2	2.47	14	-10	130	0.5	-2	0.34	-0.5	7	28	13	2.72	10	-1	0.05	10	0.54
NA14499	H		2	-0.2	2.13	11	-10	140	0.5	-2	0.31	-0.5	7	23	20	2.68	10	-1	0.1	20	0.51
NA14500	H		1	0.2	2.4	5	-10	130	0.6	-2	0.39	-0.5	5	14	33	2.41	10	-1	0.13	40	0.42
NA14501	H		2	-0.2	2.83	9	-10	230	0.6	-2	0.09	-0.5	11	39	86	4.63	10	-1	0.49	40	0.83
NA14502	H		7	0.2	1.93	9	-10	220	0.7	-2	0.29	-0.5	11	27	65	2.98	10	-1	0.45	50	0.78
NA14503	H		14	-0.2	1.77	13	-10	430	-0.5	-2	0.27	-0.5	8	27	29	2.51	10	1	0.11	30	0.53
NA14504	H		2	-0.2	1.41	6	-10	180	-0.5	-2	0.09	-0.5	3	13	58	3.01	10	-1	0.15	20	0.31
NA14505	H		5	0.2	2.13	5	-10	170	-0.5	-2	0.14	-0.5	3	25	30	3.2	10	1	0.12	10	0.49
NA14506	M		21	-0.2	1.47	9	-10	130	-0.5	-2	0.16	-0.5	2	19	14	1.63	-10	-1	0.05	10	0.28
NA14507	H		7	-0.2	2.28	7	-10	230	-0.5	-2	0.14	-0.5	4	19	25	3.6	10	-1	0.18	20	0.46
NA14508	H		5	-0.2	1.55	11	-10	300	-0.5	-2	0.29	-0.5	6	21	23	2.89	-10	-1	0.11	20	0.49
NA14509	M		3	-0.2	1.58	8	-10	1610	-0.5	-2	0.2	-0.5	4	21	26	2.3	-10	1	0.1	20	0.47
NA14510	H		1	-0.2	1.92	6	-10	200	-0.5	-2	0.21	-0.5	7	11	12	2.7	10	-1	0.45	40	0.92
NA14511	H		3	-0.2	1.95	9	-10	270	-0.5	-2	0.2	-0.5	8	21	19	2.91	10	-1	0.17	20	0.65
NA14512	H		1	-0.2	1.43	5	-10	220	-0.5	-2	0.26	-0.5	6	23	18	2.1	10	-1	0.04	20	0.47
NA14513	H		2	-0.2	1.49	8	-10	260	-0.5	-2	0.34	-0.5	6	24	17	2.29	10	-1	0.05	20	0.58
NA14514	H		10	-0.2	1.99	10	-10	240	-0.5	-2	0.56	-0.5	9	26	59	3.33	10	-1	0.06	20	0.74
NA14515	M		11	0.2	1.98	8	-10	270	-0.5	-2	0.34	-0.5	8	27	55	2.66	10	-1	0.05	20	0.47
NA14516	H		8	-0.2	1.78	10	-10	270	-0.5	-2	0.4	-0.5	9	27	32	2.58	10	-1	0.07	20	0.51

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14341	478	5	0.02	38	470	34	0.06	-2	6	33	0.14	-10	-10	54	-10	593
~~NA14342~~	200	1	0.01	20	240	8	0.02	-2	3	19	0.11	-10	-10	46	-10	68
NA14343	439	-1	0.01	32	680	10	0.02	2	5	23	0.18	-10	-10	56	-10	142
NA14344	1500	1	0.02	75	1890	12	0.01	-2	8	39	0.24	-10	-10	114	-10	744
NA14345	540	-1	0.03	23	1210	5	-0.01	-2	10	29	0.11	-10	-10	77	-10	85
NA14346	305	1	0.01	24	340	10	-0.01	-2	6	18	0.13	-10	-10	58	-10	72
NA14347	263	1	0.01	24	210	14	0.01	-2	4	20	0.13	-10	-10	67	-10	75
NA14348	198	1	0.01	18	170	14	-0.01	-2	4	24	0.12	-10	-10	59	-10	46
NA14349	389	1	0.03	23	370	14	0.01	-2	5	31	0.12	-10	-10	54	-10	58
NA14481	416	1	0.01	17	310	8	0.01	3	3	51	0.11	-10	-10	53	-10	68
NA14482	275	1	0.01	15	170	35	0.03	-2	3	23	0.09	-10	-10	57	-10	100
NA14483	234	2	0.01	16	260	9	0.08	2	3	31	0.08	-10	-10	48	-10	60
NA14484	161	1	0.02	7	490	9	0.1	-2	2	18	0.12	-10	-10	133	-10	35
NA14485	176	2	0.04	20	650	6	0.2	-2	5	44	0.11	-10	-10	68	-10	47
NA14486	341	-1	0.01	12	510	4	-0.01	-2	5	64	0.09	-10	-10	71	-10	63
NA14487	671	1	0.01	15	710	9	0.01	2	4	87	0.22	-10	-10	71	-10	378
NA14488	234	1	0.02	17	300	7	0.01	-2	4	27	0.12	-10	-10	60	-10	51
NA14489	479	1	0.01	21	380	8	0.01	2	4	23	0.19	-10	-10	83	-10	160
NA14490	484	-1	0.01	10	1140	8	0.01	-2	5	19	0.19	-10	-10	67	-10	140
NA14491	495	-1	0.01	12	670	5	0.01	-2	6	87	0.19	-10	-10	90	-10	61
NA14493	336	-1	0.02	13	830	6	0.04	-2	3	108	0.09	-10	-10	42	-10	72
NA14494	360	1	0.04	13	880	5	0.14	3	4	40	0.12	-10	-10	66	-10	70
NA14495	290	2	0.01	14	460	10	0.05	-2	3	28	0.1	-10	-10	60	-10	96
NA14496	502	4	0.01	14	340	9	0.01	2	3	27	0.13	-10	-10	73	-10	129
NA14497	286	1	0.01	18	300	18	0.01	2	3	39	0.11	-10	-10	56	-10	82
NA14498	229	-1	0.01	15	230	14	0.01	2	3	35	0.11	-10	-10	62	-10	70
NA14499	213	-1	0.01	15	440	43	0.09	3	3	38	0.11	-10	-10	54	-10	83
NA14500	238	2	0.02	11	330	21	0.2	2	2	62	0.1	-10	-10	36	-10	122
NA14501	346	1	0.01	29	410	7	0.15	2	5	31	0.2	-10	-10	59	-10	63
NA14502	250	1	0.01	25	780	5	0.01	2	4	20	0.12	-10	-10	40	-10	39
NA14503	160	-1	0.01	23	510	7	0.01	-2	3	25	0.11	-10	-10	46	-10	54
NA14504	133	3	0.05	6	410	7	0.32	2	2	59	0.06	-10	-10	49	-10	43
NA14505	114	-1	0.05	8	470	5	0.27	2	6	60	0.07	-10	-10	66	-10	42
NA14506	74	-1	0.01	9	380	7	0.05	2	3	30	0.07	-10	-10	34	-10	33
NA14507	164	2	0.07	9	340	6	0.42	-2	4	92	0.12	-10	-10	56	-10	48
NA14508	163	2	0.03	13	800	6	0.12	2	5	45	0.1	-10	-10	55	-10	52
NA14509	111	2	0.01	13	500	7	0.1	-2	3	30	0.08	-10	-10	45	-10	48
NA14510	457	1	0.01	6	400	4	0.02	-2	5	20	0.15	-10	-10	58	-10	69
NA14511	390	1	0.01	13	380	10	0.01	2	4	21	0.12	-10	-10	60	-10	77
NA14512	185	1	0.01	14	240	7	-0.01	-2	3	24	0.11	-10	-10	49	-10	50
NA14513	220	1	0.01	15	310	7	-0.01	-2	3	27	0.12	-10	-10	49	-10	51
NA14514	266	1	0.02	18	920	16	0.01	2	8	35	0.14	-10	-10	76	-10	84
NA14515	199	1	0.02	17	570	10	0.01	-2	5	28	0.09	-10	-10	58	-10	65
NA14516	243	1	0.02	19	560	5	0.01	2	4	31	0.11	-10	-10	54	-10	61

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14517	569990	7054872	NAD83, Z 7	BOYER	20030725	GN	QD	1	M	2	BC	M	M	M	COL	N	
NA14518	570821	7054601	NAD83, Z 7	BOYER	20030726	BN	QL	0.4	M	7	BC	M	M	G	BDR	N	SCH
NA14519	570752	7054528	NAD83, Z 7	BOYER	20030726	BN	QE	0.5	M	3	BC	M	M	M	BDR	N	SCH
NA14520	570682	7054454	NAD83, Z 7	BOYER	20030726	BN	QE	0.4	M	5	BC	M	L	M	COL	N	SCH
NA14521	570614	7054383	NAD83, Z 7	BOYER	20030726	BN	QE	0.5	M	5	BC	M	M	M	COL	S	
NA14522	570537	7054319	NAD83, Z 7	BOYER	20030726	BN	QE	0.5	M	4	BC	M	M	M	COL	N	
NA14523	570466	7054248	NAD83, Z 7	BOYER	20030726	BN	QD	0.5	M	5	BC	M	M	M	COL	N	
NA14524	570393	7054174	NAD83, Z 7	BOYER	20030726	BN	QE	0.6	M	3	BC	M	M	M	COL	N	
NA14525	570319	7054100	NAD83, Z 7	BOYER	20030726	BN	QE	0.6	M	3	BC	M	M	G	COL	N	
NA14526	570248	7054026	NAD83, Z 7	BOYER	20030726	BN	QE	0.6	M	5	BC	M	H	M	COL	S	
NA14527	570184	7053972	NAD83, Z 7	BOYER	20030726	BN	QE	0.6	M	4	BC	M	L	M	COL	N	
NA14528	571528	7054189	NAD83, Z 7	BOYER	20030726	BN	QL	0.3	M	8	BC	M	L	M	COL	N	SCH
NA14529	571459	7054117	NAD83, Z 7	BOYER	20030726	BN	QL	0.4	M	4	BC	M	L	M	COL	N	SCH
NA14530	571388	7054046	NAD83, Z 7	BOYER	20030726	BN	QE	0.5	M	9	BC	M	H	M	COL	N	
NA14531	571318	7053973	NAD83, Z 7	BOYER	20030726	BN	QE	0.4	M	10	BC	M	H	M	COL	S	
NA14532	571247	7053902	NAD83, Z 7	BOYER	20030726	BN	QE	0.3	M	10	BC	M	M	M	COL	N	
NA14533	571175	7053829	NAD83, Z 7	BOYER	20030726	BN	QE	0.4	M	5	BC	M	L	M	COL	N	
NA14534	571106	7053758	NAD83, Z 7	BOYER	20030726	BN	QE	0.4	M	10	BC	M	M	M	COL	N	
NA14535	571034	7053685	NAD83, Z 7	BOYER	20030726	BN	QE	0.5	M	5	BC	M	L	M	COL	N	
NA14536	570960	7053607	NAD83, Z 7	BOYER	20030726	BN	QE	0.5	M	6	BC	M	M	M	COL	N	
NA14537	570650	7051800	NAD83, Z 7	BOYER	20030727	BN	QE	0.8	M	2	BC	M	M	M	COL	N	
NA14538	570750	7051800	NAD83, Z 7	BOYER	20030727	BN	QL	0.5	M	5	BC	M	M	M	COL	N	
NA14539	570849	7051800	NAD83, Z 7	BOYER	20030727	BN	QL	0.2	M	6	BC	M	L	M	BDR	N	
NA14540	570749	7051600	NAD83, Z 7	BOYER	20030727	BN	QE	0.3	M	8	BC	M	L	M	COL	N	
NA14541	570650	7051600	NAD83, Z 7	BOYER	20030727	BN	QE	0.2	M	8	BC	M	L	M	COL	N	
NA14542	570650	7051400	NAD83, Z 7	BOYER	20030727	BN	QL	0.3	M	10	BC	M	L	M	COL	N	AMP
NA14543	570750	7051400	NAD83, Z 7	BOYER	20030727	BN	QE	0.3	M	5	BC	M	L	M	COL	N	
NA14544	570650	7051200	NAD83, Z 7	BOYER	20030727	BN	QE	0.3	M	10	BC	M	L	M	COL	N	
NA14545	570750	7051200	NAD83, Z 7	BOYER	20030727	BN	QE	0.4	M	6	BC	M	L	M	COL	N	
NA14546	570850	7051200	NAD83, Z 7	BOYER	20030727	BN	QE	0.6	M	5	BC	M	M	M	COL	N	
NA14547	570950	7051200	NAD83, Z 7	BOYER	20030727	BN	QE	0.7	M	5	BC	M	M	M	COL	N	
NA14548	570650	7051000	NAD83, Z 7	BOYER	20030727	BN	QL	0.4	M	6	BC	M	L	M	COL	N	
NA14549	570750	7051000	NAD83, Z 7	BOYER	20030727	OR	QE	0.4	M	4	BC	M	L	M	COL	N	
NA14550	570850	7051000	NAD83, Z 7	BOYER	20030727	BN	QE	0.5	M	5	C	M	M	M	COL	N	
NA14551	570950	7051000	NAD83, Z 7	BOYER	20030727	BN	QE	0.6	M	8	BC	M	H	M	COL	S	
NA14552	571050	7051000	NAD83, Z 7	BOYER	20030727	BN	QD	0.3	M	10	B	M	H	M	COL	S	
NA14553	571150	7051000	NAD83, Z 7	BOYER	20030727	BN	QD	0.4	M	8	B	M	H	M	COL	N	
NA14554	571150	7050800	NAD83, Z 7	BOYER	20030727	BN	QE	0.4	M	10	B	M	M	M	COL	N	
NA14555	570950	7050800	NAD83, Z 7	BOYER	20030727	TA	QE	0.6	M	5	BC	M	M	M	COL	N	
NA14556	570850	7050800	NAD83, Z 7	BOYER	20030727	BN	QD	0.6	M	10	C	M	M	M	COL	S	
NA14557	570750	7050800	NAD83, Z 7	BOYER	20030727	BN	QE	0.5	M	6	BC	M	M	M	COL	N	
NA14558	570650	7050800	NAD83, Z 7	BOYER	20030727	BN	QE	0.4	M	5	BC	M	M	M	COL	N	
NA14559	570550	7051800	NAD83, Z 7	BOYER	20030729	BN	QE	0.4	M	10	BC	M	M	M	COL	N	
NA14560	570550	7051600	NAD83, Z 7	BOYER	20030729	BN	QD	0.3	M	10	BC	M	L	M	COL	N	AMP
NA14561	570550	7051400	NAD83, Z 7	BOYER	20030729	BN	QE	0.3	M	10	BC	M	L	M	COL	N	AMP

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14517	H		8	-0.2	1.36	10	-10	320	-0.5	-2	1.96	-0.5	10	29	29	2.71	-10	2	0.1	10	0.87
~~NA14518~~	H		-1	-0.2	2.51	22	-10	790	0.8	2	0.23	-0.5	19	30	42	3.85	10	1	0.69	30	1.04
NA14519	H		3	-0.2	2.07	4	-10	460	-0.5	-2	0.37	-0.5	29	178	55	3.77	10	1	0.24	20	1.72
NA14520	H		1	0.4	1.89	4	-10	280	0.5	2	0.47	1.9	13	52	30	4.08	10	1	0.46	70	0.78
NA14521	H		1	0.3	1.7	5	-10	280	-0.5	-2	0.78	6.7	9	38	37	2.86	10	-1	0.22	30	0.69
NA14522	H		2	-0.2	1.99	4	-10	250	0.5	-2	0.43	-0.5	14	32	43	3.24	10	1	0.39	40	0.75
NA14523	H		8	-0.2	1.72	8	-10	260	-0.5	-2	0.81	0.5	9	28	41	2.62	-10	-1	0.12	30	0.54
NA14524	H		27	0.3	2.83	5	-10	250	-0.5	-2	0.9	-0.5	12	30	192	4.62	10	1	0.18	20	1.12
NA14525	H		6	-0.2	2.32	4	-10	260	-0.5	2	0.72	-0.5	11	26	75	3.86	10	1	0.2	20	0.81
NA14526	H		3	-0.2	2.07	4	-10	250	-0.5	-2	0.56	-0.5	10	28	46	3.41	10	1	0.07	20	0.67
NA14527	H		4	-0.2	1.52	8	-10	220	-0.5	-2	0.53	-0.5	8	25	30	2.7	-10	1	0.06	20	0.54
NA14528	H		235	-0.2	1.68	5	-10	180	-0.5	132	0.22	-0.5	10	38	73	5.67	10	2	0.2	20	0.55
NA14529	H		7	0.4	2.03	6	-10	360	0.6	5	0.32	8	14	32	58	5.27	10	1	0.42	20	0.63
NA14530	H		9	0.8	1.54	6	-10	450	0.5	-2	0.56	20.4	11	31	50	3.3	-10	1	0.15	40	0.52
NA14531	M		6	0.2	1.68	3	-10	250	-0.5	-2	0.24	1.3	7	29	20	2.75	10	1	0.19	60	0.48
NA14532	H		12	0.3	1.82	4	-10	230	0.5	-2	0.73	0.6	12	31	26	3.05	10	-1	0.33	50	0.63
NA14533	H		1	-0.2	1.68	6	-10	230	-0.5	-2	0.43	-0.5	9	30	20	2.68	10	-1	0.12	20	0.55
NA14534	H		3	-0.2	2.1	9	-10	220	-0.5	2	0.2	-0.5	11	35	23	3.04	10	1	0.06	10	0.54
NA14535	H		2	-0.2	1.48	5	-10	180	-0.5	-2	0.28	-0.5	9	26	21	2.79	10	-1	0.08	10	0.53
NA14536	H		5	-0.2	2.03	4	-10	240	-0.5	-2	0.37	-0.5	10	25	42	3.4	10	1	0.06	20	0.87
NA14537	H		4	0.2	1.74	8	-10	320	-0.5	-2	0.59	-0.5	10	31	31	2.8	10	-1	0.05	20	0.54
NA14538	H		2	-0.2	2.2	7	-10	260	0.5	-2	0.21	-0.5	10	36	25	2.91	10	-1	0.05	10	0.53
NA14539	M		3	-0.2	2.11	10	-10	190	-0.5	-2	0.16	-0.5	9	36	19	2.87	10	-1	0.06	10	0.47
NA14540	H		-1	0.3	4.18	7	-10	180	-0.5	-2	1.52	-0.5	10	23	24	3.15	10	-1	0.12	-10	0.56
NA14541	M		1	-0.2	3.13	6	-10	190	0.5	-2	0.62	-0.5	13	39	53	3.82	10	-1	0.08	10	0.72
NA14542	M		1	-0.2	2.53	3	-10	140	-0.5	-2	0.31	-0.5	11	26	21	3.21	10	-1	0.06	10	0.56
NA14543	H		1	0.2	3.41	146	-10	250	0.6	-2	0.81	-0.5	13	30	115	5.08	10	-1	0.13	20	0.79
NA14544	M		-1	-0.2	2.65	5	-10	210	-0.5	-2	0.44	-0.5	11	25	25	3.08	10	-1	0.06	10	0.63
NA14545	M		1	-0.2	2.15	-2	-10	180	-0.5	-2	0.58	-0.5	9	24	41	2.9	10	-1	0.05	10	0.63
NA14546	H		2	-0.2	2.23	6	-10	280	-0.5	-2	0.56	-0.5	10	29	37	3.5	10	-1	0.06	10	0.68
NA14547	H		2	-0.2	2.16	5	-10	210	0.5	-2	0.69	-0.5	12	27	34	3.44	10	-1	0.17	10	0.82
NA14548	M		-1	-0.2	3.36	2	-10	360	-0.5	-2	1.46	-0.5	16	15	48	4.52	10	-1	0.53	10	0.84
NA14549	H		1	-0.2	3.07	4	-10	230	-0.5	-2	0.4	-0.5	14	21	38	4.69	10	-1	0.07	10	1
NA14550	H		1	-0.2	2.82	5	-10	200	-0.5	-2	0.86	-0.5	12	21	32	3.61	10	-1	0.11	10	0.86
NA14551	M		2	0.4	3.05	2	-10	340	0.5	-2	0.85	-0.5	9	29	41	3.42	10	-1	0.18	20	0.77
NA14552	M		2	-0.2	2.27	-2	-10	260	0.5	-2	0.75	-0.5	11	27	39	2.9	10	-1	0.09	20	0.66
NA14553	M		7	0.4	1.57	5	-10	260	-0.5	-2	0.67	-0.5	11	27	31	2.49	-10	-1	0.06	10	0.55
NA14554	M		4	0.3	2.96	-2	-10	340	0.5	-2	0.98	-0.5	21	45	60	4.46	10	-1	0.34	10	1.12
NA14555	H		151	3	2.06	2	-10	160	-0.5	8	0.56	-0.5	6	11	466	3.7	10	-1	0.31	60	0.61
NA14556	M		4	0.3	2.09	6	-10	310	-0.5	-2	0.62	-0.5	10	30	36	3.13	10	-1	0.07	20	0.62
NA14557	H		2	-0.2	2.37	8	-10	280	0.5	-2	0.54	-0.5	11	33	35	3.32	10	-1	0.08	20	0.62
NA14558	H		2	-0.2	2.42	6	-10	190	-0.5	3	0.82	-0.5	10	22	39	3.59	10	-1	0.06	10	0.72
NA14559	H		3	0.2	3.16	5	-10	210	-0.5	-2	0.78	-0.5	16	28	54	3.82	10	-1	0.08	10	0.68
NA14560	H		4	-0.2	2.45	6	-10	260	-0.5	-2	0.84	-0.5	16	23	107	3.98	10	-1	0.08	10	0.63
NA14561	H		3	0.3	2.21	-2	-10	210	-0.5	-2	0.66	-0.5	11	32	34	3.04	10	-1	0.06	10	0.63

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14517	447	1	0.04	29	930	9	0.02	-2	4	66	0.13	-10	-10	61	-10	66
NA14518	486	1	0.01	37	660	8	-0.01	2	4	16	0.21	-10	-10	37	-10	44
NA14519	360	1	0.01	244	410	4	0.01	2	6	27	0.13	-10	-10	59	-10	70
NA14520	479	2	0.02	72	1010	44	0.19	2	4	50	0.14	-10	-10	39	-10	522
NA14521	397	1	0.02	42	740	160	0.03	-2	4	33	0.12	-10	-10	41	-10	537
NA14522	263	1	0.01	36	650	23	0.01	-2	4	23	0.16	-10	-10	47	-10	114
NA14523	412	-1	0.02	25	560	25	0.03	2	4	35	0.11	-10	-10	43	-10	128
NA14524	322	1	0.04	18	1290	12	0.03	-2	12	41	0.15	-10	-10	96	-10	95
NA14525	275	1	0.03	20	790	12	0.01	-2	9	36	0.16	-10	-10	82	-10	100
NA14526	351	1	0.02	16	500	12	0.01	-2	7	33	0.13	-10	-10	74	-10	71
NA14527	247	-1	0.03	19	670	9	-0.01	-2	6	30	0.11	-10	-10	59	-10	57
NA14528	217	1	0.02	27	380	7	0.14	-2	3	22	0.14	-10	10	44	-10	44
NA14529	855	1	0.02	28	470	21	0.15	2	4	24	0.18	-10	-10	42	-10	1720
NA14530	560	1	0.01	28	750	47	0.06	-2	4	32	0.11	-10	-10	43	-10	1200
NA14531	184	1	0.01	20	580	27	0.03	-2	3	17	0.12	-10	-10	43	-10	156
NA14532	475	1	0.01	26	840	31	0.02	-2	4	26	0.14	-10	-10	42	-10	120
NA14533	354	2	0.01	16	520	16	0.01	-2	4	22	0.1	-10	-10	45	-10	92
NA14534	286	1	0.01	22	270	10	0.01	-2	4	18	0.11	-10	-10	63	-10	64
NA14535	334	-1	0.02	16	430	7	0.01	-2	5	22	0.11	-10	-10	51	-10	62
NA14536	380	-1	0.02	17	300	8	0.01	-2	7	27	0.14	-10	-10	66	-10	112
NA14537	372	-1	0.03	21	690	5	0.01	2	6	48	0.11	-10	-10	65	-10	57
NA14538	280	-1	0.01	20	170	8	-0.01	2	6	36	0.11	-10	-10	65	-10	57
NA14539	237	1	0.01	21	230	7	0.01	-2	4	27	0.1	-10	-10	67	-10	51
NA14540	298	-1	0.02	15	1170	6	-0.01	-2	4	142	0.17	-10	-10	76	-10	68
NA14541	359	1	0.03	20	480	9	0.01	2	5	51	0.19	-10	-10	99	-10	108
NA14542	268	-1	0.02	16	470	10	0.01	-2	4	34	0.13	-10	-10	88	-10	64
NA14543	699	-1	0.05	16	670	9	0.02	4	11	65	0.18	-10	-10	120	-10	321
NA14544	290	-1	0.02	19	480	9	0.01	-2	4	39	0.14	-10	-10	76	-10	79
NA14545	301	-1	0.03	14	330	6	-0.01	2	6	49	0.15	-10	-10	67	-10	85
NA14546	316	-1	0.03	19	600	6	0.03	3	8	43	0.15	-10	-10	83	-10	74
NA14547	490	-1	0.03	17	880	5	0.01	3	9	47	0.15	-10	-10	79	-10	76
NA14548	409	-1	0.05	10	3910	2	0.01	2	7	105	0.27	-10	-10	84	-10	47
NA14549	294	1	0.02	14	410	7	0.03	-2	9	40	0.15	-10	-10	139	-10	73
NA14550	436	-1	0.03	10	600	7	0.01	-2	6	61	0.18	-10	-10	79	-10	116
NA14551	423	-1	0.03	19	810	12	0.01	-2	6	66	0.17	-10	-10	70	-10	125
NA14552	338	-1	0.03	19	750	10	0.02	-2	6	57	0.14	-10	-10	64	-10	80
NA14553	373	-1	0.03	21	800	10	0.03	2	5	45	0.09	-10	-10	58	-10	69
NA14554	453	-1	0.04	27	920	5	0.01	-2	8	65	0.25	-10	-10	115	-10	96
NA14555	296	17	0.01	10	850	19	0.2	-2	3	61	0.08	-10	-10	36	-10	112
NA14556	342	1	0.03	21	570	9	0.01	-2	6	44	0.12	-10	-10	64	-10	70
NA14557	306	-1	0.02	22	390	9	0.01	-2	8	41	0.14	-10	-10	72	-10	74
NA14558	299	-1	0.04	13	720	7	0.01	-2	10	50	0.13	-10	-10	85	-10	62
NA14559	412	-1	0.03	14	1000	5	0.01	-2	6	54	0.14	-10	-10	89	-10	56
NA14560	399	-1	0.04	15	1400	5	0.01	3	6	45	0.14	-10	-10	97	-10	54
NA14561	320	-1	0.03	19	650	6	0.01	2	7	47	0.14	-10	-10	76	-10	73

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14562	570550	7051200	NAD83, Z 7	BOYER	20030729	BN	QE	0.5	M	8	BC	M	L	M	COL	N	
NA14563	570550	7051000	NAD83, Z 7	BOYER	20030729	OR	QE	0.3	M	8	BC	M	L	M	BDR	N	
NA14564	570550	7050800	NAD83, Z 7	BOYER	20030729	BN	QE	0.3	M	8	BC	M	L	M	BDR	N	
NA14565	570750	7050600	NAD83, Z 7	BOYER	20030729	BN	QE	0.6	M	4	BC	M	H	M	COL	S	
NA14566	570850	7050600	NAD83, Z 7	BOYER	20030729	BN	QE	0.6	M	4	BC	M	M	M	COL	S	
NA14567	570954	7050615	NAD83, Z 7	BOYER	20030729	BN	QL	0.4	M	8	BC	M	L	M	BDR	N	SCH
NA14569	569499	7057267	NAD83, Z 7	BOYER	20030729	BN	QE	0.3	M	10	BC	M	H	M	COL	S	
NA14570	569735	7057273	NAD83, Z 7	BOYER	20030730	BN	QE	1	M	2	BC	M	L	M	COL	N	
NA14571	569636	7057191	NAD83, Z 7	BOYER	20030730	BN	QE	0.4	M	3	BC	M	M	M	COL	N	SCH
NA14572	569565	7057120	NAD83, Z 7	BOYER	20030730	BN	QE	0.4	M	4	BC	M	M	M	COL	N	SCH
NA14573	569493	7057050	NAD83, Z 7	BOYER	20030730	BN	QE	0.4	M	3	C	L	M	M	COL	N	SCH
NA14574	569421	7056979	NAD83, Z 7	BOYER	20030730	BN	QE	0.4	M	5	BC	M	L	M	COL	N	SCH
NA14575	569356	7056902	NAD83, Z 7	BOYER	20030730	BN	QE	0.3	M	4	BC	M	L	M	COL	N	SCH
NA14576	569031	7056613	NAD83, Z 7	BOYER	20030730	BN	QL	0.5	M	4	BC	M	M	G	COL	N	SCH
NA14577	569297	7057915	NAD83, Z 7	BOYER	20030730	BN	QE	0.4	M	3	BC	L	M	M	COL	N	SCH
NA14578	569227	7057844	NAD83, Z 7	BOYER	20030730	BN	QE	0.3	M	5	BC	L	M	M	BDR	N	SCH
NA14579	569135	7057775	NAD83, Z 7	BOYER	20030730	BN	QE	0.3	M	5	BC	M	M	M	COL	N	
NA14580	569065	7057703	NAD83, Z 7	BOYER	20030730	BN	QE	0.3	M	5	BC	L	L	M	COL	N	
NA14581	568995	7057632	NAD83, Z 7	BOYER	20030730	BN	QE	0.3	M	3	BC	L	M	M	COL	N	
NA14582	568931	7057541	NAD83, Z 7	BOYER	20030730	BN	QE	0.4	M	8	BC	M	L	M	COL	N	AMP
NA14583	568862	7057472	NAD83, Z 7	BOYER	20030730	BN	QE	0.4	M	5	C	L	M	M	COL	N	SCH
NA14584	568794	7057404	NAD83, Z 7	BOYER	20030730	BN	QL	0.4	M	4	C	L	M	M	COL	N	SCH
NA14585	568726	7057336	NAD83, Z 7	BOYER	20030730	BN	QL	0.6	M	5	C	L	H	G	COL	S	SCH
NA14586	569155	7058055	NAD83, Z 7	BOYER	20030731	BN	QE	0.4	M	5	C	L	M	M	COL	N	
NA14587	569085	7057982	NAD83, Z 7	BOYER	20030731	BN	QE	0.2	M	10	C	L	M	M	COL	N	SCH
NA14588	569015	7057911	NAD83, Z 7	BOYER	20030731	BN	QE	0.3	M	5	C	L	M	M	COL	N	SCH
NA14589	568945	7057839	NAD83, Z 7	BOYER	20030731	BN	QL	0.4	M	4	C	M	M	M	COL	N	SCH
NA14590	568870	7057765	NAD83, Z 7	BOYER	20030731	OR	QE	0.3	M	4	C	L	L	M	COL	N	
NA14591	568800	7057694	NAD83, Z 7	BOYER	20030731	BN	QE	0.4	M	4	C	L	M	M	COL	N	SCH
NA14592	568729	7057623	NAD83, Z 7	BOYER	20030731	BN	QD	0.3	M	6	C	L	M	M	COL	N	AMP
NA14593	568658	7057553	NAD83, Z 7	BOYER	20030731	OR	QE	0.4	M	5	C	L	L	M	COL	N	SCH
NA14594	568584	7057479	NAD83, Z 7	BOYER	20030731	BN	QD	0.4	M	5	C	L	M	M	COL	N	AMP
NA14595	568447	7058763	NAD83, Z 7	BOYER	20030731	BN	QE	0.3	M	5	C	L	M	M	COL	N	
NA14596	568377	7058692	NAD83, Z 7	BOYER	20030731	BN	QL	0.4	M	3	C	L	M	M	COL	N	
NA14597	568305	7058621	NAD83, Z 7	BOYER	20030731	OR	QE	0.5	M	3	C	L	L	M	COL	N	
NA14598	568234	7058550	NAD83, Z 7	BOYER	20030731	OR	QE	0.3	M	6	C	L	L	M	COL	N	
NA14723	570253	7050799	NAD83, Z 7	HULSTEIN	20030727	BF	QE	0.4	M		B	M	M	M	COL	N	GNE
NA14724	570345	7050800	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.5	M		B	M	L	M	COL	N	GNE
NA14725	570243	7050601	NAD83, Z 7	HULSTEIN	20030727	OR	QE	0.4	M		C	L	L	G	BDR	N	SCH
NA14726	570148	7050588	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.9	M		B	M	H	G	COL	P	
NA14727	570339	7050600	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.85	M		B	M	H	M	COL	P	
NA14788	571301	7049199	NAD83, Z 7	HULSTEIN	20030718	OR	QE	0.3	M		C	M	L	G	BDR	N	SCH
NA14789	571352	7049200	NAD83, Z 7	HULSTEIN	20030718	OR	QL	0.5	M		C	M	L	M	BDR	N	SCH
NA14790	571252	7049197	NAD83, Z 7	HULSTEIN	20030718	TA	QE	0.5	M		B	L	L	F	BDR	N	SCH
NA14791	571150	7049200	NAD83, Z 7	HULSTEIN	20030718	OR	QE	0.5	M		C	L	L	G	BDR	N	AMP

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14562	H		3	0.4	2.36	7	-10	260	0.5	-2	0.32	-0.5	11	34	32	3.2	10	-1	0.05	10	0.58
~~NA14563~~	M		-1	0.2	3.39	-2	-10	300	0.6	-2	0.73	-0.5	13	27	18	4.3	10	-1	0.32	10	0.8
NA14564	H		1	0.2	2.09	4	-10	180	-0.5	3	0.59	-0.5	14	22	21	3.49	10	-1	0.12	10	0.59
NA14565	M		5	0.4	1.68	8	-10	260	-0.5	-2	0.62	-0.5	9	28	34	2.83	10	-1	0.08	10	0.54
NA14566	H		9	0.2	1.58	8	-10	240	-0.5	-2	0.54	-0.5	9	29	23	2.7	-10	-1	0.06	20	0.5
NA14567	H		4	0.2	2.25	2	-10	180	0.6	-2	0.73	-0.5	7	21	70	3.05	10	-1	0.17	20	0.63
NA14569	M		4	0.2	1.74	-2	-10	270	-0.5	2	0.43	-0.5	10	23	23	2.66	10	-1	0.13	20	0.62
NA14570	M		3	0.2	1.3	4	-10	320	-0.5	-2	1.76	-0.5	9	25	34	2.45	-10	-1	0.12	10	0.83
NA14571	H		6	-0.2	1.94	-2	-10	200	-0.5	-2	0.34	-0.5	10	21	17	2.81	10	-1	0.19	10	0.68
NA14572	H		3	-0.2	1.76	-2	-10	190	-0.5	-2	0.26	-0.5	8	26	22	2.8	10	-1	0.14	30	0.61
NA14573	H		2	-0.2	1.4	-2	-10	130	-0.5	-2	0.23	-0.5	6	21	18	2.43	-10	-1	0.08	20	0.51
NA14574	H		-1	0.4	2.8	-2	-10	250	-0.5	-2	0.43	-0.5	20	35	55	4.76	10	-1	0.76	10	1.39
NA14575	H		1	0.2	2.28	3	-10	180	-0.5	-2	0.24	-0.5	14	32	25	3.63	10	-1	0.56	10	1.05
NA14576	H		7	0.4	2.11	-2	-10	210	0.7	3	0.47	-0.5	11	24	174	4.23	10	-1	0.28	40	0.81
NA14577	H		-1	-0.2	3.6	-2	-10	270	-0.5	2	0.45	-0.5	14	24	43	4.6	10	-1	1.22	10	1.56
NA14578	H		3	0.2	2.98	-2	-10	260	-0.5	-2	0.47	-0.5	15	24	30	4.15	10	-1	1.09	20	1.3
NA14579	H		2	0.2	1.77	-2	-10	180	-0.5	-2	0.32	-0.5	8	27	26	2.62	10	-1	0.15	20	0.65
NA14580	H		2	-0.2	1.96	-2	-10	200	-0.5	2	0.28	-0.5	9	23	12	2.99	10	-1	0.48	20	0.66
NA14581	H		1	-0.2	1.78	-2	-10	160	-0.5	-2	0.35	-0.5	9	19	16	2.93	10	-1	0.4	20	0.72
NA14582	H		3	2.3	1.22	-2	-10	120	1.1	6	0.96	4.5	13	24	256	5.29	10	-1	0.04	10	0.85
NA14583	H		4	-0.2	1.48	6	-10	150	0.6	2	0.36	-0.5	8	25	74	2.34	10	-1	0.18	30	0.74
NA14584	H		1	0.4	1.64	-2	-10	250	0.7	-2	0.75	-0.5	15	27	53	3.88	10	-1	0.34	60	0.72
NA14585	H		5	0.3	2.03	2	-10	360	-0.5	-2	0.61	-0.5	12	19	61	5.09	10	-1	0.35	10	0.83
NA14586	H		3	-0.2	2.31	3	-10	200	-0.5	2	0.39	-0.5	9	23	21	3.02	10	2	0.44	10	0.94
NA14587	H		2	-0.2	2.27	2	-10	200	-0.5	-2	0.43	-0.5	11	24	18	3.18	10	1	0.46	20	0.89
NA14588	H		2	-0.2	2.27	2	-10	210	-0.5	-2	0.47	-0.5	10	21	19	3.01	10	1	0.48	20	0.87
NA14589	H		1	-0.2	2.55	6	-10	390	0.9	-2	0.29	-0.5	17	36	79	3.98	10	-1	0.7	30	1.46
NA14590	H		-1	-0.2	2.49	2	-10	140	0.6	-2	0.42	-0.5	8	25	25	3.01	10	1	0.13	20	1.6
NA14591	H		-1	-0.2	2.48	4	-10	200	1	2	0.34	-0.5	14	35	65	3.83	10	1	0.67	50	0.91
NA14592	H		2	-0.2	3.29	-2	-10	240	0.5	-2	1.42	-0.5	19	11	46	6.67	10	1	0.11	10	1.34
NA14593	H		3	-0.2	2.52	4	-10	540	0.6	-2	0.61	-0.5	11	53	50	4.02	10	1	0.3	20	1.12
NA14594	H		-1	-0.2	2.28	5	-10	370	-0.5	2	0.67	-0.5	12	11	39	4.92	10	1	0.45	10	1.02
NA14595	H		3	-0.2	2.01	19	-10	650	1.2	2	1.04	-0.5	25	54	133	5.68	10	1	0.42	20	0.84
NA14596	H		2	-0.2	2.12	5	-10	310	0.7	2	0.46	-0.5	12	36	37	2.69	10	1	0.37	10	1.19
NA14597	H		2	-0.2	2.11	4	-10	180	0.5	2	0.38	-0.5	7	21	21	2.29	10	-1	0.09	20	0.97
NA14598	H		2	0.2	2.01	-2	-10	320	0.6	-2	0.44	-0.5	7	22	18	2.39	10	1	0.15	20	1.1
NA14723	H	MORE CLY RICH	5	0.3	5.3	2	-10	240	1	-2	2.16	-0.5	15	33	67	4.89	20	-1	0.13	10	1.16
NA14724	M	GNE>AMP	-1	-0.2	5.02	-2	-10	150	0.6	2	2.29	-0.5	12	13	42	5.43	20	-1	0.21	10	1.04
NA14725	H	OR WEARTHERING BN BIOT SCH	1	0.3	3.51	-2	-10	220	0.9	-2	1.11	-0.5	13	19	47	4.93	10	-1	0.6	10	0.87
NA14726	M	SOME LOESS WET	7	0.5	3.21	2	-10	320	0.7	2	0.9	-0.5	14	22	59	4.81	10	-1	0.2	10	0.75
NA14727	M	DUPE OF NA14728 SOME LOESS RX?	1	-0.2	3.34	-2	-10	170	0.7	2	1.37	-0.5	9	17	35	3.38	10	-1	0.2	10	0.66
NA14788	H	OR-BN (OR TA)	-1	0.3	2.29	16	-10	350	0.6	-2	0.18	-0.5	11	30	48	3.98	10	-1	0.2	20	0.94
NA14789	H		545	20.8	1.9	21	-10	310	-0.5	11	0.28	-0.5	6	33	693	7.07	10	1	0.43	50	0.72
NA14790	H		2	0.3	3.04	2	-10	380	1.3	-2	0.23	-0.5	24	73	40	4.14	10	-1	0.44	80	1.13
NA14791	H	OR-GY RUSTY SPECKS	1	-0.2	4.27	4	-10	200	-0.5	-2	0.96	-0.5	12	20	92	6.54	10	1	0.13	10	1.12

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14562	272	-1	0.02	21	480	10	0.01	2	6	30	0.13	-10	-10	75	-10	66
~~NA14563~~	766	1	0.02	16	1150	9	0.01	-2	9	55	0.19	-10	-10	81	-10	111
NA14564	335	1	0.03	13	660	9	0.01	-2	6	37	0.12	-10	-10	101	-10	51
NA14565	293	-1	0.03	20	720	6	0.01	3	6	40	0.12	-10	-10	60	-10	59
NA14566	375	1	0.02	15	760	8	0.01	2	5	38	0.11	-10	-10	61	-10	51
NA14567	350	1	0.02	12	440	7	0.04	2	5	65	0.13	-10	-10	52	-10	64
NA14569	369	-1	0.02	12	650	6	0.02	2	4	33	0.13	-10	-10	58	-10	64
NA14570	418	-1	0.04	22	920	6	0.02	2	4	67	0.11	-10	-10	56	-10	74
NA14571	306	-1	0.01	11	440	6	-0.01	3	3	29	0.15	-10	-10	65	-10	56
NA14572	320	1	0.01	12	210	8	-0.01	2	5	25	0.13	-10	-10	62	-10	50
NA14573	219	-1	0.01	11	320	6	-0.01	3	4	19	0.09	-10	-10	50	-10	45
NA14574	956	1	0.01	13	610	5	0.01	3	7	28	0.17	-10	-10	121	-10	74
NA14575	373	1	0.01	13	260	5	0.01	2	3	22	0.2	-10	-10	88	-10	65
NA14576	247	7	0.06	21	560	20	0.53	2	5	64	0.04	-10	-10	59	-10	81
NA14577	977	-1	0.01	7	390	7	0.01	3	8	29	0.27	-10	-10	118	-10	182
NA14578	747	-1	0.01	10	640	4	0.01	2	9	36	0.26	-10	-10	100	-10	104
NA14579	333	-1	0.01	16	260	3	-0.01	-2	5	24	0.13	-10	-10	61	-10	72
NA14580	557	-1	0.01	12	620	9	0.01	2	4	30	0.13	-10	-10	64	-10	55
NA14581	411	-1	0.01	9	390	4	-0.01	3	4	29	0.16	-10	-10	67	-10	53
NA14582	1435	-1	0.02	33	620	767	0.01	-2	5	39	0.07	-10	-10	35	-10	1650
NA14583	266	3	0.01	23	730	13	-0.01	3	4	18	0.05	-10	-10	41	-10	53
NA14584	622	1	0.01	25	1150	14	0.01	3	10	35	0.08	-10	-10	62	-10	84
NA14585	443	1	0.03	10	360	10	0.09	3	11	27	0.15	-10	-10	86	-10	132
NA14586	487	-1	0.01	11	280	12	-0.01	3	4	33	0.19	-10	-10	75	-10	104
NA14587	531	-1	0.01	12	470	8	-0.01	2	6	28	0.2	-10	-10	73	-10	66
NA14588	459	-1	0.02	11	430	8	-0.01	3	5	40	0.19	-10	-10	66	-10	96
NA14589	626	1	0.03	38	410	12	0.01	2	9	20	0.13	-10	-10	60	-10	106
NA14590	427	-1	0.01	19	420	4	-0.01	2	12	25	0.12	-10	-10	90	-10	70
NA14591	278	-1	0.01	30	750	8	-0.01	2	6	18	0.23	-10	-10	51	-10	31
NA14592	760	-1	0.07	9	2880	-2	-0.01	-2	24	44	0.12	-10	-10	174	-10	83
NA14593	356	-1	0.02	43	1140	11	-0.01	2	7	33	0.15	-10	-10	87	-10	120
NA14594	497	1	0.03	11	1330	4	0.01	-2	14	27	0.16	-10	-10	113	-10	90
NA14595	1780	10	0.01	96	2980	19	0.01	3	17	53	0.07	-10	-10	109	-10	146
NA14596	420	1	0.01	36	1400	20	-0.01	3	6	20	0.09	-10	-10	73	-10	66
NA14597	433	1	0.01	17	430	3	0.01	2	14	23	0.09	-10	-10	81	-10	54
NA14598	516	-1	0.02	15	500	5	0.01	2	16	25	0.11	-10	-10	88	-10	49
NA14723	794	-1	0.05	20	810	13	0.01	3	14	200	0.28	-10	-10	122	-10	113
NA14724	453	-1	0.04	7	2780	4	0.01	-2	9	196	0.3	-10	-10	94	-10	49
NA14725	853	-1	0.02	10	2150	9	0.01	2	8	109	0.27	-10	-10	67	-10	232
NA14726	583	-1	0.04	15	950	9	0.01	2	11	79	0.22	-10	-10	114	-10	174
NA14727	508	1	0.02	11	710	33	0.01	3	6	143	0.13	-10	-10	64	-10	208
NA14788	669	5	0.01	15	1240	65	0.06	2	3	18	0.07	-10	-10	79	-10	205
NA14789	229	197	0.03	36	2170	84	0.56	4	4	54	0.04	-10	10	68	-10	108
NA14790	530	2	0.01	56	580	24	0.01	3	7	19	0.17	-10	-10	74	-10	220
NA14791	399	3	0.11	7	1060	9	0.22	2	13	110	0.23	-10	-10	174	-10	114

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14792	571051	7049201	NAD83, Z 7	HULSTEIN	20030718	TA	QE	0.5	M		B	M	M	M	COL	N	SCH
NA14793	570951	7049201	NAD83, Z 7	HULSTEIN	20030718	BF	QE	0.5	M	7	B	M	H	M	COL	S	SCH
NA14794	571000	7049101	NAD83, Z 7	HULSTEIN	20030718	BF	QE	0.4	M	3	B	M	M	M	COL	N	SCH
NA14795	571100	7049102	NAD83, Z 7	HULSTEIN	20030718	TA	QE	0.3	M		B	L	M	G	COL	N	SCH
NA14796	571199	7049101	NAD83, Z 7	HULSTEIN	20030718	TA	QE	0.4	M		B	L	L	G	BDR	N	SCH
NA14824	572725	7055110	NAD83, Z 7	FRANKLIN	20030815	BN	QE	1.35	M	2	C	L	L	G	BDR	N	GNE
NA14825	572796	7055184	NAD83, Z 7	FRANKLIN	20030815	BF	OR	1	M	3	C	L	M	G	BDR	P	GNE
NA14826	572870	7055248	NAD83, Z 7	FRANKLIN	20030815	BN	QE	1.15	M	1	C	L	M	G	BDR	N	SCH
NA14827	572592	7045802	NAD83, Z 7	FRANKLIN	20030815	GN	QE	0.86	M	5	C	L	L	M	BDR	N	AMP
NA14828	572647	7045810	NAD83, Z 7	FRANKLIN	20030815	BN	GN	0.85	M	5	C	L	L	G	BDR	N	AMP
NA14829	572753	7045812	NAD83, Z 7	FRANKLIN	20030815	TA	BF	1.11	M	2	C	M	M	G	BDR	N	SCH
NA14830	572852	7045803	NAD83, Z 7	FRANKLIN	20030816	TA	BF	1.2	M	1	C	M	M	F	BDR	N	GOU
NA14831	573037	7045788	NAD83, Z 7	FRANKLIN	20030816	BN	QL	1.46	M	1	C	M	M	G	BDR	N	SCH
NA14832	573050	7045604	NAD83, Z 7	FRANKLIN	20030816	BF	BN	0.9	M	1	C	L	M	G	BDR	P	SCH
NA14833	572655	7045413	NAD83, Z 7	FRANKLIN	20030816	GN	QE	0.85	M	1	C	L	L	G	BDR	N	AMP
NA14834	572951	7045401	NAD83, Z 7	FRANKLIN	20030816	TA	BF	1.3	M	5	C	L	M	G	COL	N	SCH
NA14835	572801	7045998	NAD83, Z 7	FRANKLIN	20030817	TA	QL	1	M	2	C	M	H	F	BDR	P	SCH
NA14836	572890	7045998	NAD83, Z 7	FRANKLIN	20030817	BN	QE	1.15	M	1	C	L	M	G	BDR	P	SCH
NA14838	572999	7045982	NAD83, Z 7	FRANKLIN	20030817	TA	QE	1.05	M	2	C	L	L	G	BDR	N	SCH
NA14839	572850	7046211	NAD83, Z 7	FRANKLIN	20030817	BN	BF	0.8	M	5	C	L	M	G	COL	N	SCH
NA14840	572748	7046202	NAD83, Z 7	FRANKLIN	20030817	BF	BN	0.65	M	15	C	L	H	G	COL	P	UNK
NA14841	572657	7046190	NAD83, Z 7	FRANKLIN	20030817	BF	YW	1	M	2	C	L	M	M	COL	N	SCH
NA14842	572503	7046404	NAD83, Z 7	FRANKLIN	20030817	GN	BN	1	M	10	C	M	H	S	COL	N	AMP
NA14843	572554	7046402	NAD83, Z 7	FRANKLIN	20030817	GN	BN	1	M	10	C	M	M	M	COL	N	AMP
NA14844	572651	7046406	NAD83, Z 7	FRANKLIN	20030817	GN	OR	1	M	5	C	H	M	M	COL	N	AMP
NA14845	572657	7046406	NAD83, Z 7	FRANKLIN	20030817	OR	QL	1.25	M	1	C	L	M	M	BDR	N	SCH
NA14846	572748	7046413	NAD83, Z 7	FRANKLIN	20030817	GN	GY	1	M	2	C	L	M	F	BDR	N	AMP

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14792	M	SOME LOESS	3	-0.2	2.51	5	-10	230	-0.5	2	0.19	-0.5	10	31	23	4.23	10	1	0.14	10	0.84
~~NA14793~~	L	LOESS & PEBBLES W/ MINOR ORGS	1	-0.2	2.74	6	-10	220	-0.5	2	0.58	-0.5	11	27	33	3.53	10	1	0.08	10	0.72
NA14794	M	SOME LOESS	1	-0.2	2.95	8	-10	240	-0.5	-2	0.47	-0.5	13	29	31	4.21	10	-1	0.26	10	1.02
NA14795	M	TA-OR COLOR MINOR LOESS	-1	-0.2	2.17	3	-10	290	-0.5	-2	0.28	-0.5	8	53	27	4.91	10	1	0.22	10	0.97
NA14796	M	WEAK OR TINGE TO COLOR	4	-0.2	4.16	7	-10	310	-0.5	3	0.66	-0.5	7	11	37	8.88	10	-1	0.25	20	1.36
NA14824	H	P.AUGER, ORTHOGNEISS, BIO-RICH, EPI ALTERATION	4	-0.2	2.41	-2	-10	480	-0.5	-2	0.46	-0.5	15	56	191	3.63	10	1	0.46	20	1.15
NA14825	H	P.AUGER- FROZEN V. FEW RX CHIPS, PROBABLY ORTHOGNEISS	3	0.2	2.65	2	-10	260	-0.5	-2	0.3	-0.5	11	26	221	4.3	10	1	0.8	20	1.06
NA14826	H	P.AUGER- HIT ROCK BIO SCH	4	-0.2	3.16	-2	-10	690	-0.5	-2	0.63	-0.5	15	41	63	5.54	10	-1	0.95	30	1.17
NA14827	H	P.AUGER-HIT ROCK	3	-0.2	2.73	2	-10	140	-0.5	-2	1.25	-0.5	16	31	37	4.26	10	-1	0.08	10	1.24
NA14828	H	P.AUGER	5	0.2	2.6	7	-10	160	0.5	-2	1.09	-0.5	10	29	27	3.71	10	-1	0.22	10	0.77
NA14829	H	P.AUGER TO 1.11M-HIT ROCK MUS SCH, V.MICACEOUS	6	-0.2	1.21	-2	-10	180	0.5	-2	0.21	-0.5	6	19	19	3.02	10	-1	0.33	60	0.33
NA14830	H	P. AUGER TO 1.2M, BOGGED DOWN, NO ROCK CHIPS, CLAY-RICH, COULD BE GOUGE	7	-0.2	1.43	2	-10	70	0.6	-2	0.38	-0.5	7	14	16	2.39	10	-1	0.1	30	0.41
NA14831	H	P. AUGER TO 1.46M	3	0.2	2	2	-10	300	0.8	-2	0.94	-0.5	11	22	39	2.85	10	1	0.48	40	0.63
NA14832	H	P. AUGER TO .9M, FROZEN, NOT MUCH LOESS-SOIL PARTIALLY FROZEN TO .9M. V MICACEOUS SOIL.	8	0.2	1.92	-2	-10	150	0.8	-2	0.33	-0.5	6	9	398	3.41	10	-1	0.43	40	0.6
NA14833	H	P. AUGER TO .85M-HIT BDRK OR CLOSE TO IT	11	-0.2	3.36	2	-10	50	-0.5	-2	1.47	-0.5	28	75	619	4.29	10	1	0.06	10	1.92
NA14834	L	P. AUGER TO 1.3M-TIGHT HOLE, COULDN'T PENETRATE FURTHER. LOTS OF LOESS CONTAM. V. POOR SAMPLE BUT PERMAFROST ALL AROUND	5	-0.2	2.94	2	-10	180	0.7	-2	1.5	-0.5	7	23	27	2.33	10	-1	0.34	30	0.46
NA14835	L	P. AUGER TO 1 M. FROZEN. SOIL IS V. WET ABOVE FROST. MUS-BIO SCHIST, MICACEOUS SL, LOESS CONTAMINATION	43	0.8	1.96	4	-10	140	0.7	-2	0.47	1.6	9	26	405	3.24	10	-1	0.22	70	1.13
NA14836	H	P. AUGER TO 1.15M-FROZEN. MUS-BIO SCHIST, MICACEOUS SOIL.	5	-0.2	1.55	-2	-10	260	-0.5	-2	0.28	-0.5	5	26	39	4.11	10	-1	0.43	40	0.51
NA14838	H	P. AUGER TO 1.05M. ROCKY. MUS-BIO SCHIST	2	0.2	2.41	2	-10	410	0.6	-2	0.86	-0.5	9	112	37	3.7	10	1	0.57	30	1.03
NA14839	H	HARD AUGER FROM HERE ON. BIO-QTZ-FEL SCHIST	4	0.2	2.72	-2	-10	220	-0.5	-2	0.9	-0.5	8	5	42	4.96	10	-1	0.28	20	0.9
NA14840	L	FROZEN AT .65M. V. SANDY, MOST LIKELY A TRANSPORTED SL, COULDN'T GET DEEP ENOUGH FOR DEFINITE IN-SITU SOIL.	7	-0.2	2.07	3	-10	120	0.7	-2	0.57	-0.5	13	8	26	2.46	10	1	0.21	30	0.53
NA14841	H	MUS-BIO-QTZ-FEL SCHIST, V. ROCKY SOIL. ABUNDANT BULL QTZ CHIPS WITH LIM STN.	3	0.2	1.94	-2	-10	90	0.7	-2	0.82	-0.5	6	7	13	2.37	10	-1	0.24	40	0.33
NA14842	M	LOESS CONTAMINATION	6	-0.2	2.21	-2	-10	170	-0.5	-2	1.22	-0.5	15	23	72	3.46	10	-1	0.12	10	0.82
NA14843	M	VERY ROCKY SOIL	5	-0.2	2.68	2	-10	130	-0.5	-2	1.12	-0.5	17	46	151	4.49	10	1	0.19	10	1.06
NA14844	H	PASSED THRU COLLUVIAL LAYER INTO GOUGY LOOKIING CLAY WITH SMALL AMPHIB. FRAGS. BELOW THIS LAYER IS ORANGE MICACEOUS SOIL (NEXT SAMPLE)	4	-0.2	3.2	-2	-10	80	0.5	-2	1.68	-0.5	22	33	79	5.56	10	-1	0.09	10	1.08
NA14845	H	BELOW PREVIOUS SAMPLE. V. MICACEOUS SOIL. MUS-QTZ SCHIST	26	0.2	3.48	5	-10	120	0.9	-2	2	0.9	25	10	759	4.75	10	1	0.34	40	0.72
NA14846	H		2	-0.2	2.6	-2	-10	140	-0.5	-2	1.64	-0.5	13	26	33	2.54	10	-1	0.25	-10	0.9

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14792	237	1	0.04	18	520	8	0.23	-2	6	56	0.17	-10	-10	92	-10	55
~~NA14793~~	339	1	0.02	14	620	8	0.03	-2	6	74	0.16	-10	-10	83	-10	92
NA14794	568	1	0.02	17	800	8	0.03	5	5	90	0.28	-10	-10	98	-10	99
NA14795	221	2	0.08	25	800	3	0.49	3	9	59	0.16	-10	-10	80	-10	57
NA14796	424	2	0.15	7	1390	6	0.67	-2	17	147	0.22	-10	-10	112	-10	81
NA14824	819	3	0.02	13	540	12	0.01	-2	10	34	0.1	-10	-10	88	-10	228
NA14825	331	5	0.02	7	540	5	0.33	-2	7	50	0.1	-10	-10	88	-10	53
NA14826	666	4	0.03	10	790	14	0.24	-2	14	146	0.18	-10	-10	146	-10	144
NA14827	716	3	0.08	16	1090	5	0.01	2	11	58	0.15	-10	-10	132	-10	79
NA14828	735	2	0.02	10	1290	7	0.01	-2	8	66	0.12	-10	-10	82	-10	240
NA14829	195	2	0.05	5	410	8	0.43	-2	3	87	0.04	-10	-10	24	-10	43
NA14830	546	2	0.01	4	320	15	0.02	2	2	45	0.03	-10	-10	23	-10	106
NA14831	480	3	0.01	24	1710	18	0.01	-2	3	55	0.1	-10	-10	32	-10	73
NA14832	489	3	0.01	9	490	11	0.02	-2	3	18	0.07	-10	-10	24	10	233
NA14833	782	2	0.07	36	910	3	-0.01	-2	12	70	0.13	-10	-10	94	-10	47
NA14834	391	2	0.02	11	770	11	-0.01	-2	4	146	0.09	-10	-10	38	-10	67
NA14835	473	46	0.01	19	730	103	0.05	-2	7	94	0.06	-10	-10	73	-10	497
NA14836	519	2	0.01	5	470	7	0.13	-2	7	43	0.1	-10	-10	21	-10	158
NA14838	288	4	0.03	18	1200	12	0.24	-2	7	119	0.18	-10	-10	76	-10	92
NA14839	453	3	0.06	5	1190	9	0.3	-2	12	78	0.34	-10	-10	133	-10	148
NA14840	741	2	0.01	5	340	19	0.02	-2	3	66	0.07	-10	-10	33	-10	142
NA14841	321	3	0.01	4	410	23	0.01	-2	2	178	0.04	-10	-10	24	-10	98
NA14842	1215	4	0.05	18	1730	4	0.01	-2	8	66	0.11	-10	-10	90	-10	58
NA14843	722	3	0.04	24	1610	3	-0.01	-2	12	43	0.14	-10	-10	119	-10	70
NA14844	1475	5	0.04	20	2130	5	-0.01	2	17	74	0.06	-10	-10	142	-10	102
NA14845	990	8	0.01	22	990	42	-0.01	-2	4	174	0.07	-10	-10	55	-10	267
NA14846	416	1	0.03	11	1200	2	-0.01	-2	5	84	0.18	-10	-10	63	-10	38

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA14847	572544	7046605	NAD83, Z 7	FRANKLIN	20030817	TA	BN	1.2	M	5	C	M	H	G	COL	P	SCH
NA14848	572451	7046606	NAD83, Z 7	FRANKLIN	20030817	GN	BN	1.1	M	5	C	H	M	F	COL	P	AMP
NA14990	573008	7052844	NAD83, Z 7	FRANKLIN	20030811	BF	QE	0.4	M	20	C	L	L	G	BDR	N	SCH
NA14991	573073	7052922	NAD83, Z 7	FRANKLIN	20030811	TA	QE	1.46	M	5	C	L	M	G	BDR	N	SCH
NA14992	573225	7053060	NAD83, Z 7	FRANKLIN	20030811	TA	QE	0.6	M	5	C	L	L	S	COL	N	SCH
NA14993	573296	7053118	NAD83, Z 7	FRANKLIN	20030811	TA	QL	1	M	5	C	L	H	G	COL	P	SCH
NA14994	573373	7053193	NAD83, Z 7	FRANKLIN	20030811	BF	OR	0.5	M	15	C	L	L	S	COL	N	SCH
NA14996	573445	7053262	NAD83, Z 7	FRANKLIN	20030811	BN	BF	0.75	M	5	C	M	H	M	COL	N	SCH
NA14997	572867	7052986	NAD83, Z 7	FRANKLIN	20030811	BF	OR	0.4	M	5	C	L	M	F	BDR	N	SCH
NA14998	572939	7053057	NAD83, Z 7	FRANKLIN	20030811	YW	OR	1.46	M	2	C	L	L	G	BDR	N	SCH
NA14999	573008	7053128	NAD83, Z 7	FRANKLIN	20030811	YW	BF	1.46	M	3	C	L	L	M	BDR	N	SCH
NA15150	570615	7054957	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.8	M		B	L	M	M	COL	N	SCH
NA15151	570548	7054888	NAD83, Z 7	HULSTEIN	20030725	BN	QE	0.25	M	5	B	L	H	M	COL	P	SCH
NA15152	570473	7054818	NAD83, Z 7	HULSTEIN	20030725	OR	QE	0.4	M		B	L	M	M	COL	N	SCH
NA15153	570402	7054748	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.4	M		B	L	M	M	COL	N	SCH
NA15154	570323	7054673	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.4	M		B	M	L	M	COL	N	SCH
NA15155	570252	7054614	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.4	M		B	L	L	M	COL	N	GNE
NA15156	570189	7054542	NAD83, Z 7	HULSTEIN	20030725	BN	QE	0.2	M	5	B	H	M	G	COL	P	
NA15157	570125	7054468	NAD83, Z 7	HULSTEIN	20030725	OR	QL	0.8	M		B	L	M	G	COL	P	SCH
NA15158	570053	7054402	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.6	M		C	M	L	M	BDR	N	SCH
NA15159	569899	7054254	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.3	M		B	M	L	M	BDR	N	
NA15160	569981	7054324	NAD83, Z 7	HULSTEIN	20030725	BN	QD	0.7	M	15	B	M	M	G	COL	P	
NA15161	569828	7054473	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.6	M		B	M	H	M	COL	P	
NA15162	569904	7054533	NAD83, Z 7	HULSTEIN	20030725	TA	QE	0.5	M		B	M	L	M	BDR	N	SCH
NA15163	570669	7054745	NAD83, Z 7	HULSTEIN	20030726	TA	QE	0.6	M		B	M	L	G	BDR	N	SCH
NA15166	570615	7054678	NAD83, Z 7	HULSTEIN	20030726	OR	QE	0.5	M		B	M	L	M	BDR	N	SCH
NA15167	570541	7054613	NAD83, Z 7	HULSTEIN	20030726	BN	QE	0.3	M		B	M	L	M	BDR	N	AMP
NA15168	570467	7054542	NAD83, Z 7	HULSTEIN	20030726	OR	QL	0.5	M		B	M	L	M	COL	N	SCH
NA15169	570400	7054476	NAD83, Z 7	HULSTEIN	20030726	TA	QE	0.2	M		B	M	L	M	COL	N	GNE
NA15170	570335	7054404	NAD83, Z 7	HULSTEIN	20030726	TA	QE	0.5	M		B	M	L	M	COL	N	SCH
NA15171	570263	7054333	NAD83, Z 7	HULSTEIN	20030726	OR	QL	0.5	M		B	L	M	G	COL	N	SCH
NA15172	570187	7054252	NAD83, Z 7	HULSTEIN	20030726	BN	QD	0.8	M	10	B	L	H	M	ALV	N	
NA15173	570123	7054189	NAD83, Z 7	HULSTEIN	20030726	BN	QE	0.7	M		B	L	M	G	COL	N	SCH

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA14847	M	FROZEN AT 1.1M, PART OF SAMPLE CONTAMINATED WITH COLLUVIUM THAT IS BROWNISH-GREEN, GOOD COLOR CHANGE JUST BEFORE FROST LINE-LITE TAN-ORANGE. MICACEOUS SOIL	102	0.2	3.34	14	-10	330	1	-2	1.24	-0.5	25	42	1505	5.75	20	-1	0.44	40	1.36
NA14848	L	DOESN'T APPEAR TO BE INSITU SOIL. V. CLAY RICH, COULDN'T PENETRATE PAST 1.1M-FROZEN	3	-0.2	2.94	2	-10	100	0.6	-2	0.8	-0.5	16	30	47	4.72	10	-1	0.11	10	0.76
NA14990	M	PIT AUGER-HIT ROCK AT .4M	7	0.3	1.88	4	-10	400	-0.5	-2	0.11	-0.5	7	15	28	3.09	10	-1	0.53	10	0.87
NA14991	H	P. AUGER TO 1.46M. BIO-QTZ-FEL SCHIST, V. ROCKY. QTZ RICH	9	0.4	1.86	3	-10	520	0.5	-2	0.27	0.7	10	38	95	3.66	10	-1	0.39	30	0.78
NA14992	M	P. AUGER TO .6M, POOR SAMPLE. COULDN'T GET THRU ROCKS QTZ-ROD SCHIST	10	-0.2	1.93	3	-10	80	-0.5	-2	0.11	-0.5	5	32	56	5.26	10	-1	0.69	20	0.63
NA14993	H	P. AUGER TO 1.0 M-FROZEN MICACEOUS SOIL. MUS-QTZ SCHIST	12	0.8	2.27	4	-10	120	-0.5	-2	0.12	0.6	5	38	247	4.92	10	-1	0.83	20	0.86
NA14994	M	PIT AUGER TO .5M- HIT ROCKS, GOT STUCK	30	0.4	2.12	4	-10	60	-0.5	-2	0.1	-0.5	5	16	309	5.27	-10	1	0.71	40	0.36
NA14996	L	P. AUGER TO .6M-VERY WET. THIS AREA IS SLOUGHED DOWNSLOPE	10	0.3	1.74	5	-10	370	-0.5	-2	0.24	-0.5	6	27	140	4.13	10	-1	0.33	20	0.58
NA14997	H	MUS-BIO-QTZ-FEL SCHIST. P. AUGER TO .4M- HIT BDRK	8	-0.2	1.98	4	-10	200	0.7	-2	0.12	0.8	13	24	102	5.12	-10	-1	0.22	30	0.63
NA14998	H	P. AUGER TO 1.46M. MUS-QTZ SCHIST (QTZ-ROD SCHIST) V. MICACEOUS, SOIL BECOMES GREENISH AT BOTTOM OF HOLE	7	0.3	1.58	-2	-10	40	-0.5	-2	0.19	-0.5	3	23	81	7.01	10	-1	1.22	70	0.77
NA14999	H	P. AUGER TO 1.46M. MUS-QTZ SCHIST, V. MICACEOUS SOIL	19	0.5	1.74	-2	-10	30	-0.5	-2	0.06	0.6	3	26	216	9.88	10	-1	1.53	50	0.8
NA15150	M	SANDY, LIMONITIC OR TINGE RX-MICACEOUS SCH	2	-0.2	2.01	4	-10	210	-0.5	-2	0.22	-0.5	5	17	35	3.23	10	-1	0.16	20	0.48
NA15151	M	SOME LOS SANDY MICACEOUS SCH	3	0.2	1.95	2	-10	540	-0.5	-2	0.18	-0.5	3	11	17	3.38	10	-1	0.44	30	0.82
NA15152	H	RX SCH MUSC OR WEA MUSC SCH	1	-0.2	1.63	-2	-10	130	-0.5	-2	0.09	-0.5	4	18	24	5.4	-10	-1	0.44	40	0.48
NA15153	M	SOME LOS SULFICATION RX SCH,MUSC	2	-0.2	2.01	6	-10	220	-0.5	-2	0.25	-0.5	11	22	14	2.89	10	-1	0.16	20	0.67
NA15154	H	FELSIC SCH/GNE?	3	-0.2	1.5	2	-10	160	-0.5	-2	0.09	-0.5	5	14	12	2.35	-10	-1	0.11	10	0.44
NA15155	M	SANDY	1	-0.2	2	-2	-10	280	-0.5	-2	0.23	-0.5	7	18	9	3	10	-1	0.48	10	1.03
NA15156	L	50% LOS	4	-0.2	1.68	4	-10	360	-0.5	-2	0.32	-0.5	7	27	25	2.63	10	-1	0.11	20	0.54
NA15157	M	SANDY MICACEOUS SCH	4	0.5	2.29	6	-10	330	0.7	-2	0.46	1.4	12	44	40	3.73	10	-1	0.35	40	0.88
NA15158	H	SCH; BIOT MUSC	5	0.3	1.82	4	-10	220	0.6	-2	0.53	-0.5	10	33	79	3.38	10	-1	0.23	20	0.86
NA15159	M	SANDY POSSIBLY SOME LOS	2	-0.2	2	2	-10	220	0.5	-2	0.4	-0.5	9	23	54	4	10	-1	0.4	10	0.65
NA15160	L		37	0.2	1.84	5	-10	300	-0.5	-2	0.64	-0.5	10	29	207	3.04	10	-1	0.06	20	0.65
NA15161	M	INCLUDES OR-YW BAND AT BOTTOM	8	0.2	1.64	3	-10	290	-0.5	-2	0.47	-0.5	7	27	41	2.92	10	-1	0.1	20	0.55
NA15162	M	SANDY W/ SCH PEBBLESC POSSIBLY SOME LOS	6	-0.2	1.92	4	-10	270	0.5	-2	0.46	-0.5	12	25	45	3.56	10	-1	0.12	20	0.68
NA15163	H	RK TYPE: MIC SCH, RUSTY, LIM PATCHES	5	-0.2	2.93	-2	-10	390	-0.5	-2	0.19	-0.5	4	15	28	4.79	10	-1	0.33	10	0.69
NA15166	H	RK TYPE: MICACEOUS SCHIST	2	-0.2	2.76	-2	-10	1560	0.9	-2	0.32	-0.5	32	11	38	5.79	10	-1	0.16	20	0.61
NA15167	H	ORANGE TINGE TO SL	2	-0.2	1.71	5	-10	260	-0.5	-2	0.19	-0.5	6	18	10	2.67	10	-1	0.19	20	0.72
NA15168	H	RK TYPE: MICACEOUS SCHIST	8	-0.2	1.99	3	-10	390	0.5	-2	0.4	-0.5	9	70	16	3.13	10	-1	0.13	40	0.96
NA15169	L	APPROX. 50% LOESS. RK TYPE: GNE (? QTZ-FELD?) VERY BLOCKY AND DRY	3	-0.2	1.32	3	-10	200	-0.5	-2	0.13	-0.5	4	20	8	2.36	10	-1	0.07	10	0.35
NA15170	M	RK TYPE: MICACEOUS SCHIST, MINOR AMP PEBBLES	2	-0.2	1.62	6	-10	260	-0.5	-2	0.18	-0.5	6	25	23	2.63	10	-1	0.08	20	0.5
NA15171	H	RK TYPE: MICACEOUS SCHIST	3	-0.2	2.22	4	-10	340	0.7	-2	0.75	-0.5	9	36	73	3.04	10	-1	0.25	30	1.11
NA15172	L	SANDY, NEXT TO EPHEMERAL STREAM	9	0.3	1.54	6	-10	260	-0.5	-2	0.61	0.6	11	30	74	2.8	10	-1	0.13	30	0.56
NA15173	M	SANDY, RK TYPE: MICACEOUS SCHIST	13	-0.2	1.48	20	-10	270	-0.5	-2	0.46	-0.5	9	26	168	3.59	-10	-1	0.14	20	0.54

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA14847	1075	9	0.02	56	2420	55	0.01	2	11	186	0.1	-10	-10	121	-10	395
NA14848	672	3	0.04	14	700	3	-0.01	-2	13	35	0.18	-10	-10	130	-10	101
NA14990	541	2	0.01	6	490	12	0.07	-2	5	12	0.14	-10	-10	53	-10	71
NA14991	406	3	0.02	16	580	11	0.1	-2	6	26	0.13	-10	-10	53	-10	83
NA14992	211	1	0.19	10	440	17	1.3	-2	8	55	0.1	-10	-10	78	-10	44
NA14993	231	12	0.11	9	490	18	1.18	-2	9	75	0.12	-10	-10	88	10	64
NA14994	185	34	0.15	8	900	13	1.43	2	4	142	0.04	-10	-10	47	-10	65
NA14996	188	15	0.04	14	780	14	0.38	-2	6	48	0.11	-10	-10	61	-10	60
NA14997	581	28	0.01	11	700	24	0.05	-2	5	14	0.07	-10	-10	47	-10	132
NA14998	152	3	0.17	4	730	22	1.93	-2	8	88	0.1	-10	-10	76	-10	58
NA14999	248	13	0.41	5	830	17	3	-2	9	114	0.11	-10	-10	82	-10	30
NA15150	212	-1	0.05	9	420	7	0.27	-2	4	87	0.11	-10	-10	55	-10	56
NA15151	266	19	0.02	6	620	4	0.22	-2	7	78	0.14	-10	-10	62	-10	45
NA15152	167	8	0.12	8	720	8	1.01	-2	4	62	0.08	-10	-10	47	-10	36
NA15153	597	1	0.01	14	410	8	0.02	-2	4	25	0.12	-10	-10	57	-10	69
NA15154	190	1	0.01	8	170	7	0.01	-2	2	11	0.05	-10	-10	34	-10	62
NA15155	424	-1	0.01	8	480	7	0.01	-2	2	18	0.14	-10	-10	52	-10	235
NA15156	233	-1	0.02	19	320	8	0.01	-2	4	27	0.11	-10	-10	49	-10	82
NA15157	457	-1	0.02	37	600	120	0.01	-2	7	32	0.17	-10	-10	53	-10	601
NA15158	471	1	0.01	31	800	172	0.07	-2	5	32	0.09	-10	-10	52	-10	230
NA15159	501	-1	0.01	12	410	4	0.01	-2	7	22	0.12	-10	-10	56	-10	69
NA15160	353	1	0.02	22	580	21	0.01	-2	6	36	0.1	-10	-10	65	-10	103
NA15161	321	1	0.02	21	640	7	0.01	-2	6	32	0.1	-10	-10	52	-10	86
NA15162	290	1	0.02	16	540	7	0.01	-2	9	30	0.12	-10	-10	64	-10	76
NA15163	231	-1	0.14	10	370	4	0.77	-2	13	160	0.1	-10	-10	105	-10	36
NA15166	421	2	0.01	12	540	11	0.15	-2	7	41	0.07	-10	-10	54	-10	152
NA15167	969	-1	0.01	9	620	9	0.01	-2	4	16	0.13	-10	-10	64	-10	55
NA15168	336	-1	0.01	27	710	7	0.01	-2	6	34	0.11	-10	-10	64	-10	82
NA15169	192	1	0.01	10	200	8	0.01	-2	2	13	0.08	-10	-10	55	-10	45
NA15170	212	3	0.01	17	240	23	0.01	-2	3	17	0.07	-10	-10	44	-10	129
NA15171	1035	-1	0.01	40	1820	20	0.01	-2	6	34	0.08	-10	-10	63	-10	115
NA15172	440	1	0.01	28	720	34	0.03	-2	4	33	0.08	-10	-10	44	-10	121
NA15173	301	2	0.02	26	800	21	0.01	2	6	27	0.1	-10	-10	58	-10	116

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15174	570960	7054464	NAD83, Z 7	HULSTEIN	20030726	TA	QE	0.5	M		C	L	L	F	BDR	N	SCH
NA15175	570895	7054396	NAD83, Z 7	HULSTEIN	20030726	BN	QD	0.35	M		B	M	L	G	BDR	N	AMP
NA15176	570821	7054324	NAD83, Z 7	HULSTEIN	20030726	OR	QE	0.35	M		B	L	L	M	COL	N	SCH
NA15177	570759	7054254	NAD83, Z 7	HULSTEIN	20030726	BN	QE	0.5	M		B	M	L	M	COL	N	SCH
NA15178	570685	7054184	NAD83, Z 7	HULSTEIN	20030726	BN	QE	0.9	M		B	M	L	M	COL	N	SCH
NA15179	570619	7054116	NAD83, Z 7	HULSTEIN	20030726	BF	QE	0.5	M		B	M	L	M	COL	N	SCH
NA15180	570554	7054036	NAD83, Z 7	HULSTEIN	20030726	BN	QE	0.5	M		B	M	L	M	COL	N	AMP
NA15181	570474	7053977	NAD83, Z 7	HULSTEIN	20030726	BN	QD	0.75	M		B	M	M	M	COL	N	AMP
NA15183	570403	7053900	NAD83, Z 7	HULSTEIN	20030726	BN	QE	0.6	M		B	M	M	M	COL	P	AMP
NA15184	570150	7051802	NAD83, Z 7	HULSTEIN	20030727	GN	QD	0.2	M		B	M	L	F	BDR	N	AMP
NA15185	570249	7051802	NAD83, Z 7	HULSTEIN	20030727	OL	QE	0.2	M		B	M	L	G	BDR	N	AMP
NA15186	570353	7051802	NAD83, Z 7	HULSTEIN	20030727	OL	QD	0.5	M		C	M	L	M	BDR	N	AMP
NA15187	570150	7051600	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.5	M		B	M	M	M	BDR	N	SCH
NA15188	570251	7051598	NAD83, Z 7	HULSTEIN	20030727	OL	QD	0.4	M		C	M	L	M	BDR	N	AMP
NA15189	570332	7051603	NAD83, Z 7	HULSTEIN	20030727	OL	QD	0.35	M		B	M	L	M	COL	N	AMP
NA15190	570150	7051400	NAD83, Z 7	HULSTEIN	20030727	BN	QD	0.5	M		B	M	L	M	COL	N	AMP
NA15191	570250	7051397	NAD83, Z 7	HULSTEIN	20030727	OL	QE	0.5	M		B	M	L	M	COL	N	AMP
NA15192	570349	7051399	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.25	M		B	M	L	S	COL	N	GNE
NA15193	570150	7051200	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.7	M		B	M	L	M	COL	N	AMP
NA15194	570246	7051200	NAD83, Z 7	HULSTEIN	20030727	OR	QE	0.5	M		C	M	L	M	COL	N	SCH
NA15195	570345	7051196	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.3	M	5	B	L	M	S	COL	N	AMP
NA15196	570150	7051000	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.5	M		C	M	L	M	COL	N	SCH
NA15197	570257	7050995	NAD83, Z 7	HULSTEIN	20030727	GN	QD	0.9	M		C	M	L	S	COL	N	AMP
NA15198	570345	7050986	NAD83, Z 7	HULSTEIN	20030727	BN	QE	0.6	M		B	L	M	S	COL	N	AMP
NA15199	570146	7050795	NAD83, Z 7	HULSTEIN	20030727	TA	QE	0.3	M		B	L	L	M	BDR	N	GNE
NA15340	573928	7054045	NAD83, Z 7	FRANKLIN	20030807	BN	QE	0.5	M	0	C	L	M	G	BDR	N	SCH
NA15341	573790	7054190	NAD83, Z 7	FRANKLIN	20030807	GY		0.4	M	2	C	L	H	G	BDR	N	SCH
NA15342	573071	7054618	NAD83, Z 7	FRANKLIN	20030807	OR		1.5	M	0	C	L	M	G	BDR	S	GNE
NA15343	573011	7054529	NAD83, Z 7	FRANKLIN	20030807	OR	QE	0.3	M	5	C	L	M	G	BDR	N	GNE
NA15344	573146	7054693	NAD83, Z 7	FRANKLIN	20030807	TA	GY	0.55	M	1	C	L	H	G	BDR	N	GNE
NA15345	573240	7054761	NAD83, Z 7	FRANKLIN	20030807	OR	QL	0.25	M	1	C	L	L	G	BDR	N	SCH
NA15346	573287	7054817	NAD83, Z 7	FRANKLIN	20030807	GY	QB	0.35	M	2	C	L	H	G	BDR	N	SCH
NA15347	573356	7054891	NAD83, Z 7	FRANKLIN	20030807	BN	QE	0.25	M	1	C	L	M	G	BDR	N	SCH
NA15348	572984	7046613	NAD83, Z 7	FRANKLIN	20030808	BN	QE	0.65	M		C	L	M	G	BDR	N	SKR
NA15349	573054	7046609	NAD83, Z 7	FRANKLIN	20030808	GN	BN	0.75	M		C	L	L	G	BDR	N	AMP
NA15452	570451	7051798	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.75	M		B	M	M	G	COL	N	AMP
NA15453	570452	7051650	NAD83, Z 7	HULSTEIN	20030729	BN	QD	0.75	M		B	M	M	S	COL	N	AMP

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15174	H	RK TYPE: MICACEOUS SCHIST	3	-0.2	2.4	3	-10	280	0.9	3	0.23	-0.5	14	33	63	4.26	10	-1	0.58	150	1.02
~~NA15175~~	H		2	0.2	1.56	3	-10	290	0.5	-2	0.59	1.1	14	87	43	3	-10	-1	0.07	20	0.95
NA15176	H	ORANGE BRN COLOUR SL, TK TYPE: MICACEOUS SCHIST	5	0.2	2.44	-2	-10	300	0.9	2	0.1	-0.5	12	46	33	4.49	10	-1	0.51	60	0.71
NA15177	M	RK TYPE: SCH, MICACEOUS	1	-0.2	2.76	9	-10	300	0.6	-2	0.56	-0.5	16	57	31	4.39	10	-1	0.69	40	1.08
NA15178	M	RK TYPE: SCH, MICACEOUS (BIO GREATER THAN OR EQUAL TO MUSC)	4	-0.2	2.63	-2	-10	230	1	-2	3.1	-0.5	17	54	47	3.74	10	-1	0.61	70	0.98
NA15179	M	ORANGE TINGE TO SL	2	-0.2	1.34	2	-10	190	0.6	-2	0.18	-0.5	5	12	14	3.44	10	-1	0.15	20	0.35
NA15180	M	SANDY ORANGE BAND IN BROWN COLLUVIUM	2	-0.2	2.16	3	-10	330	-0.5	-2	0.92	-0.5	13	22	38	4.01	10	-1	0.12	10	1.06
NA15181	M	DUPLICATE OF 15182, SL ALMOST LOOKS LIKE A FILL	2	-0.2	1.46	3	-10	230	-0.5	-2	0.45	-0.5	7	18	26	3.71	10	-1	0.08	20	0.54
NA15183	M	ORANGE TINGE TO SL, EQUAL MORE TILL LIKE MATERIAL	3	-0.2	2.46	-2	-10	180	-0.5	-2	0.96	-0.5	14	10	28	6.69	10	-1	0.05	20	1.11
NA15184	H	BLOCKY GROUND	-1	0.3	1.78	-2	-10	140	-0.5	-2	0.65	-0.5	14	18	25	2.68	10	-1	0.05	-10	0.5
NA15185	M	SOME LOESS~20%?	-1	-0.2	3.12	6	-10	180	-0.5	-2	0.47	-0.5	13	40	34	3.75	10	-1	0.05	10	0.84
NA15186	H		2	-0.2	2.14	-2	-10	110	-0.5	2	0.64	-0.5	13	32	59	3.55	10	-1	0.04	10	0.81
NA15187	M		2	0.2	2.72	-2	-10	160	-0.5	2	0.75	-0.5	15	24	47	3.73	10	-1	0.05	10	0.92
NA15188	H		-1	-0.2	1.72	3	-10	110	-0.5	-2	0.68	-0.5	10	33	53	2.64	10	-1	0.04	10	0.63
NA15189	H	MINOR RUSTY LIM PATCHES	6	-0.2	4.64	-2	-10	120	0.6	2	1.46	-0.5	18	45	290	5.55	10	-1	0.1	10	1.6
NA15190	M		3	-0.2	2.46	6	-10	230	0.5	-2	0.65	-0.5	12	43	34	3.53	10	-1	0.07	10	0.76
NA15191	M	SOME LOESS ~20%?	1	0.2	2.44	3	-10	200	-0.5	-2	0.7	-0.5	14	31	39	3.73	10	-1	0.06	10	0.88
NA15192	M	MINOR LOESS<15% RX GNE (QTZ-FELD)	1	-0.2	1.72	5	-10	130	-0.5	2	0.45	-0.5	9	32	26	2.82	10	-1	0.1	10	0.55
NA15193	L	SOME LOESS ~> 25%	1	0.2	1.76	3	-10	200	-0.5	-2	0.5	-0.5	11	25	36	3.19	10	-1	0.06	10	0.68
NA15194	H	OR SANDY BAND & BN Bands w/ mixed amp & musc sch	1	-0.2	2.81	2	10	220	0.5	-2	0.91	-0.5	15	16	36	4	10	-1	0.26	10	0.91
NA15195	M	MINOR LOESS?, SAMPLE SITE W. SIDE OF GULLY AMP>SCH(MUSC)	-1	0.3	3.03	-2	-10	170	0.5	2	1.14	-0.5	11	20	38	4.32	10	-1	0.23	10	0.82
NA15196	H	OR BN COLOR	-1	-0.2	2.74	-2	10	240	0.6	-2	0.38	-0.5	11	15	31	4.88	10	-1	0.7	20	1.01
NA15197	H		1	-0.2	4.32	-2	10	300	-0.5	-2	1.67	-0.5	24	62	88	4.55	10	-1	0.11	10	1.81
NA15198	M		-1	0.2	3.59	-2	-10	120	-0.5	-2	1.77	-0.5	15	34	53	3.03	10	-1	0.15	10	1.24
NA15199	H	RX GNE OR SCH	-1	0.2	2.15	3	-10	180	-0.5	-2	0.44	-0.5	7	19	20	2.44	10	-1	0.11	10	0.48
NA15340	H	BIO SCHIST-N0T MUCH ROCK PRESENT, SANDY SOIL	4	-0.2	2.08	-2	-10	220	-0.5	-2	0.47	-0.5	13	17	27	3.44	10	-1	0.52	20	0.98
NA15341	H	BIO-QTZ-FEL SCHIST. MICACEOUS SOIL. SOIL COLOUR ALSO BROWN	2	-0.2	2.2	2	-10	320	-0.5	-2	0.28	-0.5	8	17	70	4.68	10	-1	0.89	20	0.85
NA15342	H	FROM PIT 3 (HARLEY'S DIGGER) BIO-QTZ-FEL GNEISS, MINOR FEOX. SOIL COLOUR ALSO BROWN	10	1.4	2.12	6	-10	910	0.8	-2	0.47	-0.5	131	18	753	5.06	10	-1	0.41	10	0.73
NA15343	H	BIO-QTZ-FEL GNEISS	9	-0.2	4.88	4	-10	520	0.7	-2	1.14	-0.5	29	41	2220	7.47	10	-1	0.36	10	1.46
NA15344	H	BIO-QTZ-FEL GNEISS, TRACE LIM	5	-0.2	2.83	2	-10	540	0.5	-2	0.63	-0.5	25	11	479	5.84	10	-1	1	20	1.26
NA15345	H	MUS-BIO-QTZ-FEL SCHIST	7	-0.2	2.89	-2	-10	170	-0.5	-2	0.52	-0.5	8	23	262	8.45	10	-1	0.62	50	1.15
NA15346	H	NO SOLID ROCK CHIPS-SOIL IS BIO RICH	10	-0.2	3.45	-2	-10	530	-0.5	-2	0.92	-0.5	32	39	457	5.35	10	-1	0.86	10	1.67
NA15347	H	HOR-BIO-QTZ-FEL SCHIST	13	0.2	3.52	-2	-10	880	-0.5	-2	0.73	4.2	37	41	800	6.2	10	-1	0.6	10	2.07
NA15348	H	V.SMALL ROCK CHIPS - LOOKS LIKE CALC-SILICATE ALTERED AMP(SKR) EPI-BIO-QTZ AMP	5	-0.2	3.85	-2	-10	580	0.7	-2	1.36	-0.5	37	8	47	7.8	10	-1	0.49	10	1.51
NA15349	H	AMP CHIPS	4	-0.2	3.41	-2	-10	320	0.5	-2	2	-0.5	13	45	34	4.36	10	-1	0.39	10	1.08
NA15452	H	MIXED ORANGE BRN SCHIST WITH GREATER THAN GREEN AMP	2	-0.2	3.36	3	-10	160	0.5	-2	1.84	-0.5	14	17	58	3.02	10	-1	0.08	10	0.82
NA15453	M		2	-0.2	2.86	-2	-10	80	-0.5	-2	1.34	-0.5	15	31	73	3.66	10	1	0.13	10	1.04

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15174	421	-1	0.01	38	820	10	0.23	-2	7	53	0.11	-10	-10	50	-10	62
~~NA15175~~	846	-1	0.01	148	600	65	0.01	-2	5	31	0.12	-10	-10	48	-10	399
NA15176	393	2	0.01	23	370	204	0.11	-2	5	24	0.18	-10	-10	50	-10	187
NA15177	491	-1	0.02	42	870	20	-0.01	-2	7	34	0.24	-10	-10	56	-10	104
NA15178	1405	-1	0.02	48	1010	50	0.01	2	7	63	0.15	-10	-10	50	-10	131
NA15179	431	-1	0.01	8	270	34	0.01	-2	6	11	0.05	-10	-10	37	-10	168
NA15180	560	-1	0.03	13	1220	8	0.01	2	9	48	0.19	-10	-10	94	-10	84
NA15181	437	-1	0.02	13	400	8	0.01	-2	9	23	0.09	-10	-10	58	-10	98
NA15183	900	-1	0.03	9	2050	6	-0.01	-2	28	32	0.12	-10	-10	114	-10	198
NA15184	366	-1	0.05	13	1060	4	0.01	2	6	60	0.13	-10	-10	79	-10	80
NA15185	379	-1	0.03	24	460	9	0.01	2	6	40	0.15	-10	-10	97	-10	60
NA15186	369	-1	0.04	19	590	2	-0.01	4	7	28	0.17	-10	-10	102	-10	45
NA15187	443	-1	0.05	16	910	5	-0.01	-2	7	46	0.18	-10	-10	108	-10	97
NA15188	269	-1	0.05	13	970	4	0.01	3	6	31	0.13	-10	-10	76	-10	77
NA15189	973	-1	0.06	21	980	11	-0.01	4	17	99	0.3	-10	-10	175	-10	118
NA15190	471	1	0.04	23	550	8	0.01	2	8	45	0.15	-10	-10	81	-10	71
NA15191	418	-1	0.04	20	440	5	-0.01	3	8	43	0.19	-10	-10	95	-10	92
NA15192	307	-1	0.02	18	470	6	0.01	4	5	33	0.1	-10	-10	66	-10	63
NA15193	359	1	0.03	18	480	5	-0.01	2	9	28	0.09	-10	-10	85	-10	59
NA15194	523	-1	0.03	13	1320	5	0.01	-2	7	67	0.23	-10	-10	92	-10	94
NA15195	526	-1	0.03	8	1090	4	0.01	2	9	79	0.15	-10	-10	80	-10	136
NA15196	955	-1	0.01	8	420	12	0.01	2	12	23	0.2	-10	-10	66	-10	178
NA15197	893	-1	0.05	42	990	8	0.01	-2	14	142	0.11	-10	-10	126	-10	73
NA15198	479	-1	0.04	19	920	4	-0.01	4	7	159	0.15	-10	-10	76	-10	49
NA15199	255	-1	0.01	12	390	8	0.01	5	4	100	0.12	-10	-10	53	-10	83
NA15340	626	-1	0.01	13	530	-2	0.01	-2	5	30	0.14	-10	-10	74	-10	50
NA15341	679	7	0.03	11	590	3	0.38	-2	6	47	0.18	-10	-10	62	-10	120
NA15342	2800	12	0.02	15	790	8	0.04	2	9	45	0.14	-10	-10	98	10	109
NA15343	516	1	0.02	14	650	16	0.03	-2	19	235	0.21	-10	-10	210	10	197
NA15344	986	3	0.02	10	950	3	0.01	-2	8	190	0.23	-10	-10	95	-10	120
NA15345	545	6	0.12	5	930	112	0.97	-2	12	197	0.11	-10	-10	88	10	370
NA15346	828	-1	0.01	14	910	6	0.01	-2	7	80	0.24	-10	-10	150	-10	208
NA15347	974	2	0.01	16	1450	9	0.06	-2	8	62	0.29	-10	-10	170	10	158
NA15348	1545	-1	0.07	14	1540	5	0.01	2	17	57	0.33	-10	-10	205	10	200
NA15349	631	-1	0.07	16	1500	8	0.01	-2	11	108	0.24	-10	-10	106	10	115
NA15452	321	-1	0.04	18	900	-2	-0.01	3	10	134	0.18	-10	-10	95	-10	48
NA15453	480	-1	0.03	16	1280	5	0.01	-2	8	74	0.18	-10	-10	95	-10	59

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15454	570450	7051402	NAD83, Z 7	HULSTEIN	20030729	BN	QD	0.75	M		B	M	L	S	COL	N	AMP
NA15455	570450	7051212	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.6	M		B	M	L	S	COL	N	AMP
NA15456	570452	7050986	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.5	M		B	M	L	S	COL	N	AMP
NA15457	570448	7050801	NAD83, Z 7	HULSTEIN	20030729	TA	QE	0.4	M		B	L	L	M	COL	N	SCH
NA15458	570452	7050603	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.6	M		B	M	M	M	COL	N	AMP
NA15459	570550	7050596	NAD83, Z 7	HULSTEIN	20030729	OR	QE	0.8	M		C	M	M	F	BDR	N	AMP
NA15460	570650	7050600	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.5	M		B	M	M	G	COL	N	AMP
NA15461	569580	7057628	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.7	M		C	L	L	M	COL	N	SCH
NA15462	569514	7057554	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.5	M		C	L	L	M	COL	N	SCH
NA15463	569444	7057486	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.6	M		C	L	M	M	COL	N	SCH
NA15464	569376	7057428	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.6	M		C	L	M	S	COL	N	SCH
NA15465	569301	7057344	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.6	M		B	L	L	S	COL	N	SCH
NA15466	569199	7057305	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.4	M		B	L	M	S	COL	N	SCH
NA15467	568879	7056924	NAD83, Z 7	HULSTEIN	20030729	BN	QE	0.6	M		B	M	H	M	COL	P	AMP
NA15468	569001	7056761	NAD83, Z 7	HULSTEIN	20030729	TA	QE	0.5	M		B	L	H	G	COL	P	QTZ
NA15469	570009	7057206	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.9	M		C	L	L	M	COL	N	SCH
NA15470	569937	7057137	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.75	M		B	L	M	M	COL	N	SCH
NA15471	569864	7057064	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.6	M		B	L	M	G	COL	N	SCH
NA15472	569790	7056992	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.6	M		C	L	M	M	COL	N	SCH
NA15473	569724	7056924	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.6	M		B	L	L	M	COL	N	SCH
NA15474	569653	7056859	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.9	M		C	M	M	M	COL	N	SCH
NA15475	569582	7056788	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.7	M		B	M	M	G	COL	N	SCH
NA15476	569511	7056710	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.8	M		B	M	M	G	COL	N	SCH
NA15477	569452	7056652	NAD83, Z 7	HULSTEIN	20030730	TA	QE	0.35	M		B	L	L	G	COL	N	GNE
NA15479	569442	7057764	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA15480	569371	7057700	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.4	M		B	L	L	S	COL	N	SCH
NA15481	569292	7057630	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.5	M		B	L	L	S	COL	N	SCH
NA15482	569226	7057561	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.45	M		B	L	M	S	COL	N	SCH
NA15483	569157	7057482	NAD83, Z 7	HULSTEIN	20030730	BN	QE	1	M		B	M	M	M	COL	N	SCH
NA15484	569080	7057419	NAD83, Z 7	HULSTEIN	20030730	TA	QE	0.7	M		C	M	M	F	COL	N	SCH
NA15485	569015	7057354	NAD83, Z 7	HULSTEIN	20030730	TA	QE	0.7	M		C	L	L	G	COL	N	SCH
NA15486	568947	7057278	NAD83, Z 7	HULSTEIN	20030730	BN	QL	0.5	M		B	M	H	G	COL	P	
NA15487	568738	7057066	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.45	M	10	B	L	H	S	COL	N	AMP
NA15488	568586	7057207	NAD83, Z 7	HULSTEIN	20030730	BN	QE	0.4	M	5	B	L	H	S	COL	P	AMP
NA15489	568944	7058124	NAD83, Z 7	HULSTEIN	20030731	BN	QE	0.5	M		B	L	H	M	COL	P	SCH
NA15490	568380	7057550	NAD83, Z 7	HULSTEIN	20030731	OR	QE	0.5	M		B	M	M	M	COL	P	AMP
NA15491	568310	7057488	NAD83, Z 7	HULSTEIN	20030731	BN	QE	0.6	M		B	M	M	G	COL	N	AMP
NA15492	568525	7057418	NAD83, Z 7	HULSTEIN	20030731	BN	QE	0.7	M		B	M	M	M	COL	N	AMP

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15454	L	SOME LOESS, APPROX 15%	2	-0.2	1.78	6	-10	200	-0.5	-2	0.91	-0.5	8	25	22	2.64	10	1	0.06	10	0.61
~~NA15455~~	L	LOESS APPROX 25-50%	5	-0.2	2.36	8	-10	230	0.6	-2	1.25	-0.5	11	25	34	2.84	10	-1	0.09	10	0.77
NA15456	M	MINOR LOESS?	4	-0.2	2.47	4	-10	160	0.9	-2	0.89	-0.5	12	28	27	3.97	10	1	0.1	20	0.9
NA15457	H	RK TYPE: QTZ-MUSC SCHIST	1	-0.2	3.89	2	-10	220	-0.5	5	1.44	-0.5	9	13	33	2.64	10	1	0.37	10	1.93
NA15458	H	BRN SL WITH ORANGE-LIMONITE PATCHES AND BANDS	1	-0.2	3.47	3	-10	120	0.7	-2	1.6	-0.5	22	9	18	6	10	-1	0.1	10	0.92
NA15459	H	BANDS OF ORANGE AND BROWN	2	-0.2	3.5	12	-10	250	0.7	-2	1.42	-0.5	23	21	71	7.73	20	-1	0.36	20	1.09
NA15460	M	SANDY	1	-0.2	1.91	5	10	210	0.5	-2	0.66	-0.5	12	24	36	3.42	10	-1	0.13	20	0.64
NA15461	H	RK TYPE: BIO SCHIST	-1	-0.2	3.67	-2	-10	350	0.5	2	1.08	-0.5	15	19	36	3.82	10	1	0.78	20	1.64
NA15462	H	RK TYPE: BIO SCHIST	-1	-0.2	3.04	4	-10	270	-0.5	-2	0.73	-0.5	13	21	27	3.65	10	1	0.98	10	1.13
NA15463	H	RK TYPE: BIO SCHIST	-1	-0.2	3.12	-2	-10	210	0.5	-2	0.88	-0.5	12	18	12	3.31	10	1	0.86	10	1.18
NA15464	H	RK TYPE: BIO SCHIST	-1	-0.2	5	-2	-10	310	0.9	-2	1.57	-0.5	14	11	30	4.4	10	1	1.12	10	1.71
NA15465	M	ROCK TYPE: BIO-QTZ SCHIST	8	-0.2	2.55	3	-10	140	0.5	-2	0.78	-0.5	7	21	31	3.03	10	1	0.45	30	0.76
NA15466	M	SANDY	1	-0.2	2.77	6	-10	160	0.7	-2	0.76	-0.5	9	18	37	3.41	10	1	0.59	30	0.82
NA15467	M	SOME LOESS? PEBBLES OF CALC SILICATE, QTZ AND AMP	-1	-0.2	2.83	-2	-10	260	0.6	2	0.81	-0.5	17	39	39	4.29	10	-1	0.1	10	0.95
NA15468	M	SANDY (WITH QTZ) POSSIBLY ALLUVIUM	2	-0.2	1.58	3	-10	230	-0.5	-2	0.49	-0.5	5	16	16	1.85	10	-1	0.06	10	0.44
NA15469	H	RK TYPE: BIO SCHIST, SANDY SOILL, ADJACENT TO NA12344 SL	-1	-0.2	4.78	-2	-10	430	0.5	-2	2	-0.5	11	13	55	3.81	10	1	0.88	10	1.13
NA15470	H	RK TYPE: QTZ-BIO SCHIST, SANDY SOIL	1	-0.2	4.6	-2	-10	770	0.5	-2	1.12	-0.5	21	11	76	5.84	10	1	0.99	10	1.57
NA15471	H	RK TYPE: BIO-QTZ SCHIST, SANDY SL	-1	-0.2	3.03	3	-10	200	0.5	-2	0.3	-0.5	10	10	43	3.93	10	1	0.46	10	1.03
NA15472	H	RK TYPE: BIO-QTZ SCHIST. SANDY SL	-1	0.3	3.49	4	-10	410	0.6	-2	0.75	-0.5	13	17	23	4.82	10	-1	0.73	20	1.33
NA15473	M	RK TYPE: BIO SCHIST, SANDY SL	3	0.3	1.6	7	-10	190	0.6	-2	0.32	-0.5	7	21	24	3.04	10	-1	0.33	30	0.57
NA15474	H	RK TYPE: BIO SCHIST (NO QTZ). VERY FINE BIO, SILTY, SL MINOR LIMONITE SPECKS	1	-0.2	2.68	-2	-10	250	1.1	-2	1.08	-0.5	11	56	56	4.67	10	-1	0.5	40	1.46
NA15475	L	SOME LOESS, LESS THAN 15%(?), RK TYPE: BIO-QTZ SCHIST, SOLIFLUCTED SL	3	-0.2	1.3	4	-10	210	-0.5	-2	0.44	-0.5	8	23	33	2.5	-10	-1	0.1	20	0.55
NA15476	M	RK TYPE: BIO SCHIST. SOLIFLUCTED SL	4	-0.2	1.92	7	-10	230	-0.5	-2	0.47	-0.5	11	29	40	3.29	10	-1	0.38	10	0.94
NA15477	M	DUPE OF 15478. RK TYPE: QTZ-FELD-MUSC GNEISS. AT BASE OF SLOPE	4	-0.2	1.59	-2	-10	120	-0.5	-2	0.22	-0.5	8	15	24	2.54	10	-1	0.26	30	0.96
NA15479	L	RK TYPE: QTZ-BIO SCHIST FLOAT, SL OF SANDY BIO WITH MINOR LOESS	3	-0.2	1.84	5	-10	240	-0.5	-2	0.41	-0.5	11	26	25	3.11	10	-1	0.4	10	0.93
NA15480	M	RK TYPE: QTZ-BIO SCHIST, SANDY BIOTITE RICH SOIL	-1	-0.2	2.84	7	-10	210	0.5	-2	0.42	-0.5	12	28	23	3.66	10	-1	0.59	20	1.27
NA15481	M	RK TYPE: BIO-QTZ SCHIST	1	-0.2	4.92	2	-10	160	0.9	-2	1.27	-0.5	15	49	39	3.95	20	1	0.65	20	1.53
NA15482	M	RK TYPE: BIO-QTZ SCHIST	3	-0.2	4.37	3	-10	170	0.7	-2	1.52	-0.5	11	22	27	3.69	10	1	0.89	30	1.05
NA15483	M	RK TYPE: BIO SCHIST	24	-0.2	1.77	8	-10	180	-0.5	-2	0.76	-0.5	9	20	26	2.58	10	1	0.26	20	0.67
NA15484	H	RK TYPE: MICACEOUS-QTZ SCHIST	-1	-0.2	3.14	4	-10	80	0.9	-2	1.06	-0.5	10	10	27	3.15	10	1	0.23	40	1.15
NA15485	H	RK TYPE: QTZ-MUSC-BIO SCHIST, VERY SANDY DRY SL	-1	0.2	1.72	5	-10	100	0.6	-2	0.12	-0.5	7	17	40	2.94	10	1	0.28	30	0.55
NA15486	L	SOLIFLUCTED SL WITH LOESS, SANDY WITH MICA (B AND M)	25	-0.2	2.06	-2	-10	200	0.6	-2	0.66	-0.5	7	19	41	3.16	10	-1	0.43	50	0.99
NA15487	L	AMP PEBBLES WITH LOESS	2	-0.2	2.08	2	-10	210	-0.5	2	0.45	-0.5	14	25	23	3.19	10	1	0.1	10	0.62
NA15488	L	AMP PEBBLES WITH LOESS	3	-0.2	1.8	3	-10	170	-0.5	-2	0.51	-0.5	12	23	22	3.18	10	-1	0.08	10	0.62
NA15489	M	SANDY SOIL OF QTZ-BIO-MUSC	1	0.4	2.22	-2	-10	180	0.5	-2	0.4	-0.5	9	12	24	3.16	10	-1	0.73	10	0.9
NA15490	M	SOME LOESS	3	-0.2	2.44	3	-10	310	0.7	-2	0.56	-0.5	15	22	38	4.8	10	1	0.22	20	0.84
NA15491	M	SANDY, ROUNDED AMP PEBBLES	3	-0.2	1.42	2	-10	290	-0.5	-2	0.48	-0.5	11	23	60	2.89	-10	-1	0.18	20	0.63
NA15492	M	SANDY	1	-0.2	1.98	-2	-10	190	-0.5	-2	0.78	-0.5	19	27	45	3.87	10	-1	0.16	10	1.2

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15454	302	1	0.04	19	1070	5	-0.01	3	5	51	0.13	-10	-10	64	-10	62
~~NA15455~~	529	1	0.04	21	880	38	0.01	2	6	88	0.14	-10	-10	66	-10	93
NA15456	724	-1	0.03	19	820	3	0.01	2	12	55	0.18	-10	-10	93	-10	87
NA15457	245	-1	0.03	11	1260	5	-0.01	3	17	109	0.12	-10	-10	190	-10	39
NA15458	316	1	0.04	8	1640	7	0.02	-2	15	114	0.16	-10	-10	107	-10	58
NA15459	555	2	0.06	19	2240	7	-0.01	-2	22	63	0.25	-10	-10	176	-10	280
NA15460	421	-1	0.04	18	640	9	-0.01	3	9	31	0.15	-10	-10	73	-10	75
NA15461	840	-1	0.01	11	1010	6	-0.01	-2	8	76	0.19	-10	-10	97	-10	64
NA15462	637	-1	0.01	11	940	6	0.01	2	6	79	0.21	-10	-10	93	-10	59
NA15463	702	-1	0.01	9	930	7	0.01	3	9	50	0.18	-10	-10	76	-10	53
NA15464	778	-1	0.01	8	820	3	0.01	4	5	85	0.25	-10	-10	121	-10	54
NA15465	455	-1	0.02	14	360	5	0.01	-2	6	45	0.13	-10	10	64	-10	54
NA15466	547	-1	0.02	13	580	7	0.02	-2	7	56	0.2	-10	10	73	-10	59
NA15467	566	-1	0.02	18	850	3	0.01	-2	10	73	0.1	-10	-10	95	-10	92
NA15468	232	-1	0.02	9	490	4	0.01	-2	3	62	0.09	-10	-10	42	-10	52
NA15469	820	-1	0.02	8	950	6	0.01	-2	5	110	0.22	-10	-10	89	-10	232
NA15470	896	-1	0.03	5	1240	7	0.02	2	7	114	0.35	-10	-10	154	-10	110
NA15471	583	1	0.01	4	270	6	0.01	3	5	26	0.08	-10	-10	62	-10	69
NA15472	949	1	0.01	12	750	8	0.01	2	8	63	0.28	-10	-10	112	-10	108
NA15473	486	1	0.01	13	470	5	0.01	-2	8	22	0.09	-10	-10	57	-10	49
NA15474	640	2	0.01	11	2430	8	-0.01	-2	20	37	0.07	-10	-10	133	-10	45
NA15475	241	1	0.02	15	620	8	0.01	-2	5	32	0.12	-10	-10	54	-10	53
NA15476	350	1	0.02	13	570	6	0.01	-2	6	31	0.17	-10	-10	79	-10	62
NA15477	362	1	0.01	7	370	11	0.01	2	9	15	0.12	-10	-10	71	-10	106
NA15479	488	-1	0.02	18	390	5	0.01	-2	6	28	0.19	-10	-10	78	-10	64
NA15480	739	-1	0.01	17	510	6	0.01	-2	7	52	0.2	-10	-10	85	-10	98
NA15481	860	-1	0.01	30	850	6	0.01	2	8	52	0.24	-10	-10	91	-10	72
NA15482	694	-1	0.01	16	870	12	0.01	2	8	58	0.21	-10	-10	75	-10	90
NA15483	489	-1	0.03	17	800	4	-0.01	2	4	39	0.13	-10	-10	58	-10	61
NA15484	900	1	0.02	5	700	10	-0.01	-2	5	57	0.06	-10	-10	49	-10	73
NA15485	337	2	0.01	9	290	6	0.01	2	3	11	0.09	-10	-10	45	-10	54
NA15486	477	2	0.01	13	680	13	0.02	-2	7	32	0.1	-10	-10	55	-10	104
NA15487	724	-1	0.02	14	650	4	0.01	-2	6	35	0.13	-10	-10	75	-10	69
NA15488	437	-1	0.02	15	980	3	0.01	-2	5	25	0.13	-10	-10	69	-10	56
NA15489	570	-1	0.01	6	690	6	-0.01	2	6	22	0.18	-10	-10	76	-10	73
NA15490	724	-1	0.02	17	650	11	0.01	4	15	34	0.13	-10	-10	98	-10	94
NA15491	300	1	0.02	15	720	8	0.01	2	7	31	0.12	-10	-10	57	-10	74
NA15492	401	-1	0.04	16	710	2	-0.01	4	10	30	0.22	-10	-10	85	-10	60

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15493	568456	7057358	NAD83, Z 7	HULSTEIN	20030731	BN	QD	0.35	M		B	M	L	S	COL	N	AMP
NA15494	568585	7058604	NAD83, Z 7	HULSTEIN	20030731	OR	QL	0.9	M		C	M	L	M	COL	N	SCH
NA15495	568381	7058402	NAD83, Z 7	HULSTEIN	20030731	TA	QE	0.75	M		B	L	M	G	COL	P	SCH
NA15496	568306	7058335	NAD83, Z 7	HULSTEIN	20030731	OR	QL	0.5	M		B	L	H	G	COL	N	SCH
NA15497	568238	7058262	NAD83, Z 7	HULSTEIN	20030731	BN	QL	0.7	M	5	C	L	M	G	COL	N	SCH
NA15498	568164	7058191	NAD83, Z 7	HULSTEIN	20030731	TA	QE	0.6	M		C	M	M	G	COL	N	SCH
NA15499	568098	7058123	NAD83, Z 7	HULSTEIN	20030731	TA	QE	0.6	M		C	L	L	M	COL	N	SCH
NA15500	567814	7057842	NAD83, Z 7	HULSTEIN	20030731	BN	QE	0.7	M	5	B	M	H	G	COL	P	SCH
NA15501	567761	7057765	NAD83, Z 7	HULSTEIN	20030731	BN	QE	0.4	M		B	L	M	G	COL	N	AMP
NA15502	567673	7057702	NAD83, Z 7	HULSTEIN	20030731	BN	QD	0.4	M		B	L	M	M	COL	N	AMP
NA15536	567884	7059329	NAD83, Z 7	HULSTEIN	20030803	BN	QE	0.6	M		B	L	M	M	COL	N	QZT
NA15537	567810	7059255	NAD83, Z 7	HULSTEIN	20030803	BN	QE	0.45	M		B	L	L	M	COL	N	
NA15538	567737	7059470	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.8	M		C	L	L	M	COL	N	SCH
NA15539	567661	7059403	NAD83, Z 7	HULSTEIN	20030803	BN	QE	0.8	M		B	L	M	M	COL	N	SCH
NA15540	567589	7059320	NAD83, Z 7	HULSTEIN	20030803	BN	QD	0.8	M	15	B	H	H	M	COL	P	SCH
NA15541	567520	7059246	NAD83, Z 7	HULSTEIN	20030803	OR	QE	0.8	M	7	B	M	M	M	COL	P	SCH
NA15542	567434	7059178	NAD83, Z 7	HULSTEIN	20030803	BN	QE	0.6	M		B	L	M	M	COL	N	SCH
NA15543	567299	7059025	NAD83, Z 7	HULSTEIN	20030803	BN	QD	0.4	M	10	B	M	M	S	COL	P	SCH
NA15544	567233	7058978	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.3	M		B	L	L	S	COL	N	SCH
NA15546	567177	7058899	NAD83, Z 7	HULSTEIN	20030803	TA	QE	1	M		B	L	M	S	COL	N	SCH
NA15547	567107	7058844	NAD83, Z 7	HULSTEIN	20030803	OR	QE	0.6	M		B	M	L	M	COL	N	SCH
NA15548	567037	7058762	NAD83, Z 7	HULSTEIN	20030803	OR	QE	0.5	M		B	M	L	M	COL	N	SCH
NA15549	566977	7058694	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.6	M		B	M	M	G	COL	N	SCH
NA15550	566906	7058620	NAD83, Z 7	HULSTEIN	20030803	OR	QE	0.5	M		C	L	M	G	COL	N	SCH
NA15551	566843	7058540	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.5	M		C	M	L	G	COL	N	SCH
NA15552	566752	7058463	NAD83, Z 7	HULSTEIN	20030803	TA	QE	1	M		B	M	L	G	COL	N	SCH
NA15553	566697	7058409	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.7	M		B	M	L	G	COL	N	SCH
NA15554	566622	7058337	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.7	M		B	M	M	G	COL	N	SCH
NA15555	566554	7058265	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.8	M		B	M	M	S	BDR	N	SCH
NA15556	566507	7058172	NAD83, Z 7	HULSTEIN	20030803	TA	QE	0.5	M		B	M	H	M	COL	P	SCH
NA15557	566620	7058055	NAD83, Z 7	HULSTEIN	20030803	OR	QE	0.8	M		B	H	M	G	COL	N	SCH
NA15558	566693	7058123	NAD83, Z 7	HULSTEIN	20030803	BN	QE	0.65	M		B	M	M	M	COL	N	SCH
NA15559	567740	7059183	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA15560	567672	7059126	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.5	M		B	M	L	M	COL	N	SCH
NA15561	567597	7059049	NAD83, Z 7	HULSTEIN	20030804	OR	QE	0.6	M		B	M	L	M	COL	N	SCH
NA15562	567519	7058978	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.9	M		C	M	M	M	COL	N	SCH
NA15563	567458	7058911	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.8	M		C	M	M	M	COL	N	SCH
NA15564	567308	7058765	NAD83, Z 7	HULSTEIN	20030804	BF	QE	0.35	M		B	M	L	S	COL	N	SCH
NA15565	567248	7058668	NAD83, Z 7	HULSTEIN	20030804	BF	QE	0.3	M		B	M	L	S	COL	N	SCH
NA15566	567173	7058620	NAD83, Z 7	HULSTEIN	20030804	BF	QE	0.3	M		B	M	L	S	COL	N	SCH
NA15567	567107	7058549	NAD83, Z 7	HULSTEIN	20030804	BF	QL	0.25	M		B	M	L	S	COL	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15493	M	RK TYPE: AMP AND QTZ-BIO SCHIST, SAMPLE WITE BELOW SMALL SIFACING SCREE SLOPE	-1	-0.2	3.47	-2	-10	340	0.6	-2	1.15	-0.5	24	9	74	7.47	20	1	0.34	20	1.58
NA15494	H	SANDY, RK TYPE: MUSC-BIO SCHIST	6	-0.2	1.47	15	-10	510	0.8	-2	0.27	0.6	21	26	91	4.15	10	-1	0.36	30	0.59
NA15495	M	SANDY, RK TYPE: BIO- MUSC SCHIST	8	-0.2	1.52	3	-10	190	-0.5	-2	0.54	-0.5	4	10	11	1.66	10	1	0.21	30	0.86
NA15496	H	RK TYPE: QTZ-MUSC SCHIST	2	-0.2	1.44	2	-10	220	0.7	-2	0.38	-0.5	3	12	24	1.7	-10	-1	0.12	30	0.57
NA15497	H	RK TYPE: BIO-MUSC SCHIST	15	0.3	2.95	4	-10	730	0.7	2	1.12	0.5	18	39	222	5.99	10	1	0.6	60	1.58
NA15498	H	RK TYPE: MUSC-BIO-QTZ SCHIST	1	-0.2	1.54	-2	-10	300	0.5	3	0.18	-0.5	6	6	56	3.91	10	-1	0.71	60	0.75
NA15499	H	SANDY, RK TYPE: MUSC-BIO-QTZ SCHIST	2	-0.2	1.41	5	-10	180	0.5	2	0.28	-0.5	6	17	23	2.45	10	-1	0.17	30	0.61
NA15500	L	APPROX. 25% LOESS, RK TYPE: BIO-MUSC SCHIST	65	-0.2	1.94	5	-10	360	0.5	2	0.63	-0.5	11	43	59	3.2	10	-1	0.23	20	0.91
NA15501	M	SANDY. RK TYPE: AMP AND QTZ-MICA SCHIST	3	-0.2	1.44	3	-10	260	-0.5	-2	0.64	-0.5	14	24	39	3.12	10	-1	0.15	10	0.7
NA15502	M	SANDY WITH PEBBLES	2	-0.2	2.52	-2	-10	520	-0.5	-2	0.65	-0.5	39	11	78	6.78	10	-1	0.48	10	1.25
NA15536	M	QZT, ROUND GY PEBBLES SANDY SL	2	-0.2	1.94	10	-10	360	0.8	-2	0.97	-0.5	10	36	112	2.76	10	-1	0.11	30	0.86
NA15537	M	SANDY SL	1	-0.2	2.05	9	-10	360	0.5	3	0.27	-0.5	16	39	45	2.94	10	-1	0.08	10	0.73
NA15538	H	SCH, QTZ-BIOT-MUSC	3	-0.2	1.4	14	-10	340	0.9	-2	0.34	-0.5	17	25	26	3.49	10	-1	0.48	50	0.61
NA15539	M	SANDY,LIMONITE COLOR	4	-0.2	1.76	20	-10	440	0.7	-2	0.54	-0.5	14	43	66	3.29	10	-1	0.1	30	0.7
NA15540	L	40% LOESS, SITE ON LOESS & ORGANIC RIDDEN SOLFLUCTED SLOPE	7	-0.2	1.8	9	-10	400	0.5	-2	0.58	-0.5	12	31	46	2.66	10	-1	0.09	20	0.58
NA15541	M		3	-0.2	1.38	33	-10	350	0.9	2	0.8	0.6	18	46	170	4.11	10	-1	0.12	30	0.44
NA15542	M	SCH, BIOT	-1	0.3	1.91	3	-10	520	0.9	2	0.57	-0.5	15	38	124	4.47	10	-1	0.58	30	1.02
NA15543	L		3	-0.2	1.52	6	-10	260	-0.5	-2	0.74	-0.5	9	40	25	2.54	-10	-1	0.17	10	0.63
NA15544	M	SANDY, ORANGE TINGE DUPE OF 15545	1	-0.2	1.66	5	-10	320	-0.5	-2	0.34	-0.5	6	15	24	2.88	10	-1	0.32	10	0.58
NA15546	H	SANDY. LIMONITE ORANGE TINGE	2	-0.2	1.98	4	-10	460	0.5	-2	0.71	-0.5	11	26	34	3.19	10	-1	0.23	20	0.86
NA15547	M	SCH,QTZ-MUSC-BIO MINOR LOESS<10%	3	-0.2	1.4	5	-10	350	-0.5	2	0.32	-0.5	8	22	36	2.19	10	-1	0.2	30	0.68
NA15548	H		2	-0.2	1.72	4	-10	250	0.6	2	0.21	-0.5	7	18	55	2.56	10	-1	0.17	20	0.64
NA15549	H	OR,LIMONITE COLOR TINGE	-1	-0.2	1.54	7	-10	240	-0.5	2	0.28	-0.5	8	19	46	2.3	10	-1	0.42	40	0.74
NA15550	H		9	0.3	2.32	8	-10	100	0.6	3	0.28	-0.5	9	25	358	9.14	10	-1	1.15	70	0.99
NA15551	H	SCH, QTZ-MUSC	9	-0.2	2	10	-10	610	0.6	2	0.33	-0.5	11	18	228	4.6	10	-1	0.4	50	0.76
NA15552	M	SCH,QTZ-MUSC MINOR LOESS IN SAMPLE	5	-0.2	1.36	8	-10	240	0.5	-2	0.38	-0.5	7	21	69	2.64	-10	-1	0.12	40	0.5
NA15553	M	SCH,QTZ-MUSC	12	-0.2	1.3	4	-10	310	0.5	-2	0.43	-0.5	9	19	53	2.72	10	-1	0.22	50	0.56
NA15554	M	SCH, QTZ-MUSC	2	-0.2	1.62	3	-10	410	0.6	-2	0.33	-0.5	12	21	49	3.23	10	-1	0.44	40	0.79
NA15555	M	BANDS OF LIMONITE COLORED SL	-1	-0.2	2.43	6	-10	1350	1	2	1.13	-0.5	19	45	100	4.79	10	1	0.78	60	1.37
NA15556	M	SCH, QTZ-MUSC-BIO	2	-0.2	1.86	-2	-10	380	0.5	-2	0.56	-0.5	10	26	46	3.28	10	-1	0.27	30	0.72
NA15557	H	POSS C HOIZ SCH OR AMP, QTZ-BIO-MUSC	3	-0.2	2.51	-2	-10	530	-0.5	-2	1.1	-0.5	19	25	73	6.12	10	1	0.36	20	1.16
NA15558	M	SCH, QTZ-BIO-MUSC ~10% LOESS	1	-0.2	1.66	8	-10	280	0.8	2	0.55	-0.5	15	23	60	3.75	10	-1	0.4	70	0.66
NA15559	H	SCH, BIOT	3	-0.2	2.01	8	-10	410	0.6	2	0.53	-0.5	10	39	68	3.24	10	-1	0.26	20	0.96
NA15560	M	SCH, BIOT-MUSC	-1	-0.2	2.32	-2	-10	520	0.7	-2	0.57	-0.5	11	41	65	3.14	10	-1	0.74	40	1.3
NA15561	M	MINOR LOESS SCH, MUSC BIOT	2	-0.2	2.45	22	-10	580	1.1	2	0.95	-0.5	12	41	90	3.87	10	-1	0.33	20	0.98
NA15562	H	SCH, BIOT	2	-0.2	3.76	-2	-10	690	0.6	-2	1.42	-0.5	22	41	95	6.38	10	-1	1.73	10	2.02
NA15563	H	SCH, BIOT	3	-0.2	3.25	-2	-10	820	0.5	-2	1.5	-0.5	102	116	152	6.42	10	1	0.9	20	1.5
NA15564	M	25% LOESS SCH,QTZ-BIO-MUSC OR GNE	2	-0.2	1.45	6	-10	240	-0.5	-2	0.34	-0.5	9	27	15	2.41	-10	-1	0.1	10	0.44
NA15565	M	20$ LOESS SCH, QTZ MUSC > BIOT BOULDERS ON HILLSIDE QTZ RICH	4	-0.2	1.24	6	-10	360	0.5	-2	0.52	-0.5	7	18	39	2.32	-10	1	0.13	30	0.46
NA15566	M	MINOR LOESS SCH,QTZ-MUSC QTZ RICH	1	-0.2	1.84	4	-10	360	-0.5	-2	0.17	-0.5	9	23	49	2.95	10	-1	0.32	20	0.74
NA15567	M	MINOR LOESS SCH,QTZ-MUSCBLOCKY FLOAT QTZ RICH	2	-0.2	1.03	2	-10	170	-0.5	-2	0.14	-0.5	4	14	7	1.45	-10	1	0.08	30	0.27

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15493	1840	-1	0.03	6	2850	-2	0.02	-2	20	26	0.17	-10	-10	133	-10	255
NA15494	1565	1	0.01	63	530	18	0.05	3	9	21	0.08	-10	-10	54	-10	161
NA15495	413	1	0.01	8	1220	6	0.01	4	10	21	0.07	-10	-10	53	-10	51
NA15496	363	1	0.01	11	240	46	0.01	2	7	49	0.05	-10	-10	38	-10	141
NA15497	648	5	0.02	32	2700	33	0.15	-2	11	61	0.13	-10	-10	97	-10	391
NA15498	395	9	0.02	4	640	8	0.37	-2	6	55	0.11	-10	-10	40	-10	97
NA15499	390	1	0.01	10	320	13	0.05	2	5	43	0.09	-10	-10	41	-10	91
NA15500	326	1	0.02	29	940	11	0.01	-2	8	37	0.14	-10	-10	76	-10	81
NA15501	399	1	0.03	15	1160	8	0.03	-2	6	40	0.12	-10	-10	74	-10	73
NA15502	502	-1	0.08	14	1420	3	0.47	-2	14	81	0.21	-10	-10	221	-10	88
NA15536	395	3	0.01	39	3770	15	0.02	-2	5	40	0.07	-10	-10	110	-10	128
NA15537	951	1	0.01	38	740	9	0.01	-2	5	21	0.09	-10	-10	75	-10	65
NA15538	1225	-1	0.01	38	1050	18	-0.01	-2	5	21	0.12	-10	-10	41	-10	77
NA15539	887	1	0.02	62	1270	11	0.01	-2	7	30	0.09	-10	-10	75	-10	95
NA15540	480	-1	0.02	37	750	11	0.01	-2	5	37	0.11	-10	-10	64	-10	72
NA15541	828	2	0.01	118	1630	14	0.01	2	11	25	0.03	-10	-10	122	-10	158
NA15542	883	4	0.02	54	1620	17	0.33	-2	6	39	0.11	-10	-10	78	-10	98
NA15543	289	-1	0.02	33	1590	8	0.01	-2	4	32	0.1	-10	-10	57	-10	66
NA15544	350	1	0.01	13	750	36	0.01	-2	7	22	0.07	-10	-10	72	-10	142
NA15546	299	-1	0.02	22	1190	7	-0.01	2	8	39	0.1	-10	-10	85	-10	86
NA15547	316	-1	0.02	17	390	9	-0.01	2	4	20	0.09	-10	-10	47	-10	51
NA15548	152	-1	0.01	17	170	9	-0.01	-2	5	17	0.1	-10	-10	61	-10	81
NA15549	279	2	0.01	12	630	8	-0.01	2	4	16	0.1	-10	-10	54	-10	52
NA15550	321	2	0.04	14	870	68	1.04	3	11	92	0.17	-10	-10	106	-10	105
NA15551	248	2	0.02	15	550	14	0.35	-2	6	67	0.11	-10	-10	64	-10	112
NA15552	253	2	0.03	20	360	6	0.04	-2	4	31	0.08	-10	-10	42	-10	61
NA15553	502	1	0.02	19	570	15	0.02	-2	4	31	0.09	-10	-10	49	-10	102
NA15554	371	3	0.02	18	360	8	0.04	-2	5	23	0.12	-10	-10	59	-10	84
NA15555	1190	4	0.01	56	3170	10	0.02	2	9	48	0.13	-10	-10	86	-10	178
NA15556	431	1	0.03	20	730	9	0.03	-2	6	40	0.13	-10	-10	70	-10	81
NA15557	506	1	0.04	19	2010	3	0.01	-2	16	46	0.15	-10	-10	113	-10	121
NA15558	542	2	0.01	31	1340	11	0.01	-2	6	31	0.09	-10	-10	45	-10	104
NA15559	556	2	0.01	46	1180	6	0.02	-2	8	27	0.13	-10	-10	76	-10	79
NA15560	430	1	0.02	38	1100	3	0.03	-2	6	28	0.12	-10	-10	55	-10	78
NA15561	730	2	0.01	53	2470	7	0.01	-2	8	33	0.08	-10	-10	73	-10	132
NA15562	940	-1	0.02	49	4200	-2	0.01	-2	11	37	0.36	-10	-10	92	-10	152
NA15563	1340	1	0.03	181	3860	5	0.13	-2	12	48	0.21	10	-10	106	-10	230
NA15564	375	1	0.02	17	220	9	0.01	-2	4	21	0.09	-10	-10	56	-10	55
NA15565	323	1	0.02	17	680	8	0.01	-2	4	30	0.07	-10	-10	42	-10	71
NA15566	290	2	0.01	16	380	7	0.01	-2	5	17	0.11	-10	-10	60	-10	112
NA15567	126	-1	0.01	8	240	33	0.01	-2	1	14	0.05	-10	-10	34	-10	70

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15568	567034	7058484	NAD83, Z 7	HULSTEIN	20030804	BK	QE	0.3	M		B	M	L	M	COL	N	SCH
NA15569	566961	7058413	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.4	M		B	M	L	G	COL	N	SCH
NA15570	566894	7058338	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.09	M		C	M	L	G	BDR	N	SCH
NA15571	566824	7058247	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.8	M		B	M	M	G	COL	N	SCH
NA15572	566750	7058179	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.5	M		B	M	L	G	COL	N	SCH
NA15573	567323	7058477	NAD83, Z 7	HULSTEIN	20030804	BN	QD	0.9	M	10	B	M	H	G	COL	P	SCH
NA15574	567242	7058408	NAD83, Z 7	HULSTEIN	20030804	BN	QL	0.35	M		B	M	L	S	COL	N	SCH
NA15575	567178	7058336	NAD83, Z 7	HULSTEIN	20030804	TA	QE	0.4	M		C	M	M	S	COL	N	SCH
NA15577	567107	7058269	NAD83, Z 7	HULSTEIN	20030704	TA	QE	0.5	M		C	M	H	M	COL	N	SCH
NA15578	567041	7058160	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.3	M		A	M	M	M	COL	N	AMP
NA15579	567006	7058052	NAD83, Z 7	HULSTEIN	20030804	BN	QE	0.5	M		B	M	M	M	COL	N	AMP
NA15581	568562	7058063	NAD83, Z 7	HULSTEIN	20030805	BN	QE	0.3	M	TR	B	M	H	M	COL	N	SCH
NA15582	568513	7057980	NAD83, Z 7	HULSTEIN	20030805	BN	QE	0.6	M		B	M	M	M	COL	N	SCH
NA15583	568420	7057924	NAD83, Z 7	HULSTEIN	20030805	OR	QE	0.6	M		C	M	M	M	COL	N	AMP
NA15584	568374	7057832	NAD83, Z 7	HULSTEIN	20030805	BN	QE	0						M	COL	N	AMP
NA15585	568304	7057770	NAD83, Z 7	HULSTEIN	20030805	OR	QE	0.8	M		B	H	M	M	COL	N	AMP
NA15586	568234	7057701	NAD83, Z 7	HULSTEIN	20030805	OR	QE	0.6	M	5	B	M	H	G	COL	P	AMP
NA15587	572352	7047598	NAD83, Z 7	HULSTEIN	20030805	GN	QD	0.8	M		C	M	L	M	COL	N	AMP
NA15588	572452	7047599	NAD83, Z 7	HULSTEIN	20030805	GN	QE	0.7	M		B	M	M	S	COL	N	AMP
NA15589	572551	7047599	NAD83, Z 7	HULSTEIN	20030805	GN	QE	0.7	M		B	M	L	M	COL	N	AMP
NA15590	572652	7047600	NAD83, Z 7	HULSTEIN	20030805	BN	QE	0.5	M		B	M	L	S	COL		AMP
NA15591	572750	7047599	NAD83, Z 7	HULSTEIN	20030805	BN	QL	0.15	M	TR	B	M	L	M	COL	N	SCH
NA15592	572654	7047798	NAD83, Z 7	HULSTEIN	20030805	BN	QE	1	M		B	M	L	M	COL	N	AMP
NA15593	572551	7047801	NAD83, Z 7	HULSTEIN	20030805	GN	QD	0.7	M		B	M	L	M	COL	N	AMP
NA15594	572452	7047807	NAD83, Z 7	HULSTEIN	20030805	BN	QE	0.5	M		B	M	L	S	COL	N	SCH
NA15595	572349	7047800	NAD83, Z 7	HULSTEIN	20030805	GN	QD	0.6	M		B	M	L	S	COL	N	AMP
NA15596	572251	7047803	NAD83, Z 7	HULSTEIN	20030805	GN	QE	0.25	M		B	M	L	M	COL	N	AMP
NA15597	571596	7054254	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.6	M		B	M	M	M	COL	N	SCH
NA15598	571666	7054329	NAD83, Z 7	HULSTEIN	20030810	BN	QL	0.6	M		C	L	L	G	BDR	N	SCH
NA15599	571737	7054399	NAD83, Z 7	HULSTEIN	20030810	BK	QL	0.7	M		C	L	L	G	BDR	N	SCH
NA15600	571808	7054470	NAD83, Z 7	HULSTEIN	20030810	BN	QL	0.5	M		C	L	L	G	BDR	N	SCH
NA15601	571882	7054542	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.6	M		B	M	M	M	COL	N	SCH
NA15602	571950	7054611	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.5	M		B	M	M	G	COL	N	SCH
NA15603	572020	7054682	NAD83, Z 7	HULSTEIN	20030810	BN	QD	0.8	M		B	M	M	G	BDR	N	SCH
NA15604	572090	7054743	NAD83, Z 7	HULSTEIN	20030810	BN	QL	0.35	M		B	M	L	G	BDR	N	SCH
NA15605	572162	7054826	NAD83, Z 7	HULSTEIN	20030810	BN	QL	0.35	M		B	M	L	G	BDR	N	QTZ
NA15606	572301	7054961	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.3	M		B	M	L	G	BDR	N	SCH
NA15607	572372	7055036	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.35	M		B	M	L	G	COL	N	AMP
NA15608	572444	7055107	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.6	M		C	L	L	M	COL	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15568	M	MINOR LOESS SCH,QTZ-MUSC BLOCKY, QTZ RICH	2	-0.2	1.8	-2	-10	340	0.7	-2	0.31	-0.5	12	29	60	3.52	10	-1	0.3	20	0.6
NA15569	M	SCH,QTZ-BIO-MUSC	5	-0.2	1.57	2	-10	350	0.5	-2	0.33	-0.5	8	26	45	2.78	10	1	0.31	30	0.71
NA15570	H	SCH,BIOT-QTZ	1	-0.2	2.07	2	-10	330	0.5	-2	0.62	-0.5	11	22	42	3.51	10	-1	0.41	30	0.92
NA15571	M	SCH,QTZ-BIOT-MUSC	6	-0.2	2.1	7	-10	650	0.9	-2	0.8	-0.5	16	34	91	3.61	10	-1	0.48	50	0.99
NA15572	M	~10 LOESS	2	-0.2	1.64	7	-10	350	0.5	2	0.6	-0.5	12	26	34	3.56	10	-1	0.16	10	0.63
NA15573	L	LOESS~ 50% SCH, QTZ	5	-0.2	1.78	5	-10	380	0.5	2	0.67	-0.5	9	27	32	2.63	10	-1	0.08	20	0.58
NA15574	M	SCH,QTZ-MUSC ~ 20% LOESS	1	-0.2	1.46	-2	-10	270	-0.5	-2	0.47	-0.5	7	20	49	2.36	10	-1	0.21	20	0.54
NA15575	H	SCH, MUSC MINOR QTZ DUP 155576	3	-0.2	1.36	-2	-10	260	0.6	-2	0.33	-0.5	7	13	71	2.34	10	-1	0.31	30	0.5
NA15577	H	OR-TA TINGE MUSC SCH MINOR QTZ	2	-0.2	1.5	5	-10	450	0.6	3	0.31	0.5	11	18	148	5.06	10	-1	0.38	40	0.55
NA15578	M	OL-BN BANDED COLORS MINOR LIMONITE COLORS	1	-0.2	3.64	-2	-10	1000	0.7	-2	1.72	-0.5	33	23	94	8.91	20	-1	0.3	10	1.18
NA15579	H	OR TINGE NEAR TOP	1	-0.2	3.31	-2	-10	40	-0.5	3	0.46	-0.5	2	14	156	11.45	20	-1	1.6	30	1.45
NA15581	M	RK TYPE: QTZ-MUSC SCHIST. SOLIFLUCTED	27	0.7	1.33	7	-10	350	0.7	-2	0.46	1	9	4	258	4.36	10	-1	0.45	60	0.9
NA15582	M	RK TYPE: QTZ-MUSC SCHIST. SLOPE: MODERATE-GENTLE, SOLIFLUCTED	56	1.6	0.81	12	-10	300	0.8	7	0.25	4.1	15	3	629	4.39	-10	-1	0.27	80	0.43
NA15583	H		5	-0.2	1.78	-2	-10	610	1.2	-2	0.62	-0.5	15	23	58	7.88	10	-1	0.8	10	0.92
NA15584	M	ORANGE-BROWN SOIL COLOUR. RK TYPE: AMP AND SCH (Q-M)	2	-0.2	1.72	2	-10	320	0.5	-2	0.45	-0.5	18	17	37	4.24	10	-1	0.23	30	0.8
NA15585	H	RK TYPE: AMP? APPROX LESS THAN 10% LOESS	1	-0.2	1.44	4	-10	180	0.9	-2	0.34	-0.5	13	14	46	5.34	10	-1	0.19	30	0.34
NA15586	M	ORANGE BROWN, APPROX. 20% LOESS.	5	-0.2	2.03	9	-10	480	0.7	-2	0.55	-0.5	13	24	60	4.75	10	-1	0.17	20	0.57
NA15587	H	SLOPE: MODERATE-STEEP	3	-0.2	2.55	-2	-10	170	0.5	-2	2.02	-0.5	28	14	35	6.5	10	-1	0.07	10	1.26
NA15588	M	APPROX. 20% LOESS	2	-0.2	2.79	5	-10	270	-0.5	-2	1.32	-0.5	15	16	49	4.54	10	-1	0.26	10	1.07
NA15589	M		4	-0.2	2.28	4	-10	270	-0.5	-2	1.26	-0.5	14	28	49	3.67	10	-1	0.21	10	1.02
NA15590	M	SOME LOESS, APPROX. 20%. BLOCKY	3	-0.2	2.45	5	-10	320	0.6	-2	0.82	-0.5	13	24	42	4.5	10	-1	0.31	10	0.95
NA15591	M	SOME LOESS? RK TYPE: QTZ-BIO SCHIST	1	-0.2	1.37	3	-10	460	-0.5	-2	0.35	-0.5	8	19	11	3.02	10	-1	0.13	10	0.4
NA15592	M	LOESS APPROX. 25%+	3	-0.2	1.6	3	-10	240	-0.5	-2	0.57	-0.5	8	22	19	2.98	-10	-1	0.07	10	0.58
NA15593	H	SOLIFLUCTED	2	-0.2	2.84	-2	-10	270	0.5	-2	1.61	-0.5	21	16	48	6	10	-1	0.23	10	1.12
NA15594	M	LOESS 20%? Rk type:QTZ-BIO SCHIST ENVIRONMENT: COLLUVIAL SOLIFLUCTED	7	-0.2	1.88	5	-10	210	-0.5	-2	0.72	-0.5	15	30	41	3.32	-10	-1	0.09	10	0.65
NA15595	H		2	-0.2	3.6	-2	-10	160	0.7	-2	1.66	-0.5	17	23	36	6.71	10	-1	0.24	10	1.17
NA15596	H		1	-0.2	2.28	-2	-10	100	-0.5	-2	1.27	-0.5	16	32	85	3.83	10	-1	0.07	10	0.86
NA15597	M	RK TYPE: QTZ-MUS SCHIST	3	-0.2	1.88	4	-10	220	0.6	-2	0.28	-0.5	12	28	53	3.16	10	-1	0.28	30	0.74
NA15598	H	RK TYPE: BIO-MUS-QTZ SCHIST	21	0.3	2.09	4	-10	220	0.9	-2	0.13	-0.5	19	23	166	3.07	10	-1	0.38	50	0.96
NA15599	H	RK TYPE: BIO-MUS-QTZ SCHIST	3	-0.2	1.96	-2	-10	480	0.7	-2	0.21	-0.5	15	34	76	4.5	10	-1	0.84	80	1.04
NA15600	H	RK TYPE: MUS SCHIST	13	0.9	1.72	-2	-10	100	-0.5	2	0.19	-0.5	5	26	111	6.24	10	-1	0.71	60	0.72
NA15601	H	WEAK ORANGE-LIMONITE TINGE TO COLOR. RK TYPE: MUS-QTZ SCHIST	10	0.3	2.51	3	-10	450	-0.5	-2	0.14	-0.5	3	14	140	6.13	10	-1	0.85	30	1.16
NA15602	M	SANDY, WEAK LIMONITE. RK TYPE: QTZ-MUS SCHIST	5	-0.2	3.4	-2	-10	450	0.8	-2	0.32	-0.5	14	46	124	5.14	10	-1	0.5	30	1.42
NA15603	H	RK TYPE: BIO-QTZ SCHIST. SPECKS LIMONITE IN SOIL	16	0.6	3.63	-2	-10	540	0.9	-2	0.66	-0.5	27	53	1105	8.24	10	-1	0.68	30	2.32
NA15604	M	RK TYPE: QTZ-MUS SCHIST	2	-0.2	2.55	11	-10	140	-0.5	-2	0.11	-0.5	10	21	191	4.87	10	-1	0.42	10	1
NA15605	M	SOME LOESS?	3	0.4	2.78	9	-10	160	-0.5	-2	0.19	-0.5	11	29	104	4.08	10	1	0.11	10	0.81
NA15606	M	SOME LOESS? RK TYPE: QTZ-BIO SCHIST	2	-0.2	3.03	12	-10	140	-0.5	-2	0.21	-0.5	13	26	32	4.23	10	-1	0.32	10	1.04
NA15607	M	SOME LOESS	1	-0.2	2.3	7	-10	140	0.5	-2	0.25	-0.5	12	23	64	4.14	10	-1	0.05	20	0.89
NA15608	H	RK TYPE: MUS-BIO-QTZ SCHIST	3	0.2	3.48	7	-10	90	-0.5	-2	0.22	-0.5	5	29	148	8.64	10	-1	1.84	40	1.44

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15568	527	1	0.01	20	570	6	0.01	-2	7	34	0.11	-10	-10	67	-10	150
NA15569	292	1	0.01	26	510	10	0.01	-2	5	22	0.12	-10	-10	55	-10	78
NA15570	702	1	0.02	18	1160	7	0.01	-2	8	30	0.12	-10	-10	73	-10	118
NA15571	1380	2	0.01	43	1990	28	0.01	-2	7	35	0.13	-10	-10	63	-10	189
NA15572	477	1	0.05	20	420	8	0.01	-2	8	29	0.16	-10	-10	94	-10	75
NA15573	362	-1	0.03	24	530	9	0.01	-2	6	40	0.13	-10	-10	60	-10	84
NA15574	279	3	0.02	12	780	5	0.01	-2	4	26	0.09	-10	-10	53	-10	75
NA15575	207	1	0.01	10	830	15	-0.01	-2	7	24	0.04	-10	-10	42	-10	116
NA15577	230	6	0.01	19	690	10	0.08	-2	6	29	0.08	-10	-10	49	-10	150
NA15578	431	3	0.06	19	4590	-2	0.01	-2	30	88	0.12	10	-10	222	-10	156
NA15579	325	1	0.26	7	2130	-2	2.67	-2	13	143	0.41	10	-10	162	-10	128
NA15581	617	12	0.01	3	610	144	0.04	2	10	44	0.05	-10	-10	58	-10	605
NA15582	1070	17	0.01	3	530	280	0.05	-2	5	35	0.03	-10	-10	33	-10	826
NA15583	1265	3	0.01	3	1840	6	0.01	-2	29	23	0.14	-10	-10	168	10	267
NA15584	891	1	0.02	20	860	2	0.01	-2	14	23	0.08	-10	-10	48	-10	119
NA15585	421	3	0.01	20	820	10	0.01	2	15	17	0.06	-10	-10	54	-10	156
NA15586	1445	2	0.02	21	760	13	0.01	-2	11	33	0.1	-10	-10	83	-10	118
NA15587	838	-1	0.15	12	2220	-2	-0.01	-2	16	67	0.21	-10	-10	154	10	142
NA15588	579	-1	0.06	11	1500	4	0.01	-2	11	61	0.2	-10	-10	122	10	114
NA15589	557	-1	0.06	16	1500	-2	-0.01	-2	8	64	0.22	-10	-10	95	10	98
NA15590	636	-1	0.05	18	830	6	0.01	-2	9	43	0.24	-10	-10	108	-10	116
NA15591	1805	-1	0.01	13	610	4	0.01	-2	7	25	0.12	-10	-10	47	-10	94
NA15592	400	-1	0.03	12	680	3	0.01	-2	5	29	0.12	-10	-10	68	-10	60
NA15593	820	-1	0.07	9	2620	-2	0.01	-2	9	69	0.26	-10	-10	122	10	122
NA15594	627	-1	0.03	21	860	7	0.01	-2	7	41	0.13	-10	-10	79	-10	75
NA15595	770	-1	0.08	14	2620	3	-0.01	-2	13	59	0.18	-10	-10	116	10	106
NA15596	461	-1	0.08	17	1710	2	-0.01	-2	10	38	0.16	-10	-10	103	-10	54
NA15597	331	-1	0.01	29	640	3	0.01	-2	4	19	0.14	-10	-10	45	-10	44
NA15598	539	-1	0.01	32	290	8	0.01	2	4	11	0.1	-10	-10	53	-10	45
NA15599	514	3	0.01	34	760	4	0.01	2	5	20	0.22	-10	-10	44	-10	123
NA15600	299	3	0.06	10	810	27	1.06	-2	6	63	0.07	-10	-10	59	-10	81
NA15601	483	2	0.03	6	1050	11	0.66	2	9	47	0.2	-10	-10	87	-10	75
NA15602	423	-1	0.01	25	970	3	0.02	-2	9	26	0.1	-10	-10	78	10	94
NA15603	1400	6	0.01	23	1090	3	0.01	-2	23	30	0.1	-10	-10	198	10	126
NA15604	535	24	0.01	15	460	5	0.01	-2	6	11	0.12	-10	-10	80	-10	79
NA15605	347	1	0.01	20	300	4	0.01	-2	5	19	0.13	-10	-10	86	-10	59
NA15606	484	-1	0.01	15	330	9	0.01	-2	3	26	0.18	-10	-10	96	-10	159
NA15607	498	1	0.01	15	330	7	0.01	-2	5	22	0.06	-10	-10	82	-10	96
NA15608	482	53	0.06	8	740	-2	1.4	-2	11	69	0.17	-10	-10	114	-10	64

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15609	572512	7055176	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA15610	572586	7055246	NAD83, Z 7	HULSTEIN	20030810	BN	QD	0.45	M		B	M	M	M	COL	P	SCH
NA15611	572656	7055315	NAD83, Z 7	HULSTEIN	20030810	BN	QD	0.3	M	5	B	M	H	S	COL	P	SCH
NA15612	572712	7055382	NAD83, Z 7	HULSTEIN	20030810	BN	QD	0.4	M	10	B	M	H	S	COL	P	SCH
NA15614	572789	7055459	NAD83, Z 7	HULSTEIN	20030810	BN	QD	0.3	M		C	L	L	S	COL	N	SCH
NA15615	572590	7055537	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA15616	572513	7055459	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.75	M		B	L	L	M	COL	N	SCH
NA15617	572438	7055393	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.75	M		B	L	L	M	COL	N	SCH
NA15618	572359	7055322	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.6	M		B	L	L	M	COL	N	SCH
NA15619	572308	7055252	NAD83, Z 7	HULSTEIN	20030810	BN	QD	0.8	M		B	L	M	M	COL	N	SCH
NA15620	572230	7055181	NAD83, Z 7	HULSTEIN	20030810	BN	QE	0.8	M		B	L	L	M	BDR	N	SCH
NA15621	571306	7054541	NAD83, Z 7	HULSTEIN	20030811	TA	QE	0.5	M		B	M	M	G	COL	N	SCH
NA15622	571454	7054404	NAD83, Z 7	HULSTEIN	20030811	TA	QE	0.6	M		B	M	L	G	BDR	N	SCH
NA15624	571522	7054470	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.3	M		B	L	L	G	BDR	N	SCH
NA15625	571593	7054542	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.45	M		B	M	M	G	BDR	N	SCH
NA15626	571666	7054611	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.5	M		B	L	L	G	COL	N	SCH
NA15627	571810	7054764	NAD83, Z 7	HULSTEIN	20030811	BN	QD	0.4	M	10	B	M	H	M	COL	P	SCH
NA15628	571880	7054810	NAD83, Z 7	HULSTEIN	20030811	BN	QD	0.7	M		B	L	M	M	COL	N	SCH
NA15629	571949	7054897	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.4	M		B	M	L	M	COL	N	SCH
NA15630	572027	7054965	NAD83, Z 7	HULSTEIN	20030811	BN	QD	0.6	M		B	L	M	G	COL	P	SCH
NA15631	572089	7055035	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.7	M		B	M	L	M	COL	N	SCH
NA15632	572161	7055106	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.5	M		B	L	M	G	COL	N	SCH
NA15633	572232	7055458	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA15634	572163	7055393	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA15635	572093	7055320	NAD83, Z 7	HULSTEIN	20030811	BN	QD	0.5	M		B	M	M	G	BDR	N	SCH
NA15636	572018	7055246	NAD83, Z 7	HULSTEIN	20030811	BN	QD	0.8	M		B	M	M	G	COL	N	SCH
NA15637	571812	7055028	NAD83, Z 7	HULSTEIN	20030811	BN	QD	0.3	M	10	B	M	H	M	COL	P	SCH
NA15638	571748	7054978	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.8	M		B	L	M	S	COL	N	SCH
NA15640	571643	7054867	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.4	M	10	B	M	H	S	COL	P	SCH
NA15641	571596	7054821	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.6	M	5	B	L	H	S	COL	P	SCH
NA15642	571456	7054679	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.5	M		B	M	M	G	Col	N	SCH
NA15643	571382	7054616	NAD83, Z 7	HULSTEIN	20030811	BN	QE	0.4	M		B	M	H	G	COL	P	SCH
NA15645	571385	7054891	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M	5	B	M	H	M	COL	P	SCH
NA15646	571463	7054959	NAD83, Z 7	HULSTEIN	20030812	BN	QD	0.4	M	5	B	M	H	M	COL	P	SCH
NA15647	571525	7055030	NAD83, Z 7	HULSTEIN	20030812	BN	QD	0.4	M	10	B	M	H	S	COL	P	SCH
NA15648	571603	7055104	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M		B	L	M	M	COL	N	SCH
NA15649	571665	7055178	NAD83, Z 7	HULSTEIN	20030812	TA	QE	0.85	M		B	M	L	S	COL	N	SCH
NA15709	573857	7052842	NAD83, Z 7	FRANKLIN	20030806	TA	QE	0.5	M	5	C	L	L	G	BDR	N	SCH
NA15710	574144	7053126	NAD83, Z 7	FRANKLIN	20030806	BN	QD	0.5	M	5	C	L	H	G	COL	P	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15609	M	RK TYPE: BIO-QTZ SCHIST	4	-0.2	3.15	4	-10	380	-0.5	-2	0.51	-0.5	18	36	44	4.89	10	1	0.96	10	1.58
~~NA15610~~	M	RK TYPE: BIO-QTZ SCHIST. SOLIFLUCTED	3	0.2	2.64	5	-10	280	-0.5	-2	0.4	-0.5	16	28	41	4.11	-10	-1	0.82	10	1.48
NA15611	L	RK TYPE: BIO-QTZ SCHIST. SOLIFLUCTED. APPROX 30% LOESS	8	0.2	1.72	7	-10	220	-0.5	-2	0.28	-0.5	8	25	17	2.55	-10	-1	0.32	10	0.82
NA15612	L	RK TYPE: BIO SCHIST. SOLIFLUCTED. APPROX. 30% LOESS	12	0.2	1.6	5	-10	180	-0.5	-2	0.27	-0.5	8	22	15	2.43	-10	-1	0.27	10	0.74
NA15614	H	RK TYPE: BIO SCHIST	2	0.2	3.48	4	-10	590	-0.5	-2	0.88	-0.5	16	33	66	4.27	10	-1	1.23	10	1.74
NA15615	M	SANDY SL, WEAK LIMONITE COLOR	3	-0.2	2.87	9	-10	180	0.5	-2	0.76	-0.5	16	32	57	4.05	-10	-1	0.26	20	1.48
NA15616	M	RK TYPE: BIO-QTZ SCHIST	4	-0.2	3.04	11	-10	230	-0.5	-2	0.55	-0.5	15	30	36	4.22	10	1	0.58	10	1.46
NA15617	M	RK TYPE: QTZ-BIO SCHIST	5	0.3	5.28	5	-10	700	0.5	-2	1.4	-0.5	25	44	197	7.1	10	2	0.97	20	1.88
NA15618	M	RK TYPE: QTZ-BIO SCHIST AND POSSIBLE CALC SILICATE	3	-0.2	3.84	5	-10	470	-0.5	-2	1.2	-0.5	21	32	101	5.34	10	1	1.08	10	1.59
NA15619	H	RK TYPE: BIO SCHIST, ENVIRONMENT COL-RDG. HEMATITE-Fe COLOR SOIL	2	-0.2	2.68	8	-10	220	-0.5	-2	0.63	-0.5	20	29	117	4.77	10	-1	0.81	20	1.43
NA15620	M	BIO-QTZ SCHIST	1	-0.2	2.73	3	-10	250	-0.5	-2	0.6	-0.5	11	19	22	4.46	10	-1	0.82	20	1.5
NA15621	M	~20% LOS QTZ-BIO SCH COL : SOLIFLUCTED	8	0.3	1.69	7	-10	1130	-0.5	-2	0.39	-0.5	6	29	35	2.88	10	-1	0.2	30	0.67
NA15622	M	QTZ-MUSC SCH DUP OF NA15623	11	-0.2	2.21	5	-10	1220	0.6	-2	0.14	-0.5	10	20	86	4.64	10	-1	0.58	50	1.14
NA15624	M	QTZ-QZT,SCH	3	-0.2	1.37	7	-10	320	-0.5	-2	0.15	-0.5	9	23	24	2.42	10	-1	0.08	40	0.4
NA15625	M	QTZ-BIO SCH	2	-0.2	2.02	6	-10	500	0.5	-2	0.31	-0.5	12	51	32	4	10	-1	0.71	90	0.94
NA15626	M	QTZ-FELD-BIO SCH	3	-0.2	1.59	4	-10	170	-0.5	-2	0.15	-0.5	9	24	30	3.11	10	-1	0.26	30	0.63
NA15627	L	COL;SOLIFLUCTED CRAPPY SAMP	7	0.3	1.74	6	-10	180	-0.5	-2	0.22	-0.5	8	26	53	2.94	10	-1	0.28	10	0.82
NA15628	H	BIO SCH V. BIO RICH,LIM SPECKS & HEMATITE STAINED COL;SOILFLUCTED	10	0.5	2.69	12	-10	220	-0.5	-2	0.21	-0.5	15	31	1005	8.29	10	-1	0.6	30	1.22
NA15629	M	SOME LOSS GRAVEL	3	-0.2	1.86	10	-10	130	-0.5	-2	0.18	-0.5	9	25	51	3	10	-1	0.05	10	0.54
NA15630	H	QTZ SCH SANDY SL	2	-0.2	2.73	7	-10	220	0.5	-2	0.56	-0.5	21	17	193	6.11	10	-1	0.34	10	1.4
NA15631	M	QTZ-BIO SCH	3	0.2	2.74	9	-10	180	0.5	-2	0.47	-0.5	14	21	122	5.2	10	-1	0.49	20	1
NA15632	M	SANDY SL	3	0.2	2.12	8	-10	190	-0.5	-2	0.33	-0.5	12	26	53	3.46	10	1	0.33	20	0.89
NA15633	M	BIO-QTZ SCH	2	-0.2	2.12	8	-10	290	-0.5	-2	0.37	-0.5	15	31	36	4.19	10	1	0.48	20	1.26
NA15634	M	SANDY SL QTZ-BIO SCH	5	-0.2	2.63	5	-10	490	-0.5	-2	0.44	-0.5	34	31	115	5.25	10	-1	1.19	10	1.46
NA15635	M	SANDY SL QTZ-BIO RICH SCH	1	-0.2	3.44	2	-10	560	-0.5	-2	0.39	-0.5	25	33	172	4.83	10	1	1.12	10	1.9
NA15636	H	BIO RICH SCH FE (RUST)COLOR	6	-0.2	2.91	7	-10	300	0.5	-2	0.55	-0.5	13	20	100	4.87	10	-1	0.81	20	1.37
NA15637	L	~30% LOS QTZ-BIO SCH	3	-0.2	1.79	5	-10	130	-0.5	-2	0.3	-0.5	6	21	88	2.76	10	-1	0.23	20	0.72
NA15638	M	BIO-QTZ SCH STEEP BANK NEXT TO CREEK	4	0.4	3.84	4	-10	520	0.5	-2	0.63	-0.5	29	47	561	6.79	10	1	1.26	20	2.46
NA15640	L	~25%LOS	3	-0.2	1.86	7	-10	270	-0.5	-2	0.28	-0.5	8	27	29	3.33	-10	-1	0.33	20	0.93
NA15641	M	PINK QTZ-FELD SCH	6	-0.2	1.34	9	-10	230	-0.5	-2	0.15	-0.5	6	18	38	3.08	-10	1	0.26	30	0.53
NA15642	M	QTZ-FELD-BIO +- MUSC SCH +- PYY	3	-0.2	1.64	7	-10	360	-0.5	-2	0.28	-0.5	7	31	27	2.77	10	1	0.11	30	0.59
NA15643	L	QTZ-FELD-BIO-MUSC SCH LIM STAINED COL-BOULDERS IN AREA	26	-0.2	1.75	7	-10	830	-0.5	-2	0.38	-0.5	8	27	29	2.94	10	1	0.18	40	0.68
NA15645	L	BIO-SCH RICH COL-SOLIFLUCTED	11	-0.2	1.86	9	-10	350	-0.5	-2	0.31	0.5	10	27	54	3.27	10	-1	0.37	20	0.86
NA15646	M	BIO-QTZ SCH COL-SOLIFLUCTION	3	-0.2	2.65	2	-10	450	-0.5	-2	0.35	-0.5	24	34	106	4.29	10	-1	0.78	10	1.34
NA15647	L	BIO-QTZ SCH COL-SOLIFLUCTION	11	-0.2	1.78	-2	-10	290	-0.5	-2	0.25	-0.5	8	24	37	2.86	10	-1	0.31	10	0.87
NA15648	M	QTZ-MUSC-BIO SCH LIMONITE COLORED SL	3	-0.2	3.31	6	-10	240	0.5	3	0.45	-0.5	9	14	139	6.4	10	-1	1.08	40	1
NA15649	M	QTZ-FEL-BIO SCH (FLOAT IN AREA) SANDY SL, WEAK LIMONITE COLOR	3	-0.2	2.46	5	-10	210	0.5	-2	0.48	-0.5	16	17	54	4.64	10	1	0.59	20	1.03
NA15709	H	BIO SCHIST	5	0.6	2.7	9	-10	370	0.8	-2	0.6	-0.5	12	37	324	6.33	10	-1	1.49	270	1.08
NA15710	L	BARELY ABLE TO GET SAMPLE. FROZEN AND ROCKY-POOR QUALITY	4	-0.2	2.09	8	-10	180	-0.5	-2	0.28	-0.5	13	24	22	3.68	10	-1	0.59	20	0.98

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15609	875	2	0.01	12	980	3	0.02	-2	7	29	0.17	-10	-10	122	-10	78
~~NA15610~~	647	-1	0.01	12	710	2	0.01	-2	3	27	0.2	-10	-10	100	-10	90
NA15611	299	-1	0.01	13	500	4	0.01	-2	3	21	0.13	-10	-10	61	-10	68
NA15612	347	-1	0.01	13	510	4	0.02	-2	3	20	0.11	-10	-10	58	-10	64
NA15614	1080	-1	0.02	19	780	7	0.01	-2	4	50	0.22	-10	-10	118	-10	90
NA15615	622	1	0.02	19	480	6	-0.01	-2	5	38	0.21	-10	-10	94	-10	82
NA15616	810	-1	0.02	15	390	14	0.01	-2	4	34	0.21	-10	-10	98	-10	181
NA15617	919	1	0.03	18	840	31	0.02	-2	18	113	0.22	-10	-10	173	-10	146
NA15618	995	7	0.02	13	1120	6	0.01	-2	5	46	0.21	-10	-10	126	-10	139
NA15619	870	2	0.01	11	1490	6	0.01	-2	10	21	0.16	-10	-10	136	-10	69
NA15620	1040	-1	0.01	12	1190	6	0.01	-2	10	35	0.17	-10	-10	97	-10	96
NA15621	414	2	0.01	18	440	12	0.03	-2	6	24	0.12	-10	-10	58	-10	97
NA15622	502	3	0.01	17	480	17	0.13	-2	11	37	0.14	-10	-10	74	-10	160
NA15624	517	1	0.01	16	440	12	0.01	-2	2	15	0.09	-10	-10	51	-10	63
NA15625	451	-1	0.01	34	960	4	0.01	-2	7	19	0.19	-10	-10	61	-10	75
NA15626	549	1	0.01	14	510	8	0.01	-2	5	12	0.12	-10	-10	62	-10	77
NA15627	369	1	0.01	14	480	8	0.03	-2	4	16	0.11	-10	-10	69	-10	60
NA15628	841	4	0.02	10	810	6	0.39	2	10	39	0.1	-10	-10	138	-10	78
NA15629	363	-1	0.01	14	360	9	0.01	-2	4	15	0.08	-10	-10	68	-10	50
NA15630	869	21	0.01	11	1000	2	0.01	-2	5	38	0.12	-10	-10	106	-10	92
NA15631	570	4	0.01	15	690	45	0.02	-2	6	33	0.17	-10	-10	87	-10	188
NA15632	450	2	0.01	19	460	2	0.01	-2	5	25	0.15	-10	-10	74	-10	63
NA15633	505	2	0.02	15	590	7	0.25	-2	5	48	0.1	-10	-10	84	-10	61
NA15634	1005	7	0.01	14	920	3	0.03	-2	10	25	0.15	-10	-10	132	-10	65
NA15635	962	3	0.02	16	560	10	0.01	-2	5	30	0.25	-10	-10	132	-10	139
NA15636	890	2	0.01	12	820	8	0.01	-2	9	34	0.15	-10	-10	100	-10	198
NA15637	319	2	0.01	13	470	6	0.02	-2	4	20	0.11	-10	-10	57	-10	58
NA15638	912	2	0.02	17	860	-2	0.35	-2	8	57	0.29	-10	-10	171	-10	117
NA15640	317	1	0.02	14	640	7	0.19	-2	5	30	0.15	-10	-10	68	-10	58
NA15641	271	2	0.04	12	570	6	0.34	2	4	26	0.1	-10	-10	50	-10	47
NA15642	277	1	0.01	21	490	6	0.01	-2	5	20	0.13	-10	-10	54	-10	60
NA15643	374	2	0.01	18	480	7	0.03	2	6	24	0.14	-10	-10	56	-10	70
NA15645	294	2	0.02	17	670	8	0.08	2	5	28	0.15	-10	-10	71	-10	67
NA15646	1100	2	0.02	16	590	4	0.11	-2	8	30	0.22	-10	-10	131	-10	69
NA15647	322	1	0.02	11	560	10	0.11	-2	4	26	0.14	-10	-10	73	-10	67
NA15648	548	2	0.07	8	870	5	0.92	-2	12	116	0.26	-10	10	104	-10	74
NA15649	790	2	0.02	12	640	5	0.01	-2	8	32	0.15	-10	-10	84	-10	58
NA15709	532	3	0.02	33	3370	26	0.68	-2	4	54	0.26	-10	-10	44	-10	122
NA15710	830	1	0.01	14	620	6	0.01	-2	8	20	0.16	-10	-10	88	-10	90

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15711	574341	7053341	NAD83, Z 7	FRANKLIN	20030806	TA	QL	0.15	M	5	C	L	L	G	COL	N	GNE
NA15712	574427	7053404	NAD83, Z 7	FRANKLIN	20030806	GY	QE	0.5	M	2	C	L	H	G	BDR	P	SCH
NA15713	574349	7053621	NAD83, Z 7	FRANKLIN	20030806	BN	QE	0.55	M	3	C	L	M	G	COL	N	GNE
NA15714	574068	7053336	NAD83, Z 7	FRANKLIN	20030806	TA	QE	0.35	M	2	C	L	M	G	BDR	N	SCH
NA15715	574004	7053552	NAD83, Z 7	FRANKLIN	20030806	BF	QD	0.6	M	2	C	L	M	F	BDR	N	GNE
NA15717	574077	7053624	NAD83, Z 7	FRANKLIN	20030806	BN	QD	0.35	M	2	C	L	M	F	BDR	N	GNE
NA15718	574210	7053763	NAD83, Z 7	FRANKLIN	20030806	BN	QE	0.25	M	1	C	L	M	G	BDR	N	GNE
NA15719	574065	7053913	NAD83, Z 7	FRANKLIN	20030806	TA	QL	0.35	M	1	C	L	L	G	BDR	N	GNE
NA15720	573990	7053834	NAD83, Z 7	FRANKLIN	20030806	BF	QD	0.25	M	3	C	L	L	G	BDR	N	GNE
NA15721	573936	7053764	NAD83, Z 7	FRANKLIN	20030806	BF	QE	0.2	M	3	C	L	L	G	BDR	N	GNE
NA15722	573793	7053622	NAD83, Z 7	FRANKLIN	20030806	BN	QL	0.35	M	3	C	L	H	G	COL	N	GNE
NA15723	573361	7052630	NAD83, Z 7	FRANKLIN	20030807	BN	QL	0.4	M	2	C	L	M	G	BDR	N	SCH
NA15725	573930	7053199	NAD83, Z 7	FRANKLIN	20030807	GY	QD	0.25	M	3	C	L	H	G	BDR	N	SCH
NA15726	572936	7054185	NAD83, Z 7	FRANKLIN	20030813	BF	QE	0.7	M	15	C	L	M	G	BDR	P	
NA15727	573004	7054262	NAD83, Z 7	FRANKLIN	20030813	TA	BF	1.26	M	5	BC	L	H	G	BDR	P	GNE
NA15728	573076	7054329	NAD83, Z 7	FRANKLIN	20030813	TA	BF	1.15	M	8	BC	L	L	S	BDR	N	GNE
NA15729	572158	7053694	NAD83, Z 7	FRANKLIN	20030814	BF	BN	1.46	M	1	C	L	L	G	BDR	N	SCH
NA15730	572230	7053764	NAD83, Z 7	FRANKLIN	20030814	BN	QE	1.16	M	1	C	L	M	G	BDR	N	SCH
NA15731	572303	7053843	NAD83, Z 7	FRANKLIN	20030814	TA	BN	1	M	1	C	L	H	M	BDR	N	SCH
NA15732	572363	7053899	NAD83, Z 7	FRANKLIN	20030814	TA	BN	1	M	2	C	L	L	M	BDR	N	GNE
NA15733	572533	7054066	NAD83, Z 7	FRANKLIN	20030814	BF	QE	1.21	M	1	C	L	L	G	BDR	N	GNE
NA15735	572582	7054118	NAD83, Z 7	FRANKLIN	20030814	BN	QE	1.31	M	1	C	L	M	G	BDR	N	SCH
NA15736	572656	7054181	NAD83, Z 7	FRANKLIN	20030814	BF	OR	1.31	M	1	C	L	M	G	BDR	N	GNE
NA15737	572719	7054253	NAD83, Z 7	FRANKLIN	20030814	BF	TA	1	M	10	C	M	H	G	COL	P	GNE
NA15738	571738	7054117	NAD83, Z 7	FRANKLIN	20030814	BF	QE	0.95	M	1	C	L	M	G	BDR	N	SCH
NA15739	571803	7054180	NAD83, Z 7	FRANKLIN	20030814	TA	QL	0.75	M	1	C	L	L	F	BDR	N	SCH
NA15740	571951	7054330	NAD83, Z 7	FRANKLIN	20030814	BF	BN	1.46	M	1	C	L	M	G	BDR	N	SCH
NA15741	572091	7054469	NAD83, Z 7	FRANKLIN	20030814	BF	QB	1.36	M	1	C	L	M	M	BDR	N	SCH
NA15742	572159	7054547	NAD83, Z 7	FRANKLIN	20030814	BF	TA	1.21	M	3	C	M	H	M	COL	P	SCH
NA15743	572238	7054627	NAD83, Z 7	FRANKLIN	20030814	BF	QD	1.3	M	3	C	L	M	G	BDR	N	SCH
NA15744	572301	7054686	NAD83, Z 7	FRANKLIN	20030814	BF	QE	1.46	M	1	C	L	L	M	BDR	N	SCH
NA15745	572370	7054749	NAD83, Z 7	FRANKLIN	20030815	BN	BF	1.11	M	2	C	L	L	G	BDR	N	GNE
NA15746	572442	7054822	NAD83, Z 7	FRANKLIN	20030815	BF	QE	1.46	M	1	C	L	L	M	BDR	N	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15711	H		4	-0.2	2.79	7	-10	160	-0.5	-2	0.35	-0.5	14	15	69	4.11	10	-1	0.95	20	1.14
NA15712	M	BARELY ABLE TO GET SAMPLE, THAWED TO .85M, MICACEOUS SOIL	4	-0.2	2.31	4	-10	240	-0.5	-2	0.39	-0.5	11	19	86	3.89	10	-1	0.63	20	0.94
NA15713	M		3	-0.2	2.88	7	-10	140	0.5	-2	0.46	-0.5	17	18	116	4.32	10	-1	0.56	10	1.22
NA15714	H	BIO-QTZ-FEL SCHIST	3	-0.2	2.5	4	-10	210	-0.5	-2	0.25	-0.5	14	26	66	4.02	10	-1	0.44	20	0.92
NA15715	H	DUPE OF NA15716	9	-0.2	2.36	-2	-10	220	-0.5	-2	0.5	-0.5	21	13	458	4.17	10	-1	0.53	20	1.18
NA15717	H		5	-0.2	2.57	9	-10	280	-0.5	-2	0.31	-0.5	14	22	88	3.8	10	-1	0.63	10	1.1
NA15718	H		3	-0.2	3.44	5	-10	140	0.5	2	0.48	-0.5	22	15	111	5.38	10	-1	1.27	10	1.52
NA15719	H	BIO-QTZ-FEL GNE	10	-0.2	3.1	-2	-10	170	0.5	2	0.53	-0.5	10	17	28	3.68	10	-1	0.64	10	0.95
NA15720	H	V. DRY SANDY SOIL. BIO-QTZ-FEL GNE	3	0.2	2.89	9	-10	190	-0.5	-2	0.31	-0.5	12	22	37	3.87	10	-1	0.52	10	0.93
NA15721	H	BIO-QTZ-FEL GNE	1	-0.2	2.8	9	-10	120	-0.5	-2	0.34	-0.5	14	15	59	4.59	10	-1	0.89	10	1.31
NA15722	M	SOME LOESS CONTAMINATION	10	0.4	2.11	7	-10	120	-0.5	-2	0.31	-0.5	15	17	469	4.06	10	-1	0.38	30	0.96
NA15723	H	BIO-QTZ-FEL SCHIST, CHLORITIC, POSSIBLE GAR, SOME WHT MICA	4	0.3	2.05	4	-10	1040	0.5	-2	0.32	-0.5	11	12	38	4.11	10	-1	0.35	20	0.79
NA15725	H	BIO SCHIST	1	-0.2	2.49	4	-10	250	-0.5	-2	0.45	-0.5	15	25	40	4.7	10	-1	0.99	20	1.36
NA15726	M	POWER AUGER TO .7M-FROZEN, CONTAMINATION BY SURFACE ORGANICS	9	0.4	3.1	-2	-10	100	-0.5	-2	0.28	-0.5	9	31	583	6.06	10	-1	0.67	30	1.12
NA15727	H	AUGER TO 1.26M-FROZEN. ORTHOGNEISS	7	0.3	3.92	-2	-10	90	-0.5	-2	0.39	-0.5	5	34	346	6.92	10	1	1.6	30	1.27
NA15728	H	HIT ROCK WITH AUGER AT 1.15M. ORTHOGNEISS	13	-0.2	2.23	3	-10	320	-0.5	-2	0.26	-0.5	9	43	251	3.85	10	-1	0.26	20	0.72
NA15729	H	P. AUGER TO 1.46M. BIO SCHIST, CRENULATED.	5	0.5	2.33	-2	-10	230	1.2	-2	0.31	4.2	8	47	148	5.77	10	1	0.83	110	0.79
NA15730	H	P. AUGER TO 1.16M-HIT ROCK. BIO-QTZ-FEL SCHIST. LOC. LIM AFTER PYY. V. ROCKY SOIL.	22	0.6	1.9	2	-10	470	0.6	-2	0.19	0.6	16	44	105	5.21	10	-1	0.67	50	0.96
NA15731	H	P. AUGER TO 1M. HIT ROCK. MUS-BIO-QTZ-FEL SCHIST	14	0.5	2.63	-2	-10	130	-0.5	-2	0.17	-0.5	8	17	128	6.26	10	-1	0.97	50	1.05
NA15732	H	P. AUGER TO 1M. HIT ROCK. BIO-QTZ-FEL GNEISS, ORTHOGNEISS	8	0.4	1.11	4	-10	160	-0.5	-2	0.1	-0.5	4	55	40	4.65	-10	-1	0.42	30	0.35
NA15733	H	P. AUGER TO 1.21M. HIT BDRK, HAD TO OFFSET SAMPLE SITE DUE TO PERMAFROST. ORTHOGNEISS? DUPE OF 15734	8	-0.2	3.21	-2	-10	250	0.6	-2	0.63	-0.5	14	42	161	4.53	10	-1	0.4	20	1.17
NA15735	H	P. AUGER TO 1.31M. BIO-QTZ-FEL SCHIST	6	-0.2	2.55	-2	-10	490	0.5	-2	0.47	-0.5	22	41	286	4.48	10	-1	0.81	20	1.27
NA15736	H	P. AUGER TO 1.31M, HIT ROCK. BIO-QTZ-FEL GNEISS, ORTHOGNEISS.	10	0.3	3.51	2	-10	230	-0.5	-2	0.41	-0.5	8	41	908	5.76	10	-1	0.81	20	1.34
NA15737	M	P. AUGER TO 1M-HIT ROCK, FROZEN ALL AROUND, V. ROCKY SOIL. ORTHOGNEISS	8	0.2	1.96	4	-10	240	-0.5	-2	0.22	-0.5	16	31	232	3.17	10	-1	0.14	20	0.61
NA15738	H	P. AUGER TO .95M, HIT BDRK. MUS-BIO-QTZ-FEL SCHIST. V. MICACEOUS SOIL	6	-0.2	2.3	4	-10	320	0.9	-2	0.27	-0.5	23	44	62	4.38	10	-1	0.57	40	1.04
NA15739	H	P. AUGER TO .75M, HIT BDRK, OUTCROP 8M AWAY. BIO SCHIST	4	-0.2	2.07	-2	-10	170	1	-2	0.2	-0.5	24	49	101	3.59	10	-1	0.57	30	0.87
NA15740	H	P. AUGER TO 1.46M.	9	0.3	1.81	-2	-10	590	-0.5	-2	0.26	-0.5	5	27	179	4.73	10	-1	0.7	40	0.98
NA15741	H	P. AUGER TO 1.36M, HIT ROCK. MUS-QTZ SCHIST, V. MICACEOUS SOIL.	12	0.9	0.74	-2	-10	60	-0.5	-2	0.06	-0.5	2	28	105	6.98	-10	-1	0.83	80	0.18
NA15742	M	P. AUGER TO 1.21M-FROZEN. MUS-BIO-QTZ-FEL SCHIST. V. ROCKY SOIL, MICACEOUS	20	1	0.87	3	-10	270	-0.5	-2	0.09	-0.5	3	23	93	4.88	-10	-1	0.51	60	0.27
NA15743	H	P. AUGER TO 1.3M. GOT BOGGED DOWN DUE TO WET SOIL. V. FEW ROCK CHIPS, PROBABLY BIO SCHIST. MICACEOUS	4	-0.2	2.73	-2	-10	520	-0.5	-2	0.33	-0.5	9	40	51	4.43	10	-1	0.77	10	1.41
NA15744	H	P. AUGER TO 1.46M. V. FEW ROCK CHIPS, PROBABLY BIO SCHIST. V. SANDY SOIL	7	0.2	2.66	3	-10	460	-0.5	-2	0.39	-0.5	24	53	209	4.84	10	-1	0.94	20	1.48
NA15745	H	P.AUGER-HIUT RX ORTHOGNEISS?	2	0.3	2.5	4	-10	100	0.5	-2	0.36	-0.5	13	28	110	4.56	10	1	0.3	10	1.11
NA15746	H	P.AUGER, ORTHOGNEISS, EPIDOTE ALTERATION, PINK KSPRS	6	-0.2	1.97	5	-10	110	-0.5	-2	0.45	-0.5	11	32	51	3.28	10	-1	0.16	10	0.8

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15711	617	1	0.01	9	690	2	0.01	-2	6	29	0.18	-10	-10	95	-10	74
NA15712	432	1	0.01	13	600	5	0.01	2	6	31	0.19	-10	-10	81	-10	68
NA15713	705	1	0.01	14	740	3	-0.01	-2	4	30	0.13	-10	-10	85	-10	64
NA15714	631	1	0.01	21	370	4	0.01	-2	5	24	0.15	-10	-10	73	-10	65
NA15715	578	8	0.01	9	520	-2	0.01	-2	6	32	0.13	-10	-10	89	-10	66
NA15717	599	1	0.01	19	390	2	0.01	-2	5	33	0.21	-10	-10	89	-10	75
NA15718	1195	2	0.01	8	1440	3	0.01	-2	8	22	0.21	-10	-10	110	-10	80
NA15719	444	-1	0.01	10	380	3	0.01	-2	2	31	0.15	-10	-10	75	-10	47
NA15720	482	-1	0.01	12	210	3	0.01	-2	3	28	0.19	-10	-10	91	-10	65
NA15721	604	-1	0.01	9	370	2	0.01	-2	3	40	0.24	-10	-10	102	-10	52
NA15722	636	16	0.01	10	580	2	0.01	-2	7	19	0.13	-10	-10	86	-10	61
NA15723	685	3	0.01	13	630	11	0.07	-2	4	26	0.05	-10	-10	35	-10	109
NA15725	936	-1	0.01	16	1070	3	0.01	-2	12	21	0.22	-10	-10	113	-10	81
NA15726	362	14	0.21	6	850	20	1.64	-2	16	314	0.09	-10	-10	148	10	92
NA15727	332	8	0.22	6	640	40	2.49	-2	16	136	0.17	-10	-10	129	-10	170
NA15728	244	5	0.05	12	350	12	0.5	-2	8	73	0.12	-10	-10	87	-10	73
NA15729	395	5	0.01	28	1160	76	0.32	-2	5	55	0.2	-10	-10	35	-10	419
NA15730	780	10	0.04	27	830	32	0.53	2	7	31	0.14	-10	-10	67	-10	253
NA15731	342	3	0.09	7	970	23	1.28	-2	11	151	0.13	-10	-10	104	-10	90
NA15732	137	5	0.17	10	590	26	1.18	-2	2	51	0.08	-10	-10	36	-10	61
NA15733	292	2	0.04	10	500	7	0.42	-2	9	108	0.19	-10	-10	110	-10	66
NA15735	400	10	0.02	12	750	5	0.44	-2	6	72	0.2	-10	-10	104	-10	73
NA15736	278	5	0.1	9	540	7	1.18	4	10	214	0.15	-10	-10	112	-10	86
NA15737	319	8	0.02	16	320	9	0.12	-2	5	35	0.1	-10	-10	64	-10	65
NA15738	370	4	0.01	48	850	8	0.04	-2	5	20	0.15	-10	-10	41	-10	112
NA15739	355	3	0.01	46	630	6	-0.01	2	5	13	0.15	-10	-10	42	-10	47
NA15740	224	3	0.03	7	590	8	0.61	2	6	38	0.09	-10	-10	65	-10	45
NA15741	60	18	0.26	4	970	14	2.35	3	2	103	0.06	-10	-10	21	-10	13
NA15742	99	18	0.08	6	630	11	1.11	2	2	55	0.05	-10	-10	31	-10	23
NA15743	434	4	0.02	8	600	6	0.17	-2	10	30	0.17	-10	-10	132	-10	106
NA15744	1025	9	0.02	13	550	4	0.02	-2	10	26	0.2	-10	-10	126	-10	76
NA15745	611	4	0.01	11	420	7	0.01	2	8	16	0.07	-10	-10	89	-10	72
NA15746	415	3	0.01	15	610	7	0.01	-2	5	30	0.11	-10	-10	72	-10	62

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15747	572513	7054884	NAD83, Z 7	FRANKLIN	20030815	BN	QE	0.7	M	1	C	L	L	M	BDR	N	GNE
NA15748	572581	7054948	NAD83, Z 7	FRANKLIN	20030815	BN	QD	1.46	M	1	C	L	L	M	BDR	N	GNE
NA15749	572653	7055052	NAD83, Z 7	FRANKLIN	20030815	BN	QD	1.26	M	2	C	L	L	G	COL	N	GNE
NA15750	571738	7055248	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.7	M		B	M	L	M	COL	N	SCH
NA15751	571809	7055324	NAD83, Z 7	HULSTEIN	20030812	TA	QE	0.7	M		B	M	L	M	COL	N	SCH
NA15752	571879	7055387	NAD83, Z 7	HULSTEIN	20030801	BN	QE	0.5	M		B	M	M	G	BDR	N	SCH
NA15753	571947	7055465	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.7	M		C	M	M	G	BDR	N	SCH
NA15755	572006	7055519	NAD83, Z 7	HULSTEIN	20030812	BN	QD	0.5	M	5	B	L	M	S	COL	P	SCH
NA15756	571805	7055604	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.7	M		B	M	H	M	COL	P	SCH
NA15757	571737	7055534	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M		B	L	L	F	BDR	N	SCH
NA15758	571666	7055464	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.4	M		B	M	L	M	COL	N	SCH
NA15759	571599	7055389	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.35	M		B	M	L	M	COL	N	SCH
NA15760	571530	7055317	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M		B	M	L	M	COL	N	SCH
NA15761	571452	7055249	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.45	M		B	L	L	M	COL	N	SCH
NA15762	571394	7055177	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.25	M		B	M	L	M	COL	N	SCH
NA15763	571169	7055251	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M		B	M	M	G	COL	N	SCH
NA15764	571237	7055323	NAD83, Z 7	HULSTEIN	20030812	BN	QD	0.5	M	5	B	M	H	G	COL	P	
NA15765	571315	7055385	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.7	M		B	L	M	M	COL	P	SCH
NA15766	571389	7055457	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M		B	L	M	M	COL	N	SCH
NA15767	571451	7055530	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.7	M		B	L	M	M	COL	N	SCH
NA15768	571522	7055603	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M		B	L	M	M	COL	N	SCH
NA15769	571596	7055672	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.5	M		B	M	L	G	BDR	N	SCH
NA15770	571098	7054896	NAD83, Z 7	HULSTEIN	20030813	BN	QD	0.5	M	5	B	L	H	S	COL	P	SCH
NA15771	571166	7054949	NAD83, Z 7	HULSTEIN	20030813	TA	QE	0.6	M		B	H	M	M	COL	P	SCH
NA15772	571102	7055175	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.5	M		B	L	M	M	COL	P	SCH
NA15774	571030	7055106	NAD83, Z 7	HULSTEIN	20030813	TA	QE	0.6	M		B	M	M				SCH
NA15775	570963	7055037	NAD83, Z 7	HULSTEIN	20030813	TA	QE	0.7	M		B	M	M	M	COL	N	SCH
NA15776	570885	7054966	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.4	M	5	B	M	M	M	COL	P	SCH
NA15777	570748	7055107	NAD83, Z 7	HULSTEIN	20030813	BN	QD	0.4	M	10	B	M	H	M	COL	P	SCH
NA15778	570852	7055219	NAD83, Z 7	HULSTEIN	20030813	OR	QE	0.6	M		B	H	M	S	COL	N	SCH
NA15780	570890	7055249	NAD83, Z 7	HULSTEIN	20030813	OR	QL	0.7	M		B	M	M	M	COL	P	SCH
NA15782	570981	7055358	NAD83, Z 7	HULSTEIN	20030813	OR	QE	0.6	M		B	M	M	M	COL	N	SCH
NA15783	571030	7055384	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA15784	571102	7055461	NAD83, Z 7	HULSTEIN	20030813	BN	QE	1	M		B	M	M	M	COL	N	SCH
NA15785	571170	7055531	NAD83, Z 7	HULSTEIN	20030813	OR	QE	0.9	M		B	H	M	M	COL	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15747	H	P.AUGER, ORTHOGNEISS	2	-0.2	3.18	4	-10	230	0.5	-2	0.56	-0.5	17	47	79	4.61	10	-1	0.62	10	1.61
NA15748	H	P.AUGER, ORTHOGNEISS, MUCH MORE PUNKY THAN PREVIOUS 2 SAMPLES, NO EPIDOTE OF PINK KSPR, BIO-QTZ-FEL GNE, FSPRS ARE CLOUDY	3	-0.2	2.99	2	-10	380	0.5	-2	0.75	-0.5	27	51	274	5.88	10	1	0.84	10	1.55
NA15749	H	P.AUGER, BOGGED DOWN, ORTHOGNEISS, MORE BIO-RICH	7	0.3	2.6	-2	-10	310	-0.5	-2	0.6	-0.5	21	56	206	4.92	10	-1	0.62	10	1.4
NA15750	M	QTZ SCH? WEAK LIMONITE COLOR	4	-0.2	1.97	11	-10	180	-0.5	-2	0.34	-0.5	12	26	104	3.64	10	-1	0.12	20	0.77
NA15751	M	QTZ SCH?	6	-0.2	3.51	4	-10	470	0.5	2	0.54	-0.5	18	33	258	5.52	10	-1	1.21	20	1.74
NA15752	H	BIO SCH LIMONITE ORANGE COLOR SL	3	-0.2	3.71	6	-10	560	0.6	-2	0.37	-0.5	27	37	366	5.68	10	1	1.02	20	1.74
NA15753	H	DUPE OF NA15754 BIO RICH SCH	5	-0.2	2.88	8	-10	280	-0.5	2	0.27	-0.5	17	32	540	5.52	10	-1	1.65	30	1.45
NA15755	M	QTZ-BIO SCH SLOPE; S & NORTH FACING	3	-0.2	2.19	7	-10	310	-0.5	-2	0.38	-0.5	14	31	108	3.83	10	-1	0.61	20	1.06
NA15756	L	~25% LOS BIO RICH SCH COL- SOLIFLUCTED	3	-0.2	2.59	9	-10	460	-0.5	-2	0.24	-0.5	16	32	45	4.45	10	-1	0.76	20	1.08
NA15757	M	BIO SCH SANDY WEAK LIMONITE COLORED SL	-1	-0.2	3.31	4	-10	480	-0.5	-2	0.25	-0.5	27	38	97	5.18	10	-1	1.15	10	1.68
NA15758	M	QTZ-BIO SCH	1	0.2	2.52	10	-10	410	-0.5	-2	0.32	-0.5	12	33	136	3.59	10	-1	0.63	10	1.12
NA15759	M	QTZ-BIO SCH	-1	0.2	2.2	14	-10	300	-0.5	2	0.26	-0.5	10	21	68	4.29	10	-1	0.72	10	1.02
NA15760	M		1	0.2	2.1	4	-10	160	-0.5	-2	0.4	-0.5	9	15	120	3.47	10	-1	0.61	20	0.93
NA15761	M	QTZ-BIO SCH	2	0.2	1.8	6	-10	150	-0.5	-2	0.3	-0.5	10	15	33	3.01	10	-1	0.61	10	0.75
NA15762	M	BIO SCH	-1	0.3	2.3	9	-10	110	-0.5	-2	0.32	-0.5	9	12	181	5.76	10	-1	0.62	20	0.98
NA15763	M	BIO RICH SCH SANDY SL	3	-0.2	2.41	6	-10	360	-0.5	-2	0.62	-0.5	14	16	53	5.18	10	-1	0.65	10	1.28
NA15764	L	SOME LOESS?%	13	0.4	3.16	7	-10	470	0.5	2	0.79	0.6	18	33	616	4.98	10	-1	0.68	30	1.42
NA15765	M	QTZ-BIO SCH SANDY SL	2	-0.2	2.2	5	-10	250	-0.5	-2	0.59	-0.5	10	16	132	3.92	10	-1	1.01	20	1.09
NA15766	M	QTZ-BIO SCH	3	0.2	2	6	-10	200	-0.5	2	0.28	-0.5	11	20	65	3.46	10	-1	0.65	10	0.9
NA15767	M	BIO-QTZ SCH	2	-0.2	2.89	7	-10	430	-0.5	-2	0.47	0.5	25	34	160	4.54	10	-1	1	10	1.46
NA15768	M	BIO-QTZ SCH	5	-0.2	3.95	6	-10	490	0.5	-2	0.64	-0.5	24	35	181	5.52	10	-1	1.43	10	1.82
NA15769	M	BIO-QTZ SCH	6	-0.2	4.62	10	-10	580	0.6	-2	0.27	-0.5	16	42	100	7.78	10	-1	1.6	20	1.72
NA15770	L	RK TYPE: BIO-QTZ? SCHIST SANDY SAMPLE	8	0.2	1.82	3	-10	310	-0.5	-2	0.27	-0.5	9	28	117	3.36	10	1	0.26	10	0.9
NA15771	M	MORE CLY RICH THAN USUAL	11	0.3	2.87	-2	-10	280	0.5	-2	0.38	-0.5	6	26	552	4.82	10	-1	0.68	20	0.85
NA15772	M	RK TYPE: QTZ-MUS SCHIST	21	-0.2	1.83	2	-10	620	-0.5	-2	0.27	-0.5	6	22	66	2.83	10	-1	0.23	20	0.59
NA15774	M	SOME LOESS OR CLY? (APPROX 25%). RK TYPE: QTZ-MUS SCHIST	13	0.3	1.93	3	-10	230	-0.5	-2	0.19	-0.5	4	19	192	4.41	10	-1	0.39	10	0.51
NA15775	H	RK TYPE: QTZ-MUS SCHIST. LIM AND HEMATITE SPECKS AND PATCHES	10	0.5	1.74	-2	-10	130	-0.5	-2	0.09	-0.5	4	19	134	6.52	10	-1	0.64	10	0.4
NA15776	L	SOME LOESS (APPROX 20%). RK TYPE: QTZ-FEL SCHIST WITH TR DISS PYY	5	-0.2	1.75	4	-10	240	-0.5	-2	0.18	-0.5	7	23	43	2.67	10	-1	0.11	10	0.53
NA15777	L	RK TYPE: QTZ-FELD SCH/GNE. LOESS APPROX 40%	5	-0.2	1.57	4	-10	180	-0.5	-2	0.19	-0.5	4	22	23	2.16	10	-1	0.08	20	0.43
NA15778	H	IN OLD PALES GULLY. RK TYPE: QTZ-MUSC SCHIST. LIMONITE AND HEMATITE COLOR PATCHES. DUPE OF 15779	19	0.3	3.42	-2	10	60	-0.5	-2	0.13	-0.5	1	17	390	8.66	10	1	1.24	20	0.58
NA15780	M	RK TYPE: QTZ-MUS-BIO SCHIST. GOOD LOOKING SAMPLE	41	0.7	2.58	-2	-10	200	-0.5	-2	0.09	-0.5	3	16	327	5.21	10	1	0.42	10	0.59
NA15782	M	RK TYPE: QTZ-MUS-BIO SCHIST. SANDY SOIL. AT OIL DRILL HOLE SITE	3	-0.2	3.92	2	-10	160	-0.5	3	0.19	-0.5	3	23	349	7.55	10	-1	1.02	40	1.12
NA15783	M	RK TYPE: BIO SCHIST	5	-0.2	2.88	6	-10	490	-0.5	-2	0.41	-0.5	9	32	246	5.98	-10	1	0.6	20	1.02
NA15784	H	RK TYPE: BIO SCHIST. LIMONITE TINGE TO SL COLOUR	10	-0.2	5.22	4	-10	90	-0.5	2	0.27	-0.5	1	39	271	9.66	10	-1	1.37	10	1
NA15785	H	RK TYPE: MUS SCHIST. LIMONITE COLOR SOIL.	12	0.4	2.83	2	-10	270	-0.5	2	0.38	-0.5	1	7	650	5.89	10	1	0.72	40	0.54

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15747	819	3	0.01	16	490	7	0.01	-2	5	38	0.25	-10	-10	129	-10	86
NA15748	759	12	0.02	13	1290	5	0.03	-2	8	56	0.2	-10	-10	143	-10	63
NA15749	728	6	0.02	12	790	11	0.05	2	7	34	0.15	-10	-10	109	-10	86
NA15750	387	2	0.02	17	410	4	0.01	-2	6	26	0.1	-10	-10	73	-10	60
NA15751	740	1	0.02	16	630	6	0.01	-2	8	41	0.28	-10	-10	117	-10	141
NA15752	795	3	0.01	13	380	7	0.01	2	8	31	0.17	-10	-10	134	-10	100
NA15753	548	8	0.02	12	830	9	0.78	-2	12	62	0.17	-10	-10	122	-10	69
NA15755	593	2	0.02	14	820	6	0.25	-2	7	45	0.17	-10	-10	96	-10	107
NA15756	585	1	0.02	16	530	11	0.32	-2	8	48	0.15	-10	-10	99	-10	180
NA15757	802	1	0.01	16	420	4	0.01	-2	5	42	0.23	-10	-10	130	-10	90
NA15758	515	1	0.01	16	260	5	0.01	-2	5	40	0.16	-10	-10	91	-10	79
NA15759	577	2	0.01	10	510	4	0.01	-2	8	22	0.16	-10	-10	102	-10	62
NA15760	472	3	0.01	8	830	5	0.01	-2	5	28	0.15	-10	-10	73	-10	100
NA15761	481	1	0.01	9	650	3	0.01	-2	5	20	0.13	-10	-10	62	-10	61
NA15762	459	4	0.01	8	710	2	0.04	-2	7	29	0.15	-10	-10	89	-10	59
NA15763	363	1	0.01	8	1090	8	0.13	-2	6	62	0.22	-10	-10	110	-10	186
NA15764	551	5	0.03	11	620	8	0.06	-2	9	57	0.21	-10	-10	114	-10	228
NA15765	559	1	0.01	7	1320	3	0.01	-2	10	27	0.16	-10	-10	96	-10	65
NA15766	497	1	0.01	9	520	3	0.01	-2	7	20	0.16	-10	-10	79	-10	64
NA15767	1050	2	0.01	15	870	6	0.01	-2	7	34	0.21	-10	-10	114	-10	168
NA15768	890	3	0.01	13	690	4	0.03	-2	5	43	0.26	-10	-10	137	-10	132
NA15769	790	2	0.05	12	650	5	0.57	-2	9	104	0.26	-10	-10	156	-10	81
NA15770	237	6	0.04	12	690	8	0.26	-2	7	46	0.09	-10	-10	90	-10	62
NA15771	218	15	0.15	8	540	18	1.32	2	11	112	0.08	-10	-10	95	-10	81
NA15772	215	5	0.04	12	530	10	0.24	2	5	50	0.13	-10	-10	58	-10	70
NA15774	154	10	0.2	9	500	11	1.24	2	6	92	0.08	-10	-10	59	-10	53
NA15775	164	6	0.27	6	380	26	1.96	2	6	65	0.06	-10	-10	66	-10	60
NA15776	192	2	0.01	10	380	8	0.06	-2	5	36	0.09	-10	-10	63	-10	62
NA15777	109	2	0.01	9	500	8	0.03	-2	5	35	0.08	-10	-10	55	-10	48
NA15778	118	4	0.59	3	460	13	3.84	-2	10	132	0.06	-10	-10	93	-10	40
NA15780	134	16	0.04	5	410	30	0.47	-2	9	80	0.07	-10	-10	80	-10	58
NA15782	340	4	0.07	5	790	14	1.3	-2	14	126	0.19	-10	-10	137	-10	157
NA15783	424	3	0.02	10	1380	45	0.39	-2	12	98	0.19	-10	10	128	-10	132
NA15784	251	3	0.19	9	650	27	2.01	-2	17	310	0.17	-10	-10	146	-10	61
NA15785	83	20	0.1	2	420	22	1.48	-2	10	203	0.03	-10	-10	63	-10	34

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15786	571243	7055600	NAD83, Z 7	HULSTEIN	20030812	OR	QL	0.9	M		B	M	M	M	COL	N	SCH
NA15787	571314	7055674	NAD83, Z 7	HULSTEIN	20030812	TA	QE	1	M		B	M	M	M	COL	N	SCH
NA15788	571382	7055748	NAD83, Z 7	HULSTEIN	20030812	BN	QE	0.8	M		B	M	M	M	COL	N	SCH
NA15789	571456	7055812	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA15790	571526	7055886	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.45	M		B	M	L	G	BDR	N	SCH
NA15791	571594	7055953	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.35	M		B	M	L	G	COL	N	SCH
NA15792	571664	7055742	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.3	M		B	M	L	G	BDR	N	SCH
NA15793	571596	7055667	NAD83, Z 7	HULSTEIN	20030813	BN	QE	0.45	M		B	M	L	G	COL	N	SCH
NA15794	570524	7055659	NAD83, Z 7	HULSTEIN	20030814	OR	QE	0.9	M		B	H	M	F	BDR	N	SCH
NA15795	570415	7055624	NAD83, Z 7	HULSTEIN	20030814	OR	QE	0.6	M		B	M	M	F	BDR	N	SCH
NA15796	570337	7055576	NAD83, Z 7	HULSTEIN	20030814	OR	QE	0.6	M		B	M	M	G	BDR	N	SCH
NA15797	570241	7055523	NAD83, Z 7	HULSTEIN	20030814	OR	QE	0.7	M		B	H	M	G	BDR	N	SCH
NA15798	570155	7055475	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.75	M		C	M	M	G	BDR	N	SCH
NA15799	570049	7055504	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.6	M		B	M	L	G	BDR	N	SCH
NA15800	568162	7058479	NAD83, Z 7	BOYER	20030731	BN	QL	0.4	M	8	C	M	L	M	COL	N	
NA15801	568089	7058406	NAD83, Z 7	BOYER	20030731	BN	QL	0.5	M	4	C	L	L	G	COL	N	
NA15802	568018	7058336	NAD83, Z 7	BOYER	20030731	BN	QL	0.6	M	3	C	L	M	M	COL	S	
NA15803	567943	7058262	NAD83, Z 7	BOYER	20030731	BN	QL	0.6	M	3	C	M	M	M	COL	S	
NA15804	567597	7057920	NAD83, Z 7	BOYER	20030731	BN	QL	0.7	M	4	C	M	M	M	COL	S	
NA15805	567531	7057845	NAD83, Z 7	BOYER	20030731	BN	QL	0.4	M	3	C	M	L	M	COL	N	SCH
NA15806	567482	7057792	NAD83, Z 7	BOYER	20030731	BN	QL	0.6	M	5	C	L	L	M	COL	N	
NA15827	568025	7059185	NAD83, Z 7	BOYER	20030803	BN	QE	0.3	M	10	C	M	L	M	BDR	N	
NA15828	567955	7059113	NAD83, Z 7	BOYER	20030803	OR	QE	0.3	M	5	C	L	L	M	BDR	N	
NA15829	568166	7059045	NAD83, Z 7	BOYER	20030803	BN	QE	0.4	M	5	C	L	L	M	BDR	N	
NA15830	568096	7058974	NAD83, Z 7	BOYER	20030803	OR	QE	0.6	M	3	C	L	L	M	COL	N	
NA15831	567885	7059041	NAD83, Z 7	BOYER	20030803	OR	QE	0.3	M	5	C	L	M	M	BDR	N	
NA15832	567816	7058968	NAD83, Z 7	BOYER	20030803	OR	QE	0.3	M	5	C	L	L	M	BDR	N	
NA15833	568028	7058903	NAD83, Z 7	BOYER	20030803	BN	QE	0.4	M	5	C	L	L	M	BDR	N	
NA15834	567747	7058893	NAD83, Z 7	BOYER	20030803	OR	QE	0.3	M	3	C	L	L	M	BDR	N	

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15786	H	LIGHT TAN-ORANGE (LIMONITE) COLOUR. RK TYPE: MUS-QTZ SCHIST	14	0.2	2.55	2	-10	180	-0.5	2	0.24	-0.5	1	23	251	7.92	10	2	1.28	30	0.94
NA15787	H	RK TYPE: BIO SCHIST. LIMONITE-TAN COLOR SOIL	6	-0.2	5.59	2	-10	450	0.6	2	0.63	-0.5	2	46	242	8.09	10	-1	0.74	10	1.16
NA15788	M	RK TYPE: BIO-MUS-QTZ SCHIST	6	-0.2	5.53	4	-10	140	0.6	2	0.73	-0.5	4	36	200	7.36	10	1	1.63	30	1.5
NA15789	M	RK TYPE: QTZ-BIO SCHIST	3	-0.2	4.66	7	-10	580	0.6	-2	1.24	-0.5	14	33	52	5.25	10	2	0.72	20	1.44
NA15790	M	RK TYPE: QTZ-BIO SCHIST	1	-0.2	5.02	6	-10	460	0.8	2	1.2	-0.5	22	38	128	4.6	10	1	0.39	20	1.29
NA15791	M	RK TYPE: QTZ-BIO SCHIST AND QTZ BOULDERS. ENVIRONMENT NEAR RIDGE	1	-0.2	4.01	6	-10	400	0.5	2	0.68	-0.5	18	34	44	3.9	10	1	0.7	10	1.32
NA15792	M	RK TYPE: QTZ-BIO SCHIST	3	-0.2	4.57	7	-10	780	-0.5	-2	0.54	-0.5	22	53	57	4.71	10	1	0.87	20	1.94
NA15793	M	RK TYPE: QTZ-BIO SCHIST. MINOR Fe-LIM NEAR SURFACE. COLLECTED CLOSE TO NA15769 (LESS THAN 10M). ALMOST A DUPLICATE	2	-0.2	3.58	5	-10	630	-0.5	2	0.29	-0.5	20	38	76	6.03	10	-1	0.91	10	1.29
NA15794	H	RK TYPE: MUS SCHIST. WITHIN 10M OF DOM@ LJ2. YELLOW-ORANGE (LIMONITE) COLOR SL.	75	3	4.5	8	-10	150	1	5	0.27	-0.5	-1	9	1550	11.15	10	2	0.72	30	0.96
NA15795	H	RK TYPE: MUS-QTZ SCHIST. NEXT TO DIGGER PIT, LESS THAN 2M AWAY, AND SAMPLE NUMBER NA15916 (RK)	7	-0.2	0.2	4	-10	50	-0.5	-2	0.01	-0.5	-1	5	13	13.9	-10	-1	1.55	20	0.02
NA15796	H	YELLOW-ORANGE LIMONITE COLOUR. NEXT TO DIGGER PIT, LESS THAN 2M AWAY AND RK SAMPLE NA15914. RK TYPE: BIO-MUSC-QTZ SCHIST. DECOMPOSED.	3	-0.2	3.5	8	-10	50	-0.5	2	0.21	-0.5	10	8	316	14	10	1	1.57	20	0.66
NA15797	H	ORANGE-YELLOW (LIMONITE COLOR) SL. RK TYPE: MUS-QTZ SCHIST. BETWEEN 2 DIGGER PITS LOCATED 5M APART. NEXT TO RK SAMPLE NA15913. SL SAMPLE WAS MORE CLY RICH AND OF DECOMPOSED SCHIST COMPARED TO BLOCKY RUBBLE IN DIGGER PITS.	51	0.9	4.38	4	-10	120	-0.5	4	0.27	-0.5	2	9	936	6.66	10	1	0.9	20	0.72
NA15798	H	RK TYPE: BIO-QTZ SCHIST, DECOMPOSED. NEXT TO DIGGER PIT, LESS THAN 1M, AND RK SAMPLE NA15912.	3	-0.2	3.68	4	-10	170	0.5	-2	0.46	-0.5	12	42	43	5.24	10	-1	1.14	20	1.44
NA15799	M	RK TYPE: BIO-QTZ SCHIST. POSSIBLY SOME DECOMPOSED LOESS IN SAMPLE? NEXT TO DIGGER PIT (LESS THAN 1M) AND SAMPLE NA15910	1	-0.2	3.65	2	-10	550	0.5	-2	0.42	-0.5	14	52	23	4.89	10	-1	0.54	10	1.77
NA15800	H		2	-0.2	1.21	-2	-10	230	-0.5	-2	0.21	-0.5	6	20	9	2.01	-10	-1	0.12	10	0.37
NA15801	H		3	-0.2	1.42	4	-10	240	0.6	-2	0.29	-0.5	8	21	62	2.88	-10	-1	0.11	20	0.47
NA15802	H		6	-0.2	1.56	3	-10	360	0.6	2	0.42	-0.5	12	21	121	4.04	10	-1	0.31	30	0.63
NA15803	H		7	0.2	1.73	-2	-10	290	0.5	-2	0.44	-0.5	10	25	38	2.96	10	-1	0.17	20	0.49
NA15804	H		2	-0.2	1.32	4	-10	260	0.6	-2	0.39	-0.5	6	18	34	2.9	10	-1	0.16	30	0.57
NA15805	H		1	-0.2	1.82	3	-10	450	0.5	-2	0.38	-0.5	20	30	66	3.61	10	-1	0.4	20	0.85
NA15806	H		3	-0.2	1.78	2	-10	270	0.6	-2	0.53	-0.5	14	25	58	4.36	10	-1	0.18	30	0.7
NA15827	H		1	-0.2	1.76	14	-10	280	0.7	-2	0.52	-0.5	8	35	76	2.94	10	-1	0.07	20	0.58
NA15828	H		2	-0.2	1.32	15	-10	190	1	-2	0.21	-0.5	7	24	42	3.54	10	-1	0.22	10	0.51
NA15829	H		1	-0.2	2.13	4	-10	280	0.5	-2	0.62	-0.5	18	97	89	3.72	10	-1	0.28	10	1.34
NA15830	H		4	-0.2	1.5	13	-10	270	0.8	-2	0.33	-0.5	12	33	73	3.01	-10	-1	0.13	20	0.49
NA15831	H		2	-0.2	1.72	8	-10	320	0.5	-2	0.75	-0.5	9	32	94	2.87	10	-1	0.51	40	0.86
NA15832	H		6	-0.2	2.65	10	-10	590	1.1	3	2.08	0.7	9	51	240	5.23	10	-1	0.64	40	0.99
NA15833	H		-1	-0.2	1.67	3	-10	240	0.7	-2	0.38	-0.5	13	33	97	3.07	10	-1	0.47	30	0.88
NA15834	H		2	-0.2	1.73	6	-10	460	0.7	-2	0.44	-0.5	6	14	29	2.72	10	-1	0.12	20	0.49

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15786	190	11	0.13	6	620	28	1.9	-2	10	144	0.1	-10	-10	86	-10	71
NA15787	245	1	0.03	11	640	22	0.35	-2	25	123	0.18	-10	-10	200	-10	58
NA15788	565	1	0.1	5	830	24	1.46	-2	17	387	0.23	-10	10	140	-10	180
NA15789	646	1	0.04	12	780	10	0.21	-2	8	92	0.22	-10	-10	110	-10	70
NA15790	801	1	0.04	16	560	14	0.01	2	8	72	0.22	-10	-10	118	-10	152
NA15791	510	-1	0.01	19	330	7	0.01	-2	5	41	0.19	-10	-10	102	-10	67
NA15792	676	-1	0.03	17	600	23	0.02	-2	19	116	0.28	-10	-10	143	-10	108
NA15793	1020	4	0.02	15	1480	6	0.14	-2	6	97	0.23	-10	-10	143	-10	127
NA15794	126	54	0.41	5	1130	111	2.43	-2	10	282	0.16	-10	-10	118	10	97
NA15795	-5	90	0.45	2	530	3	4.38	-2	2	44	0.06	-10	10	27	10	3
NA15796	136	23	1.03	5	960	6	5.43	-2	10	274	0.12	-10	-10	78	10	91
NA15797	130	7	0.2	2	400	25	1.84	-2	10	150	0.09	-10	-10	74	-10	74
NA15798	651	9	0.06	13	1010	6	1.03	-2	20	267	0.18	-10	10	151	-10	89
NA15799	612	1	0.01	17	690	3	0.01	-2	11	42	0.3	-10	-10	168	-10	62
NA15800	170	1	0.01	10	170	9	0.01	3	3	18	0.08	-10	-10	48	-10	55
NA15801	263	4	0.01	14	360	9	0.01	2	7	27	0.07	-10	-10	61	-10	80
NA15802	381	3	0.02	17	530	17	0.08	4	7	37	0.09	-10	-10	61	-10	138
NA15803	430	1	0.02	20	400	12	0.01	4	6	32	0.12	-10	-10	69	-10	76
NA15804	382	1	0.02	17	480	6	0.01	5	6	30	0.08	-10	-10	49	-10	132
NA15805	452	2	0.01	36	990	12	0.01	5	6	24	0.16	-10	-10	52	-10	104
NA15806	603	1	0.02	18	500	10	0.02	-2	13	34	0.09	-10	-10	90	-10	102
NA15827	259	3	0.01	33	1870	9	0.01	-2	5	25	0.07	-10	-10	102	-10	98
NA15828	255	3	0.01	42	670	7	-0.01	2	6	13	0.05	-10	-10	52	-10	142
NA15829	492	2	0.04	30	530	5	0.01	-2	16	26	0.12	-10	-10	120	-10	80
NA15830	776	2	0.01	43	530	7	0.01	-2	9	21	0.07	-10	-10	61	-10	64
NA15831	342	2	0.01	31	3330	8	0.04	-2	7	31	0.1	-10	-10	142	-10	85
NA15832	473	8	0.03	39	9090	27	0.27	-2	9	98	0.11	-10	-10	227	-10	140
NA15833	338	2	0.02	32	1020	11	0.01	-2	6	19	0.1	-10	-10	65	-10	75
NA15834	256	3	0.01	13	540	10	0.01	-2	7	21	0.02	-10	-10	56	-10	68

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15835	567674	7058818	NAD83, Z 7	BOYER	20030803	WT	QE	0.4	M	3	C	L	L	G	BDR	N	
NA15836	567959	7058830	NAD83, Z 7	BOYER	20030803	OR	QE	0.3	M	6	C	L	L	M	BDR	N	
NA15837	567890	7058758	NAD83, Z 7	BOYER	20030803	BN	QE	0.7	M	5	BC	M	M	M	COL	S	
NA15838	567819	7058686	NAD83, Z 7	BOYER	20030803	OR	QE	0.6	M	4	C	L	L	G	BDR	N	
NA15839	567605	7058746	NAD83, Z 7	BOYER	20030803	OR	QE	0.5	M	4	C	L	L	M	BDR	N	
NA15840	567536	7058674	NAD83, Z 7	BOYER	20030803	OR	QE	0.8	M	2	C	L	L	M	BDR	N	
NA15841	567749	7058616	NAD83, Z 7	BOYER	20030803	OR	QE	0.7	M	2	C	L	L	M	BDR	N	
NA15842	567679	7058545	NAD83, Z 7	BOYER	20030803	OR	QE	0.7	M	2	C	L	L	M	BDR	N	
NA15843	567607	7058475	NAD83, Z 7	BOYER	20030803	BN	QL	0.6	M	4	C	L	L	G	BDR	N	
NA15844	567466	7058603	NAD83, Z 7	BOYER	20030803	OR	QE	0.7	M	3	C	L	L	M	BDR	N	
NA15845	567394	7058532	NAD83, Z 7	BOYER	20030803	BN	QL	0.7	M	2	C	L	L	G	BDR	S	
NA15846	567323	7058200	NAD83, Z 7	BOYER	20030803	BN	QE	0.5	M	7	C	M	M	G	COL	N	
NA15847	567177	7058054	NAD83, Z 7	BOYER	20030803	TA	QE	0.4	M	5	C	L	L	M	BDR	N	
NA15848	568308	7058904	NAD83, Z 7	BOYER	20030804	OR	QE	0.4	M	8	C	M	L	M	BDR	N	
NA15849	568237	7058835	NAD83, Z 7	BOYER	20030804	BN	QE	0.4	M	4	C	L	L	M	BDR	N	
NA15850	568166	7058764	NAD83, Z 7	BOYER	20030804	TA	QD	0.3	M	4	C	M	L	M	COL	N	
NA15851	568095	7058694	NAD83, Z 7	BOYER	20030804	BN	QL	0.5	M	4	C	M	L	M	COL	N	
NA15852	568022	7058621	NAD83, Z 7	BOYER	20030804	OR	QE	0.7	M	2	C	L	L	G	BDR	S	
NA15853	567870	7058495	NAD83, Z 7	BOYER	20030804	BN	QE	0.6	M	3	C	L	L	G	BDR	S	
NA15854	567774	7058378	NAD83, Z 7	BOYER	20030804	BN	QE	0.5	M	7	C	M	M	G	BDR	S	
NA15855	567737	7058338	NAD83, Z 7	BOYER	20030804	BN	QE	1	M	3	BC	M	H	G	COL	S	
NA15856	567666	7058268	NAD83, Z 7	BOYER	20030804	BN	QE	0.9	M	3	BC	M	H	G	COL	S	
NA15857	567599	7058195	NAD83, Z 7	BOYER	20030804	BN	QD	0.8	M	2	BC	M	H	G	COL	S	
NA15858	567385	7057982	NAD83, Z 7	BOYER	20030804	BN	QE	0.7	M	3	C	L	M	G	BDR	S	
NA15859	567316	7057912	NAD83, Z 7	BOYER	20030804	BN	QL	0.4	M	5	C	L	L	M	BDR	N	
NA15860	568727	7058480	NAD83, Z 7	BOYER	20030804	BN	QE	0.4	M	8	BC	M	L	G	COL	N	
NA15861	568653	7058408	NAD83, Z 7	BOYER	20030804	BN	QE	0.4	M	8	BC	M	M	M	COL	S	
NA15862	568441	7058196	NAD83, Z 7	BOYER	20030804	BN	QE	0.5	M	10	BC	M	M	M	COL	S	
NA15863	568372	7058124	NAD83, Z 7	BOYER	20030804	BN	QL	0.5	M	6	BC	M	H	M	COL	P	
NA15864	568302	7058051	NAD83, Z 7	BOYER	20030804	OR	QE	0.4	M	5	C	M	M	G	BDR	S	
NA15865	568228	7057977	NAD83, Z 7	BOYER	20030804	OR	QE	0.5	M	4	C	M	M	G	BDR	N	
NA15866	568158	7057905	NAD83, Z 7	BOYER	20030804	BN	QE	0.7	M	3	BC	M	H	G	COL	S	
NA15867	567952	7057694	NAD83, Z 7	BOYER	20030804	OR	QE	0.6	M	3	C	M	H	G	COL	S	
NA15868	567885	7057630	NAD83, Z 7	BOYER	20030804	OR	QE	0.5	M	8	BC	M	M	M	COL	N	
NA15869	572050	7047600	NAD83, Z 7	BOYER	20030804	BN	QD	0.7	M	10	BC	M	M	M	COL	N	
NA15870	571850	7047600	NAD83, Z 7	BOYER	20030804	BN	QE	0.5	M	6	BC	M	M	M	COL	N	AMP
NA15871	571750	7047600	NAD83, Z 7	BOYER	20030804	BN	QE	0.4	M	10	BC	M	L	M	COL	N	
NA15872	571750	7047800	NAD83, Z 7	BOYER	20030804	BN	QE	0.5	M	8	BC	M	M	M	COL	N	
NA15873	571850	7047800	NAD83, Z 7	BOYER	20030804	BN	QE	0.7	M	5	BC	M	M	M	COL	N	
NA15874	571950	7047799	NAD83, Z 7	BOYER	20030804	BN	QE	0.5	M	5	C	M	M	M	COL	N	
NA15875	573126	7054618	NAD83, Z 7	BOYER	20030808	OR	QD	1.5	M	1	C	L	M	M	BDR	N	SCH
NA15877	572450	7047403	NAD83, Z 7	BOYER	20030808	BN	QD	0.7	M	5	BC	M	M	M	COL	S	
NA15878	572650	7047403	NAD83, Z 7	BOYER	20030808	BN	QE	0.7	M	6	BC	M	L	M	COL	N	
NA15879	572751	7047403	NAD83, Z 7	BOYER	20030808	BN	QL	0.7	M	4	BC	M	L	M	COL	N	
NA15880	572851	7047403	NAD83, Z 7	BOYER	20030808	BN	QE	0.8	M	3	BC	M	M	M	COL	N	

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15835	H		2	-0.2	2.1	7	-10	210	0.8	-2	12.25	-0.5	7	21	49	2.52	10	-1	0.08	30	4.45
~~NA15836~~	H		1	-0.2	1.8	5	-10	180	-0.5	-2	0.33	-0.5	6	19	9	2.32	10	-1	0.18	20	0.75
NA15837	M		4	-0.2	1.58	10	-10	330	0.6	-2	0.65	-0.5	11	29	35	2.93	10	-1	0.11	20	0.65
NA15838	H		3	-0.2	1.3	9	-10	370	0.6	-2	1.34	-0.5	10	26	36	3.09	-10	-1	0.11	20	0.87
NA15839	H		1	-0.2	2.1	8	-10	270	0.7	-2	0.21	0.5	10	25	35	3.21	10	-1	0.43	30	0.82
NA15840	H		4	-0.2	1.68	5	-10	300	0.6	-2	0.34	-0.5	7	28	35	3.08	10	-1	0.36	30	0.84
NA15841	H		10	-0.2	2.34	5	-10	370	0.9	-2	0.63	-0.5	11	32	72	3.68	10	-1	0.12	40	1.01
NA15842	H		-1	-0.2	1.74	6	-10	300	0.6	-2	0.32	-0.5	8	24	19	2.82	10	-1	0.31	20	0.57
NA15843	H		3	-0.2	1.42	6	-10	210	0.6	-2	0.32	-0.5	7	23	23	2.26	10	-1	0.17	20	0.57
NA15844	H		4	-0.2	1.42	5	-10	230	0.5	-2	0.24	-0.5	6	25	24	2.27	10	-1	0.1	20	0.47
NA15845	H		2	-0.2	1.35	3	-10	230	0.5	-2	0.38	-0.5	7	16	23	2.23	10	-1	0.27	20	0.65
NA15846	M		13	-0.2	1.49	3	-10	250	0.5	-2	0.48	-0.5	7	21	23	2.13	-10	-1	0.14	20	0.48
NA15847	H		13	-0.2	1.46	3	-10	230	0.5	-2	0.26	-0.5	7	15	31	2.16	10	-1	0.17	20	0.5
NA15848	H		6	-0.2	1.7	12	-10	220	0.7	-2	0.24	-0.5	12	36	49	2.98	10	-1	0.13	20	0.5
NA15849	H		3	-0.2	2.21	4	-10	280	1.2	-2	0.29	-0.5	8	38	33	2.8	10	-1	0.71	30	1.48
NA15850	M		1	-0.2	2.08	5	-10	270	0.6	-2	0.27	-0.5	10	23	9	2.61	10	-1	0.24	20	0.95
NA15851	H		1	-0.2	1.98	7	-10	230	0.5	-2	0.29	-0.5	7	28	16	2.5	10	-1	0.1	20	0.85
NA15852	H		2	-0.2	1.54	4	-10	360	0.7	-2	0.51	-0.5	9	21	31	2.64	10	-1	0.1	20	0.56
NA15853	H		3	-0.2	1.46	7	-10	260	0.6	-2	0.58	-0.5	8	23	26	2.63	10	-1	0.15	20	0.58
NA15854	H		4	-0.2	2.27	6	-10	290	0.7	-2	0.86	-0.5	12	28	44	3.41	10	-1	0.18	20	0.75
NA15855	M		3	-0.2	1.79	11	-10	430	0.7	-2	0.71	-0.5	15	31	55	3.22	10	-1	0.13	20	0.68
NA15856	M		7	-0.2	1.7	10	-10	350	0.6	-2	0.73	-0.5	11	31	47	3.16	10	-1	0.1	20	0.64
NA15857	M		22	-0.2	1.48	9	-10	310	0.6	-2	0.69	-0.5	12	28	48	2.97	-10	-1	0.09	20	0.57
NA15858	H		2	-0.2	1.64	3	-10	320	0.6	-2	0.4	-0.5	6	16	36	2.62	10	-1	0.3	20	0.64
NA15859	H		2	-0.2	1.82	4	-10	490	0.8	-2	0.42	-0.5	15	31	59	4.2	10	-1	0.53	50	0.98
NA15860	M	GPS ACTING UP?	2	-0.2	1.2	4	-10	200	-0.5	-2	0.27	-0.5	8	23	13	2.13	-10	-1	0.08	10	0.37
NA15861	M		4	-0.2	1.45	9	-10	460	0.5	-2	0.88	-0.5	11	28	38	2.47	-10	-1	0.08	20	0.53
NA15862	M		2	-0.2	1.18	5	-10	220	-0.5	-2	1.05	-0.5	8	16	15	1.6	-10	-1	0.12	10	0.53
NA15863	M		4	-0.2	1.86	11	-10	350	0.6	-2	0.63	-0.5	13	29	63	3.2	-10	-1	0.11	20	0.7
NA15864	H		3	-0.2	1.8	3	-10	490	0.9	-2	0.42	-0.5	15	44	69	4.49	10	-1	0.54	20	0.92
NA15865	H		2	-0.2	2.63	2	-10	640	0.7	-2	0.81	-0.5	18	41	75	5.3	10	-1	0.26	20	1.27
NA15866	M		4	-0.2	1.88	9	-10	410	0.6	-2	0.87	-0.5	13	32	42	3.12	10	-1	0.13	20	0.57
NA15867	H		2	-0.2	1.58	3	-10	400	0.6	-2	0.56	-0.5	13	26	48	4.22	10	-1	0.32	20	0.62
NA15868	H		1	-0.2	1.16	7	-10	150	-0.5	-2	0.39	-0.5	12	16	24	4.31	-10	-1	0.1	10	0.46
NA15869	M		5	-0.2	2.77	2	-10	240	-0.5	-2	0.67	-0.5	18	11	39	5.39	10	-1	0.2	10	1.14
NA15870	M		2	-0.2	3.15	-2	-10	290	-0.5	-2	1.18	-0.5	12	40	34	3.38	10	-1	0.23	10	1.26
NA15871	M		2	-0.2	2.7	-2	-10	160	-0.5	-2	0.28	-0.5	16	43	24	3.43	10	-1	0.14	10	1.18
NA15872	M		3	-0.2	2.06	2	-10	280	0.5	-2	0.47	-0.5	11	41	26	3.16	10	-1	0.14	20	0.99
NA15873	M		-1	-0.2	3.64	7	-10	300	0.7	-2	0.91	-0.5	16	33	43	6.5	10	-1	0.28	10	1.48
NA15874	M		1	-0.2	2.89	-2	-10	240	0.5	-2	1.3	-0.5	18	54	79	3.72	-10	-1	0.12	10	1.34
NA15875	H	SOIL SAMP IN #1 pit	5	1.7	2.09	4	-10	460	2.3	-2	0.33	-0.5	236	10	2610	9.66	10	-1	0.19	10	0.23
NA15877	M		3	-0.2	1.68	9	-10	320	-0.5	-2	0.67	-0.5	11	26	54	2.88	10	-1	0.09	20	0.59
NA15878	H		3	-0.2	1.88	4	-10	290	-0.5	-2	0.82	-0.5	12	23	54	3.57	10	1	0.28	10	0.78
NA15879	M	20% LOESS IN SAMPLE	3	-0.2	1.72	5	-10	240	0.5	2	0.43	-0.5	9	27	23	3.14	10	-1	0.07	20	0.62
NA15880	M		8	-0.2	1.64	5	-10	260	-0.5	-2	0.48	-0.5	10	25	22	2.63	10	-1	0.08	10	0.53

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15835	833	3	0.02	32	10000	7	0.02	-2	8	126	0.07	-10	-10	63	-10	150
~~NA15836~~	247	2	0.01	12	580	7	0.01	-2	7	21	0.07	-10	-10	67	-10	47
NA15837	459	2	0.03	28	850	8	0.01	-2	5	35	0.11	-10	-10	65	-10	74
NA15838	504	2	0.03	28	1110	9	0.01	-2	6	40	0.09	-10	-10	63	-10	98
NA15839	437	4	0.01	21	300	9	-0.01	-2	6	18	0.17	-10	-10	62	-10	80
NA15840	503	2	0.02	20	810	9	-0.01	-2	9	20	0.17	-10	-10	103	-10	138
NA15841	531	2	0.02	29	770	67	0.01	-2	10	37	0.1	-10	-10	84	-10	385
NA15842	529	1	0.01	17	490	8	0.01	2	7	23	0.11	-10	-10	64	-10	98
NA15843	230	1	0.02	16	220	8	0.01	-2	9	35	0.12	-10	-10	60	-10	72
NA15844	198	1	0.01	18	210	10	-0.01	-2	7	17	0.13	-10	-10	59	-10	66
NA15845	294	2	0.02	13	470	9	-0.01	-2	6	22	0.14	-10	-10	62	-10	97
NA15846	206	2	0.03	18	490	7	0.01	-2	5	35	0.12	-10	-10	51	-10	54
NA15847	208	2	0.01	10	400	12	0.01	-2	4	19	0.07	-10	-10	46	-10	84
NA15848	606	2	0.01	43	570	9	0.01	-2	7	19	0.09	-10	-10	64	-10	67
NA15849	347	2	0.03	27	490	8	-0.01	-2	7	19	0.14	-10	-10	56	-10	56
NA15850	639	1	0.01	15	440	6	0.01	-2	8	20	0.1	-10	-10	67	-10	50
NA15851	320	2	0.01	19	410	7	-0.01	-2	11	21	0.12	-10	-10	74	-10	61
NA15852	483	2	0.03	19	660	10	-0.01	-2	9	26	0.08	-10	-10	65	-10	91
NA15853	319	1	0.03	18	920	7	0.01	-2	6	26	0.1	-10	-10	58	-10	63
NA15854	615	3	0.02	26	1300	10	0.01	-2	7	33	0.11	-10	-10	74	-10	100
NA15855	688	2	0.02	37	1200	10	0.01	-2	7	33	0.11	-10	-10	67	-10	83
NA15856	469	2	0.03	32	1230	9	0.01	-2	6	34	0.11	-10	-10	70	-10	79
NA15857	418	2	0.03	28	1110	11	0.01	-2	5	34	0.11	-10	-10	63	-10	78
NA15858	363	1	0.02	12	530	10	0.01	-2	5	24	0.12	-10	-10	58	-10	117
NA15859	463	4	0.02	30	790	11	0.05	-2	7	32	0.14	-10	-10	62	-10	101
NA15860	254	1	0.01	11	310	8	-0.01	-2	3	30	0.07	-10	-10	46	-10	52
NA15861	547	1	0.03	30	710	10	0.02	3	5	43	0.09	-10	-10	58	-10	54
NA15862	368	1	0.02	12	580	8	0.07	4	5	49	0.07	-10	-10	43	-10	45
NA15863	586	4	0.02	25	680	22	0.02	2	6	42	0.1	-10	-10	69	-10	97
NA15864	866	2	0.01	42	740	15	0.01	2	8	29	0.17	-10	-10	76	-10	160
NA15865	785	-1	0.02	32	1080	9	0.01	-2	17	39	0.1	-10	-10	152	-10	116
NA15866	504	1	0.02	25	500	11	0.02	2	7	48	0.12	-10	-10	66	-10	78
NA15867	498	2	0.02	25	920	7	0.01	-2	10	35	0.09	-10	-10	89	-10	100
NA15868	369	2	0.01	10	850	6	0.01	4	8	22	0.06	-10	-10	66	-10	77
NA15869	494	3	0.04	8	1000	4	0.02	-2	12	42	0.18	-10	-10	87	-10	126
NA15870	525	-1	0.03	24	610	5	-0.01	2	8	112	0.18	-10	-10	71	-10	71
NA15871	386	-1	0.02	21	260	5	0.01	2	5	44	0.2	-10	-10	83	-10	68
NA15872	469	1	0.02	39	650	8	-0.01	2	5	42	0.17	-10	-10	65	-10	74
NA15873	771	1	0.02	25	1910	9	0.01	2	14	50	0.29	-10	-10	118	-10	136
NA15874	410	2	0.05	60	800	9	0.04	2	6	104	0.13	-10	-10	82	-10	55
NA15875	3050	27	0.01	28	1160	15	0.01	-2	13	37	0.05	-10	-10	174	10	184
NA15877	494	1	0.03	23	750	6	0.01	3	6	42	0.13	-10	-10	60	-10	75
NA15878	515	-1	0.05	19	1320	5	0.01	-2	7	39	0.19	-10	-10	92	-10	111
NA15879	350	-1	0.02	16	450	6	-0.01	-2	7	36	0.12	-10	-10	57	-10	61
NA15880	567	1	0.02	15	760	4	0.01	-2	5	34	0.11	-10	-10	57	-10	53

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA15881	572951	7047202	NAD83, Z 7	BOYER	20030808	BN	QE	0.6	M	4	B	M	L	M	BDR	N	
NA15882	572851	7047202	NAD83, Z 7	BOYER	20030808	BN	QE	0.5	M	3	BC	M	L	M	COL	N	
NA15883	572751	7047202	NAD83, Z 7	BOYER	20030808	BN	QE	1	M	3	BC	M	L	M	COL	N	
NA15884	572651	7047202	NAD83, Z 7	BOYER	20030808	BN	QE	0.7	M	8	BC	M	L	M	COL	N	
NA15885	572551	7047202	NAD83, Z 7	BOYER	20030808	BN	QE	0.6	M	4	BC	M	L	M	COL	N	
NA15886	572250	7047183	NAD83, Z 7	BOYER	20030808	BN	QE	0.7	M	4	C	M	M	M	BDR	N	SCH
NA15887	572151	7047202	NAD83, Z 7	BOYER	20030808	BN	QE	0.5	M	6	BC	M	L	M	COL	N	
NA15888	572030	7047196	NAD83, Z 7	BOYER	20030808	BN	QE	0.5	M	6	BC	M	M	M	COL	S	
NA15889	572051	7047401	NAD83, Z 7	BOYER	20030808	BN	QE	0.5	M	8	BC	M	L	S	COL	N	
NA15890	572150	7047416	NAD83, Z 7	BOYER	20030808	BN	QE	0.4	M	8	BC	M	L	M	COL	N	
NA15891	572967	7054637	NAD83, Z 7	BOYER	20030809	BN	QL	2.3	M	1	C	L	L	M	BDR	N	SCH
NA15892	572865	7054640	NAD83, Z 7	BOYER	20030810	BN	QE	1.6	M	1	C	L	M	M	COL	N	SCH
NA15893	572808	7054641	NAD83, Z 7	BOYER	20030810	BN	QE	1.5	F	5	BC	M	L	M	COL	N	SCH
NA15894	572635	7054291	NAD83, Z 7	BOYER	20030811	BN	QE	8	F	1	C	L	M	M	BDR	N	SCH
NA15896	572560	7054246	NAD83, Z 7	BOYER	20030811	BN	QD	7	F	4	C	L	M	M	BDR	N	SCH
NA15902	569988	7055555	NAD83, Z 7	BOYER	20030812	BN	QL	5	F	2	C	L	L	M	BDR	N	SCH
NA15918	570711	7055654	NAD83, Z 7	BOYER	20030814	BN	QE	8	F	0	C	L	M	M	BDR	N	
NA15939	571353	7050202	NAD83, Z 7	BOYER	20030821	OR	QL	0.5	M	3	BC	L	L	M	BDR	N	
NA15940	571056	7050198	NAD83, Z 7	BOYER	20030821	BN	QE	0.5	M	2	BC	L	L	S	BDR	N	SCH
NA15941	570949	7050202	NAD83, Z 7	BOYER	20030821	OR	QE	0.5	M	4	BC	L	L	M	BDR	N	SCH
NA15942	570843	7050224	NAD83, Z 7	BOYER	20030821	OL	QE	0.5	M	5	BC	L	L	S	BDR	N	AMP
NA15943	570741	7050197	NAD83, Z 7	BOYER	20030821	OL	QE	0.5	M	7	BC	L	L	S	COL	N	AMP
NA15944	570646	7050202	NAD83, Z 7	BOYER	20030821	BN	QE	0.4	M	5	BC	M	M	M	COL	S	
NA15945	570554	7050204	NAD83, Z 7	BOYER	20030821	OR	QB	0.4	M	8	BC	L	L	S	COL	N	
NA15947	570341	7050196	NAD83, Z 7	BOYER	20030821	OL	QE	0.4	M	8	BC	L	L	S	BDR	N	AMP
NA15948	570132	7050202	NAD83, Z 7	BOYER	20030821	BN	QE	0.2	M	10	BC	M	L	S	BDR	N	AMP
NA15949	571144	7050398	NAD83, Z 7	BOYER	20030821	OL	QE	0.4	M	10	BC	M	M	M	COL	N	AMP
NA15950	571348	7050394	NAD83, Z 7	BOYER	20030821	OL	QE	0.4	M	5	BC	M	M	S	BDR	N	AMP
NA16000	569947	7055503	NAD83, Z 7	HULSTEIN	20030814	TA	QE	0.8	M		B	M	L	G	BDR	N	SCH
NA16001	569841	7055498	NAD83, Z 7	HULSTEIN	20030814	BN	QL	0.7	M		B	M	L	G	BDR	N	SCH
NA16002	569726	7055401	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.8	M		B	M	L	S	COL	N	SCH
NA16003	569797	7055474	NAD83, Z 7	HULSTEIN	20030814	TA	QE	0.45	M		B	M	L	M	COL	N	SCH
NA16004	569862	7055540	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.8	M		B	H	M	G	COL	N	SCH
NA16005	569935	7055611	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA16007	570193	7055882	NAD83, Z 7	HULSTEIN	20030814	TA	QE	0.4	M	5	B	M	H	M	COL	P	SCH

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA15881	H		1	-0.2	2.4	-2	-10	350	0.5	-2	0.85	-0.5	17	65	50	3.54	10	-1	0.21	20	1.31
~~NA15882~~	M		3	-0.2	2.44	2	-10	320	0.5	-2	0.84	-0.5	11	22	31	4.09	10	-1	0.38	20	1
NA15883	M		1	-0.2	1.74	-2	-10	220	-0.5	-2	0.61	-0.5	7	18	16	3.41	10	-1	0.32	10	0.68
NA15884	M		3	-0.2	3.12	-2	-10	370	0.6	-2	1.56	-0.5	9	16	21	4.32	10	-1	0.37	10	0.68
NA15885	M		3	-0.2	2.11	-2	-10	230	-0.5	-2	0.88	-0.5	11	21	35	3.43	-10	-1	0.17	10	0.73
NA15886	H		334	5.7	1.82	7	-10	410	0.8	6	0.74	-0.5	9	66	892	6.2	10	-1	0.45	30	1.22
NA15887	M		5	-0.2	3.98	3	-10	400	0.6	-2	1.26	-0.5	23	112	61	5.26	10	-1	0.24	10	1.7
NA15888	H		4	-0.2	3.11	-2	-10	350	0.5	-2	0.88	-0.5	21	20	38	4.87	10	-1	0.27	20	1.38
NA15889	M		4	-0.2	2.55	-2	-10	160	-0.5	-2	0.87	-0.5	15	15	48	4.98	10	-1	0.1	10	0.96
NA15890	M		2	-0.2	2.72	-2	-10	520	1.3	-2	0.4	-0.5	16	44	120	4.51	10	-1	0.5	100	0.94
NA15891	H	PIT 3 LESS THAN 7 FEET DEEP. SEE CARD FOR DIAGRAM	3	-0.2	2	-2	-10	190	0.5	-2	0.56	-0.5	14	14	413	2.6	10	-1	0.32	10	0.51
NA15892	H	RK TYPE: MUSC-QTZ SCHIST. PIT 4	4	-0.2	2.41	-2	-10	490	0.7	-2	0.25	-0.5	16	10	671	5.46	10	-1	0.83	20	0.89
NA15893	H	RK TYPE: BIO SCHIST. PIT #5	11	-0.2	1.39	-2	-10	200	-0.5	-2	0.37	-0.5	8	19	306	2.36	10	-1	0.2	20	0.51
NA15894	H	8 FOOT PIT (#6) AT SAMPLE SITE (NA12270) ALSO RK SAMPLE NA15895	12	-0.2	4.04	-2	-10	130	0.7	-2	0.78	-0.5	13	39	1365	6.31	10	-1	1.18	30	1.48
NA15896	H	PIT 7	12	-0.2	4.97	-2	-10	270	0.7	-2	1.1	-0.5	11	50	1600	6.09	10	-1	0.99	20	1.58
NA15902	H	DRT-MUSC SCHIST. PIT 10	41	1	2.89	38	-10	60	-0.5	-2	0.26	-0.5	2	5	1615	6.95	10	-1	1.3	90	1.08
NA15918	H	PIT 23	9	-0.2	4.66	-2	-10	190	0.5	4	0.55	-0.5	27	40	385	8.36	10	2	1.17	30	1.45
NA15939	H		2	-0.2	3.22	5	-10	190	0.6	-2	0.44	-0.5	21	61	36	4.7	10	1	0.46	20	1.5
NA15940	H		7	0.2	2.88	-2	-10	270	0.8	-2	0.97	-0.5	5	5	35	3.94	10	-1	0.53	30	0.85
NA15941	H		35	0.7	2.27	12	-10	450	-0.5	-2	0.2	-0.5	9	17	995	4.86	10	-1	0.31	20	1.59
NA15942	H		6	-0.2	2.7	6	-10	270	0.5	-2	1.02	-0.5	23	40	77	4.64	10	-1	0.25	10	1.16
NA15943	M		3	-0.2	2.9	5	-10	210	-0.5	-2	0.78	-0.5	20	24	68	4.66	10	-1	0.12	10	1.38
NA15944	M		1	-0.2	3.54	2	-10	190	0.6	-2	1.32	-0.5	30	20	21	4.36	20	-1	0.13	10	1.3
NA15945	M		3	-0.2	3.08	-2	10	290	0.5	-2	0.72	-0.5	15	12	58	6.39	20	-1	0.28	10	1.26
NA15947	M		2	-0.2	3.02	-2	-10	290	-0.5	-2	0.42	-0.5	23	110	26	4.11	10	-1	0.73	10	1.95
NA15948	M		3	0.2	2.02	6	-10	190	-0.5	-2	0.43	-0.5	11	30	27	3	10	-1	0.08	10	0.69
NA15949	M		1	-0.2	2.39	2	-10	200	-0.5	-2	1.03	-0.5	17	42	32	3.12	10	-1	0.23	10	1.36
NA15950	H		-1	-0.2	3.07	-2	-10	390	0.5	-2	0.88	-0.5	26	9	28	5.71	10	-1	0.95	10	1.88
NA16000	H	RK TYPE: QTZ-MUS SCHIST. WEAK LIMONITE COLOUR. NEXT TO DIGGER PIT (LESS THAN 1M) AND RK SAMPLE NA15909.	16	0.5	2.84	10	-10	100	-0.5	2	0.33	-0.5	6	7	1400	5.82	10	1	1.07	50	1.1
NA16001	H	RK TYPE: QTZ-FEL-BIO SCHIST. NEXT TO DIGGER PIE (LESS THAN 1M) AND RK SAMPLE NA15907	34	0.6	2.78	5	-10	380	-0.5	-2	0.07	-0.5	2	9	696	4.18	10	-1	0.77	80	1.59
NA16002	H	RK TYPE: BIO-QTZ SCHIST AND QTZ VEIN, 5CM YELLOW CLY BAND WITH GREY STREAKS (SX ?).	4	0.4	2.24	13	-10	680	0.9	-2	0.5	-0.5	12	37	159	3.28	10	1	0.3	40	0.89
NA16003	H	RK TYPE: QTZ-MUS SCHIST. TAN-LIMONITIC-YELLOW COLOR.	3	-0.2	1.88	8	-10	230	-0.5	-2	0.08	-0.5	4	19	279	5.41	-10	1	0.54	50	0.41
NA16004	H	RK TYPE: BIO-MUS SCHIST. ALMOST A RIDGE. MINOR SPECKS LIMONITE IN SOIL.	25	0.2	3.7	-2	-10	300	0.5	2	0.36	-0.5	6	22	2260	5.77	10	-1	0.99	150	1.6
NA16005	M	RK TYPE: BIO-QTZ SCHIST. SOLIFLUCTION. SAMPLE SITE AS S. RYAN SAMPLE #12375N/3250E.	78	0.7	2.4	4	-10	300	-0.5	-2	0.19	-0.5	5	12	1505	5.03	10	2	0.94	70	0.98
NA16007	L	RK TYPE: MUS-QTZ SCHIST. SEVERE SOLIFLUCTION. TAN-LIMONITE COLOR. MINOR LOESS.	4	-0.2	2.74	7	-10	370	-0.5	2	0.22	-0.5	5	23	142	4.6	10	1	0.28	20	0.66

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA15881	519	-1	0.03	33	780	3	-0.01	-2	9	48	0.19	-10	-10	89	-10	51
~~NA15882~~	624	-1	0.03	18	1620	2	0.01	-2	11	41	0.25	-10	-10	71	-10	65
NA15883	552	1	0.02	10	910	2	0.01	-2	8	33	0.17	-10	-10	48	-10	70
NA15884	602	-1	0.05	9	2560	7	0.01	-2	10	84	0.22	-10	-10	52	10	95
NA15885	477	1	0.05	12	1220	3	0.01	-2	8	44	0.16	-10	-10	74	-10	119
NA15886	551	7	0.03	40	2680	25	0.54	-2	12	47	0.12	-10	-10	134	-10	128
NA15887	937	1	0.02	12	980	6	0.02	-2	14	144	0.07	-10	-10	144	-10	98
NA15888	654	1	0.05	13	1100	3	0.03	2	16	95	0.12	-10	-10	117	-10	62
NA15889	498	-1	0.07	13	1080	-2	0.1	3	9	63	0.13	-10	-10	110	-10	73
NA15890	376	3	0.01	49	1170	25	0.31	-2	5	61	0.12	-10	-10	64	-10	181
NA15891	341	2	0.02	7	300	6	0.02	-2	7	66	0.08	-10	-10	59	-10	109
NA15892	437	5	0.01	7	760	6	0.12	2	13	51	0.17	-10	-10	115	-10	130
NA15893	245	1	0.02	12	440	10	0.03	2	5	40	0.11	-10	-10	53	-10	80
NA15894	356	13	0.03	10	1030	13	0.91	-2	12	112	0.27	-10	-10	156	-10	144
NA15896	409	5	0.06	14	1050	9	0.71	-2	18	126	0.23	-10	-10	164	10	118
NA15902	169	34	0.16	1	1060	8	1.98	-2	13	101	0.17	-10	-10	93	-10	61
NA15918	676	2	0.06	13	900	14	1.23	-2	21	111	0.15	-10	-10	150	-10	246
NA15939	820	5	0.02	37	1190	5	-0.01	-2	14	21	0.23	10	-10	170	-10	91
NA15940	612	2	0.01	4	750	8	0.03	-2	4	63	0.15	-10	-10	38	-10	71
NA15941	521	11	0.03	10	640	16	0.33	-2	14	39	0.07	-10	-10	96	-10	194
NA15942	587	-1	0.05	11	1060	10	0.01	-2	10	49	0.24	-10	-10	113	-10	122
NA15943	324	3	0.1	18	720	5	0.18	-2	12	74	0.18	-10	-10	134	-10	60
NA15944	1095	2	0.02	12	850	7	0.05	-2	10	122	0.17	10	-10	110	-10	68
NA15945	428	4	0.1	8	1160	7	0.51	-2	13	96	0.13	-10	-10	91	-10	58
NA15947	732	2	0.02	53	510	11	0.01	-2	4	52	0.3	-10	-10	103	-10	219
NA15948	278	1	0.02	18	570	8	0.01	-2	5	43	0.14	-10	-10	72	-10	63
NA15949	328	1	0.04	22	790	6	0.01	-2	5	54	0.23	-10	-10	80	-10	58
NA15950	617	1	0.02	18	890	4	-0.01	-2	4	52	0.49	-10	-10	162	-10	93
NA16000	227	21	0.12	4	840	22	1.4	2	6	81	0.15	-10	10	55	-10	79
NA16001	205	35	0.02	4	840	9	0.64	2	3	45	0.13	-10	-10	39	-10	75
NA16002	855	8	0.01	42	890	35	0.02	-2	6	36	0.08	-10	-10	42	-10	191
NA16003	144	3	0.17	10	670	8	1.32	-2	3	59	0.1	-10	-10	42	-10	43
NA16004	192	6	0.02	7	1100	66	1.03	-2	11	130	0.09	-10	-10	99	-10	94
NA16005	204	56	0.05	7	860	9	1.05	-2	7	72	0.2	-10	10	59	-10	65
NA16007	200	5	0.05	9	800	6	0.28	-2	8	86	0.14	-10	-10	91	-10	58

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA16008	570221	7055942	NAD83, Z 7	HULSTEIN	20030814	TA	QE	0.85	M		B	M	H	M	COL	P	SCH
NA16010	570358	7056032	NAD83, Z 7	HULSTEIN	20030814	TA	QE	0.3	M	5	B	M	H	G	COL	P	SCH
NA16011	570432	7056106	NAD83, Z 7	HULSTEIN	20030814	OR	QE	1	M		B	M	M	M	COL	N	SCH
NA16012	570507	7056158	NAD83, Z 7	HULSTEIN	20030814	TA	QE	0.8	M		B	M	M	M	COL	N	SCH
NA16013	570571	7056239	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.8	M		B	L	M	M	COL	N	SCH
NA16014	570642	7056320	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.5	M		B	M	M	M	COL	P	SCH
NA16015	570500	7056464	NAD83, Z 7	HULSTEIN	20030814	BN	QE	1.1	M		B	M	M	S	COL	N	SCH
NA16016	570431	7056404	NAD83, Z 7	HULSTEIN	20030814	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16017	569655	7055332	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.5	M		B	M	L	S	COL	N	SCH
NA16018	569581	7055262	NAD83, Z 7	HULSTEIN	20030815	BN	QL	0.35	M		B	M	L	S	COL	N	SCH
NA16019	569511	7055192	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.7	M		C	M	M	S	COL	N	SCH
NA16020	569515	7055469	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.25	M	5	B	M	L	S	COL	N	SCH
NA16021	569584	7055548	NAD83, Z 7	HULSTEIN	20030815	GY	QE	0.3	M	10	B	M	H	S	COL	P	SCH
NA16022	569658	7055621	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.7	M		B	M	M	S	COL	N	SCH
NA16023	569731	7055684	NAD83, Z 7	HULSTEIN	20030815	BN	QL	0.3	M	5	B	M	L	S	COL	N	QTZ
NA16024	569801	7055756	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.75	M		B	M	M	M	COL	N	SCH
NA16025	569860	7055824	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.25	M		B	M	M	M	COL	N	SCH
NA16026	569986	7055936	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16027	570078	7056033	NAD83, Z 7	HULSTEIN	20030815	OR	QE	0.8	M		B	M	M	G	BDR	N	SCH
NA16029	570128	7056082	NAD83, Z 7	HULSTEIN	20030815	OR	QE	0.7	M		B	M	M	G	COL	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA16008	L	RK TYPE: QTZ-MUS SCHIST. SEVERE SOLIFLUCTION. SAMPLE FROM FROST BOIL/BULGE. APPROX 20% LOESS. WEAK LIMONITE COLOR, SIMILAR TO NA16007.	6	-0.2	1.82	5	-10	300	-0.5	-2	0.29	-0.5	6	23	143	3.4	-10	-1	0.18	20	0.51
NA16010	L	SANDY GRANULAR SOIL, LIMONITIC COLOR. RK TYPE: QTZ-MUS SCHIST. SEVERE SOLIFLUCTION. SAMPLE LIKELY DERIVED FROM 100'S OF M UPSLOPE.	17	0.2	1.9	8	-10	300	-0.5	-2	0.2	-0.5	4	20	200	3.6	-10	1	0.35	20	0.55
NA16011	M	RK TYPE: QTZ-MUS SCHIST. SOLIFLUCTED. SAMPLE 10M AWAY FROM S. RYAN #12750N/3900E.	8	-0.2	3.24	6	-10	480	0.6	2	0.18	-0.5	5	9	359	5.93	10	-1	0.77	30	0.86
NA16012	M	RK TYPE: QTZ-MUS SCHIST, LIMONITE COLOUR. SOLIFLUCTED SLOPE.	5	-0.2	2.05	5	-10	130	0.5	4	0.25	-0.5	6	16	292	7.39	10	-1	0.95	20	0.66
NA16013	M	RK TYPE: QTZ-BIO-MUS SCHIST. LIMONITE SPECKS	32	1.1	4.43	3	-10	40	-0.5	2	0.21	-0.5	17	47	1230	12.1	10	1	2.62	20	1.31
NA16014	M	LESS THAN 10% LOESS? RK TYPE: QTZ-BIO-MUS SCHIST. SOLIFLUCTED COLLUVIUM	14	-0.2	4	3	-10	140	-0.5	-2	0.34	-0.5	12	34	114	5.2	10	2	1.04	20	1.1
NA16015	M	APPROX. 15% LOESS. RK TYPE: QTZ-BIO-MUS SCHIST. MINOR LIMONITE SPECKS/COLOUR. COLLUVIUM AT BASE OF SLOPE	2	-0.2	3.46	3	-10	960	0.5	3	0.79	-0.5	15	28	72	4.71	10	1	0.95	20	1.14
NA16016	M	RK TYPE: QTZ-BIO SCHIST. -5M FROM S. RYAN #13050E/4000E. NEARBY 0.C. OF FLATTISH LYING/FOL QTZ-BIO SCHIST (REALLY QFBmSCH)	2	-0.2	4.4	8	-10	740	1	-2	0.37	-0.5	33	41	175	7.8	10	1	1.12	20	1.46
NA16017	M	SOME LOESS. 0.15M TO C HORIZON. 25M AT 220 DEGREES TO S. RYAN SL # 12125N/2850E	3	-0.2	1.82	4	-10	200	0.5	-2	0.22	-0.5	10	38	33	3.23	10	-1	0.23	40	0.62
NA16018	M	SOME LOESS IN DRY POWDER SOIL. RK TYPE: QTZ-FEL-BIO SCHIST.	-1	-0.2	2.69	8	-10	230	0.6	2	0.34	-0.5	17	41	63	3.55	10	-1	0.37	10	1.1
NA16019	H	RK TYPE: BIO-MUSC-QTZ SCHIST	5	0.2	2.9	-2	-10	250	1	2	0.38	-0.5	23	52	334	5.32	10	-1	0.77	100	1.11
NA16020	M	RK TYPE: QTZ-BIO SCHIST AND QTZ VEIN. SOME LOESS IN SAMPLE.	2	-0.2	1.79	4	-10	140	0.6	2	0.4	-0.5	9	29	35	2.56	10	-1	0.11	10	0.49
NA16021	L	APPROX 20%+ LOESS. SEVER SOLIFLUCTED COLLUVIUM.	4	-0.2	1.73	-2	-10	320	-0.5	2	0.18	-0.5	4	14	51	2.55	10	-1	0.28	40	0.67
NA16022	M	RK TYPE: QTZ-MUSC SCHIST AND QTZ VEIN	10	-0.2	1.6	4	-10	170	-0.5	2	0.09	-0.5	5	23	113	3.6	-10	1	0.13	20	0.35
NA16023	M	SOME LOESS, APPROX 25%. RK TYPE: QTZ-FEL (RARE BIO) LORNE'S RHY UNIT.	4	-0.2	2.85	9	-10	300	0.5	-2	0.14	-0.5	9	42	78	3.1	10	1	0.05	10	0.47
NA16024	M	RK TYPE: BIO-QTZ SCHIST, MINOR LIMONITE SPECKS	90	0.8	2.93	8	-10	360	0.6	2	0.09	-0.5	7	10	1420	5.91	10	1	0.92	40	0.91
NA16025	M	RK TYPE: QTZ-BIO SCHIST, RARE TO MINOR LIM, SPECKS BUT NO GREAT COLOR. APPROX. 20% LOESS. SOLIFLUCTED COLLUVIUM. OVERALL A GOOD SAMPLE.	21	-0.2	2.43	4	-10	670	-0.5	2	0.17	-0.5	31	31	620	3.63	10	1	0.33	20	0.91
NA16026	M	RK TYPE: BIO-MUS-QTZ SCHIST =PORTION OF SAMPLE NEAR SURFACE (TO 0.3M) IS ORANGE-LIMONITE COLOR. SOLIFLUCTED COLLUVIUM. FROST IS NOT PERMAFROST BUT IS SURROUNDED BY PERMAFROST.	8	0.6	4.53	2	-10	90	-0.5	4	0.05	-0.5	4	11	801	5.73	10	1	1.08	60	0.95
NA16027	H	RK TYPE: MUS-QTZ SCHIST (PHYLLIC ALT?)=LIMONITIC ORANGE COLORED SL. VERY GOOD SAMPLE! DUPE OF 16028	5	-0.2	2.61	-2	-10	350	0.6	3	0.17	-0.5	3	8	560	6.59	10	1	0.36	50	0.37
NA16029	H	RK TYPE: MUS-QTZ SCHIST. MIGHTY ALT (PHYLLIC AND LEA?) LIM/HEM AFTER PY, MUSC RICH (100%) 10CM HORIZON IN SAMPLE. ON THE SIDE OF A MINI RIDGE. VERY GOOD SAMPLE	15	0.2	0.95	-2	-10	140	-0.5	4	0.04	-0.5	1	3	278	8.99	-10	1	0.44	20	0.08

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA16008	176	8	0.03	14	620	9	0.14	-2	6	60	0.11	-10	-10	61	-10	43
NA16010	174	5	0.08	7	520	9	0.68	-2	6	79	0.1	-10	-10	68	-10	51
NA16011	524	35	0.03	5	810	28	0.59	-2	8	138	0.17	-10	10	65	-10	131
NA16012	363	16	0.11	7	800	27	1.52	2	9	165	0.11	-10	-10	69	-10	88
NA16013	830	11	0.32	11	1160	8	3.95	-2	28	110	0.23	-10	-10	192	-10	116
NA16014	481	1	0.13	9	650	13	1.36	-2	10	148	0.18	-10	-10	114	-10	126
NA16015	606	2	0.03	9	850	15	0.31	-2	8	347	0.14	-10	10	98	-10	172
NA16016	939	2	0.02	15	1080	9	0.56	-2	14	74	0.15	-10	-10	146	-10	213
NA16017	264	1	0.02	26	240	16	0.03	-2	5	26	0.17	-10	-10	54	-10	78
NA16018	731	1	0.01	32	650	15	0.01	-2	4	22	0.17	-10	-10	79	-10	101
NA16019	642	2	0.02	55	1050	43	0.1	-2	7	32	0.2	-10	-10	55	-10	226
NA16020	458	1	0.01	20	310	25	0.02	-2	4	24	0.09	-10	-10	56	-10	143
NA16021	209	4	0.02	8	470	8	0.21	-2	4	47	0.12	-10	-10	47	-10	57
NA16022	156	2	0.05	12	250	7	0.33	-2	3	27	0.09	-10	-10	52	-10	37
NA16023	202	1	0.01	26	180	10	0.03	-2	4	21	0.11	-10	-10	75	-10	56
NA16024	318	11	0.01	6	930	11	0.29	-2	8	42	0.2	-10	-10	81	-10	103
NA16025	726	5	0.02	16	500	6	0.17	-2	7	26	0.17	-10	-10	87	-10	97
NA16026	274	45	0.2	4	870	18	2.09	-2	12	228	0.09	-10	-10	101	-10	82
NA16027	91	6	0.12	9	960	10	0.96	-2	6	244	0.07	-10	-10	59	-10	43
NA16029	16	24	0.3	-1	490	11	2	-2	3	59	0.01	-10	-10	28	-10	7

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA16030	570223	7056173	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.75	M		B	M	M	G	COL	P	SCH
NA16033	570360	7056601	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.9	M		B	M	M	M	COL	N	SCH
NA16034	570287	7056537	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.75	M		B	M	M	M	COL	N	SCH
NA16035	570224	7056464	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.25	M	5	B	M	L	G	COL	N	SCH
NA16036	570150	7056386	NAD83, Z 7	HULSTEIN	20030815	BN	QE	0.75	M		B	M	M	G	COL	N	SCH
NA16037	570015	7056116	NAD83, Z 7	HULSTEIN	20030815	OR	QE	0.6	M		B	M	M	G	BDR	N	SCH
NA16038	569867	7056095	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.8	M	5	B	M	H	M	COL	P	SCH
NA16039	569795	7056038	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.6	M	5	B	M	H	G	COL	P	SCH
NA16040	569722	7055963	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16041	569657	7055896	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.6	M		B	M	M	S	COL	N	SCH
NA16042	569585	7055830	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.5	M	5	B	M	M	M	COL	P	SCH
NA16043	569576	7055784	NAD83, Z 7	HULSTEIN	20030816	BF	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16044	572554	7047005	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.6	M		B	M	M	S	COL	N	SCH
NA16045	572657	7046998	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.8	M		B	M	M	M	COL	N	SCH
NA16046	572750	7047003	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16047	572952	7046997	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.5	M		B	M	M	S	COL	N	SCH
NA16048	573056	7047001	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16049	573155	7047000	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.4	M		B	M	M	S	COL	N	SCH
NA16157	576991	7046844	NAD83, Z 7	FRANKLIN	20030819	TA	GY	0.98	M	1	C	L	L	F	BDR	N	SCH
NA16158	577076	7046900	NAD83, Z 7	FRANKLIN	20030819	TA	QE	0.68	M	1	C	L	L	G	BDR	N	SCH
NA16159	576713	7048116	NAD83, Z 7	FRANKLIN	20030819	BN	QL	0.85	M	1	C	L	L	G	BDR	N	SCH
NA16160	576626	7048058	NAD83, Z 7	FRANKLIN	20030819	BN	QL	0.68	M	0	C	L	L	F	BDR	N	SCH
NA16161	576800	7048171	NAD83, Z 7	FRANKLIN	20030819	BF	TA	0.53	M	1	C	L	L	F	BDR	N	SCH
NA16162	577131	7048398	NAD83, Z 7	FRANKLIN	20030819	BN	QE	0.8	M	5	C	L	M	G	COL	N	SCH
NA16163	577204	7048448	NAD83, Z 7	FRANKLIN	20030819	GN	BN	0.75	M	3	C	L	H	G	COL	N	SCH
NA16164	577294	7048513	NAD83, Z 7	FRANKLIN	20030819	GN	TA	1	M	2	C	M	H	G	COL	N	SCH
NA16165	577900	7045524	NAD83, Z 7	FRANKLIN	20030820	TA	QD	0.7	M	2	C	L	L	M	BDR	N	SCH
NA16166	578046	7045615	NAD83, Z 7	FRANKLIN	20030820	BN	QE	0.9	M	1	C	L	L	G	BDR	N	SCH
NA16167	578155	7045709	NAD83, Z 7	FRANKLIN	20030820	BN	QE	0.6	M	1	C	L	L	G	BDR	N	SCH
NA16168	578213	7045255	NAD83, Z 7	FRANKLIN	20030820	BF	BN	0.55	M	2	C	L	L	F	BDR	N	GNE

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA16030	M	SOME LOESS, APPROX 15%. RK TYPE: QTZ-BIO SCHIST, MINOR LIM SPECKS.	5	-0.2	1.5	4	-10	300	-0.5	-2	0.43	-0.5	6	22	94	2.62	-10	-1	0.15	20	0.5
NA16033	M	RK TYPE: QTZ-BIO SCHIST. 50M @ 235 DEGREES TO S. RYAN SL# 13250N/3950E	3	-0.2	3.38	-2	-10	730	-0.5	-2	0.7	0.8	17	29	70	4.11	10	1	1.07	10	1.45
NA16034	M	RK TYPE: QTZ-BIO SCHIST	11	0.4	4.54	-2	-10	350	-0.5	8	0.33	-0.5	6	34	278	6.62	10	1	1.19	20	1.32
NA16035	L	SOME LOESS PRESENT IN SAMPLE. RK TYPE: QTZ-BIO SCHIST	6	-0.2	2.36	-2	-10	440	-0.5	2	0.39	-0.5	9	18	39	2.97	10	1	0.72	10	0.96
NA16036	M	RK TYPE: QTZ-BIO SCHIST	2	0.2	3.86	-2	-10	650	0.5	3	0.62	-0.5	19	30	171	5.3	10	1	1.25	20	1.73
NA16037	H	RK TYPE: QTZ-MUSC (PHYLLIC ALT(?) ANT LEA) ENVIRONMENT-NW END OF MINI RIDGE	30	0.3	1.51	-2	-10	160	-0.5	3	0.06	-0.5	2	8	331	7.96	-10	-1	0.33	20	0.16
NA16038	L	SOLIFLUCTED COLLUVIUM. APPROX. 40% LOESS.	11	-0.2	1.84	5	-10	680	-0.5	2	0.34	-0.5	7	24	163	2.7	-10	-1	0.11	20	0.56
NA16039	L	SOLIFLUCTED COLLUVIUM. APPROX. 40% LOESS?	26	-0.2	1.79	3	-10	370	-0.5	-2	0.32	-0.5	9	27	139	2.72	-10	1	0.07	20	0.52
NA16040	L	SOLIFLUCTED COLLUVIUM. APPROX. 25% LOESS.	10	-0.2	1.67	2	-10	200	-0.5	-2	0.21	-0.5	8	22	190	2.49	10	1	0.11	20	0.49
NA16041	M	RK TYPE: SCHIST. MINOR LIMONITE COLOUR. SOLIFLUCTED COLLUVIUM.	4	-0.2	2.02	2	-10	350	-0.5	4	0.26	-0.5	5	12	85	3.66	10	-1	0.53	60	0.67
NA16042	L	RK TYPE: SCHIST. APPROX 30% LOESS. SOLIFLUCTED COLLUVIUM.	11	-0.2	1.82	3	-10	1860	-0.5	-2	0.33	-0.5	9	23	569	2.96	10	1	0.18	20	0.62
NA16043	M	RK TYPE: QTZ-MUSC SCHIST. MINOR LIM ON PEBBLES. SANDY SL. SOLIFLUCTED COLLUVIUM. FLOAT OF LORNE'S RHY UNIT.	3	-0.2	1.49	-2	-10	400	-0.5	-2	0.18	-0.5	6	22	443	2.94	-10	-1	0.37	20	0.5
NA16044	M	RK TYPE: BIO RICH SCHIST. AT BASE OF HILL	1	-0.2	4.07	3	-10	230	0.8	2	1.56	-0.5	11	22	94	4.82	20	1	0.61	10	0.75
NA16045	M	RK TYPE: BIO RICH SCHIST. AND MORE CLY THAN USUAL, MINOR LIM SPECKS.	4	-0.2	4.78	-2	-10	430	0.9	2	1.4	-0.5	15	12	37	6.64	20	-1	0.7	20	1.11
NA16046	M	RK TYPE: BIO RICH SCHIST. SANDY SL.	4	-0.2	2.03	3	-10	280	-0.5	-2	0.86	-0.5	6	13	22	3.69	10	1	0.26	10	0.73
NA16047	M	RK TYPE: BIO RICH SCHIST. SOLIFLUCTED COLLUVIUM. MINOR LOESS WITH SAMPLE.	4	-0.2	2.4	3	-10	300	-0.5	-2	0.69	-0.5	19	20	64	4.54	10	-1	0.12	20	0.98
NA16048	M	RK TYPE: SCHIST AND POSSIBLY SOME AMP. POSSIBLY SOME LOESS IN SAMPLE.	1	-0.2	2.99	5	-10	340	-0.5	-2	0.5	-0.5	11	16	31	5.85	10	-1	0.22	20	1.14
NA16049	M	RK TYPE: BIO RICH SCHIST.	-1	-0.2	2.93	-2	-10	420	0.5	-2	0.23	-0.5	8	18	54	5.34	10	-1	0.66	20	0.9
NA16157	H	HAND AUGER. MUS-QTZ-FEL SCHIST.	4	0.2	2.55	-2	-10	510	0.8	-2	0.11	-0.5	7	43	64	4.45	10	-1	1	50	1.34
NA16158	H	H. AUGER. BIO-QTZ-FEL SCHIST.	2	-0.2	2.58	-2	-10	780	-0.5	-2	0.48	-0.5	23	118	30	4.06	10	-1	1.02	10	1.87
NA16159	H	MUS-BIO-QTZ-FEL SCHIST. V. MICACEOUS SOIL.	2	-0.2	2.73	-2	-10	320	0.8	-2	0.18	-0.5	22	37	85	5.06	10	-1	1.04	70	1.11
NA16160	H	BIO-QTZ-FEL SCHIST	2	-0.2	2.14	4	-10	850	0.5	-2	0.33	-0.5	8	22	22	3.24	10	-1	0.36	20	1.02
NA16161	H	MUS-BIO-QTZ-FEL SCHIST.	3	-0.2	3.26	-2	-10	240	0.9	-2	0.17	-0.5	18	37	28	5.01	10	-1	1.16	20	1.28
NA16162	H		2	-0.2	3.01	5	-10	370	0.7	-2	0.53	-0.5	21	63	90	4.75	10	-1	1.2	50	1.84
NA16163	H	TRANSPORTED SOIL, VERY WET HERE, SURROUNDED BY PERMAFROST. BIO SCHIST, V. MICACEOUS SOIL	3	-0.2	3.15	4	-10	520	0.6	-2	0.67	-0.5	32	207	102	5.15	10	-1	1.3	30	2.3
NA16164	L	TRANSPORTED SOIL, COULDN'T GET BELOW ROCK LAYER. SCHIST AS BEFORE.	2	-0.2	2.04	4	-10	470	0.6	-2	0.35	-0.5	14	35	36	3.64	10	-1	0.66	40	0.9
NA16165	M	BIO-QTZ-FEL SCHIST. SOME LOESS CONTAMINATION	1	-0.2	3.16	8	-10	270	0.7	-2	0.4	-0.5	16	56	67	5.04	10	-1	1.28	30	1.32
NA16166	H	BIO-QTZ-FEL SCHIST	2	-0.2	3.25	-2	-10	230	0.5	-2	0.59	-0.5	23	23	49	5.66	10	-1	1.42	30	1.98
NA16167	H	BIO-QTZ-FEL SCHIST.	2	-0.2	3.54	5	-10	200	-0.5	-2	0.28	-0.5	21	29	55	5.71	10	-1	1.52	10	1.96
NA16168	M	P. AUGER TO .55M. HIT BDRK. SOME LOE4SS CONTAMINATION. NOT MANY ROCK FRAGS, BUT LOOKS LIKE ORTHOGNEISS (BIO-QTZ-FEL GNEISS)	1	-0.2	3.41	-2	-10	340	-0.5	-2	0.36	-0.5	22	28	29	4.98	10	-1	1.52	10	2.33

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA16030	247	2	0.03	12	630	11	0.12	-2	5	56	0.12	-10	-10	59	-10	58
NA16033	1265	2	0.02	13	860	31	0.02	-2	7	116	0.24	-10	-10	118	-10	351
NA16034	591	3	0.05	13	630	33	0.73	-2	18	213	0.16	-10	-10	166	-10	300
NA16035	822	1	0.02	10	500	14	0.03	-2	6	65	0.21	-10	-10	82	-10	146
NA16036	829	2	0.02	13	850	12	0.05	2	11	89	0.24	-10	-10	147	-10	203
NA16037	45	47	0.23	1	220	16	1.46	-2	4	75	0.03	-10	-10	32	-10	14
NA16038	220	3	0.02	16	760	10	0.08	-2	5	45	0.13	-10	-10	55	-10	71
NA16039	255	1	0.02	17	740	11	0.02	-2	5	32	0.14	-10	-10	60	-10	67
NA16040	225	1	0.01	15	460	8	0.04	-2	4	28	0.12	-10	-10	54	-10	67
NA16041	305	2	0.02	7	660	9	0.29	-2	6	74	0.13	-10	-10	48	-10	59
NA16042	259	2	0.02	14	710	11	0.15	-2	7	61	0.12	-10	-10	67	-10	81
NA16043	152	1	0.09	9	360	7	0.74	-2	5	53	0.09	-10	-10	54	-10	50
NA16044	755	1	0.02	12	2270	9	0.01	2	11	107	0.26	-10	-10	72	-10	353
NA16045	1290	1	0.05	12	2250	2	0.01	-2	20	64	0.33	-10	-10	152	-10	133
NA16046	464	-1	0.06	12	1990	6	-0.01	-2	12	27	0.17	-10	-10	56	-10	73
NA16047	735	1	0.04	17	770	7	0.03	-2	10	43	0.16	-10	-10	103	-10	122
NA16048	425	1	0.07	14	1370	8	0.28	-2	16	55	0.15	-10	-10	109	-10	52
NA16049	376	2	0.02	15	710	4	0.13	-2	12	42	0.22	-10	-10	50	-10	106
NA16157	268	3	0.04	20	860	12	0.37	-2	5	47	0.18	10	-10	73	-10	112
NA16158	610	2	0.02	28	920	7	0.03	-2	7	18	0.33	-10	-10	89	-10	120
NA16159	419	1	0.01	44	390	13	0.05	-2	8	19	0.3	10	-10	47	-10	118
NA16160	525	2	0.01	18	300	12	0.01	-2	6	19	0.14	-10	-10	38	-10	112
NA16161	303	1	0.01	38	690	12	0.01	-2	5	9	0.3	-10	-10	46	-10	108
NA16162	356	4	0.02	43	1100	7	0.11	-2	8	48	0.31	10	-10	94	-10	53
NA16163	1020	2	0.02	240	860	20	0.01	-2	6	31	0.3	-10	-10	60	-10	237
NA16164	570	1	0.01	31	650	9	0.01	-2	6	19	0.2	-10	-10	46	-10	148
NA16165	344	2	0.02	35	640	19	0.01	-2	7	53	0.35	-10	-10	72	-10	88
NA16166	907	3	0.02	13	680	8	0.01	-2	6	27	0.29	-10	-10	119	-10	115
NA16167	881	-1	0.01	13	410	3	0.01	-2	5	15	0.28	-10	-10	133	-10	80
NA16168	742	1	0.02	12	290	3	-0.01	-2	3	23	0.31	10	-10	116	-10	76

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA16169	578629	7045539	NAD83, Z 7	FRANKLIN	20030820	TA	QL	0.7	M	3	C	L	L	M	BDR	N	GNE
NA16400	572352	7047005	NAD83, Z 7	HULSTEIN	20030816	YW	QL	0.5	M		B	M	M	S	COL	N	SCH
NA16401	572255	7047000	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.6	M		B	M	M	S	COL	N	SCH
NA16402	572160	7047025	NAD83, Z 7	HULSTEIN	20030816	BF	QL	1.1	M		C	M	L	M	COL	N	SCH
NA16403	572248	7046796	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.2	M	4	B	M	H	S	COL	P	SCH
NA16404	572354	7046799	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA16405	572451	7046799	NAD83, Z 7	HULSTEIN	20030816	BN	QE	0.7	M		B	M	H	M	COL	P	SCH
NA16407	571404	7049103	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.3	M		B	M	L	M	COL	N	SCH
NA16408	571449	7049202	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.7	M		B	M	L	S	COL	N	SCH
NA16409	571498	7049096	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	S	COL	N	SCH
NA16410	571598	7049100	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	S	COL	N	SCH
NA16411	571601	7048901	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	S	COL	N	SCH
NA16412	571698	7048898	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	S	COL	N	SCH
NA16413	571608	7048702	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.5	M	5	B	M	H	S	COL	P	AMP
NA16414	571698	7048700	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M	5	B	M	M	S	COL	P	SCH
NA16415	571795	7048695	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	M	G	ALV	P	SCH
NA16416	571700	7048506	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.8	M		B	M	M	M	COL	N	SCH
NA16417	571799	7048498	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.8	M		B	M	M	M	COL	N	SCH
NA16418	571880	7048502	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	M	COL	N	SCH
NA16419	571300	7048498	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	G	COL	N	SCH
NA16420	571400	7048502	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	G	COL	N	SCH
NA16421	571499	7048497	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.5	M		B	M	L	M	COL	N	AMP
NA16422	571599	7048499	NAD83, Z 7	HULSTEIN	20030817	OL	QE	0.7	M		B	M	L	M	COL	N	AMP
NA16423	571499	7048302	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.4	M		B	M	L	M	COL	N	SCH
NA16424	571604	7048302	NAD83, Z 7	HULSTEIN	20030817	OR	QE	0.7	M		B	M	L	M	COL	N	SCH
NA16425	571702	7048303	NAD83, Z 7	HULSTEIN	20030817	BN	QE	1	M		B	M	M	M	COL	N	SCH
NA16426	571800	7048302	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.8	M		C	M	M	G	COL	N	SCH
NA16427	571900	7048300	NAD83, Z 7	HULSTEIN	20030817	BN	QE	0.5	M		B	M	L	S	COL	N	SCH
NA16428	571600	7048099	NAD83, Z 7	HULSTEIN	20030818	BN	QE	0.6	M		B	M	L	S	COL	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA16169	L	P. AUGER TO .7M, HIT BDRK. SOME LOESS CONTAMINATION, NOT MUCH SOIL DEVELOPMENT. BIO-QTZ-FEL GNEISS, ORTHOGNEISS.	1	-0.2	3.24	5	-10	210	0.6	-2	0.6	-0.5	18	28	46	4.61	10	-1	1.2	10	1.72
NA16400	M	RK TYPE: QTZ-MUS SCHIST. NEXT (LESS THAN 3M) TO S. RYAN PIT. APPROX 0.3M DEEP. NUMBER IS LJ019547.	19	1	2.82	-2	-10	120	0.9	4	0.73	-0.5	6	34	325	6.72	10	-1	0.92	70	1
NA16401	M	RK TYPE: BIO-MUS-QTZ SCHIST.	2	-0.2	3.47	-2	-10	300	0.7	2	1.06	-0.5	19	117	31	4.31	10	1	0.23	10	1.46
NA16402	H	RK TYPE: MUS SCHIST. APPROX 70% C HORIZON WITH 30% BRN B HORIZON INCLUDING SOME LOESS (APPROX 10% OVERALL). NEXT TO S. RYAN SL PIT #LJ019501.	3	-0.2	1.68	2	-10	240	-0.5	2	0.46	-0.5	9	18	23	2.54	10	-1	0.1	40	0.62
NA16403	M	RK TYPE: QTZ-BIO SCHIST	5	-0.2	2.24	5	-10	210	-0.5	-2	0.56	-0.5	11	22	29	3.6	10	-1	0.09	10	0.8
NA16404	H	RK TYPE: QTZ-MUS-BIO SCHIST. LIMONITE COLOR SL. 10M EAST OF S. RYAN L3250N/2600E.	3	0.2	2.19	9	-10	680	0.9	-2	0.84	0.9	12	47	80	4.22	10	-1	0.35	30	1.23
NA16405	M	DUPE OF NA16406	39	0.6	2.48	7	-10	600	0.7	-2	0.7	0.5	8	39	751	4.89	10	-1	0.42	30	1.28
NA16407	M	RK TYPE: QTZ-MUS SCHIST. SOME LOESS? IN SAMPLE	7	0.5	2.92	7	-10	150	0.6	-2	0.3	0.6	34	18	2450	4.45	10	-1	0.12	30	0.93
NA16408	M	SOME LOESS? IN SAMPLE. RK TYPE: QTZ-MUS SCHIST	20	0.3	2.05	6	-10	150	-0.5	-2	0.23	-0.5	7	22	131	3.16	10	1	0.09	20	0.58
NA16409	M	SOME LOESS IN SAMPLE. RK TYPE: QTZ-MUS SCHIST	4	-0.2	2.02	7	-10	150	0.5	-2	0.23	-0.5	9	25	65	2.94	10	-1	0.12	20	0.53
NA16410	M	SOME LOESS IN SAMPLE. RK TYPE: QTZ-MUS SCHIST.	1	-0.2	2.52	6	-10	90	0.5	-2	0.47	-0.5	6	18	27	2.82	10	-1	0.13	10	0.57
NA16411	M	SOME LOESS IN SAMPLE. RK TYPE: QTZ-MUS-BIO SCHIST	2	0.2	2.36	5	-10	110	0.9	-2	0.25	-0.5	9	22	42	3.77	10	-1	0.2	40	0.54
NA16412	M	SOME LOESS IN SAMPLE. RK TYPE: QTZ-MUS-BIO SCHIST.	1	-0.2	2.66	8	-10	120	0.7	-2	0.83	-0.5	8	21	16	2.7	10	-1	0.23	20	0.58
NA16413	M	SOME LOESS IN SAMPLE (LESS THAN 20%?).	3	-0.2	2.59	4	-10	180	-0.5	-2	0.74	-0.5	28	11	48	5.19	10	-1	0.21	10	0.93
NA16414	M	MINOR LOESS IN SAMPLE. 100DEGREES AND 60M TO LJ019540.	72	2.2	2.39	6	-10	390	0.6	2	0.2	0.6	14	66	1070	5.65	10	-1	0.47	30	1.02
NA16415	M	ALLUVIUM-OUTWASH FAN	4	-0.2	1.2	4	-10	100	-0.5	-2	0.12	0.5	7	10	65	2.49	10	-1	0.09	20	0.3
NA16416	H	RK TYPE: QTZ-BIO-MUS SCHIST	3	0.2	1.62	2	-10	390	0.5	-2	0.4	-0.5	12	35	66	3.09	10	-1	0.31	40	0.73
NA16417	H	RK TYPE: QTZ-BIO SCHIST. APPROX. 25M AT 090 TO S. RYAN #5000N/2600E.	6	0.3	3.2	-2	-10	140	1	-2	1.53	0.6	8	18	99	2.66	10	-1	0.26	40	0.64
NA16418	M	POSSIBLY SOME LOESS IN SAMPLE. SAMPLE TAKEN AT BASE OF HILL	9	0.3	2.64	3	-10	150	0.8	-2	1.13	0.5	6	21	165	2.48	10	-1	0.23	30	0.65
NA16419	M	POSSIBLY SOME LOESS. RK TYPE: BIO-SCHIST. LORNE'S RHY (FLOAT) NEARBY	1	-0.2	4.36	2	-10	430	0.6	-2	0.77	-0.5	16	41	97	4.93	20	-1	0.31	10	1.76
NA16420	M	SOME LOESS? -VERY DRY-POWDER SAMPLE	2	-0.2	2.36	5	-10	290	-0.5	-2	0.4	-0.5	8	18	18	3.58	10	1	0.19	10	0.74
NA16421	M	LIM SPECKS	5	-0.2	2.59	4	-10	330	-0.5	-2	0.57	-0.5	16	44	73	6.59	10	-1	0.29	20	1.16
NA16422	M	LIM SPECKS	2	-0.2	3.13	2	-10	130	-0.5	-2	1.06	0.5	11	7	45	5.79	10	1	0.1	10	1.18
NA16423	M		1	-0.2	3.19	4	-10	230	0.8	-2	0.63	-0.5	10	20	20	4.06	10	1	0.43	20	0.84
NA16424	H	RK TYPE: SCHIST. FAULT BRECCIA AMP?	2	-0.2	3.64	5	-10	170	0.6	-2	0.73	-0.5	29	47	64	5.31	10	-1	0.08	20	1.08
NA16425	M	RK TYPE: SCHIST. LIMONITE SPECKS AND ORANGE-BRN COLOR DEBREASING WITH DEPTH. (O.8M LOESS)	3	0.2	2.93	3	-10	190	-0.5	-2	0.67	-0.5	8	10	54	6.49	10	-1	0.11	10	1.21
NA16426	H	RK TYPE: BIO-MUS SCHIST AND CLY	403	1.8	1.82	2	-10	320	0.5	12	0.36	0.7	8	36	1060	4.67	10	-1	0.62	70	0.88
NA16427	M		60	0.5	2.47	4	-10	300	0.7	3	0.86	0.5	7	25	209	2.86	10	1	0.26	30	0.68
NA16428	M	SOME LOESS? RK TYPE: QTZ-BIO SCHIST. MINOR LIMONITE WITH SCHIST.	4	-0.2	2.89	7	-10	280	0.7	-2	0.94	0.7	10	25	34	4.08	10	-1	0.41	20	0.89

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA16169	776	3	0.02	16	740	8	-0.01	-2	6	35	0.25	-10	-10	100	-10	89
NA16400	507	9	0.09	12	700	30	1.73	-2	6	178	0.14	-10	10	51	-10	169
NA16401	679	1	0.03	21	960	24	0.01	-2	12	89	0.09	-10	-10	124	-10	147
NA16402	711	1	0.02	14	800	8	0.02	-2	7	31	0.09	-10	-10	55	-10	61
NA16403	476	4	0.02	14	590	6	0.02	-2	8	36	0.1	-10	-10	78	-10	83
NA16404	661	6	0.01	57	2390	27	-0.01	-2	7	28	0.1	-10	-10	92	-10	252
NA16405	803	9	0.03	21	1560	59	0.36	2	11	49	0.09	-10	-10	94	-10	196
NA16407	1175	10	0.01	26	850	11	0.02	-2	7	31	0.14	-10	-10	73	-10	192
NA16408	305	4	0.01	12	210	15	0.02	-2	4	25	0.08	-10	-10	52	-10	103
NA16409	359	3	0.01	15	240	18	0.02	-2	4	23	0.11	-10	-10	54	-10	78
NA16410	302	3	0.01	11	230	8	0.01	-2	3	40	0.13	-10	-10	54	-10	71
NA16411	368	4	0.01	13	380	12	0.03	-2	4	32	0.12	-10	-10	53	-10	164
NA16412	416	3	0.01	13	380	7	0.01	-2	4	73	0.13	-10	-10	51	-10	63
NA16413	775	4	0.06	10	1600	6	0.08	-2	13	28	0.15	-10	-10	134	-10	136
NA16414	424	20	0.03	45	980	15	0.53	-2	8	37	0.06	-10	-10	69	-10	137
NA16415	475	5	0.01	7	320	9	0.02	-2	3	14	0.07	-10	-10	45	-10	68
NA16416	269	4	0.02	30	930	8	0.13	-2	5	37	0.1	-10	-10	63	-10	100
NA16417	499	5	0.01	8	650	14	0.03	-2	4	124	0.12	-10	-10	43	-10	144
NA16418	356	6	0.02	11	520	11	0.03	-2	4	106	0.11	-10	-10	46	-10	100
NA16419	510	4	0.03	20	430	5	-0.01	-2	9	172	0.36	-10	-10	138	-10	142
NA16420	226	3	0.02	14	340	4	0.04	-2	7	61	0.17	-10	-10	87	-10	48
NA16421	309	6	0.17	23	860	4	0.71	-2	14	98	0.18	-10	-10	134	-10	48
NA16422	495	4	0.12	6	2030	8	0.17	-2	15	64	0.18	-10	-10	103	-10	139
NA16423	538	4	0.02	15	380	6	0.01	-2	8	67	0.23	-10	-10	67	-10	94
NA16424	502	6	0.06	26	370	7	0.13	-2	19	139	0.18	-10	-10	141	-10	95
NA16425	461	4	0.17	7	950	5	0.43	-2	17	65	0.17	-10	-10	170	-10	100
NA16426	202	5	0.02	34	1370	36	0.47	-2	4	55	0.07	-10	-10	53	-10	167
NA16427	279	5	0.01	16	570	10	0.06	-2	4	78	0.11	-10	-10	57	-10	104
NA16428	794	4	0.02	17	720	6	0.01	-2	12	65	0.21	-10	-10	73	-10	415

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA16429	571689	7048095	NAD83, Z 7	HULSTEIN	20030818	OL	QE	0.5	M		B	M	L	M	COL	N	AMP
NA16431	571900	7048095	NAD83, Z 7	HULSTEIN	20030818	BN	QE	0.4	M		B	M	L	M	COL	N	SCH
NA16432	577220	7046517	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	M	G	BDR	N	SCH
NA16433	577302	7046571	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.7	M		B	M	M	G	BDR	N	SCH
NA16434	577385	7046630	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	H	M	COL	N	SCH
NA16435	577467	7046690	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16436	577546	7046742	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.75	M		B	M	M	G	COL	N	SCH
NA16437	577632	7046801	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.3	M		B	M	M	M	COL	N	SCH
NA16438	577712	7046856	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16439	577795	7046918	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.7	M		B	M	M	M	COL	N	SCH
NA16440	577876	7046973	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16441	577960	7047028	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16442	578038	7047089	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.3	M		B	M	M	M	COL	N	SCH
NA16443	578120	7047146	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.6	M		B	M	M	M	COL	N	SCH
NA16444	578201	7047201	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.3	M		B	M	M	M	COL	N	GNE
NA16445	578287	7047260	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.4	M		B	M	M	M	COL	N	GNE
NA16446	576568	7048502	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.25	M		B	M	M	G	COL	N	SCH
NA16447	576488	7048442	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.35	M		B	M	M	G	COL	N	SCH
NA16448	576402	7048383	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	M	M	COL	N	SCH
NA16449	576320	7048326	NAD83, Z 7	HULSTEIN	20030819	BN	QE	0.5	M		B	M	M	M	COL	P	SCH
NA16450	577452	7046189	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.3	M	0	B	M	M	M	COL	N	SCH
NA16451	577531	7046243	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.6	M	0	B	M	M	M	COL	N	SCH
NA16452	577613	7046304	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.5	M	5	B	M	M	S	COL	N	SCH
NA16453	577693	7046357	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.4	M	0	B	M	M	S	COL	N	SCH
NA16454	577776	7046424	NAD83, Z 7	HULSTEIN	20030820	BF	QE	0.75	M	0	B	M	M	M	COL	N	SCH
NA16455	577859	7046463	NAD83, Z 7	HULSTEIN	20030820	BN	QD	0.35	M	10	B	M	H	M	COL	P	SCH
NA16456	577943	7046531	NAD83, Z 7	HULSTEIN	20030820	BN	QD	0.5	M	5	B	M	M	M	COL	N	SCH
NA16457	578022	7046580	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.75	M	0	B	M	M	M	COL	N	SCH
NA16458	578107	7046644	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.6	M	0	B	M	M	M	COL	N	SCH
NA16459	578181	7046717	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.25	M	0	B	M	M	M	COL	N	GNE
NA16460	578270	7046757	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.6	M	0	B	M	M	M	COL	N	SCH
NA16461	578348	7046819	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.6	M	0	B	M	M	M	COL	N	SCH
NA16462	578433	7046876	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.6	M	0	B	M	M	M	COL	N	SCH
NA16463	578511	7046932	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.6	M	0	B	M	M	M	COL	N	SCH
NA16464	576538	7047501	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.4	M	0	B	M	L	M	COL	N	QZT
NA16465	576615	7047553	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.25	M	0	B	M	L	G	COL	N	QZT
NA16466	576694	7047611	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.4	M	0	B	M	M	G	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA16429	M	RK TYPE: AMP? AND SCHIST. DUPE OF NA16430	3	-0.2	3.1	5	-10	150	0.9	-2	1.44	0.5	19	144	31	3.77	10	1	0.19	10	1.34
NA16431	M	RK TYPE: QTZ-BIO SCHIST. MINOR OLIVE GREEN SOIL (AMP?) NEAR SURFACE.	611	-0.2	2.63	2	-10	410	0.5	-2	0.87	0.6	23	39	130	4.34	10	-1	0.48	20	1.76
NA16432	M	RK TYPE: DECOMPOSED BIO BEARING SCHIST	1	-0.2	2.77	-2	-10	890	-0.5	-2	0.57	-0.5	26	95	34	3.98	10	-1	0.7	30	1.43
NA16433	M	RK TYPE: BIO RICH SCHIST	1	-0.2	2.87	-2	-10	350	0.6	-2	0.43	-0.5	15	50	39	4.66	10	-1	1.06	30	1.2
NA16434	M	RK TYPE: BIO SCHIST	1	-0.2	3.11	10	10	320	1	-2	0.49	-0.5	22	71	86	5.5	10	-1	0.7	40	1.5
NA16435	M	RK TYPE: BIO RICH SCHIST	-1	-0.2	3.27	2	-10	360	0.9	-2	0.39	-0.5	20	51	36	5.28	10	-1	1.26	60	1.22
NA16436	H	ORANGE-BRN AND MORE CLY RICH. RK TYPE: BIO-MUSC SCHIST	2	-0.2	2.18	6	-10	210	0.6	-2	0.89	-0.5	13	26	29	2.77	10	-1	0.51	60	0.73
NA16437	L	LOESS. APPROX 40%? LIM/Fe STAINED NEAR SURFACE. ROCK TYPE: SCHIST? AND OR SKARN?	1	-0.2	2.08	6	10	190	0.7	-2	0.46	-0.5	12	43	25	4.93	10	-1	0.05	10	0.65
NA16438	L	SOME LOESS IN SAMPLE	2	-0.2	1.96	6	-10	200	0.6	-2	0.52	-0.5	11	46	21	3.5	10	-1	0.32	40	0.89
NA16439	M	RK TYPE: BIO-QTZ SCHIST. MINOR LIM COLOR.	4	-0.2	2.6	2	-10	220	0.7	-2	0.72	-0.5	10	14	27	3.5	10	-1	0.42	50	1.28
NA16440	M	SOME LOESS IN SAMPLE	2	-0.2	2.07	4	-10	180	-0.5	-2	0.45	-0.5	13	24	16	3.58	10	-1	0.48	20	1.1
NA16441	M	RK TYPE: QTZ-BIO SCHIST (SOME AMP?) SOLIFLUCTED COLLUVIUM	2	-0.2	2.61	5	-10	190	-0.5	-2	0.49	-0.5	17	24	48	4.18	10	-1	0.83	10	1.48
NA16442	M	RK TYPE QTZ-FEL-BIO SCHIST (BOULDERS FLOAT) SOLIFLUCTED COLLUVIUM	2	-0.2	2.26	2	-10	160	-0.5	-2	0.35	-0.5	14	23	26	3.78	10	-1	0.53	10	1.3
NA16443	M	SOLIFLUCTED COLLUVIUM	5	-0.2	2.17	4	-10	150	-0.5	-2	0.32	-0.5	12	22	20	3.68	10	-1	0.43	10	1.15
NA16444	M	RK TYPE: GNEISS. QTZ-FEL-BIO ORTHOGNEISS. BOULDER FIELD.	2	-0.2	2.12	3	-10	120	-0.5	-2	0.26	-0.5	12	21	22	3.7	10	-1	0.49	10	1.14
NA16445	M	RK TYPE: GNEISS, QTZ-FEL-BIO ORTHOGNEISS. SCREE.	4	-0.2	2.22	4	-10	140	-0.5	-2	0.38	-0.5	16	19	27	3.83	10	-1	0.64	10	1.2
NA16446	L	RK TYPE: QTZ-BIO SCHIST	5	-0.2	2.58	3	-10	260	0.6	-2	0.18	-0.5	15	36	24	3.92	10	-1	0.6	20	0.86
NA16447	M	RK TYPE: BIO SCHIST	2	0.2	2.81	2	-10	230	0.6	-2	0.4	0.5	17	41	49	5.21	10	-1	1.32	50	1.24
NA16448	M	RK TYPE: QTZ-BIO SCHIST	1	-0.2	2.51	4	-10	260	0.5	-2	0.34	-0.5	14	82	19	3.64	10	-1	0.5	20	1.34
NA16449	L		1	-0.2	2	4	-10	270	-0.5	-2	0.57	-0.5	12	22	21	3.42	10	-1	0.32	20	0.96
NA16450	L	QTZ-BIO SCHIST; SOLIFLUCTED	3	0.2	2.44	4	-10	320	0.7	-2	0.29	-0.5	13	34	47	3.98	10	-1	0.43	40	0.88
NA16451	M	QTZ-BIO SCHIST	0	0.5	2.66	4	-10	1930	0.7	-2	0.33	-0.5	14	42	31	4.39	10	-1	0.86	30	1.06
NA16452	M	SOLIFLUCTED	5	0.6	2.01	6	-10	360	-0.5	-2	0.36	-0.5	11	32	22	3.3	10	-1	0.22	20	0.72
NA16453	L	SOLIFLUCTED	3	0.3	1.9	7	-10	370	0.7	-2	0.58	0.9	13	30	23	3.57	10	-1	0.09	20	0.62
NA16454	M	SOLIFLUCTED, SLIGHT LIMONITIC COLOR, SANDY SOIL	4	0.2	2.49	2	-10	240	0.5	-2	0.95	-0.5	9	92	18	2.74	10	-1	0.43	20	1.7
NA16455	L	~25% LOESS	7	0.2	1.67	3	-10	240	-0.5	-2	0.54	-0.5	10	34	18	2.78	10	-1	0.18	40	0.67
NA16456	L	SOLIFLUCTED	4	-0.2	2.04	3	-10	190	-0.5	-2	0.64	-0.5	14	22	21	3.6	10	-1	0.6	20	1.18
NA16457	M	QTZ-BIO SCHIST	2	-0.2	3.42	2	10	270	-0.5	-2	0.81	-0.5	24	26	32	5.8	10	-1	1.43	20	2.54
NA16458	M	QTZ-FEL-BIO SCHIST (& POSSIBLY AMP?), RUSTY LIMONITIC BRN COLOR	1	-0.2	3.42	-2	10	160	0.6	-2	0.41	-0.5	25	33	24	5.9	10	-1	1.2	10	2.29
NA16459	M	ORTHOGNEISS	2	-0.2	2.85	4	-10	180	-0.5	-2	0.27	-0.5	18	25	28	4.81	10	-1	1.19	10	1.64
NA16460	M	QTZ-BIO SCHIST, MINOR LIM/RUSTY BRN COLOR; SOLIFLUCTED	1	-0.2	2.76	-2	-10	170	-0.5	-2	0.39	-0.5	20	13	34	4.42	10	-1	1.18	10	1.53
NA16461	M	SOLIFLUCTED	-1	-0.2	3.37	3	-10	190	-0.5	-2	0.41	-0.5	22	16	33	5.7	10	-1	1.25	10	2
NA16462	L	LOESS ~20%; SOLIFLUCTED	3	-0.2	2.21	7	-10	200	-0.5	-2	0.38	-0.5	14	23	29	3.91	10	-1	0.54	20	1.03
NA16463	L	SOME LOESS ~20%; SOLIFLUCTED	0	-0.2	2.12	3	-10	130	-0.5	2	0.39	-0.5	12	21	16	3.57	10	1	0.66	10	1.05
NA16464	L	~25% LOESS, SOLIFLUCTED	4	0.2	1.98	9	-10	360	0.6	-2	0.41	-0.5	11	52	63	3.51	10	-1	0.24	20	0.83
NA16465	L	SOLIFLUCTED	4	-0.2	1.58	13	-10	210	-0.5	-2	0.18	-0.5	9	31	38	3	10	1	0.09	20	0.58
NA16466	M		5	0.2	2.55	-2	-10	480	0.8	-2	0.11	-0.5	8	40	80	4.73	-10	-1	0.73	60	1.09

Lucky Joe 2003 Soil Geochemistry

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA16429	1235	4	0.02	61	800	12	-0.01	-2	11	110	0.22	-10	-10	94	-10	201
NA16431	516	4	0.03	37	2330	16	0.01	-2	11	29	0.18	-10	-10	120	-10	116
NA16432	595	2	0.03	34	590	7	-0.01	-2	10	34	0.24	-10	-10	96	-10	103
NA16433	516	1	0.02	32	560	18	0.01	-2	8	18	0.36	-10	-10	56	-10	217
NA16434	608	7	0.02	68	1090	16	0.15	-2	6	34	0.25	-10	-10	92	-10	198
NA16435	574	1	0.01	42	1130	6	0.01	-2	8	20	0.31	10	-10	61	-10	78
NA16436	217	1	0.03	29	1210	7	-0.01	-2	4	28	0.09	-10	-10	28	-10	36
NA16437	766	1	0.02	26	330	15	0.01	-2	6	25	0.13	-10	-10	58	-10	74
NA16438	408	1	0.02	28	460	6	0.01	-2	8	26	0.21	-10	-10	59	-10	51
NA16439	931	1	0.03	10	320	11	-0.01	-2	7	32	0.15	-10	-10	50	-10	209
NA16440	663	1	0.01	15	500	7	0.01	-2	4	22	0.2	-10	-10	76	-10	79
NA16441	735	2	0.01	13	700	17	0.01	-2	4	24	0.22	-10	-10	90	-10	114
NA16442	587	2	0.01	12	440	10	0.01	-2	3	20	0.23	-10	-10	93	-10	78
NA16443	496	2	0.01	11	340	8	-0.01	-2	4	19	0.21	-10	-10	90	-10	69
NA16444	518	2	0.01	11	430	7	0.01	-2	4	15	0.22	-10	-10	92	-10	72
NA16445	681	1	0.01	12	630	6	-0.01	-2	4	20	0.19	-10	-10	85	-10	77
NA16446	452	1	0.01	28	370	10	0.01	-2	6	12	0.22	-10	-10	64	-10	104
NA16447	545	2	0.01	43	750	15	0.01	-2	8	15	0.31	-10	-10	53	-10	200
NA16448	522	2	0.01	24	610	9	0.01	-2	5	15	0.21	-10	-10	62	-10	99
NA16449	373	2	0.03	15	700	10	0.02	-2	5	19	0.17	-10	-10	85	-10	96
NA16450	321	2	0.02	34	420	10	0.05	-2	5	23	0.21	-10	-10	66	-10	74
NA16451	420	2	0.02	31	590	51	0.02	-2	6	22	0.29	-10	-10	60	-10	99
NA16452	313	1	0.02	24	440	114	0.01	-2	4	21	0.2	-10	-10	59	-10	134
NA16453	677	1	0.02	23	420	97	0.01	-2	5	25	0.14	-10	-10	59	-10	395
NA16454	680	1	0.03	45	850	23	-0.01	-2	13	29	0.23	-10	-10	81	-10	308
NA16455	413	1	0.02	22	530	19	0.02	-2	6	24	0.15	-10	-10	50	-10	116
NA16456	652	2	0.02	14	680	6	0.01	-2	4	27	0.2	-10	-10	74	-10	69
NA16457	1140	2	0.02	16	1100	5	-0.01	-2	4	39	0.37	10	-10	128	-10	126
NA16458	980	1	0.02	14	410	6	0.01	-2	6	25	0.31	-10	-10	144	-10	89
NA16459	791	2	0.01	13	690	6	0.01	-2	6	18	0.29	-10	-10	115	-10	105
NA16460	985	1	0.01	7	1020	6	0.01	-2	3	18	0.25	-10	-10	104	-10	94
NA16461	1245	2	0.01	10	580	5	0.01	-2	6	23	0.28	-10	-10	130	-10	140
NA16462	576	1	0.02	15	530	8	-0.01	-2	6	20	0.18	-10	-10	84	-10	69
NA16463	625	-1	0.01	13	640	8	0.01	-2	4	19	0.17	-10	-10	75	-10	73
NA16464	292	5	0.03	36	690	18	0.09	-2	6	31	0.12	-10	-10	83	-10	146
NA16465	276	3	0.01	26	490	14	0.08	-2	5	24	0.09	-10	-10	61	-10	72
NA16466	199	3	0.03	24	730	15	0.45	2	5	48	0.16	-10	-10	72	-10	102

Lucky Joe 2003 Soil Geochemistry

Sample Number	UTM East	UTM North	UTM NAD	Geologist Name	Sample Date YR/MN/DY	Sample Color	Color Modify	Sample Depth	Units	Sample % Organics	Sample Horizon	Sample Clay	Sample Moisture	Sample Slope	Sample Environ.	Sample Frost	Dominent Rock Type
NA16467	576777	7047670	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.4	M	0	B	M	M	G	BDR	N	SCH
NA16468	576860	7047724	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.5	M	0	B	M	M	G	BDR	N	SCH
NA16469	576942	7047783	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.4	M	0	B	M	L	G	COL	N	SCH
NA16470	577024	7047840	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.4	M	0	B	M	L	G	COL	N	SCH
NA16471	577105	7047905	NAD83, Z 7	HULSTEIN	20030820	BN	QE	0.5	M	0	B	M	M	G	COL	N	SCH
NA16550	576766	7047169	NAD83, Z 7	PRESNELL	20030819	TA	QE	1	F	3	C	L	L	F	BDR	N	SCH
NA16551	576845	7047226	NAD83, Z 7	PRESNELL	20030819	BN	QE	6	I	3	C	L	L	G	COL	N	SCH
NA16552	576929	7047283	NAD83, Z 7	PRESNELL	20030819	BN	QL	8	I	5	C	L	M	G	BDR	S	SCH
NA16553	577175	7047460	NAD83, Z 7	PRESNELL	20030819	BN	QE	0.5	M	3	C	L	L	S	BDR	N	SCH
NA16554	577258	7047518	NAD83, Z 7	PRESNELL	20030819	BN	QD	0.6	M	10	B	L	L	G	BDR	N	SCH
NA16555	577414	7047626	NAD83, Z 7	PRESNELL	20030819	TA	QD	0.5	M	3	C	L	L	G	BDR	N	SCH
NA16556	577502	7047685	NAD83, Z 7	PRESNELL	20030819	BN	QE	0.5	M	5	C	L	L	G	BDR	N	SCH
NA16557	577583	7047748	NAD83, Z 7	PRESNELL	20030819	BN	QE	0.5	M	2	C	L	L	G	BDR	N	SCH
NA16558	577664	7047809	NAD83, Z 7	PRESNELL	20030819	BN	QE	0.5	M	3	C	L	L	G	BDR	N	SCH
NA16559	577744	7047857	NAD83, Z 7	PRESNELL	20030819	BN	QE	1	M	2	C	L	L	G	BDR	N	SCH
NA16560	576649	7048553	NAD83, Z 7	PRESNELL	20030819	OR	QL	1	F	2	C	L	L	F	BDR	N	SCH
NA16561	576813	7048661	NAD83, Z 7	PRESNELL	20030819	BN	QE	8	I	5	C	L	L	G	BDR	N	SCH
NA16562	576975	7048779	NAD83, Z 7	PRESNELL	20030819	BN	QD	0.8	M	4	C	L	L	S	BDR	N	SCH
NA16563	577767	7045902	NAD83, Z 7	PRESNELL	20030820	BN	QE	0.4	M	3	C	L	L	G	BDR	N	SCH
NA16564	577849	7045971	NAD83, Z 7	PRESNELL	20030820	BN	QD	0.5	M	5	C	L	L	G	BDR	N	SCH
NA16565	577925	7046038	NAD83, Z 7	PRESNELL	20030820	BN	QD	0.2	M	5	C	L	L	G	BDR	N	SCH
NA16566	578004	7046084	NAD83, Z 7	PRESNELL	20030820	BN	QD	0.4	M	5	C	L	L	G	BDR	N	SCH
NA16567	578083	7046151	NAD83, Z 7	PRESNELL	20030820	BN	QL	0.8	M	3	C	L	L	G	BDR	N	SCH
NA16568	578171	7046201	NAD83, Z 7	PRESNELL	20030820	BN	QE	0.5	M	2	C	L	L	G	BDR	N	SCH
NA16570	578260	7046266	NAD83, Z 7	PRESNELL	20030820	BN	QE	0.4	M	3	C	L	L	G	BDR	N	SCH
NA16571	578341	7046335	NAD83, Z 7	PRESNELL	20030820	BN	QE	0.5	M	3	C	L	L	F	BDR	N	SCH
NA16572	578851	7045238	NAD83, Z 7	PRESNELL	20030820	TA	QD	0.8	M	3	C	L	L	G	BDR	N	SCH
NA16573	578943	7045278	NAD83, Z 7	PRESNELL	20030820	BN	QE	0.4	M	3	C	L	L	G	BDR	N	SCH

Lucky Joe 2003 Soil Geochemistry

Sample Number	Sample Quality	Sample Description Notes	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 %	La ppm	Mg %
NA16467	M		2	-0.2	2.64	2	-10	550	-0.5	-2	0.44	-0.5	13	73	18	3.21	10	-1	0.47	10	1.41
~~NA16468~~	M		1	-0.2	5.53	-2	-10	560	1.4	-2	0.52	-0.5	27	74	57	5.12	20	-1	1.14	30	1.46
NA16469	L	~25% LOESS	2	-0.2	2.33	-2	-10	310	0.7	-2	0.28	-0.5	16	39	56	4.08	10	-1	0.62	50	0.99
NA16470	L	LOESS IN SAMPLE, 5-20% ?	3	-0.2	2.32	-2	-10	320	0.5	-2	0.28	-0.5	13	39	40	3.58	10	-1	0.45	30	0.84
NA16471	M		2	-0.2	2.63	2	-10	310	0.5	-2	0.4	-0.5	18	46	20	3.98	10	-1	0.96	20	1.02
NA16550	H	RK TYPE: QTZ-MUSC SCHIST.	2	0.2	2.46	39	-10	330	0.6	-2	0.11	-0.5	7	43	97	5.06	10	-1	0.26	30	1.29
NA16551	M	RK TYPE: QTZ-BIO SCHIST. MODERATE QUALITY DUE TO COLLUVIUM WITH POOR SOIL DEVELOPMENT.	1	0.2	1.4	3	-10	280	0.6	-2	0.15	0.7	11	27	51	2.73	10	-1	0.31	40	0.5
NA16552	H	RK TYPE: QTZ-MICA SCHIST	2	-0.2	3.48	-2	-10	580	-0.5	-2	0.36	-0.5	25	53	26	4.99	10	1	0.93	10	1.8
NA16553	H	RK TYPE: QTZ-MICA SCHIST	1	-0.2	2.67	-2	-10	280	0.6	-2	0.56	-0.5	16	49	34	4.33	10	-1	0.83	30	1.01
NA16554	H		-1	-0.2	1.45	6	-10	300	0.5	-2	1.39	0.8	10	30	24	2.51	-10	-1	0.13	30	0.53
NA16555	H	RK TYPE: QTZ-MICA SCHIST. ORANGE SOIL AT TOP OF HORIZON	-1	0.4	3.29	-2	-10	300	1.1	-2	0.66	-0.5	21	64	39	5.87	10	-1	0.84	60	1.53
NA16556	H	RK TYPE: QTZ-MUSC SCHIST. B/C MIX.	-1	0.3	2.28	4	-10	180	0.5	-2	0.4	-0.5	15	41	22	3.48	10	-1	0.42	30	0.91
NA16557	M	RK TYPE: QTZ-MUSC SCHIST. 40% LOESS.	1	-0.2	1.76	5	-10	230	0.5	-2	0.37	-0.5	9	27	23	2.98	10	-1	0.24	30	0.63
NA16558	H	RK TYPE: QTZ- BIO SCHIST	-1	0.3	3.33	2	-10	240	-0.5	-2	0.51	-0.5	21	22	20	5.04	10	-1	1.21	20	1.82
NA16559	H	RK TYPE: QTZ-MICA SCHIST. 15% LOESS	7	-0.2	1.74	-2	-10	160	-0.5	-2	0.48	-0.5	12	22	14	3.07	10	-1	0.35	10	0.8
NA16560	H	RK TYPE: QTZ-MICA SCHIST	1	-0.2	3.5	-2	-10	290	0.8	-2	0.18	-0.5	18	58	31	4.87	10	1	0.84	150	1.09
NA16561	H	RK TYPE: QTZ-MICA SCHIST	-1	-0.2	2.4	-2	-10	560	0.7	-2	0.5	0.5	15	50	23	3.6	10	-1	0.86	20	1.08
NA16562	H	RK TYPE: QTZ-MICA SCHIST	3	0.3	2.38	4	-10	350	0.7	-2	0.5	-0.5	14	47	26	3.69	10	-1	0.33	20	0.97
NA16563	H	RK TYPE: QTZ-BIO SCHIST	-1	-0.2	2.61	2	-10	180	0.6	-2	0.46	-0.5	20	50	38	4.01	10	-1	1.03	30	1.15
NA16564	H	RK TYPE: QTZ-MICA SCHIST	1	0.2	1.75	2	-10	200	-0.5	-2	0.52	-0.5	10	34	18	2.7	10	-1	0.18	20	0.63
NA16565	H	ROCK TYPE: QTZ-MICA SCHIST	-1	-0.2	1.52	9	-10	170	-0.5	-2	0.51	-0.5	9	32	12	2.43	10	-1	0.17	20	0.6
NA16566	H	ROCK TYPE: QTZ-MICA SCHIST	-1	-0.2	1.93	3	-10	230	-0.5	-2	0.45	-0.5	12	35	19	2.86	10	1	0.2	30	0.64
NA16567	H	RK TYPE: QTZ-MICA SCHIST	-1	-0.2	3.12	-2	-10	250	0.5	-2	0.53	-0.5	20	29	35	5.16	10	-1	1.55	30	1.74
NA16568	H	DUPE OF 16569. ROCK TYPE: QTZ-MICA SCHIST.	-1	-0.2	2.69	-2	-10	210	-0.5	-2	0.43	-0.5	18	25	28	4.27	10	-1	1.12	20	1.46
NA16570	H	RK TYPE: QTZ-BIO SCHIST. POOR GPS	-1	-0.2	2.53	6	-10	210	-0.5	-2	0.44	-0.5	15	25	25	4.04	10	-1	0.72	20	1.18
NA16571	H	ROCK TYPE: QTZ-BIO SCHIST. POOR GPS. TRANSPORTED? BASED SOL. LOBE	-1	-0.2	3.43	3	-10	310	-0.5	-2	0.79	-0.5	21	13	140	5.68	10	-1	1.43	20	1.58
NA16572	H	RK TYPE: QTZ-MICA SCHIST. 10% LOESS.	1	-0.2	1.7	5	-10	190	-0.5	-2	0.45	-0.5	9	23	21	2.65	-10	-1	0.2	20	0.71
NA16573	H	RK TYPE: QTZ-BIO SCHIST	1	-0.2	1.6	4	-10	130	-0.5	-2	0.43	-0.5	11	21	34	2.79	-10	-1	0.24	20	0.8

Sample Number	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	C %	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
NA16467	410	1	0.02	23	320	10	0.01	4	6	43	0.22	-10	-10	74	-10	61
~~NA16468~~	886	-1	0.04	47	680	34	0.01	2	9	52	0.28	-10	-10	67	-10	296
NA16469	474	2	0.02	43	540	15	0.08	2	6	29	0.21	-10	-10	74	-10	90
NA16470	371	1	0.01	29	470	12	0.02	3	7	26	0.22	-10	-10	67	-10	80
NA16471	424	1	0.01	32	680	9	0.01	2	6	34	0.28	-10	-10	61	-10	55
NA16550	345	4	0.01	22	510	10	0.15	3	5	27	0.09	-10	-10	59	-10	75
NA16551	301	3	0.02	26	1000	12	0.23	-2	1	44	0.06	-10	-10	48	-10	82
NA16552	732	1	0.02	37	810	18	0.02	2	9	22	0.35	-10	-10	122	-10	126
NA16553	467	1	0.02	37	660	27	0.01	3	7	34	0.29	-10	-10	63	-10	100
NA16554	412	-1	0.02	23	660	40	0.06	-2	5	52	0.13	-10	-10	44	-10	94
NA16555	834	1	0.01	41	900	8	0.01	2	11	33	0.21	-10	-10	86	-10	102
NA16556	334	-1	0.02	26	450	7	0.01	-2	5	27	0.22	-10	-10	63	-10	47
NA16557	341	-1	0.02	18	390	8	-0.01	-2	7	29	0.15	-10	-10	53	-10	56
NA16558	923	-1	0.01	9	910	5	0.01	-2	5	32	0.25	10	-10	108	-10	87
NA16559	454	1	0.01	15	560	11	0.01	2	4	28	0.16	-10	-10	67	-10	65
NA16560	522	-1	0.01	36	280	14	0.01	2	8	23	0.32	-10	-10	69	-10	71
NA16561	545	-1	0.01	38	670	100	0.01	-2	6	26	0.28	-10	-10	51	-10	217
NA16562	606	-1	0.02	33	590	17	0.01	3	6	30	0.2	-10	-10	61	-10	82
NA16563	355	-1	0.01	37	690	7	0.01	2	7	27	0.33	-10	-10	57	-10	55
NA16564	312	-1	0.02	22	520	15	0.02	2	5	31	0.16	-10	-10	51	-10	58
NA16565	235	-1	0.02	21	460	26	0.02	-2	4	26	0.18	-10	-10	49	-10	60
NA16566	425	-1	0.02	23	520	33	0.02	-2	5	27	0.17	-10	-10	56	-10	77
NA16567	892	-1	0.02	14	940	8	0.01	-2	9	24	0.26	-10	-10	120	-10	86
NA16568	622	-1	0.01	14	740	5	0.01	2	5	25	0.23	-10	-10	94	-10	76
NA16570	703	-1	0.01	14	590	4	0.01	-2	6	25	0.16	-10	-10	89	-10	71
NA16571	1350	-1	0.01	10	1230	3	0.01	-2	4	36	0.2	-10	-10	109	-10	100
NA16572	384	-1	0.02	15	420	6	-0.01	-2	4	30	0.13	-10	-10	54	-10	56
NA16573	454	-1	0.01	12	540	26	-0.01	-2	4	26	0.1	-10	-10	56	-10	68

Appendix G

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	1466.11	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	2671	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	44.90	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	81.60	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	90.60	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	0.93	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	1.64	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	28.30	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	0.94	40.00	21.60	1.55	831.00	3.88	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	48.00
96.00	398.00	6.52	12.40	13.00	1.90	25.00	0.24	1.29	52.20	22.10	1.92	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 (%)	Tl (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	53.60	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	0.38	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

SAMPLE ID	UTM EAST	UTM NORTH	Pair	PROPERTY	GEOLOGIST	SAMPLE DATE	Certificate	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)	Fe (%)	Ga (ppm)	Ge (ppm)
NA10605	565992	7044561	1	LJ	HULSTEIN	06/15/2003	VA03023295	-1	-0.2	2.49	-2	-10	230	-0.5	-2	0.73	-0.5		25	51		47	3.41	10	
NA10606	565992	7044561	1	LJ	HULSTEIN	06/15/2003	VA03023295	1	-0.2	2.48	3	-10	220	-0.5	-2	0.73	-0.5		25	50		44	3.35	10	
NA10626	566577	7055245	2	LJ	HULSTEIN	06/16/2003	VA03023299	2	-0.2	1.89	8	-10	210	-0.5	-2	0.4	-0.5		10	29		17	3.13	10	
NA10627	566577	7055245	2	LJ	HULSTEIN	06/16/2003	VA03023299	2	-0.2	3.16	5	-10	270	-0.5	-2	0.43	-0.5		10	19		14	3.97	10	
NA10672	592011	7004663	3	STEWART	LINLEY	06/15/2003	VA03023295	-1	-0.2	2.2	5	-10	290	-0.5	-2	0.36	0.7		12	21		12	3.96	10	
NA10673	592011	7004663	3	STEWART	LINLEY	06/15/2003	VA03023295	-1	-0.2	2.18	6	-10	280	-0.5	-2	0.39	0.8		12	15		11	4.18	10	
NA10704	566779	7058982	4	LJ	HULSTEIN	06/17/2003	VA03022744	-1	-0.2	1.42	4	-10	170	-0.5	-2	0.23	-0.5		7	21		32	2.27	-10	
NA10705	566779	7058982	4	LJ	HULSTEIN	06/17/2003	VA03022744	1	-0.2	1.51	3	-10	190	0.5	-2	0.24	-0.5		7	23		34	2.4	-10	
NA10724	572605	7055873	5	LJ	HULSTEIN	06/18/2003	VA03022744	-1	-0.2	3.69	-2	-10	150	0.8	-2	0.47	1.5		19	35		24	4.5	10	
NA10725	572605	7055873	5	LJ	HULSTEIN	06/18/2003	VA03022744	-1	-0.2	3.59	2	-10	150	0.8	-2	0.44	1.5		18	34		24	4.42	10	
NA10757	568095	7059284	6	LJ	FRANKLIN	06/17/2003	VA03022745	2	-0.2	2.6	14	-10	120	1.3	-2	0.09	-0.5		16	46		97	5.57	10	
NA10758	568095	7059284	6	LJ	FRANKLIN	06/17/2003	VA03022745	2	-0.2	2.51	13	-10	120	1.2	-2	0.09	-0.5		16	46		95	5.3	10	
NA10799	572379	7044316	7	LJ	FRANKLIN	06/20/2003	VA03023171	-1	-0.2	2.28	6	-10	230	0.7	-2	0.46	-0.5		11	13		15	3.82	10	
NA12850	572379	7044316	7	LJ	FRANKLIN	06/20/2003	VA03023171	-1	-0.2	2.08	5	-10	210	0.6	-2	0.42	-0.5		10	12		14	3.56	10	
NA10802	576868	7046890	8	LJ	HULSTEIN	06/19/2003	VA03022745	1	-0.2	2.58	63	-10	290	0.7	-2	0.16	-0.5		23	39		64	4.36	10	
NA10803	576868	7046890	8	LJ	HULSTEIN	06/19/2003	VA03022745	2	-0.2	2.36	67	-10	280	0.7	-2	0.16	-0.5		22	35		62	4.1	10	
NA10825	570000	7043368	9	LJ	HULSTEIN	06/20/2003	VA03023171	55	-0.2	1.78	9	-10	220	0.7	-2	0.36	-0.5		10	23		33	2.75	10	
NA10826	570000	7043368	9	LJ	HULSTEIN	06/20/2003	VA03023171	55	-0.2	1.92	9	-10	230	0.8	-2	0.34	-0.5		10	22		36	2.96	10	
NA10875	573307	7010434	10	STEWART	LINLEY	06/16/2003	VA03023299	2	-0.2	1.58	29	-10	600	-0.5	-2	0.7	-0.5		11	30		27	2.79	-10	
NA10876	573307	7010434	10	STEWART	LINLEY	06/16/2003	VA03023299	5	0.5	1.59	41	-10	590	-0.5	-2	0.68	-0.5		12	32		29	2.87	10	
NA10896	584274	7026600	11	SHAMROCK	HULSTEIN	07/22/2003	VA03029279	4	-0.2	2.22	9	-10	170	0.5	-2	0.71	-0.5		12	33		41	3.93	10	
NA14648	584274	7026600	11	SHAMROCK	HULSTEIN	07/22/2003	VA03029340	1	-0.2	2.27	9	-10	170	0.5	2	0.72	-0.5		12	35		40	3.87	10	
NA10920	566429	7059948	12	LJ	PRESNELL	06/19/2003	VA03022744	2	-0.2	2.19	4	-10	350	-0.5	-2	0.48	-0.5		16	29		23	3.85	10	
NA10921	566429	7059948	12	LJ	PRESNELL	06/19/2003	VA03022745	1	-0.2	2.1	3	-10	270	-0.5	-2	0.34	-0.5		16	28		21	3.81	10	
NA10940	576385	7044480	13	LJ	PRESNELL	06/19/2003	VA03022745	7	-0.2	1.4	3	-10	770	-0.5	-2	0.42	-0.5		11	26		12	2.58	-10	
NA10941	576385	7044480	13	LJ	PRESNELL	06/19/2003	VA03022745	2	-0.2	1.31	3	-10	570	-0.5	-2	0.34	-0.5		9	25		9	2.45	-10	
NA10960	590521	7006109	14	STEWART	LINLEY	06/21/2003	VA03023172	-1	-0.2	3.57	3	-10	340	-0.5	-2	1.14	-0.5		21	18		97	4.56	10	
NA10961	590521	7006109	14	STEWART	LINLEY	06/21/2003	VA03023172	1	-0.2	3.5	-2	-10	340	-0.5	-2	1.16	-0.5		21	16		104	4.6	10	
NA11894	590306	7009769	15	STEWART	LINLEY	06/11/2003	VA03021117	2	-0.2	1.5	6	-10	180	-0.5	-2	0.23	-0.5		8	23		16	2.4	10	
NA11894a	590306	7009769	15	STEWART	LINLEY	06/11/2003	VA03023295	2	-0.2	1.58	7	-10	170	-0.5	-2	0.26	-0.5		8	25		18	2.46	10	
NA11930	593805	6998790	16	STEWART	LINLEY	06/13/2003	VA03023296	2	-0.2	2.28	9	-10	220	-0.5	-2	0.22	-0.5		11	34		20	3.41	10	
NA13027	593805	6998790	16	STEWART	LINLEY	06/14/2003	VA03023296	3	-0.2	2.24	10	-10	230	-0.5	-2	0.17	-0.5		11	35		19	2.98	10	
NA11949	593385	6995196	17	STEWART	LINLEY	06/13/2003	VA03023296	3	0.2	2.68	2	-10	390	-0.5	-2	0.55	-0.5		22	11		48	6.6	10	
NA13028	593385	6995196	17	STEWART	LINLEY	06/17/2003	VA03023296	1	-0.2	2.72	3	-10	410	-0.5	-2	0.65	1.2		23	11		53	7.22	10	
NA11992	589364	7010205	18	STEWART	RYAN	06/11/2003	VA03021117	-1	0.2	2.24	6	-10	240	-0.5	-2	0.66	-0.5		13	24		45	2.95	10	
NA11993	589364	7010205	18	STEWART	RYAN	06/11/2003	VA03021117	-1	-0.2	2.52	8	-10	260	-0.5	-2	0.75	-0.5		15	26		63	3.18	10	
NA12025	592214	6999210	19	STEWART	RYAN	06/12/2003	VA03021116	2	-0.2	2.26	3	-10	390	0.5	-2	0.23	0.6		18	26		82	4.86	10	
NA12026	592214	6999210	19	STEWART	RYAN	06/12/2003	VA03021116	6	-0.2	2.17	6	-10	350	0.5	2	0.21	-0.5		17	28		65	4.39	10	
NA12046	594096	6995655	20	STEWART	RYAN	06/13/2003	VA03023299	1	-0.2	2.81	6	-10	420	-0.5	-2	0.34	-0.5		22	18		44	4.46	10	
NA12047	594096	6995655	20	STEWART	RYAN	06/13/2003	VA03023299	4	0.4	2.79	2	-10	410	-0.5	-2	0.35	-0.5		17	18		43	4.48	10	
NA12087	586963	7012578	21	STEWART	FLEMING	06/11/2003	VA03021116	-1	-0.2	1.8	3	-10	200	0.5	-2	0.2	-0.5		9	22		14	2.88	-10	
NA12088	586963	7012578	21	STEWART	FLEMING	06/11/2003	VA03021116	3	-0.2	1.84	3	-10	200	0.5	-2	0.2	-0.5		9	21		14	2.95	-10	
NA12108	591673	6997245	22	STEWART	FLEMING	06/12/2003	VA03021117	1	-0.2	3.07	4	-10	210	0.5	-2	0.14	-0.5		19	32		28	4.35	10	
NA12109	591673	6997245	22	STEWART	FLEMING	06/12/2003	VA03021117	1	-0.2	3.21	4	-10	220	0.5	-2	0.15	-0.5		20	34		28	4.59	10	
NA12174	565506	7071585	23	INDIAN	ROBINSON	06/25/2003	VA03024953	7	0.2	1.39	5	-10	310	0.5	-2	0.56	-0.5		16	31		40	2.84	-10	
NA12175	565506	7071585	23	INDIAN	ROBINSON	06/25/2003	VA03024953	-1	0.4	1.38	6	-10	310	0.5	-2	0.54	-0.5		16	30		38	2.77	-10	
NA12220	574008	7052917	24	LJ	BOYER	06/12/2003	VA03021116	3	0.2	1.76	5	-10	170	-0.5	-2	0.21	-0.5		11	31		48	2.72	10	
NA12221	574008	7052917	24	LJ	BOYER	06/12/2003	VA03021116	3	0.3	1.71	4	-10	170	-0.5	-2	0.21	-0.5		10	29		46	2.65	10	
NA12240	574572	7052993	25	LJ	BOYER	06/13/2003	VA03023295	3	-0.2	1.79	8	-10	90	-0.5	-2	0.15	-0.5		8	27		24	2.77	10	
NA12241	574572	7052993	25	LJ	BOYER	06/13/2003	VA03023295	2	-0.2	1.7	10	-10	90	-0.5	-2	0.16	-0.5		7	27		18	2.78	10	
NA12260	570845	7054303	26	LJ	FRANKLIN	06/11/2003	VA03021116	2	-0.2	2.09	5	-10	600	1.3	-2	0.21	0.6		14	37		31	4.1	10	
NA12261	570845	7054303	26	LJ	FRANKLIN	06/11/2003	VA03021116	-1	-0.2	2.17	4	-10	620	1.3	-2	0.23	0.8		15	38		31	4.17	10	

SAMPLE ID	Hg (ppm)	K (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Tl (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	NOTES
NA10605	-1	0.74	-10	2.02	561	-1	0.02	23	1170	2	-0.01	-2	4	53	0.26	-10	-10	97	-10	70	DECOMPOSED MICACEOUS SCHIST
NA10606	-1	0.72	-10	1.96	526	-1	0.02	23	1160	-2	-0.01	-2	4	53	0.25	-10	-10	94	-10	69	DUPE OF NA10605
NA10626	-1	0.14	30	0.65	289	-1	0.02	15	370	8	-0.01	-2	5	33	0.12	-10	-10	58	-10	65	PEBBLES OF QUARTZ-MUSC SCHIST AND QUARTZ
NA10627	1	0.54	30	1.58	482	-1	0.02	10	460	6	-0.01	-2	6	82	0.16	-10	-10	60	-10	92	DUPE OF 10626
NA10672	-1	0.55	20	0.66	659	1	0.02	10	720	6	0.01	2	4	26	0.2	-10	-10	66	-10	69	
NA10673	1	0.71	20	0.69	669	-1	0.02	8	850	4	0.01	-2	5	24	0.21	-10	-10	61	-10	71	DUPE OF NA10672
NA10704	-1	0.07	40	0.63	161	2	0.01	13	170	9	0.01	-2	5	20	0.1	-10	-10	54	-10	47	ORG-BN DECOPOSED MUSC SCH
NA10705	-1	0.07	40	0.66	169	2	0.01	14	160	9	0.01	-2	5	21	0.11	-10	-10	56	-10	50	DUPE OF 10704
NA10724	-1	0.65	20	1.98	876	-1	0.01	10	560	19	-0.01	-2	10	38	0.19	-10	-10	98	-10	229	SANDY DECOMPOSED QUARTZ-FELD- BIO SCHIST
NA10725	-1	0.61	20	1.94	865	-1	0.01	10	510	20	-0.01	-2	9	36	0.18	-10	-10	96	-10	226	DUPE OF NA10724
NA10757	-1	0.54	30	1.71	1235	4	0.01	44	340	5	-0.01	-2	13	9	0.1	-10	-10	75	-10	132	BRIGHT ORG SOIL, CHUNKS OF WHT MICA-RICH SCH W/LIM AFTER ENLFIDES
NA10758	-1	0.53	30	1.66	1175	4	0.01	40	330	4	-0.01	-2	12	8	0.1	-10	-10	71	-10	126	DUPE OF 10757
NA10799	-1	0.29	40	1.08	613	-1	0.01	10	720	7	-0.01	-2	8	22	0.07	-10	-10	56	-10	68	DUPE PAIR WITH NA12850
NA12850	-1	0.26	40	1	573	-1	0.01	9	660	6	-0.01	-2	7	20	0.06	-10	-10	52	-10	65	DUPE OF NA10799
NA10802	-1	0.14	40	0.73	306	2	0.01	68	600	6	0.01	-2	4	13	0.05	-10	-10	68	-10	52	TAN-LIMONITE COLOR, RH3-O19 AND 22-LJ-15 LESS THAN 10 AND LESS THAN 20M AWAY
NA10803	-1	0.14	40	0.65	295	2	0.01	68	570	8	0.01	2	4	13	0.05	-10	-10	59	-10	51	DUPE OF NA10802
NA10825	-1	0.17	30	0.42	371	-1	0.01	18	280	22	0.01	-2	6	24	0.04	-10	-10	38	-10	55	REDDISH BROWN COLOR, QTZ-FELD BIOTITE SCHIST PEBBLES
NA10826	-1	0.19	30	0.44	429	-1	0.01	18	280	20	0.01	-2	6	23	0.04	-10	-10	40	-10	61	DUPE OF NA10825
NA10875	-1	0.1	20	0.51	357	1	0.03	26	660	7	0.01	-2	4	43	0.07	-10	-10	60	-10	64	
NA10876	-1	0.11	20	0.54	408	1	0.03	29	720	7	0.02	2	4	42	0.08	-10	-10	61	-10	71	DUPE OF 10875
NA10896	-1	0.04	20	0.89	375	-1	0.05	20	500	12	-0.01	-2	8	43	0.18	-10	-10	92	-10	51	DUPE OF NA14648
NA14648	1	0.04	20	0.9	364	1	0.06	22	590	8	-0.01	-2	8	46	0.17	-10	-10	93	-10	49	AMP (OR BIOT SCH); DUPE OF NA10896
NA10920	-1	0.1	10	0.91	795	1	0.02	24	1070	7	0.01	-2	4	20	0.16	-10	-10	87	-10	69	QTZ. BIOTITE SCHIST
NA10921	-1	0.11	10	0.88	573	2	0.02	23	440	5	0.01	-2	4	18	0.17	-10	-10	90	-10	70	DUPE OF NA10920
NA10940	-1	0.18	10	0.49	590	-1	0.03	17	230	8	0.01	-2	3	28	0.11	-10	-10	56	-10	44	
NA10941	-1	0.14	10	0.49	255	-1	0.02	14	120	4	0.01	-2	3	22	0.11	-10	-10	56	-10	38	DUPE
NA10960	-1	0.36	10	1.41	746	-1	0.04	11	1070	13	-0.01	2	9	68	0.23	-10	-10	116	-10	60	
NA10961	-1	0.4	10	1.47	773	1	0.04	10	1180	8	-0.01	-2	9	65	0.24	-10	-10	117	-10	61	
NA11894	-1	0.04	10	0.41	193	-1	0.01	14	380	10	0.01	-2	2	18	0.09	-10	-10	60	-10	40	
NA11894a	-1	0.05	10	0.48	184	1	0.01	15	310	8	-0.01	-2	3	18	0.12	-10	-10	60	-10	40	
NA11930	-1	0.04	10	0.48	466	1	0.01	19	290	8	0.01	-2	4	20	0.08	-10	-10	75	-10	58	DUPE OF 13027
NA13027	-1	0.04	10	0.44	583	-1	0.02	18	290	9	0.01	2	4	18	0.09	-10	-10	75	-10	55	DUPE NA11930
NA11949	-1	0.35	10	1.34	691	-1	0.03	8	1100	-2	-0.01	-2	19	24	0.15	-10	-10	224	-10	97	DUPE OF 13028
NA13028	-1	0.39	10	1.45	742	-1	0.04	8	1370	-2	-0.01	-2	21	23	0.16	-10	-10	245	-10	101	DUPE OF 11949
NA11992	-1	0.36	-10	0.82	350	-1	0.01	14	560	4	0.01	-2	3	40	0.15	-10	-10	75	-10	60	QUARTZ BIOTITE SCHIST? DUP NA11993
NA11993	-1	0.4	-10	0.92	385	1	0.02	15	620	11	0.01	-2	3	45	0.17	-10	-10	82	-10	71	DUPE OF NA11992
NA12025	-1	0.38	10	0.9	601	-1	0.01	14	320	3	-0.01	2	14	21	0.11	-10	-10	104	-10	63	UARTZ MICA SCHIST
NA12026	-1	0.27	10	0.78	570	-1	0.01	16	300	6	0.01	-2	12	20	0.1	-10	-10	94	-10	59	DUPE OF 12025
NA12046	-1	0.68	-10	1.45	808	-1	0.02	10	470	13	0.01	-2	4	33	0.29	10	-10	96	-10	104	AMP
NA12047	-1	0.71	-10	1.49	790	2	0.02	9	470	16	-0.01	-2	4	33	0.31	20	-10	97	-10	98	DUPE OF NA12046
NA12087	1	0.53	20	0.94	535	-1	0.01	11	230	9	-0.01	2	4	14	0.16	-10	-10	58	-10	45	
NA12088	-1	0.55	20	0.98	546	-1	0.01	11	230	9	-0.01	-2	4	13	0.16	-10	-10	58	-10	49	DUPE OF 12087
NA12108	-1	0.33	10	1.18	510	1	0.01	22	250	11	0.01	2	5	14	0.16	-10	-10	107	-10	81	
NA12109	-1	0.36	10	1.26	541	-1	0.01	23	260	14	0.01	-2	6	15	0.17	-10	-10	115	-10	83	DUPE
NA12174	-1	0.2	10	0.33	1415	2	0.02	37	500	9	0.03	-2	5	33	0.07	-10	-10	53	-10	70	
NA12175	-1	0.2	10	0.32	1360	1	0.02	35	490	8	0.03	-2	5	32	0.06	-10	-10	52	-10	68	DUPE
NA12220	-1	0.27	40	0.67	243	2	0.01	23	500	20	0.03	-2	4	16	0.12	-10	-10	40	-10	89	
NA12221	-1	0.25	30	0.65	235	2	0.01	20	510	20	0.02	-2	4	16	0.12	-10	-10	40	-10	86	DUPE OF NA12220
NA12240	-1	0.1	10	0.53	240	1	0.01	12	160	8	-0.01	2	4	14	0.13	-10	-10	69	-10	43	
NA12241	-1	0.08	10	0.51	206	1	0.01	12	160	9	-0.01	-2	4	14	0.14	-10	-10	71	-10	42	DUPE OF NA12240
NA12260	-1	0.72	50	0.8	399	3	0.01	25	280	18	0.01	2	6	14	0.23	-10	-10	44	-10	126	SERICITIC SOIL
NA12261	-1	0.74	50	0.82	407	3	0.01	26	320	19	-0.01	2	7	14	0.23	-10	-10	45	-10	124	DUPE OF 12260

SAMPLE ID	UTM EAST	UTM NORTH	Pair	PROPERTY	GEOLOGIST	SAMPLE DATE	Certificate	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)	Fe (%)	Ga (ppm)	Ge (ppm)
NA12280	572236	7054900	27	LJ	FRANKLIN	06/12/2003	VA03021116	1	-0.2	2.88	2	-10	80	0.6	-2	0.24	-0.5		15	15		102	4.46	10	
NA12281	572236	7054900	27	LJ	FRANKLIN	06/12/2003	VA03021116	-1	-0.2	2.94	2	-10	90	0.6	-2	0.24	-0.5		15	15		108	4.56	10	
NA12307	568259	7053407	28	LJ	FRANKLIN	06/14/2003	VA03023296	2	0.2	2.93	2	-10	400	0.6	-2	0.72	-0.5		11	10		24	5	10	
NA12308	568259	7053407	28	LJ	FRANKLIN	06/14/2003	VA03023296	-1	0.2	3.09	-2	-10	240	-0.5	-2	0.61	-0.5		6	10		13	2.35	10	
NA12337	570196	7057144	29	LJ	FRANKLIN	06/16/2003	VA03023299	2	-0.2	3.18	-2	-10	210	0.5	-2	0.81	-0.5		12	24		91	3.98	10	
NA12338	570196	7057144	29	LJ	FRANKLIN	06/16/2003	VA03023299	-1	-0.2	3.13	-2	-10	200	0.5	-2	0.78	-0.5		12	24		86	3.9	10	
NA12366	577470	7013931	30	STEWART	FLEMING	06/14/2003	VA03023299	6	0.4	1.7	118	-10	450	0.5	-2	0.27	-0.5		18	40		44	3.34	-10	
NA12367	577470	7013931	30	STEWART	FLEMING	06/14/2003	VA03023299	6	0.6	1.76	122	-10	480	0.6	2	0.28	-0.5		18	41		47	3.41	-10	
NA12388	592117	7003495	31	STEWART	FLEMING	06/15/2003	VA03023295	1	-0.2	2.24	10	-10	200	-0.5	-2	0.31	-0.5		12	29		25	3.56	10	
NA12389	592117	7003495	31	STEWART	FLEMING	06/15/2003	VA03023295	6	-0.2	2.34	9	-10	210	-0.5	-2	0.35	-0.5		13	29		17	3.7	10	
NA12425	580511	7004540	32	STEWART	RYAN	06/14/2003	VA03023296	5	-0.2	2.87	6	-10	700	0.9	2	0.61	-0.5		27	95		32	4.37	10	
NA12426	580511	7004540	32	STEWART	RYAN	06/14/2003	VA03023296	5	-0.2	2.95	5	-10	750	0.9	-2	0.67	-0.5		28	95		34	4.56	10	
NA12452	588140	7002410	33	STEWART	RYAN	06/15/2003	VA03023296	15	-0.2	1.47	28	-10	120	-0.5	-2	0.14	-0.5		7	18		17	2.8	10	
NA12453	588140	7002410	33	STEWART	RYAN	06/15/2003	VA03023296	10	-0.2	1.59	19	-10	130	-0.5	-2	0.15	-0.5		9	21		18	3	10	
NA12478	576404	7009272	34	STEWART	RYAN	06/16/2003	VA03023296	8	0.7	2.89	14	-10	1380	-0.5	-2	0.79	-0.5		22	81		77	4.57	10	
NA12479	576404	7009272	34	STEWART	RYAN	06/16/2003	VA03023296	4	0.3	2.61	17	-10	1220	-0.5	-2	0.86	-0.5		20	71		70	4.14	10	
NA12540	564707	7051682	35	LJ	BOYER	06/15/2003	VA03023295	1	-0.2	1.98	4	-10	520	1.1	-2	0.35	-0.5		9	19		48	3.08	10	
NA12541	564707	7051682	35	LJ	BOYER	06/15/2003	VA03023295	3	-0.2	2.09	4	-10	530	1.1	-2	0.34	-0.5		10	21		49	3.22	10	
NA12600	575213	7045588	36	LJ	BOYER	06/19/2003	VA03022744	1	-0.2	1.98	7	-10	230	-0.5	-2	0.16	-0.5		9	27		14	2.86	10	
NA12601	575213	7045588	36	LJ	BOYER	06/19/2003	VA03022744	-1	-0.2	1.99	7	-10	230	-0.5	-2	0.16	-0.5		9	28		14	2.89	10	
NA12676	563119	7075478	37	INDIAN	LINLEY	06/25/2003	VA03024953	3	0.4	3.01	5	-10	260	0.9	-2	0.98	-0.5		12	41		25	3.46	10	
NA12677	563119	7075478	37	INDIAN	LINLEY	06/25/2003	VA03024953	2	0.2	2.82	5	-10	270	0.8	-2	1	-0.5		12	38		25	3.24	10	
NA12717	586039	7012991	38	STEWART	FLEMING	06/16/2003	VA03023299	-1	-0.2	2.42	5	-10	400	-0.5	-2	0.47	-0.5		18	13		24	3.98	10	
NA12718	586039	7012991	38	STEWART	FLEMING	06/16/2003	VA03023299	-1	-0.2	3.1	3	-10	700	-0.5	-2	0.56	-0.5		19	14		17	4.97	10	
NA12742	585696	6987432	39	STEWART	FLEMING	06/17/2003	VA03023171	1	-0.2	1.67	19	-10	290	1.1	-2	0.55	-0.5		11	44		19	3.57	10	
NA12743	585696	6987432	39	STEWART	FLEMING	06/17/2003	VA03023171	1	-0.2	1.72	22	-10	280	1.2	-2	0.55	-0.5		11	45		19	3.64	10	
NA12755	585876	6987335	40	STEWART	RYAN	06/17/2003	VA03022745	1	-0.2	2.19	19	-10	270	1.1	-2	0.27	-0.5		13	29		35	4.13	10	
NA12756	585876	6987335	40	STEWART	RYAN	06/17/2003	VA03022745	3	-0.2	2.25	17	-10	280	1.1	-2	0.28	-0.5		13	30		34	4.14	10	
NA12784	592667	6980436	41	STEWART	RYAN	06/20/2003	VA03023172	-1	-0.2	2.16	6	-10	250	-0.5	-2	0.36	-0.5		18	44		20	3.83	10	
NA12785	592667	6980436	41	STEWART	RYAN	06/20/2003	VA03023172	-1	-0.2	2.14	6	-10	250	-0.5	-2	0.31	-0.5		18	45		22	3.81	10	
NA12870	567508	7064000	42	RUBY	HULSTEIN	06/23/2003	VA03024451	-1	-0.2	1.62	10	-10	250	0.6	-2	0.4	-0.5		11	32		28	2.79	10	
NA12871	567508	7064000	42	RUBY	HULSTEIN	06/23/2003	VA03024451	5	-0.2	1.58	9	-10	250	0.6	-2	0.4	-0.5		11	32		28	2.79	10	
NA12894	569270	7061174	43	RUBY	HULSTEIN	06/24/2003	VA03024451	1	-0.2	2.12	10	-10	270	0.6	-2	0.48	-0.5		14	44		37	3.65	10	
NA12895	569270	7061174	43	RUBY	HULSTEIN	06/24/2003	VA03024451	5	-0.2	2.02	11	-10	270	0.5	-2	0.49	-0.5		14	42		35	3.52	10	
NA12919	569685	7051318	44	LJ	HULSTEIN	06/11/2003	VA03021116	1	-0.2	2.48	6	-10	260	0.5	-2	0.19	0.6		9	14		14	5.05	10	
NA12920	569685	7051318	44	LJ	HULSTEIN	06/11/2003	VA03021116	1	-0.2	2.53	8	-10	260	0.6	-2	0.18	0.7		9	14		14	5.16	10	
NA12944	572805	7050070	45	LJ	HULSTEIN	06/12/2003	VA03021116	2	-0.2	1.54	4	-10	170	-0.5	-2	0.34	-0.5		11	37		23	2.31	-10	
NA12945	572805	7050070	45	LJ	HULSTEIN	06/12/2003	VA03021116	2	-0.2	1.57	4	-10	170	-0.5	-2	0.32	-0.5		11	35		22	2.37	-10	
NA12959	571306	7049277	46	LJ	HULSTEIN	06/13/2003	VA03023295	84	5.5	2.39	39	-10	300	0.5	46	0.28	-0.5		12	57		508	4.65	10	
NA14300	571306	7049277	46	LJ	SMITH	06/23/2003	VA03029279	93	8.2	2.49	44	-10	250	0.6	94	0.56	-0.5		9	66		820	5.56	10	
NA12963	570930	7048556	47	LJ	HULSTEIN	06/13/2003	VA03023295	1	-0.2	3.42	4	-10	230	0.7	-2	0.77	-0.5		15	30		27	4.54	10	
NA12964	570930	7048556	47	LJ	HULSTEIN	06/13/2003	VA03023295	1	-0.2	3.47	3	-10	240	0.8	-2	0.81	-0.5		15	28		28	4.73	10	
NA12986	567062	7047467	48	LJ	HULSTEIN	06/14/2003	VA03023295	-1	-0.2	3.01	6	-10	200	-0.5	-2	0.2	-0.5		17	34		13	4.49	10	
NA12987	567062	7047467	48	LJ	HULSTEIN	06/14/2003	VA03023295	2	-0.2	2.96	5	-10	200	-0.5	-2	0.19	-0.5		16	32		13	4.34	10	
NA13025	580315	7004651	49	STEWART	LINLEY	06/14/2003	VA03023296	2	-0.2	2.87	7	-10	250	0.5	-2	0.43	0.5		20	224		32	3.4	10	
NA13026	580315	7004651	49	STEWART	LINLEY	06/14/2003	VA03023296	2	0.3	2.97	7	-10	280	0.6	-2	0.5	0.5		22	252		38	3.41	10	
NA10699	588347	6987227	50	STEWART	LINLEY	06/17/2003	VA03022745	3	-0.2	2.23	6	-10	240	-0.5	-2	0.6	-0.5		19	57		79	3.4	10	
NA13029	588347	6987227	50	STEWART	LINLEY	06/17/2003	VA03022745	8	-0.2	2.2	9	-10	250	-0.5	-2	0.63	-0.5		18	55		77	3.32	10	
NA13037	590071	6985421	51	STEWART	LINLEY	06/20/2003	VA03023171	-1	-0.2	2.08	6	-10	150	-0.5	-2	0.21	-0.5		17	33		37	3.79	10	
NA13038	590071	6985421	51	STEWART	LINLEY	06/20/2003	VA03023171	-1	-0.2	1.97	3	-10	150	-0.5	-2	0.23	-0.5		17	31		40	3.86	10	
NA13090	572240	7061082	52	RUBY	PRESNELL	06/23/2003	VA03024451	6	-0.2	2.07	3	-10	380	-0.5	-2	0.43	-0.5		17	374		33	2.74	10	
NA13091	572240	7061082	52	RUBY	PRESNELL	06/23/2003	VA03024451	-1	-0.2	2.11	-2	-10	400	-0.5	-2	0.47	-0.5		18	382		37	2.86	10	

SAMPLE ID	Hg (ppm)	K (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Tl (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	NOTES
NA12280	-1	0.18	10	1.24	511	2	0.01	7	300	6	0.01	-2	3	26	0.17	-10	-10	92	-10	52	SLIGHT ORG-RED HUE,LOC HEM STN
NA12281	-1	0.18	10	1.26	519	2	0.01	6	300	8	0.01	-2	3	26	0.16	-10	-10	95	-10	50	DUPE OF 12280
NA12307	-1	0.17	20	0.72	1085	-1	0.02	6	1260	4	-0.01	-2	14	78	0.13	-10	-10	68	10	498	SMALL RK FRAGS OF PLAG-WHT MICA, MINOR BIO, V. CLAY RICH
NA12308	-1	0.15	-10	0.58	184	-1	0.02	4	400	7	-0.01	-2	2	146	0.03	-10	-10	38	-10	83	DUPE OF 12307
NA12337	-1	0.29	10	1.74	1210	-1	0.01	9	190	29	-0.01	-2	7	56	0.16	20	-10	95	-10	532	CHUNKS OF QTZ
NA12338	-1	0.28	10	1.72	1200	-1	0.01	9	190	27	-0.01	-2	7	55	0.15	20	-10	93	-10	546	DUPE OF 12337
NA12366	-1	0.17	10	0.47	461	2	0.02	50	660	25	0.03	-2	5	30	0.08	10	-10	71	-10	130	
NA12367	1	0.17	10	0.48	477	2	0.02	52	680	25	0.03	-2	5	31	0.08	10	-10	72	-10	133	DUPE OF12366
NA12388	-1	0.07	10	0.56	445	2	0.01	17	340	14	0.01	-2	6	21	0.12	-10	-10	77	-10	68	
NA12389	-1	0.07	10	0.59	479	1	0.01	17	370	10	0.01	-2	7	23	0.13	-10	-10	80	-10	61	DUPE OF 12388
NA12425	1	0.31	10	2.09	516	-1	0.02	58	1030	10	0.01	-2	6	49	0.31	-10	-10	113	-10	86	
NA12426	-1	0.32	10	2.14	558	-1	0.03	59	1070	8	0.01	3	6	51	0.32	-10	-10	118	-10	89	DUPE OF12425
NA12452	-1	0.12	10	0.26	470	1	0.01	8	460	11	0.01	3	4	18	0.09	-10	-10	50	-10	60	GRANITE GNEISS ?
NA12453	-1	0.13	10	0.27	521	1	0.01	10	500	11	0.01	2	4	19	0.1	-10	-10	52	-10	65	DUPE OF NA12452
NA12478	1	1.23	10	2.22	445	-1	0.03	43	1790	4	0.01	-2	8	50	0.24	-10	-10	131	-10	96	ROAD SIDE CUT ON FRISCO CR.
NA12479	-1	1.04	10	1.99	398	-1	0.03	42	2110	3	0.01	3	8	53	0.2	-10	-10	122	-10	87	DUPE OF 12478
NA12540	-1	0.4	30	0.77	456	-1	0.01	13	190	109	-0.01	-2	5	15	0.15	-10	-10	33	-10	110	
NA12541	-1	0.37	30	0.73	446	-1	0.01	15	180	116	-0.01	-2	6	15	0.14	-10	-10	37	-10	115	Dupe of 12540
NA12600	-1	0.09	10	0.46	485	1	0.01	16	580	9	0.01	-2	4	18	0.09	-10	-10	65	-10	80	
NA12601	-1	0.09	10	0.46	486	1	0.01	16	600	8	0.01	-2	4	18	0.09	-10	-10	65	-10	80	
NA12676	-1	0.13	30	0.61	1085	-1	0.03	27	1020	9	0.05	-2	10	134	0.12	-10	-10	68	-10	125	
NA12677	-1	0.17	20	0.58	1100	-1	0.02	26	960	9	0.05	-2	9	132	0.11	-10	-10	63	-10	124	DUPE OF 12676
NA12717	-1	1.1	-10	1.38	528	-1	0.02	11	840	4	-0.01	-2	3	36	0.26	-10	-10	82	-10	87	MEDIUM ORANGE BROWN
NA12718	1	1.23	10	2.02	505	-1	0.02	12	650	4	-0.01	-2	6	46	0.23	-10	-10	109	-10	47	DUPE OF 12717
NA12742	-1	0.25	80	0.61	465	-1	0.02	25	180	12	0.01	-2	9	50	0.07	-10	-10	49	-10	71	OR-BN
NA12743	-1	0.26	80	0.62	459	-1	0.02	26	180	12	0.01	-2	9	51	0.07	-10	-10	50	-10	72	DUP OF 12742
NA12755	-1	0.16	30	0.68	669	1	0.02	20	320	8	0.04	-2	13	32	0.11	-10	-10	94	-10	100	QTZ MUSC SCH
NA12756	-1	0.15	40	0.68	673	1	0.02	20	330	9	0.03	-2	13	33	0.12	-10	-10	95	-10	101	DUPE OF 12755
NA12784	-1	0.72	50	0.92	447	1	0.01	47	1070	14	-0.01	-2	6	17	0.15	-10	10	52	-10	43	QUARTZ MICA SCHIST
NA12785	-1	0.7	40	0.93	411	1	0.01	47	890	16	-0.01	-2	6	17	0.15	-10	10	54	-10	44	DUPE OF 12784
NA12870	-1	0.19	20	0.55	444	1	0.02	25	680	10	0.01	-2	5	27	0.11	-10	-10	53	-10	67	'SANDY' QTZ-BIO MUSC SOIL, SAME FOUND IN SURROUNDING SCHIST PEBBLES
NA12871	1	0.19	20	0.55	466	1	0.02	26	700	6	0.01	-2	5	26	0.12	-10	-10	53	-10	66	DUPE OF 12870
NA12894	1	0.58	60	0.77	439	-1	0.02	31	840	10	0.01	-2	6	25	0.19	-10	-10	58	-10	65	SANDY DECOMPOSED SCH RDG COL
NA12895	-1	0.57	60	0.73	429	-1	0.02	30	1000	10	0.01	-2	6	25	0.18	-10	-10	55	-10	63	Dupe of 12895
NA12919	-1	0.45	10	0.78	1140	1	0.01	9	700	25	0.01	-2	13	21	0.18	-10	-10	51	-10	166	SANDY SOIL
NA12920	-1	0.48	10	0.79	1135	-1	0.01	8	660	9	0.01	-2	13	21	0.18	-10	-10	49	-10	166	DUPE OF 12919
NA12944	-1	0.08	10	0.75	275	-1	0.01	20	480	4	-0.01	2	3	24	0.11	-10	-10	54	-10	44	
NA12945	-1	0.07	10	0.73	289	-1	0.01	20	450	7	-0.01	2	3	23	0.11	-10	-10	54	-10	45	DUPE OF NA12944
NA12959	-1	0.21	40	0.89	273	6	0.03	35	1340	35	0.3	-2	9	37	0.06	-10	-10	108	-10	101	DUPLICATE OF NA14300 TAN-LIMONITE SANDY-QTZ PEBBLE SL, MUSC-QTZ SCHIST
NA14300	1	0.23	50	1.17	303	11	0.02	58	3040	69	0.38	3	11	53	0.05	-10	10	137	-10	162	DUPLICATE OF 12959, DOM ROCK MUSC-QTZ SCHIST
NA12963	-1	0.37	10	1.07	917	-1	0.02	17	660	8	-0.01	-2	7	57	0.21	-10	-10	72	-10	164	SANDY QTZ BIO SCH ON CLAIM LINE DUPE OF 12964
NA12964	-1	0.4	10	1.15	980	-1	0.02	16	720	8	-0.01	-2	7	60	0.22	-10	-10	74	-10	175	DUPE OF 12963
NA12986	-1	0.88	10	2.04	1000	-1	0.01	13	500	7	0.01	-2	15	11	0.25	-10	-10	121	-10	73	GREY BIO(?) SCHIST PEBBLES
NA12987	-1	0.92	10	2.01	994	-1	0.01	13	480	4	0.01	-2	15	11	0.24	-10	-10	120	-10	70	DUPE OF 12986
NA13025	-1	0.17	10	1.92	512	-1	0.01	110	840	12	0.01	-2	3	70	0.26	-10	-10	84	-10	58	
NA13026	-1	0.2	10	2.2	538	-1	0.01	123	900	13	0.01	2	3	77	0.29	-10	-10	86	-10	60	DUPE OF13025
NA10699	-1	0.09	10	0.9	537	-1	0.03	33	410	6	0.01	-2	8	23	0.18	-10	-10	91	-10	60	BLANK CARD
NA13029	-1	0.11	10	0.89	533	-1	0.03	32	470	5	0.01	-2	7	25	0.17	-10	-10	88	-10	63	BLANK CARD; DUPE OF 10699
NA13037	1	0.38	20	0.76	457	1	0.01	35	650	12	0.02	-2	4	16	0.13	-10	-10	46	-10	71	
NA13038	-1	0.49	30	0.81	489	1	0.01	39	760	14	0.02	-2	4	15	0.13	-10	-10	38	-10	77	DUPE OF NA13037
NA13090	1	0.66	10	2.05	251	-1	0.01	154	1090	4	-0.01	-2	3	18	0.19	-10	-10	77	-10	35	DUPE OF 13091
NA13091	-1	0.69	10	2.04	261	-1	0.02	159	1300	5	-0.01	-2	3	19	0.2	-10	-10	81	-10	37	QTZ. BIO SCHIST

SAMPLE ID	UTM EAST	UTM NORTH	Pair	PROPERTY	GEOLOGIST	SAMPLE DATE	Certificate	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)	Fe (%)	Ga (ppm)	Ge (ppm)
NA13105	573367	7047071	53	LJ	HULSTEIN	06/21/2003	VA03023171	1	-0.2	3.24	5	-10	140	0.7	-2	1.69	-0.5		7	18		28	3.17	10	
NA13106	573367	7047071	53	LJ	HULSTEIN	06/21/2003	VA03023171	1	-0.2	2.98	7	-10	170	0.6	-2	1.17	-0.5		10	33		29	3.44	10	
NA13134	571641	7064974	54	RUBY	HULSTEIN	06/22/2003	VA03023171	-1	-0.2	2.7	-2	-10	180	1	-2	0.49	-0.5		15	38		27	4.29	10	
NA13135	571641	7064974	54	RUBY	HULSTEIN	06/22/2003	VA03023171	-1	-0.2	3.06	3	-10	180	1	-2	0.54	0.5		16	43		27	4.67	10	
NA13161	591194	7003704	55	STEWART	LINLEY	06/22/2003	VA03023171	1	-0.2	2.25	5	-10	250	1.2	-2	0.34	-0.5		16	16		39	6.93	10	
NA13162	591194	7003704	55	STEWART	LINLEY	06/22/2003	VA03023171	1	-0.2	2.18	8	-10	230	0.9	2	0.32	-0.5		14	22		33	5.61	10	
NA13190	598649	6989668	56	STEWART	LINLEY	06/23/2003	VA03024452	-1	-0.2	2.63	12	-10	230	0.5	2	0.23	-0.5		20	37		78	4.03	10	
NA13191	598649	6989668	56	STEWART	LINLEY	06/23/2003	VA03024452	3	-0.2	2.5	10	-10	210	0.5	3	0.21	-0.5		18	35		67	3.85	10	
NA13209	592144	7008903	57	STEWART	RYAN	06/21/2003	VA03023172	-1	-0.2	4.41	2	-10	460	0.8	2	0.74	-0.5		30	165		51	5.82	10	
NA13210	592144	7008903	57	STEWART	RYAN	06/21/2003	VA03023172	11	-0.2	4.3	4	-10	450	0.7	-2	0.73	-0.5		29	161		50	5.66	10	
NA13241	575958	7009667	58	STEWART	RYAN	06/22/2003	VA03023172	-1	-0.2	0.71	2	-10	70	-0.5	-2	0.3	-0.5		7	28		76	1.04	-10	
NA13242	575958	7009667	58	STEWART	RYAN	06/22/2003	VA03023172	6	-0.2	0.65	3	-10	60	-0.5	-2	0.27	-0.5		7	26		76	0.94	-10	
NA13250	577074	7009433	59	STEWART	ROBINSON	06/22/2003	VA03023171	2	-0.2	1.66	5	-10	210	-0.5	-2	0.42	-0.5		11	20		28	3.15	10	
NA13251	577074	7009433	59	STEWART	ROBINSON	06/22/2003	VA03023171	2	-0.2	1.85	7	-10	210	-0.5	-2	0.44	-0.5		12	24		36	3.48	10	
NA13261	578221	7009234	60	STEWART	ROBINSON	06/22/2003	VA03023172	3	-0.2	1.2	3	-10	180	-0.5	-2	0.87	-0.5		10	57		19	2.02	-10	
NA13262	578221	7009234	60	STEWART	ROBINSON	06/22/2003	VA03023172	-1	-0.2	0.76	3	-10	160	-0.5	-2	1.46	-0.5		7	25		22	1.34	-10	
NA13364	575541	7068973	61	RUBY	HULSTEIN	06/26/2003	VA03024951	1	-0.2	4.05	2	-10	840	0.8	-2	0.48	0.5		16	98		77	4.25	10	
NA13365	575541	7068973	61	RUBY	HULSTEIN	06/26/2003	VA03024951	1	-0.2	4.2	-2	-10	870	0.8	-2	0.48	0.6		17	104		76	4.37	10	
NA13412	597500	6992577	62	STEWART	RYAN	06/23/2003	VA03024452	-1	-0.2	4.06	5	-10	190	-0.5	-2	0.51	-0.5		26	45		178	6.67	10	
NA13413	597500	6992577	62	STEWART	RYAN	06/23/2003	VA03024452	1	-0.2	4.12	7	-10	200	-0.5	-2	0.49	-0.5		25	51		172	6.69	10	
NA13443	573674	7074458	63	INDIAN	RYAN	06/24/2003	VA03024452	9	2.7	1.74	6	-10	340	0.7	-2	0.27	1.3		13	65		569	4.01	10	
NA13444	573674	7074458	63	INDIAN	RYAN	06/24/2003	VA03024452	8	2.8	1.91	6	-10	360	0.8	-2	0.28	1.2		14	68		672	4.25	-10	
NA13446	570389	7073841	64	INDIAN	RYAN	06/25/2003	VA03024452	9	3.2	3.09	-2	-10	1970	1.3	-2	1.2	5.3		71	312		220	8.36	20	
NA13542	570389	7073841	64	INDIAN	RYAN	06/25/2003	VA03024952	9	3.4	2.86	-2	-10	1700	1.3	2	1.41	5.6		66	262		219	8.38	10	
NA13480	573134	7074290	65	INDIAN	LINLEY	06/24/2003	VA03024452	1	-0.2	1.42	6	-10	310	-0.5	-2	0.38	-0.5		6	27		26	2.11	-10	
NA13481	573134	7074290	65	INDIAN	LINLEY	06/24/2003	VA03024452	-1	-0.2	1.37	5	-10	290	-0.5	-2	0.35	-0.5		7	25		25	2	-10	
NA13510	571664	7064720	66	RUBY	PRESNELL	06/25/2003	VA03024451	2	-0.2	1.92	6	-10	130	-0.5	-2	0.17	-0.5		11	32		18	3.02	-10	
NA13511	571664	7064720	66	RUBY	PRESNELL	06/25/2003	VA03024451	-1	-0.2	1.82	5	-10	120	-0.5	-2	0.16	-0.5		11	31		17	2.98	10	
NA13534	572977	7076289	67	INDIAN	ROBINSON	06/24/2003	VA03024452	-1	0.3	3.62	-2	-10	1340	0.9	-2	0.4	1.3		22	224		66	5.39	10	
NA13535	572977	7076289	67	INDIAN	ROBINSON	06/24/2003	VA03024452	3	0.3	3.5	4	-10	1290	0.9	-2	0.39	1.1		22	210		64	5.26	10	
NA13539	583678	7022998	68	SHAMROCK	HULSTEIN	07/21/2003	VA03029279	-1	-0.2	1.73	-2	-10	210	0.7	-2	0.56	-0.5		4	13		16	2.84	10	
NA14628	583678	7022998	68	SHAMROCK	HULSTEIN	07/21/2003	VA03029340	1	0.2	1.68	4	-10	230	0.6	-2	0.53	-0.5		7	15		16	2.89	10	
NA13546	576978	7063183	69	INDIAN	LINLEY	06/26/2003	VA03024952	4	-0.2	1.81	16	-10	220	0.6	2	0.27	-0.5		11	39		21	3.24	-10	
NA13547	576978	7063183	69	INDIAN	LINLEY	06/26/2003	VA03024952	3	-0.2	1.84	16	-10	230	0.7	2	0.32	-0.5		11	36		18	3.22	10	
NA13567	591507	6982358	70	STEWART	ROBINSON	06/20/2003	VA03023172	-1	-0.2	1.48	4	-10	150	-0.5	-2	0.09	-0.5		9	17		104	5.44	-10	
NA13568	591507	6982358	70	STEWART	ROBINSON	06/20/2003	VA03023172	-1	-0.2	1.18	4	-10	120	-0.5	-2	0.08	-0.5		8	14		108	5.09	-10	
NA13641	572024	7068715	71	RUBY	BOYER	06/26/2003	VA03024951	3	-0.2	2.81	7	-10	1140	0.6	-2	0.18	-0.5		15	55		58	2.99	10	
NA13642	572024	7068715	71	RUBY	BOYER	06/26/2003	VA03024951	4	-0.2	2.68	7	-10	1200	0.6	-2	0.18	-0.5		16	59		63	3.09	10	
NA13665	572152	7035932	72	SHAMROCK	BOYER	06/28/2003	VA03024951	2	-0.2	2.82	4	-10	360	0.7	-2	1.16	0.5		23	7		122	6.23	10	
NA13666	572152	7035932	72	SHAMROCK	BOYER	06/28/2003	VA03024951	2	-0.2	2.54	-2	10	320	0.6	-2	1.08	-0.5		22	8		111	5.58	10	
NA13716	579446	7033743	73	SHAMROCK	HULSTEIN	07/23/2003	VA03029279	1	-0.2	1.88	7	-10	150	0.6	-2	0.79	-0.5		7	15		17	2.6	10	
NA13718	579446	7033743	73	SHAMROCK	HULSTEIN	07/23/2003	VA03029279	1	-0.2	1.48	4	-10	170	-0.5	-2	0.53	-0.5		6	21		17	2.32	-10	
NA13766	572000	7072033	74	RUBY	HULSTEIN	06/26/2003	VA03024452	-1	-0.2	3.12	-2	-10	930	0.6	2	0.39	-0.5		23	127		90	4.46	10	
NA13767	572000	7072033	74	RUBY	HULSTEIN	06/26/2003	VA03024452	2	-0.2	3.14	2	-10	940	0.6	-2	0.4	-0.5		24	131		89	4.56	10	
NA13791	570816	7066690	75	RUBY	HULSTEIN	06/27/2003	VA03024951	4	0.3	2	8	-10	330	0.5	-2	0.19	-0.5		11	29		33	3.45	10	
NA13792	570816	7066690	75	RUBY	HULSTEIN	06/27/2003	VA03024951	3	0.5	1.94	6	-10	350	-0.5	-2	0.19	-0.5		11	28		33	3.48	10	
NA13813	575432	7065371	76	RUBY	PRESNELL	06/27/2003	VA03024951	6	-0.2	1.53	8	-10	160	-0.5	-2	0.19	-0.5		10	31		37	3.06	10	
NA13814	575432	7065371	76	RUBY	PRESNELL	06/27/2003	VA03024951	6	-0.2	1.51	8	-10	160	-0.5	-2	0.19	-0.5		10	30		39	3.03	-10	
NA13831	574553	7041961	77	SHAMROCK	PRESNELL	06/28/2003	VA03024951	4	0.2	2.7	6	-10	250	0.5	-2	0.21	0.6		11	19		24	3.61	10	
NA13832	574553	7041961	77	SHAMROCK	PRESNELL	06/28/2003	VA03024951	5	0.3	2.73	5	-10	250	0.5	-2	0.2	-0.5		11	18		24	3.66	10	
NA13866	576707	7037496	78	SHAMROCK	HULSTEIN	06/28/2003	VA03024952	-1	0.4	3.39	-2	-10	1430	-0.5	-2	0.42	-0.5		15	20		45	5.11	10	
NA13867	576707	7037496	78	SHAMROCK	HULSTEIN	06/28/2003	VA03024952	2	0.2	3.36	-2	-10	1470	-0.5	-2	0.44	-0.5		16	20		46	5.04	10	
NA13893	583153	7029138	79	SHAMROCK	HULSTEIN	06/29/2003	VA03024952	-1	0.2	3.2	5	-10	580	-0.5	-2	0.66	-0.5		24	19		54	5.46	10	

SAMPLE ID	Hg (ppm)	K (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	NI (ppm)	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	TI (%)	TI (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	NOTES
NA13105	-1	0.29	10	0.68	416	-1	0.03	14	650	5	-0.01	-2	10	100	0.09	-10	-10	39	-10	49	
NA13106	-1	0.22	10	0.82	388	-1	0.03	21	420	6	-0.01	-2	9	80	0.11	-10	-10	53	-10	55	DUPE OF 13105
NA13134	-1	1.23	60	1.1	542	-1	0.01	31	900	10	-0.01	-2	7	35	0.25	-10	-10	43	-10	86	'C' HORIZON OF DECOMPOSED BIO-MUSC SCHIST
NA13135	-1	1.46	60	1.24	608	-1	0.01	32	1000	12	-0.01	-2	9	39	0.27	-10	-10	47	-10	96	DUPE OF 13134
NA13161	1	0.12	10	0.64	788	1	0.01	11	420	10	0.01	-2	24	27	0.05	-10	-10	59	-10	138	
NA13162	-1	0.09	10	0.59	674	1	0.01	15	340	9	0.01	-2	17	27	0.06	-10	-10	61	-10	106	DUPE OF 13161
NA13190	1	0.11	20	0.68	402	-1	0.02	25	350	12	0.01	-2	7	22		-10	-10	77	-10	59	
NA13191	1	0.09	20	0.64	364	1	0.01	24	330	10	0.01	-2	6	20		-10	-10	74	-10	55	DUPE OF 13190
NA13209	-1	0.83	40	2.23	714	1	0.02	47	760	11	-0.01	-2	13	55	0.23	-10	-10	128	-10	102	QTZ. BIO SCHIST?
NA13210	-1	0.79	40	2.11	697	1	0.02	45	730	11	-0.01	-2	13	54	0.22	-10	-10	125	-10	98	DUPE OF 13209
NA13241	-1	0.03	-10	0.25	111	-1	0.01	14	250	3	-0.01	-2	3	17	0.05	-10	-10	24	-10	15	QUARTZ BIOTITE SCHIST?
NA13242	-1	0.03	-10	0.23	99	-1	0.01	13	210	3	-0.01	-2	3	16	0.05	-10	-10	21	-10	13	DUPE OF 13241
NA13250	1	0.27	10	0.7	947	-1	0.02	14	420	5	0.01	-2	9	20	0.11	-10	-10	58	-10	62	
NA13251	-1	0.34	10	0.79	844	-1	0.02	18	430	6	0.01	2	11	21	0.13	-10	-10	64	-10	68	DUPE OF 13250
NA13261	-1	0.05	10	0.61	290	-1	0.03	58	500	4	0.03	-2	3	42	0.07	-10	-10	41	-10	41	BLACK ORGANICS
NA13262	1	0.05	10	0.53	320	1	0.03	40	670	2	0.07	-2	2	66	0.04	-10	-10	25	-10	33	DUPE OF 13261
NA13364	-1	1.42	30	2.04	697	-1	0.04	64	400	8	0.02	-2	12	41	0.28	-10	-10	122	-10	132	SAMPLE TAKEN AT LZ, 'B' AND 'C' HORIZON MIXED, BRN 'B' MIZED GREY QTZ-BIO MUSC SCHIST 'C'
NA13365	-1	1.45	30	2.12	704	-1	0.04	67	370	9	0.01	-2	13	39	0.3	-10	-10	124	-10	134	DUPE OF 13364
NA13412	-1	0.09	10	1.92	626	-1	0.03	21	570	4	0.02	2	11	41		10	-10	189	-10	107	WITH AN ORANGE TONE
NA13413	-1	0.09	10	1.94	641	1	0.03	22	550	6	0.02	2	11	38		-10	-10	190	-10	109	DUPE OF 13412
NA13443	-1	0.12	50	0.41	233	13	-0.01	118	1100	15	0.06	4	4	85		-10	10	123	-10	78	GRAPHITIC QZT NASINA?
NA13444	-1	0.12	50	0.4	232	14	-0.01	130	1140	18	0.06	2	4	95		-10	-10	128	-10	82	DUPE OF 13443
NA13446	-1	0.8	50	2.16	535	10	-0.01	268	2190	7	0.12	2	16	71		-10	-10	339	-10	837	DUPE OF 13542
NA13542	2	0.72	50	2.08	532	8	0.03	308	2040	3	0.09	-2	16	72	0.19	-10	-10	302	-10	835	DUPE PAIR W/ NA13446
NA13480	1	0.07	20	0.45	165	-1	0.02	19	330	5	-0.01	-2	4	32		-10	-10	47	-10	38	
NA13481	1	0.07	20	0.43	155	-1	0.02	18	300	6	-0.01	-2	4	31		-10	-10	45	-10	36	DUPE OF13480
NA13510	-1	0.32	20	0.65	278	-1	0.01	22	160	7	-0.01	-2	4	18	0.14	-10	-10	49	-10	55	QTZ. MUSC GNEISS
NA13511	-1	0.32	20	0.65	268	-1	0.01	22	160	9	-0.01	-2	4	17	0.14	-10	-10	47	-10	54	DUPE OF 13510
NA13534	-1	0.83	10	2.13	720	1	0.01	112	860	10	0.01	3	11	24		-10	-10	162	-10	155	
NA13535	-1	0.83	10	2.01	693	2	0.01	108	830	10	0.01	3	11	23		-10	-10	155	-10	150	Dupe of 13534
NA13539	-1	0.06	20	0.49	431	-1	0.01	12	330	9	-0.01	-2	6	36	0.03	-10	-10	29	-10	44	DUPE OF 14628 REDDISH 'HEMATITE' COLOR IN BANDS W/BN QTZ BIO SCH POSS FAULT GOUGE
NA14628	1	0.06	20	0.5	434	-1	0.01	12	350	9	-0.01	5	6	36	0.03	-10	-10	31	-10	45	DUPE OF NA13539
NA13546	-1	0.13	20	0.51	403	-1	0.01	27	490	9	0.01	-2	7	22	0.09	-10	-10	61	-10	66	
NA13547	-1	0.22	30	0.55	493	-1	0.01	23	660	10	0.01	-2	6	23	0.09	-10	-10	60	-10	75	DUPE OF 13546
NA13567	-1	0.22	10	0.34	77	1	0.13	14	460	8	0.64	-2	7	32	0.02	-10	-10	122	10	43	
NA13568	-1	0.18	10	0.25	67	-1	0.11	11	380	12	0.53	-2	6	25	0.02	-10	-10	104	-10	35	DUPE OF 13567
NA13641	-1	0.22	20	1.17	259	1	-0.01	61	190	10	-0.01	-2	7	22	0.13	10	-10	93	-10	80	
NA13642	1	0.23	20	1.24	270	-1	-0.01	67	200	11	-0.01	-2	8	22	0.14	-10	-10	98	-10	84	DUPE OF 13641
NA13665	-1	0.98	10	1.26	930	-1	0.03	10	3260	3	0.01	-2	22	27	0.24	-10	-10	203	-10	88	
NA13666	-1	0.9	10	1.2	825	-1	0.03	10	2880	3	0.01	3	19	23	0.23	-10	-10	188	-10	88	DUPE OF 13665
NA13716	-1	0.32	30	0.54	362	-1	0.02	10	750	16	-0.01	-2	4	62	0.16	-10	-10	46	-10	66	SOME LOESS, GREATER THAN 30%? DUPLICATE OF 13718
NA13718	-1	0.13	20	0.49	264	-1	0.02	15	520	12	-0.01	-2	4	39	0.14	-10	-10	47	-10	49	DUPLICATE OF 13716
NA13766	1	0.79	30	1.66	641	1	0.03	85	1410	3	0.02	-2	9	27		-10	-10	117	-10	104	SCHIST PEBBLES, POSSIBLY SOME LOESS
NA13767	-1	0.79	30	1.66	631	1	0.03	87	1390	2	0.02	-2	9	27		-10	-10	118	-10	102	DUPE OF 13766
NA13791	-1	0.28	20	0.61	223	-1	0.03	22	380	9	0.17	-2	4	28	0.11	-10	-10	56	-10	66	DUPE OF 13792 LOESS < 30%
NA13792	1	0.35	20	0.62	205	-1	0.03	20	400	8	0.22	-2	3	29	0.11	-10	-10	55	-10	66	DUPE OF 13791
NA13813	-1	0.17	10	0.55	182	-1	0.01	26	490	7	0.02	-2	2	16	0.09	-10	-10	64	-10	52	QTZ. BIO SCHIST, 70%/30% C/A MIX
NA13814	-1	0.17	10	0.53	176	-1	0.01	25	490	5	0.02	-2	2	16	0.08	-10	-10	64	-10	51	DUPE OF 13813
NA13831	-1	0.42	20	0.9	548	1	0.02	13	360	121	0.09	-2	5	85	0.18	-10	-10	56	-10	227	QTZ. MUSC SCHIST
NA13832	-1	0.46	20	0.93	559	-1	0.02	13	360	118	0.09	-2	5	87	0.19	-10	-10	55	-10	231	DUPE OF 13831
NA13866	1	0.86	10	1.4	548	-1	0.05	9	450	8	0.12	2	11	120	0.3	-10	-10	184	-10	121	MINOR LOESS, PEBBLES OF QTZ-BIO-FELD SCHIST
NA13867	-1	0.87	10	1.4	538	-1	0.06	9	450	6	0.13	-2	11	122	0.3	-10	-10	179	-10	122	DUPE OF 13866
NA13893	1	0.93	20	1.72	902	-1	0.02	12	650	-2	0.01	3	8	37	0.21	-10	-10	124	-10	81	DECOMPOSED SCH SL

SAMPLE ID	UTM EAST	UTM NORTH	Pair	PROPERTY	GEOLOGIST	SAMPLE DATE	Certificate	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)	Fe (%)	Ga (ppm)	Ge (ppm)
NA13894	583153	7029138	79	SHAMROCK	HULSTEIN	06/29/2003	VA03024952	-1	-0.2	3.68	7	-10	650	0.5	-2	0.58	-0.5		27	21		64	6.34	10	
NA14029	578792	7038898	80	SHAMROCK	FRANKLIN	08/04/2003	VA03030357	5	1.2	2.52	9	-10	70	-0.5	3	0.1	-0.5		7	49		87	10.25	10	
NA14030	578792	7038898	80	SHAMROCK	FRANKLIN	08/04/2003	VA03030357	7	1	2.57	12	-10	70	-0.5	3	0.1	-0.5		8	49		88	10.45	10	
NA14099	589412	6989314	81	LJ	FRANKLIN	08/08/2003	VA03032534	11	-0.2	2.66	29	-10	550	1	-2	0.73	0.6		14	53		79	4.64	10	
NA14139	589412	6989314	81	LJ	FRANKLIN	08/08/2003	VA03032534	8	-0.2	2.57	27	-10	550	1	-2	0.71	0.7		13	52		82	4.55	10	
NA14182	573341	7053767	82	LJ	FRANKLIN	08/12/2003	VA03032534	4	-0.2	3.15	3	-10	60	-0.5	-2	0.44	-0.5		14	54		459	7.13	10	
NA14183	573341	7053767	82	LJ	FRANKLIN	08/12/2003	VA03032534	2	0.2	2.9	6	-10	70	-0.5	-2	0.42	-0.5		14	51		435	6.87	10	
NA14287	572434	7054546	83	LJ	FRANKLIN	08/10/2003	VA03032534	5	-0.2	3.31	9	-10	220	0.8	2	0.36	-0.5		37	19		200	5.37	10	
NA14288	572434	7054546	83	LJ	FRANKLIN	08/10/2003	VA03032534	6	-0.2	3.42	11	-10	220	0.8	2	0.37	-0.5		41	18		214	5.56	10	
NA14317	571530	7053617	84	LJ	PRESNELL	07/27/2003	VA03029700	2	-0.2	3.11	-2	-10	290	1	-2	0.78	0.5		19	84		44	4.87	10	
NA14318	*571530*	*7053617*	*84*	*LJ*	*PRESNELL*	*07/27/2003*	*VA03029700*	*2*	*-0.2*	*3.28*	*-2*	*-10*	*300*	*1.1*	*-2*	*0.75*	*0.8*		*20*	*87*		*44*	*5*	*10*	
NA14424	579639	7029459	85	SHAMROCK	BOYER	07/01/2003	VA03024953	1	-0.2	2.22	3	-10	360	0.6	-2	0.33	-0.5		9	25		14	3.43	10	
NA14425	579639	7029459	85	SHAMROCK	BOYER	07/01/2003	VA03024953	3	-0.2	2.16	3	-10	370	0.6	2	0.32	-0.5		9	24		12	3.39	10	
NA14479	580448	7036353	86	SHAMROCK	BOYER	07/23/2003	VA03029279	1	-0.2	2.25	11	-10	170	0.5	-2	0.35	-0.5		9	21		20	3.4	10	
NA14480	580448	7036353	86	SHAMROCK	BOYER	07/23/2003	VA03029279	-1	-0.2	2.44	10	-10	170	0.6	-2	0.43	-0.5		8	17		23	3.87	10	
NA14567	570954	7050615	87	LJ	BOYER	07/29/2003	VA03029701	4	0.2	2.25	2	-10	180	0.6	-2	0.73	-0.5		7	21		70	3.05	10	
NA14568	570954	7050615	87	LJ	BOYER	07/29/2003	VA03029701	5	0.2	2.18	-2	-10	180	0.6	-2	0.72	-0.5		7	20		69	3	10	
NA14625	624562	7067459	88	BURNHAM	ROBINSON	06/27/2003	VA03024953	-1	-0.2	1.63	5	-10	80	-0.5	-2	0.09	-0.5		11	23		71	2.91	10	
NA14626	624562	7067459	88	BURNHAM	ROBINSON	06/27/2003	VA03024953	2	0.2	2.12	8	-10	130	-0.5	-2	0.09	-0.5		14	34		44	3.39	10	
NA14727	570339	7050600	89	LJ	HULSTEIN	07/27/2003	VA03029701	1	-0.2	3.34	-2	-10	170	0.7	2	1.37	-0.5		9	17		35	3.38	10	
NA14728	570339	7050600	89	LJ	HULSTEIN	07/27/2003	VA03029701	1	0.4	3.73	-2	-10	180	0.8	-2	1.52	-0.5		10	16		35	3.67	10	
NA14785	575940	7030484	90	SHAMROCK	HULSTEIN	07/01/2003	VA03024953	2	-0.2	3.59	-2	-10	510	-0.5	-2	0.58	-0.5		18	8		55	6.67	10	
NA14786	575940	7030484	90	SHAMROCK	HULSTEIN	07/01/2003	VA03024953	1	-0.2	3.72	3	-10	540	-0.5	-2	0.59	-0.5		18	10		58	6.84	10	
NA14836	572890	7045998	91	LJ	FRANKLIN	08/17/2003	VA03032867	5	-0.2	1.55	-2	-10	260	-0.5	-2	0.28	-0.5		5	26		39	4.11	10	
NA14837	572890	7045998	91	LJ	FRANKLIN	08/17/2003	VA03032867	4	0.2	1.61	-2	-10	270	-0.5	-2	0.28	-0.5		5	28		38	4.17	10	
NA14895	591223	6999547	92	STEWART	ROBINSON	07/24/2003	VA03029340	5	-0.2	2.83	-2	-10	300	-0.5	-2	0.18	-0.5		8	18		42	4.62	-10	
NA14896	591223	6999547	92	STEWART	ROBINSON	07/24/2003	VA03029340	1	-0.2	2.97	-2	-10	310	-0.5	-2	0.18	-0.5		8	17		45	4.86	10	
NA15004	591767	6999695	93	STEWART	RYAN	07/23/2003	VA03029341	3	-0.2	2.93	9	-10	590	-0.5	2	0.42	-0.5		11	33		82	4.8	10	
NA15005	591767	6999695	93	STEWART	RYAN	07/23/2003	VA03029341	4	-0.2	2.78	13	-10	570	-0.5	2	0.4	-0.5		10	31		80	4.67	10	
NA15024	590000	7007929	94	STEWART	RYAN	07/24/2003	VA03029341	-1	-0.2	5.53	9	-10	440	0.5	-2	3.03	-0.5		8	32		52	2.75	20	
NA15025	590000	7007929	94	STEWART	RYAN	07/24/2003	VA03029341	10	-0.2	5.57	8	-10	430	0.5	-2	3.02	-0.5		9	32		50	2.69	20	
NA15164	569544	7054972	95	LJ	HULSTEIN	07/25/2003	VA03029342	11	-0.2	1.1	4	-10	180	-0.5	-2	0.36	-0.5		6	19		55	2.73	-10	
NA15165	569544	7054972	95	LJ	HULSTEIN	07/25/2003	VA03029342	3	-0.2	1.04	6	-10	170	-0.5	-2	0.34	-0.5		5	18		52	2.56	-10	
NA15181	*570474*	*7053977*	*96*	*LJ*	*HULSTEIN*	*07/26/2003*	*VA03029342*	*2*	*-0.2*	*1.46*	*3*	*-10*	*230*	*-0.5*	*-2*	*0.45*	*-0.5*		*7*	*18*		*26*	*3.71*	*10*	
NA15182	570474	7053977	96	LJ	HULSTEIN	07/26/2003	VA03029342	5	-0.2	1.54	4	-10	240	-0.5	-2	0.47	-0.5		8	19		28	3.72	10	
NA15477	569452	7056652	97	LJ	HULSTEIN	07/30/2003	VA03029701	4	-0.2	1.59	-2	-10	120	-0.5	-2	0.22	-0.5		8	15		24	2.54	10	
NA15478	569452	7056652	97	LJ	HULSTEIN	07/30/2003	VA03029701	1	-0.2	1.58	-2	-10	120	-0.5	2	0.25	-0.5		7	14		24	2.44	10	
NA15517	567117	7065262	98	RUBY	HULSTEIN	08/01/2003	VA03030357	1	-0.2	2.17	3	-10	450	0.5	2	0.52	-0.5		11	21		17	4.36	10	
NA15518	567117	7065262	98	RUBY	HULSTEIN	08/01/2003	VA03030357	1	-0.2	2.29	6	-10	490	0.5	-2	0.51	-0.5		11	21		18	4.44	10	
NA15544	567233	7058978	99	LJ	HULSTEIN	08/03/2003	VA03030357	1	-0.2	1.66	5	-10	320	-0.5	-2	0.34	-0.5		6	15		24	2.88	10	
NA15545	567233	7058978	99	LJ	HULSTEIN	08/03/2003	VA03030357	3	0.3	1.5	6	-10	350	-0.5	-2	0.36	-0.5		6	16		24	2.77	10	
NA15575	567178	7058336	100	LJ	HULSTEIN	08/04/2003	VA03030357	3	-0.2	1.36	-2	-10	260	0.6	-2	0.33	-0.5		7	13		71	2.34	10	
NA15576	567178	7058336	100	LJ	HULSTEIN	08/04/2003	VA03030357	-1	-0.2	1.78	-2	-10	360	0.8	2	0.43	-0.5		9	18		128	3.24	10	
NA15622	571454	7054404	101	LJ	HULSTEIN	08/11/2003	VA03032533	11	-0.2	2.21	5	-10	1220	0.6	-2	0.14	-0.5		10	20		86	4.64	10	
NA15623	571454	7054404	101	LJ	HULSTEIN	08/11/2003	VA03032533	11	-0.2	2.15	5	-10	1190	0.6	2	0.14	-0.5		11	20		85	4.54	10	
NA15715	574004	7053552	102	LJ	FRANKLIN	08/06/2003	VA03032534	9	-0.2	2.36	-2	-10	220	-0.5	-2	0.5	-0.5		21	13		458	4.17	10	
NA15716	574004	7053552	102	LJ	FRANKLIN	08/06/2003	VA03032534	2	-0.2	2.23	4	-10	210	-0.5	-2	0.49	-0.5		20	12		428	3.92	10	

SAMPLE ID	Hg (ppm)	K (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Tl (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	NOTES
NA13894	1	1.16	20	1.9	976	-1	0.02	17	430	-2	0.01	2	10	37	0.25	-10	-10	143	-10	90	DUPE OF 13893
NA14029	1	0.66	40	1.29	480	10	0.07	23	1110	3	1.28	3	5	58	0.14	-10	-10	91	-10	94	KILL ZONE - NOTHING GROWING IN A 10X5 AREA REEKS OF SULFIDE
NA14030	-1	0.67	40	1.27	474	10	0.07	24	1130	5	1.31	3	5	60	0.14	-10	-10	92	-10	94	DUPE OF 14029
NA14099	-1	0.45	40	1.22	728	4	0.02	58	1750	152	0.1	2	7	45	0.14	-10	-10	114	-10	312	UNEXPECTEDLY SHALLOW SOIL - UNUSUALLY SO FOR THIS AREA AUGERED DOWN TO 1M & GOOD SOIL PERSISTS MICACEOUS SOIL
NA14139	-1	0.46	40	1.19	693	4	0.02	57	1740	156	0.11	-2	7	44	0.14	-10	-10	110	-10	305	DUPE OF NA14099
NA14182	-1	1.68	20	1.68	530	6	0.05	12	1090	-2	1.36	-2	14	75	0.29	-10	-10	168	-10	83	P.AUGER 1.25M-HIT ROCK HAD TO OFFSET SAMPLE SITE DUE TO P.FROST BIO-QTZ-FEL SCH
NA14183	-1	1.56	20	1.52	486	6	0.05	9	1080	2	1.35	-2	14	73	0.27	-10	-10	156	-10	75	DUPE OF NA14182
NA14287	-1	0.62	20	1.2	923	2	0.01	15	510	5	0.01	-2	10	27	0.15	-10	-10	103	-10	151	WITH 8M OF OUTCROP BIO-QTZ-FEL GNE ORTHOGNEISS
NA14288	-1	0.68	30	1.3	1010	3	0.01	14	530	10	0.01	-2	11	28	0.16	-10	-10	104	-10	163	DUPE OF 14287
NA14317	-1	0.82	110	1.15	1135	1	0.06	55	1240	39	0.01	-2	13	42	0.28	-10	-10	69	-10	94	QTZ MUSC SCHIST DUPLICATE OF 14318
NA14318	-1	0.86	110	1.25	1120	1	0.06	56	1110	41	0.01	-2	13	42	0.29	-10	-10	73	-10	101	DUPLICATE OF 14317
NA14424	-1	0.44	30	0.51	635	1	0.01	12	440	96	0.01	-2	9	25	0.13	-10	-10	50	-10	77	
NA14425	-1	0.46	30	0.51	643	1	0.01	13	440	93	0.01	-2	9	25	0.13	-10	-10	49	-10	76	
NA14479	-1	0.23	30	0.58	335	1	0.01	14	670	13	0.01	2	6	28	0.09	-10	-10	69	-10	70	
NA14480	-1	0.31	50	0.7	396	1	0.01	11	870	15	0.01	2	8	32	0.09	-10	-10	74	-10	78	DUPE OF 14479
NA14567	-1	0.17	20	0.63	350	1	0.02	12	440	7	0.04	2	5	65	0.13	-10	-10	52	-10	64	
NA14568	-1	0.16	20	0.61	337	1	0.02	13	470	11	0.04	3	5	64	0.12	-10	-10	52	-10	62	DUPE OF NA14567
NA14625	-1	0.06	90	0.59	152	-1	-0.01	35	470	5	0.01	3	3	7	0.04	-10	-10	34	-10	45	BLANK CARD
NA14626	-1	0.05	40	0.64	207	1	0.01	30	380	7	-0.01	2	3	9	0.06	-10	-10	58	-10	61	DUPE OF14625
NA14727	-1	0.2	10	0.66	508	1	0.02	11	710	33	0.01	3	6	143	0.13	-10	-10	64	-10	208	DUPE OF NA14728 SOME LOESS RX?
NA14728	-1	0.23	10	0.71	550	-1	0.02	8	680	36	-0.01	-2	6	162	0.14	-10	-10	70	-10	228	DUPE OF 14727
NA14785	-1	0.71	20	1.96	701	2	0.04	11	920	4	-0.01	-2	22	27	0.2	-10	-10	127	-10	83	DECOMPOSED BIOTITE SCHIST
NA14786	1	0.82	30	1.97	703	2	0.03	11	1030	6	0.01	-2	23	29	0.22	-10	-10	123	-10	87	DUPE OF 14785
NA14836	-1	0.43	40	0.51	519	2	0.01	5	470	7	0.13	-2	7	43	0.1	-10	-10	21	-10	158	P. AUGER TO 1.15M-FROZEN. MUS-BIO SCHIST, MICACEOUS SOIL.
NA14837	-1	0.45	40	0.54	541	3	0.01	5	500	7	0.13	2	8	44	0.1	-10	-10	22	-10	162	DUPE OF 14836
NA14895	1	0.19	10	1.16	212	-1	0.03	12	570	-2	0.15	-2	11	20	0.13	-10	-10	126	-10	33	
NA14896	-1	0.22	10	1.23	209	1	0.03	12	610	2	0.15	-2	12	20	0.13	-10	-10	134	-10	33	DUPE OF NA14895
NA15004	-1	0.58	20	1.61	453	-1	0.03	17	550	6	0.01	-2	14	33	0.2	-10	-10	124	-10	63	ORANGE TONE
NA15005	-1	0.58	20	1.57	435	-1	0.03	18	550	5	0.01	-2	13	31	0.19	-10	-10	122	-10	62	DUPE OF NA15004
NA15024	-1	0.31	10	1.08	446	-1	0.02	7	820	-2	0.01	-2	12	234	0.16	-10	-10	81	-10	56	
NA15025	-1	0.31	10	1.08	438	-1	0.02	6	840	2	-0.01	-2	12	237	0.15	-10	-10	79	-10	55	DUP OF 15024
NA15164	-1	0.08	10	0.4	137	-1	0.02	12	730	7	0.14	-2	3	29	0.08	-10	-10	42	-10	46	OR-BN CRSE SAND FINE GRAVEL OF LIMONITE MICACEOUS SCH
NA15165	-1	0.07	10	0.38	129	1	0.02	12	680	7	0.13	-2	3	28	0.07	-10	-10	38	-10	44	DUP OFNA15164
NA15181	-1	0.08	20	0.54	437	-1	0.02	13	400	8	0.01	-2	9	23	0.09	-10	-10	58	-10	98	DUPLICATE OF 15182, SL ALMOST LOOKS LIKE A FILL
NA15182	-1	0.08	20	0.56	434	-1	0.02	13	380	6	0.01	-2	10	24	0.1	-10	-10	61	-10	101	DUPLICATE OF 15181
NA15477	-1	0.26	30	0.96	362	1	0.01	7	370	11	0.01	2	9	15	0.12	-10	-10	71	-10	106	DUPE OF 15478. RK TYPE: QTZ-FELD-MUSC GNEISS. AT BASE OF SLOPE
NA15478	-1	0.29	30	1.03	373	-1	0.01	9	470	7	0.01	2	10	15	0.12	-10	-10	71	-10	112	DUPE OF 15477
NA15517	-1	0.7	30	1.16	706	-1	0.01	15	1640	22	-0.01	2	11	18	0.17	-10	-10	87	-10	90	DUPE OF 15518, RK TYPE: BIO-MUSC SCHIST, SANDY SL
NA15518	-1	0.8	40	1.27	755	-1	0.01	15	1610	31	-0.01	2	12	18	0.19	-10	-10	88	-10	108	DUPE OF 15517
NA15544	-1	0.32	10	0.58	350	1	0.01	13	750	36	0.01	-2	7	22	0.07	-10	-10	72	-10	142	SANDY, ORANGE TINGE DUPE OF 15545
NA15545	-1	0.27	10	0.57	460	1	0.01	14	910	27	0.01	-2	6	21	0.09	-10	-10	74	-10	130	DUP OF 15544
NA15575	-1	0.31	30	0.5	207	1	0.01	10	830	15	-0.01	-2	7	24	0.04	-10	-10	42	-10	116	SCH, MUSC MINOR QTZ DUP 155576
NA15576	-1	0.4	40	0.69	240	1	0.01	13	1060	17	-0.01	-2	9	27	0.05	-10	-10	57	-10	154	DUPE OF 15575 SAMPS 6" APART
NA15622	-1	0.58	50	1.14	502	3	0.01	17	480	17	0.13	-2	11	37	0.14	-10	-10	74	-10	160	QTZ-MUSC SCH DUP OF NA15623
NA15623	-1	0.55	50	1.1	482	3	0.01	16	460	14	0.13	-2	10	36	0.13	-10	-10	74	-10	158	DUPE OF NA15622
NA15715	-1	0.53	20	1.18	578	8	0.01	9	520	-2	0.01	-2	6	32	0.13	-10	-10	89	-10	66	DUPE OF NA15716
NA15716	-1	0.5	20	1.1	545	7	0.01	9	520	-2	0.01	-2	5	31	0.12	-10	-10	83	-10	62	DUPE OF 15715

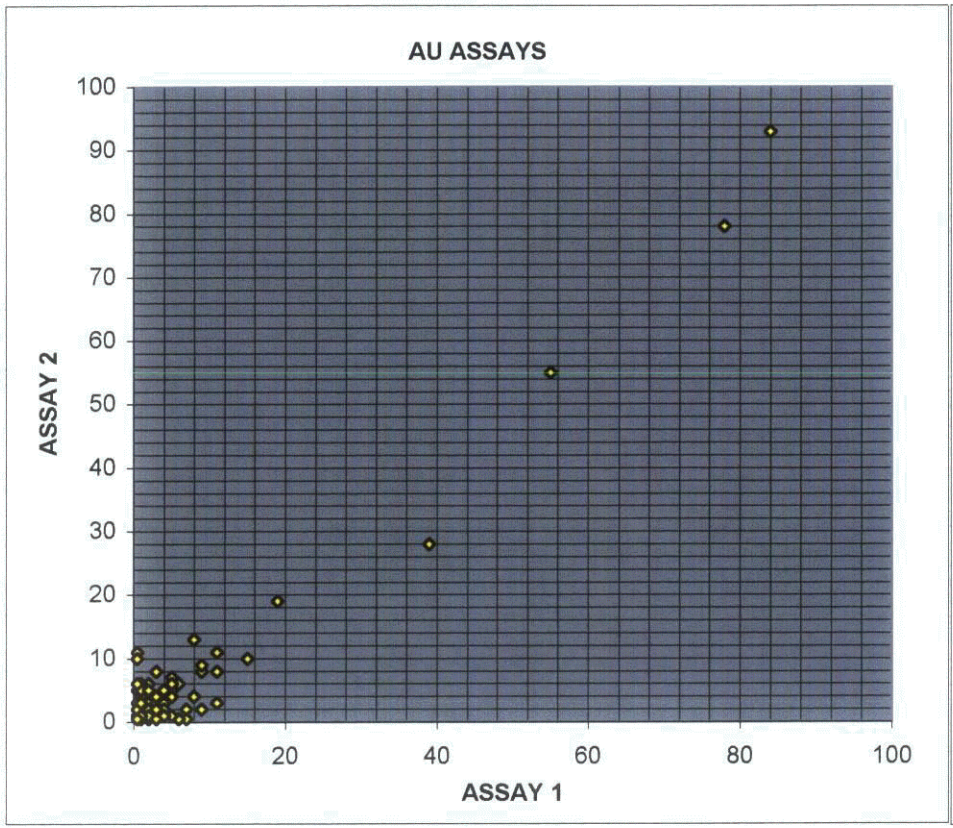
SAMPLE ID	UTM EAST	UTM NORTH	Pair	PROPERTY	GEOLOGIST	SAMPLE DATE	Certificate	Au (ppb)	Ag (ppm)	Al (%)	As (ppm)	B (ppm)	Ba (ppm)	Be (ppm)	Bi (ppm)	Ca (%)	Cd (ppm)	Ce (ppm)	Co (ppm)	Cr (ppm)	Cs (ppm)	Cu (ppm)	Fe (%)	Ga (ppm)	Ge (ppm)
NA15733	572533	7054066	103	LJ	FRANKLIN	08/14/2003	VA03032867	8	-0.2	3.21	-2	-10	250	0.6	-2	0.63	-0.5		14	42		161	4.53	10	
NA15734	572533	7054066	103	LJ	FRANKLIN	08/14/2003	VA03032867	13	-0.2	3.41	2	-10	260	0.6	-2	0.67	-0.5		15	44		167	4.67	10	
NA15753	571947	7055465	104	LJ	HULSTEIN	08/12/2003	VA03032534	5	-0.2	2.88	8	-10	280	-0.5	2	0.27	-0.5		17	32		540	5.52	10	
NA15754	571947	7055465	104	LJ	HULSTEIN	08/12/2003	VA03032534	6	0.2	3.02	7	-10	180	-0.5	-2	0.28	-0.5		17	33		594	5.72	10	
NA15778	570852	7055219	105	LJ	HULSTEIN	08/13/2003	VA03032867	19	0.3	3.42	-2	10	60	-0.5	-2	0.13	-0.5		1	17		390	8.66	10	
NA15779	570852	7055219	105	LJ	HULSTEIN	08/13/2003	VA03032867	19	0.3	3.44	-2	10	50	-0.5	-2	0.13	-0.5		1	16		388	8.52	10	
NA16005	569935	7055611	106	LJ	HULSTEIN	08/14/2003	VA03032867	78	0.7	2.4	4	-10	300	-0.5	-2	0.19	-0.5		5	12		1505	5.03	10	
NA16006	569935	7055611	106	LJ	HULSTEIN	08/14/2003	VA03032867	78	0.9	2.78	2	-10	270	-0.5	-2	0.21	-0.5		5	11		1695	5.49	10	
NA16027	570078	7056033	107	LJ	HULSTEIN	08/15/2003	VA03032867	5	-0.2	2.61	-2	-10	350	0.6	3	0.17	-0.5		3	8		560	6.59	10	
NA16028	570078	7056033	107	LJ	HULSTEIN	08/15/2003	VA03032867	6	-0.2	2.74	-2	-10	350	0.6	4	0.18	-0.5		3	9		571	6.63	10	
NA16405	572451	7046799	108	LJ	HULSTEIN	08/16/2003	VA03032867	39	0.6	2.48	7	-10	600	0.7	-2	0.7	0.5		8	39		751	4.89	10	
NA16406	572451	7046799	108	LJ	HULSTEIN	08/16/2003	VA03032867	28	0.6	2.51	6	-10	610	0.8	-2	0.66	0.6		9	42		580	4.79	10	
NA16429	571689	7048095	109	LJ	HULSTEIN	08/18/2003	VA03032867	3	-0.2	3.1	5	-10	150	0.9	-2	1.44	0.5		19	144		31	3.77	10	
NA16430	571689	7048095	109	LJ	HULSTEIN	08/18/2003	VA03032867	2	-0.2	3.21	5	-10	150	0.9	-2	1.49	-0.5		19	154		32	3.94	10	
NA16568	578171	7046201	110	LJ	PRESNELL	08/20/2003	VA03034140	-1	-0.2	2.69	-2	-10	210	-0.5	-2	0.43	-0.5		18	25		28	4.27	10	
NA16569	578171	7046201	110	LJ	PRESNELL	08/20/2003	VA03034140	-1	-0.2	2.67	2	-10	210	-0.5	-2	0.41	-0.5		17	26		28	4.29	10	

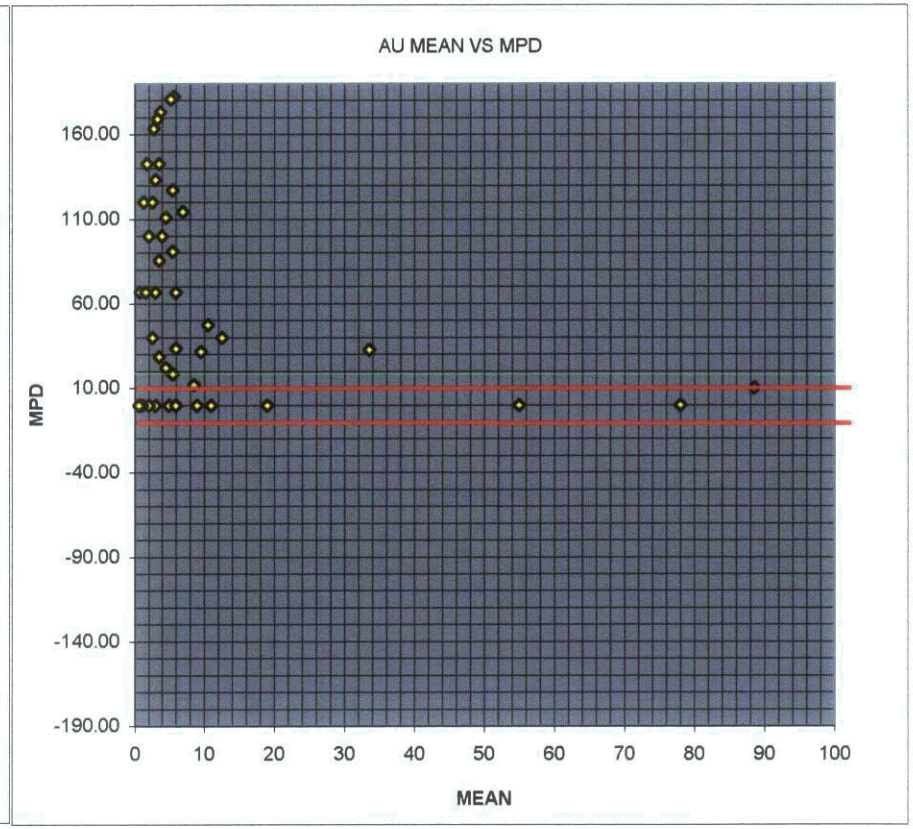
SAMPLE ID	Hg (ppm)	K (%)	La (ppm)	Mg (%)	Mn (ppm)	Mo (ppm)	Na (%)	Ni (ppm)	P (ppm)	Pb (ppm)	S (%)	Sb (ppm)	Sc (ppm)	Sr (ppm)	Tl (%)	Tl (ppm)	U (ppm)	V (ppm)	W (ppm)	Zn (ppm)	NOTES
NA15733	-1	0.4	20	1.17	292	2	0.04	10	500	7	0.42	-2	9	108	0.19	-10	-10	110	-10	66	P. AUGER TO 1.21M. HIT BDRK, HAD TO OFFSET SAMPLE SITE DUE TO PERMAFROST. ORTHOGNEISS? DUPE OF 15734
NA15734	1	0.41	20	1.21	312	3	0.04	10	510	6	0.42	-2	9	113	0.19	-10	-10	115	-10	69	DUPE OF 15733
NA15753	-1	1.65	30	1.45	548	8	0.02	12	830	9	0.78	-2	12	62	0.17	-10	-10	122	-10	69	DUPE OF NA15754 BIO RICH SCH
NA15754	-1	1.75	30	1.52	567	8	0.02	11	830	-2	0.8	-2	12	65	0.18	-10	-10	128	-10	72	DUPE OF NA15753
NA15778	1	1.24	20	0.58	118	4	0.59	3	460	13	3.84	-2	10	132	0.06	-10	-10	93	-10	40	IN OLD PALES GULLY. RK TYPE: QTZ-MUSC SCHIST. LIMONITE AND HEMATITE COLOR PATCHES. DUPE OF 15779
NA15779	1	1.24	10	0.58	117	4	0.59	3	440	16	3.88	-2	10	135	0.06	-10	-10	92	-10	39	DUPE OF 15778
NA16005	2	0.94	70	0.98	204	56	0.05	7	860	9	1.05	-2	7	72	0.2	-10	10	59	-10	65	RK TYPE: BIO-QTZ SCHIST. SOLIFLUCTION. SAMPLE SITE AS S. RYAN SAMPLE #12375N/3250E.
NA16006	1	1.05	70	1.14	229	55	0.05	5	930	10	1.13	-2	8	81	0.22	-10	10	64	-10	72	DUPE OF 16005
NA16027	1	0.36	50	0.37	91	6	0.12	9	960	10	0.96	-2	6	244	0.07	-10	-10	59	-10	43	RK TYPE: MUS-QTZ SCHIST (PHYLLIC ALT?)=LIMONITIC ORANGE COLORED SL. VERY GOOD SAMPLE! DUPE OF 16028
NA16028	-1	0.37	50	0.41	97	5	0.13	7	980	10	0.96	-2	6	260	0.08	-10	-10	61	-10	45	DUPE OF 16027
NA16405	-1	0.42	30	1.28	803	9	0.03	21	1560	59	0.36	2	11	49	0.09	-10	-10	94	-10	196	DUPE OF NA16406
NA16406	-1	0.38	30	1.29	853	8	0.03	21	1290	44	0.27	-2	11	44	0.09	-10	-10	97	-10	196	DUPE OF NA16405
NA16429	1	0.19	10	1.34	1235	4	0.02	61	800	12	-0.01	-2	11	110	0.22	-10	-10	94	-10	201	RK TYPE: AMP? AND SCHIST. DUPE OF NA16430
NA16430	-1	0.19	10	1.41	1280	4	0.03	63	840	14	-0.01	-2	12	114	0.23	-10	-10	98	-10	207	DUPE OF NA16429
NA16568	-1	1.12	20	1.46	622	-1	0.01	14	740	5	0.01	2	5	25	0.23	-10	-10	94	-10	76	DUPE OF 16569. ROCK TYPE: QTZ-MICA SCHIST.
NA16569	-1	1.15	20	1.47	623	1	0.01	9	710	4	0.01	3	5	23	0.23	-10	-10	97	-10	77	DUPE OF 16568

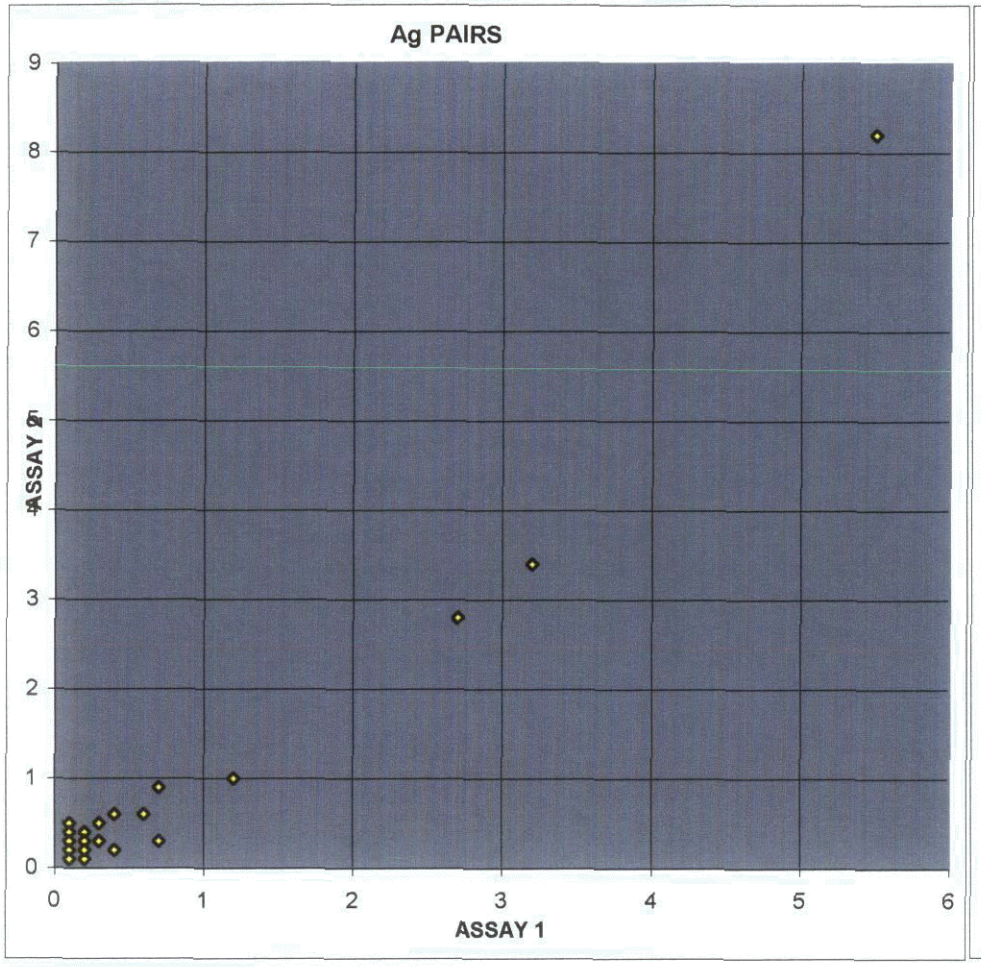
Sample Duplicates

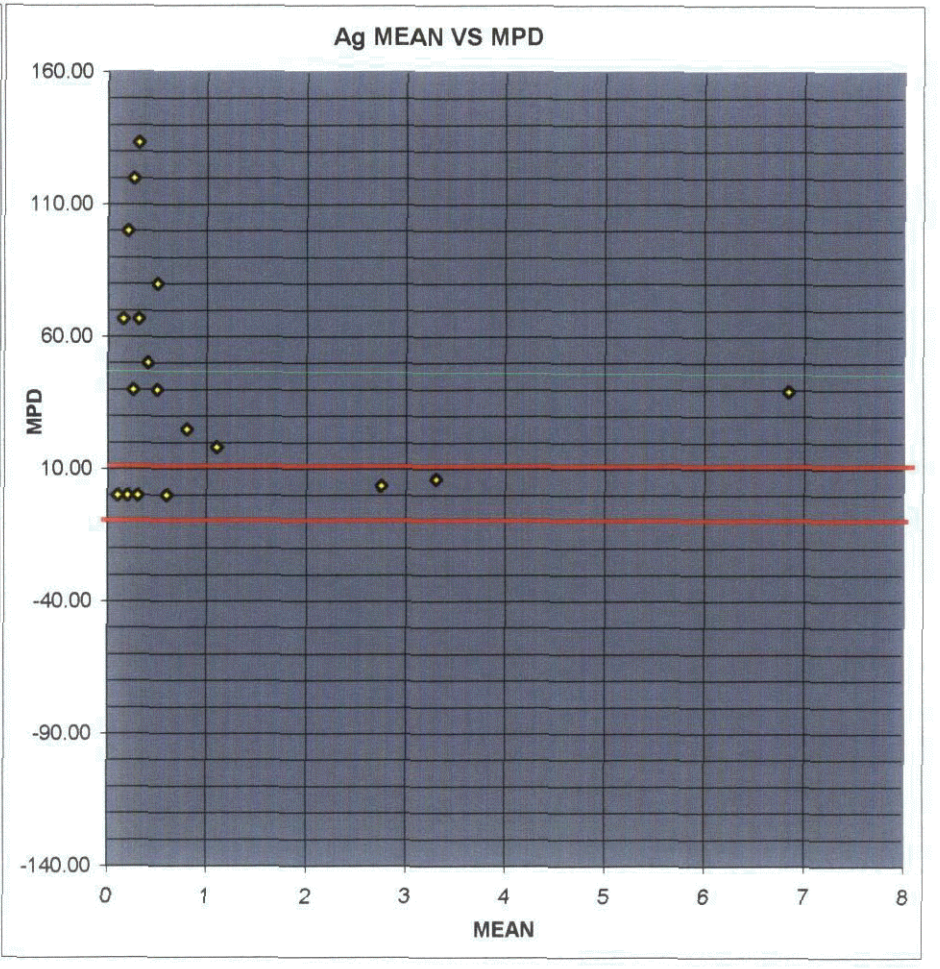
SAMPLE	Au		Ag		Cu		Fe		Mo		Na		Pb		Zn	
PAIR	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD
1	0.75	66.67	0.1	0.00	45.5	6.59	3.38	1.78	0.5	0.00	0.02	0.00	1.5	66.67	69.5	1.44
2	2	0.00	0.1	0.00	15.5	19.35	3.55	23.66	0.5	0.00	0.02	0.00	7	28.57	78.5	34.39
3	0.5	0.00	0.1	0.00	11.5	8.70	4.07	5.41	0.75	66.67	0.02	0.00	5	40.00	70	2.86
4	0.75	66.67	0.1	0.00	33	6.06	2.335	5.57	2	0.00	0.01	0.00	9	0.00	48.5	6.19
5	0.5	0.00	0.1	0.00	24	0.00	4.46	1.79	0.5	0.00	0.01	0.00	19.5	5.13	227.5	1.32
6	2	0.00	0.1	0.00	96	2.08	5.435	4.97	4	0.00	0.01	0.00	4.5	22.22	129	4.65
7	0.5	0.00	0.1	0.00	14.5	6.90	3.69	7.05	0.5	0.00	0.01	0.00	6.5	15.38	66.5	4.51
8	1.5	66.67	0.1	0.00	63	3.17	4.23	6.15	2	0.00	0.01	0.00	7	28.57	51.5	1.94
9	55	0.00	0.1	0.00	34.5	8.70	2.855	7.36	0.5	0.00	0.01	0.00	21	9.52	58	10.34
10	3.5	85.71	0.3	133.33	28	7.14	2.83	2.83	1	0.00	0.03	0.00	7	0.00	67.5	10.37
11	2.5	120.00	0.1	0.00	40.5	2.47	3.9	1.54	0.75	66.67	0.055	18.18	10	40.00	50	4.00
12	1.5	66.67	0.1	0.00	22	9.09	3.83	1.04	1.5	66.67	0.02	0.00	6	33.33	69.5	1.44
13	4.5	111.11	0.1	0.00	10.5	28.57	2.515	5.17	0.5	0.00	0.025	40.00	6	66.67	41	14.63
14	0.75	66.67	0.1	0.00	100.5	6.97	4.58	0.87	0.75	66.67	0.04	0.00	10.5	47.62	60.5	1.65
15	2	0.00	0.1	0.00	17	11.76	2.43	2.47	0.75	66.67	0.01	0.00	9	22.22	40	0.00
16	2.5	40.00	0.1	0.00	19.5	5.13	3.195	13.46	0.75	66.67	0.015	66.67	8.5	11.76	56.5	5.31
17	2	100.00	0.15	66.67	50.5	9.90	6.91	8.97	0.5	0.00	0.035	28.57	1	0.00	99	4.04
18	0.5	0.00	0.15	66.67	54	33.33	3.065	7.50	0.75	66.67	0.015	66.67	7.5	93.33	65.5	16.79
19	4	100.00	0.1	0.00	73.5	23.13	4.625	10.16	0.5	0.00	0.01	0.00	4.5	66.67	61	6.56
20	2.5	120.00	0.25	120.00	43.5	2.30	4.47	0.45	1.25	120.00	0.02	0.00	14.5	20.69	101	5.94
21	1.75	142.86	0.1	0.00	14	0.00	2.915	2.40	0.5	0.00	0.01	0.00	9	0.00	47	8.51
22	1	0.00	0.1	0.00	28	0.00	4.47	5.37	0.75	66.67	0.01	0.00	12.5	24.00	82	2.44
23	3.75	173.33	0.3	66.67	39	5.13	2.805	2.50	1.5	66.67	0.02	0.00	8.5	11.76	69	2.90
24	3	0.00	0.25	40.00	47	4.26	2.685	2.61	2	0.00	0.01	0.00	20	0.00	87.5	3.43
25	2.5	40.00	0.1	0.00	21	28.57	2.775	0.36	1	0.00	0.01	0.00	8.5	11.76	42.5	2.35
26	1.25	120.00	0.1	0.00	31	0.00	4.135	1.69	3	0.00	0.01	0.00	18.5	5.41	125	1.60
27	0.75	66.67	0.1	0.00	105	5.71	4.51	2.22	2	0.00	0.01	0.00	7	28.57	51	3.92
28	1.25	120.00	0.2	0.00	18.5	59.46	3.675	72.11	0.5	0.00	0.02	0.00	5.5	54.55	290.5	142.86
29	1.25	120.00	0.1	0.00	88.5	5.65	3.94	2.03	0.5	0.00	0.01	0.00	28	7.14	539	2.60
30	6	0.00	0.5	40.00	45.5	6.59	3.375	2.07	2	0.00	0.02	0.00	25	0.00	131.5	2.28
31	3.5	142.86	0.1	0.00	21	38.10	3.63	3.86	1.5	66.67	0.01	0.00	12	33.33	64.5	10.85
32	5	0.00	0.1	0.00	33	6.06	4.465	4.26	0.5	0.00	0.025	40.00	9	22.22	87.5	3.43
33	12.5	40.00	0.1	0.00	17.5	5.71	2.9	6.90	1	0.00	0.01	0.00	11	0.00	62.5	8.00
34	6	66.67	0.5	80.00	73.5	9.52	4.355	9.87	0.5	0.00	0.03	0.00	3.5	28.57	91.5	9.84
35	2	100.00	0.1	0.00	48.5	2.06	3.15	4.44	0.5	0.00	0.01	0.00	112.5	6.22	112.5	4.44
36	0.75	66.67	0.1	0.00	14	0.00	2.875	1.04	1	0.00	0.01	0.00	8.5	11.76	80	0.00
37	2.5	40.00	0.3	66.67	25	0.00	3.35	6.57	0.5	0.00	0.025	40.00	9	0.00	124.5	0.80
38	0.5	0.00	0.1	0.00	20.5	34.15	4.475	22.12	0.5	0.00	0.02	0.00	4	0.00	67	59.70
39	1	0.00	0.1	0.00	19	0.00	3.605	1.94	0.5	0.00	0.02	0.00	12	0.00	71.5	1.40
40	2	100.00	0.1	0.00	34.5	2.90	4.135	0.24	1	0.00	0.02	0.00	8.5	11.76	100.5	1.00
41	0.5	0.00	0.1	0.00	21	9.52	3.82	0.52	1	0.00	0.01	0.00	15	13.33	43.5	2.30
42	2.75	163.64	0.1	0.00	28	0.00	2.79	0.00	1	0.00	0.02	0.00	8	50.00	66.5	1.50
43	3	133.33	0.1	0.00	36	5.56	3.585	3.63	0.5	0.00	0.02	0.00	10	0.00	64	3.13
44	1	0.00	0.1	0.00	14	0.00	5.105	2.15	0.75	66.67	0.01	0.00	17	94.12	166	0.00
45	2	0.00	0.1	0.00	22.5	4.44	2.34	2.56	0.5	0.00	0.01	0.00	5.5	54.55	44.5	2.25
46	88.5	10.17	6.85	39.42	664	46.99	5.105	17.83	8.5	58.82	0.025	40.00	52	65.38	131.5	46.39
47	1	0.00	0.1	0.00	27.5	3.64	4.635	4.10	0.5	0.00	0.02	0.00	8	0.00	169.5	6.49
48	1.25	120.00	0.1	0.00	13	0.00	4.415	3.40	0.5	0.00	0.01	0.00	5.5	54.55	71.5	4.20
49	2	0.00	0.2	100.00	35	17.14	3.405	0.29	0.5	0.00	0.01	0.00	12.5	8.00	59	3.39
50	5.5	90.91	0.1	0.00	78	2.56	3.36	2.38	0.5	0.00	0.03	0.00	5.5	18.18	61.5	4.88
51	0.5	0.00	0.1	0.00	38.5	7.79	3.825	1.83	1	0.00	0.01	0.00	13	15.38	74	8.11
52	3.25	169.23	0.1	0.00	35	11.43	2.8	4.29	0.5	0.00	0.015	66.67	4.5	22.22	36	5.56
53	1	0.00	0.1	0.00	28.5	3.51	3.305	8.17	0.5	0.00	0.03	0.00	5.5	18.18	52	11.54
54	0.5	0.00	0.1	0.00	27	0.00	4.48	8.48	0.5	0.00	0.01	0.00	11	18.18	91	10.99
55	1	0.00	0.1	0.00	36	16.67	6.27	21.05	1	0.00	0.01	0.00	9.5	10.53	122	26.23
56	1.75	142.86	0.1	0.00	72.5	15.17	3.94	4.57	0.75	66.67	0.015	66.67	11	18.18	57	7.02
57	5.75	182.61	0.1	0.00	50.5	1.98	5.74	2.79	1	0.00	0.02	0.00	11	0.00	100	4.00
58	3.25	169.23	0.1	0.00	76	0.00	0.99	10.10	0.5	0.00	0.01	0.00	3	0.00	14	14.29
59	2	0.00	0.1	0.00	32	25.00	3.315	9.95	0.5	0.00	0.02	0.00	5.5	18.18	65	9.23
60	1.75	142.86	0.1	0.00	20.5	14.63	1.68	40.48	0.75	66.67	0.03	0.00	3	66.67	37	21.62
61	1	0.00	0.1	0.00	76.5	1.31	4.31	2.78	0.5	0.00	0.04	0.00	8.5	11.76	133	1.50
62	0.75	66.67	0.1	0.00	175	3.43	6.68	0.30	0.75	66.67	0.03	0.00	5	40.00	108	1.85
63	8.5	11.76	2.75	3.64	620.5	16.60	4.13	5.81	13.5	7.41	0.005	0.00	16.5	18.18	80	5.00
64	9	0.00	3.3	6.06	219.5	0.46	8.37	0.24	9	22.22	0.0175	142.86	5	80.00	836	0.24
65	0.75	66.67	0.1	0.00	25.5	3.92	2.055	5.35	0.5	0.00	0.02	0.00	5.5	18.18	37	5.41
66	1.25	120.00	0.1	0.00	17.5	5.71	3	1.33	0.5	0.00	0.01	0.00	8	25.00	54.5	1.83
67	1.75	142.86	0.3	0.00	65	3.08	5.325	2.44	1.5	66.67	0.01	0.00	10	0.00	152.5	3.28
68	0.75	66.67	0.15	66.67	16	0.00	2.865	1.75	0.5	0.00	0.01	0.00	9	0.00	44.5	2.25
69	3.5	28.57	0.1	0.00	19.5	15.38	3.23	0.62	0.5	0.00	0.01	0.00	9.5	10.53	70.5	12.77
70	0.5	0.00	0.1	0.00	106	3.77	5.265	6.65	0.75	66.67	0.12	16.67	10	40.00	39	20.51

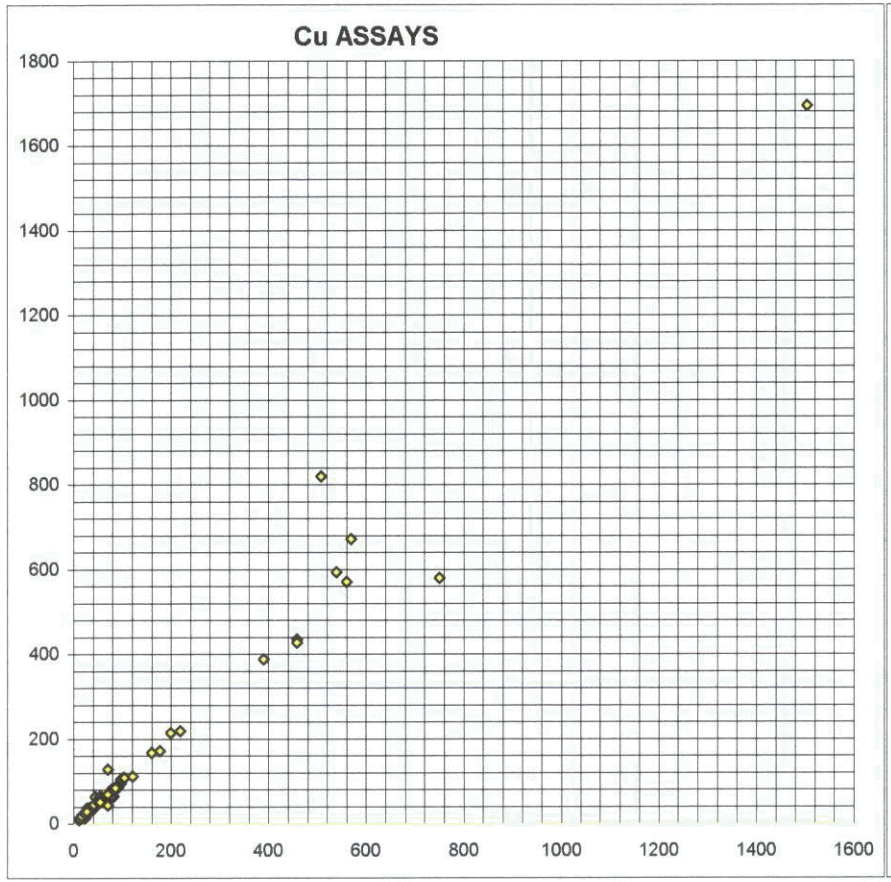
SAMPLE PAIR	Au		Ag		Cu		Fe		Mo		Na		Pb		Zn	
	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD	MEAN	MPD
71	3.5	28.57	0.1	0.00	60.5	8.26	3.04	3.29	0.75	66.67	0.005	0.00	10.5	9.52	82	4.88
72	2	0.00	0.1	0.00	116.5	9.44	5.905	11.01	0.5	0.00	0.03	0.00	3	0.00	88	0.00
73	1	0.00	0.1	0.00	17	0.00	2.46	11.38	0.5	0.00	0.02	0.00	14	28.57	57.5	29.57
74	1.25	120.00	0.1	0.00	89.5	1.12	4.51	2.22	1	0.00	0.03	0.00	2.5	40.00	103	1.94
75	3.5	28.57	0.4	50.00	33	0.00	3.465	0.87	0.5	0.00	0.03	0.00	8.5	11.76	66	0.00
76	6	0.00	0.1	0.00	38	5.26	3.045	0.99	0.5	0.00	0.01	0.00	6	33.33	51.5	1.94
77	4.5	22.22	0.25	40.00	24	0.00	3.635	1.38	0.75	66.67	0.02	0.00	119.5	2.51	229	1.75
78	1.25	120.00	0.3	66.67	45.5	2.20	5.075	1.38	0.5	0.00	0.055	18.18	7	28.57	121.5	0.82
79	0.5	0.00	0.15	66.67	59	16.95	5.9	14.92	0.5	0.00	0.02	0.00	1	0.00	85.5	10.53
80	6	33.33	1.1	18.18	87.5	1.14	10.35	1.93	10	0.00	0.07	0.00	4	50.00	94	0.00
81	9.5	31.58	0.1	0.00	80.5	3.73	4.595	1.96	4	0.00	0.02	0.00	154	2.60	308.5	2.27
82	3	66.67	0.15	66.67	447	5.37	7	3.71	6	0.00	0.05	0.00	1.5	66.67	79	10.13
83	5.5	18.18	0.1	0.00	207	6.76	5.465	3.48	2.5	40.00	0.01	0.00	7.5	66.67	157	7.64
84	2	0.00	0.1	0.00	44	0.00	4.935	2.63	1	0.00	0.06	0.00	40	5.00	97.5	7.18
85	2	100.00	0.1	0.00	13	15.38	3.41	1.17	1	0.00	0.01	0.00	94.5	3.17	76.5	1.31
86	0.75	66.67	0.1	0.00	21.5	13.95	3.635	12.93	1	0.00	0.01	0.00	14	14.29	74	10.81
87	4.5	22.22	0.2	0.00	69.5	1.44	3.025	1.65	1	0.00	0.02	0.00	9	44.44	63	3.17
88	1.25	120.00	0.15	66.67	57.5	46.96	3.15	15.24	0.75	66.67	0.0075	66.67	6	33.33	53	30.19
89	1	0.00	0.25	120.00	35	0.00	3.525	8.23	0.75	66.67	0.02	0.00	34.5	8.70	218	9.17
90	1.5	66.67	0.1	0.00	56.5	5.31	6.755	2.52	2	0.00	0.035	28.57	5	40.00	85	4.71
91	4.5	22.22	0.15	66.67	38.5	2.60	4.14	1.45	2.5	40.00	0.01	0.00	7	0.00	160	2.50
92	3	133.33	0.1	0.00	43.5	6.90	4.74	5.06	0.75	66.67	0.03	0.00	1.5	66.67	33	0.00
93	3.5	28.57	0.1	0.00	81	2.47	4.735	2.75	0.5	0.00	0.03	0.00	5.5	18.18	62.5	1.60
94	5.25	180.95	0.1	0.00	51	3.92	2.72	2.21	0.5	0.00	0.02	0.00	1.5	66.67	55.5	1.80
95	7	114.29	0.1	0.00	53.5	5.61	2.645	6.43	0.75	66.67	0.02	0.00	7	0.00	45	4.44
96	3.5	85.71	0.1	0.00	27	7.41	3.715	0.27	0.5	0.00	0.02	0.00	7	28.57	99.5	3.02
97	2.5	120.00	0.1	0.00	24	0.00	2.49	4.02	0.75	66.67	0.01	0.00	9	44.44	109	5.50
98	1	0.00	0.1	0.00	17.5	5.71	4.4	1.82	0.5	0.00	0.01	0.00	26.5	33.96	99	18.18
99	2	100.00	0.2	100.00	24	0.00	2.825	3.89	1	0.00	0.01	0.00	31.5	28.57	136	8.82
100	1.75	142.86	0.1	0.00	99.5	57.29	2.79	32.26	1	0.00	0.01	0.00	16	12.50	135	28.15
101	11	0.00	0.1	0.00	85.5	1.17	4.59	2.18	3	0.00	0.01	0.00	15.5	19.35	159	1.26
102	5.5	127.27	0.1	0.00	443	6.77	4.045	6.18	7.5	13.33	0.01	0.00	1	0.00	64	6.25
103	10.5	47.62	0.1	0.00	164	3.66	4.6	3.04	2.5	40.00	0.04	0.00	6.5	15.38	67.5	4.44
104	5.5	18.18	0.15	66.67	567	9.52	5.62	3.56	8	0.00	0.02	0.00	5	160.00	70.5	4.26
105	19	0.00	0.3	0.00	389	0.51	8.59	1.63	4	0.00	0.59	0.00	14.5	20.69	39.5	2.53
106	78	0.00	0.8	25.00	1600	11.88	5.26	8.75	55.5	1.80	0.05	0.00	9.5	10.53	68.5	10.22
107	5.5	18.18	0.1	0.00	565.5	1.95	6.61	0.61	5.5	18.18	0.125	8.00	10	0.00	44	4.55
108	33.5	32.84	0.6	0.00	665.5	25.69	4.84	2.07	8.5	11.76	0.03	0.00	51.5	29.13	196	0.00
109	2.5	40.00	0.1	0.00	31.5	3.17	3.855	4.41	4	0.00	0.025	40.00	13	15.38	204	2.94
110	0.5	0.00	0.1	0.00	28	0.00	4.28	0.47	0.75	66.67	0.01	0.00	4.5	22.22	76.5	1.31
AVG	**5.18**	**56.67**	**0.27**	**14.99**	**98.53**	**8.68**	**4.08**	**5.86**	**2.13**	**17.94**	**0.03**	**7.22**	**14.42**	**24.96**	**100.29**	**8.26**
MIN CONC	**0.50**		**0.10**		**9.00**		**0.94**		**0.50**		**0.01**		**1.00**		**13.00**	
MAX CONC	**93**		**8.2**		**1695**		**10.45**		**56**		**0.59**		**156**		**837**	

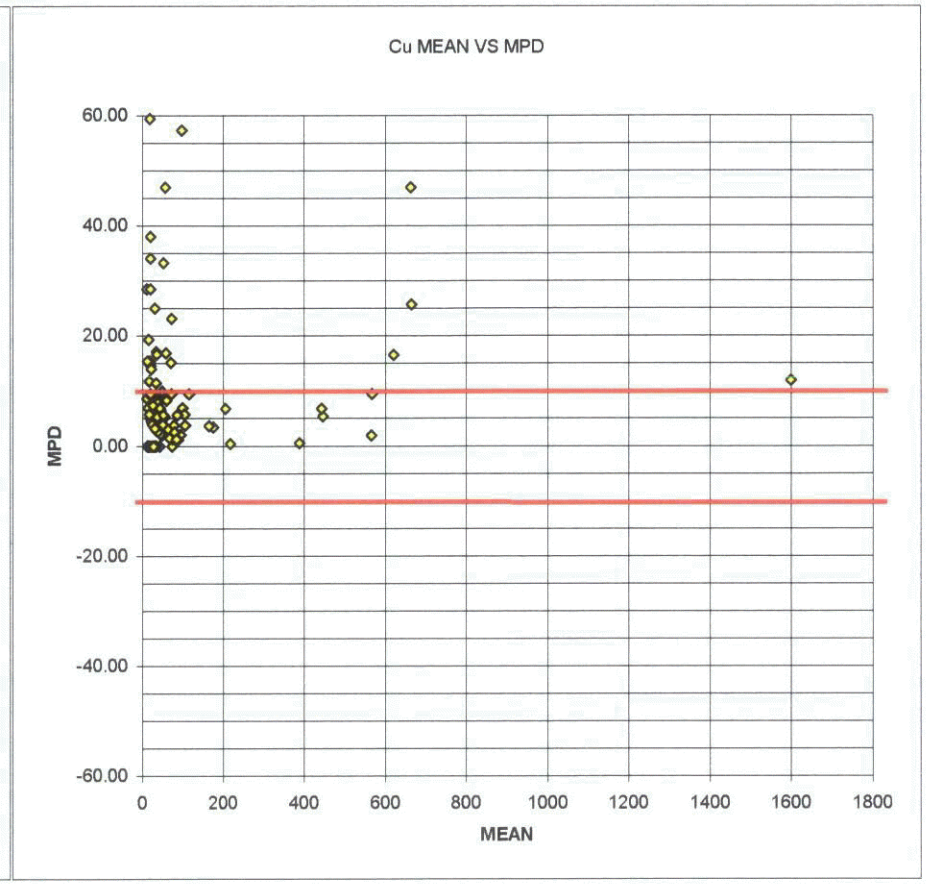

AU ASSAYS
ASSAY 2
ASSAY 1
0
10
20
30
40
50
60
70
80
90
100
0
20
40
60
80
100

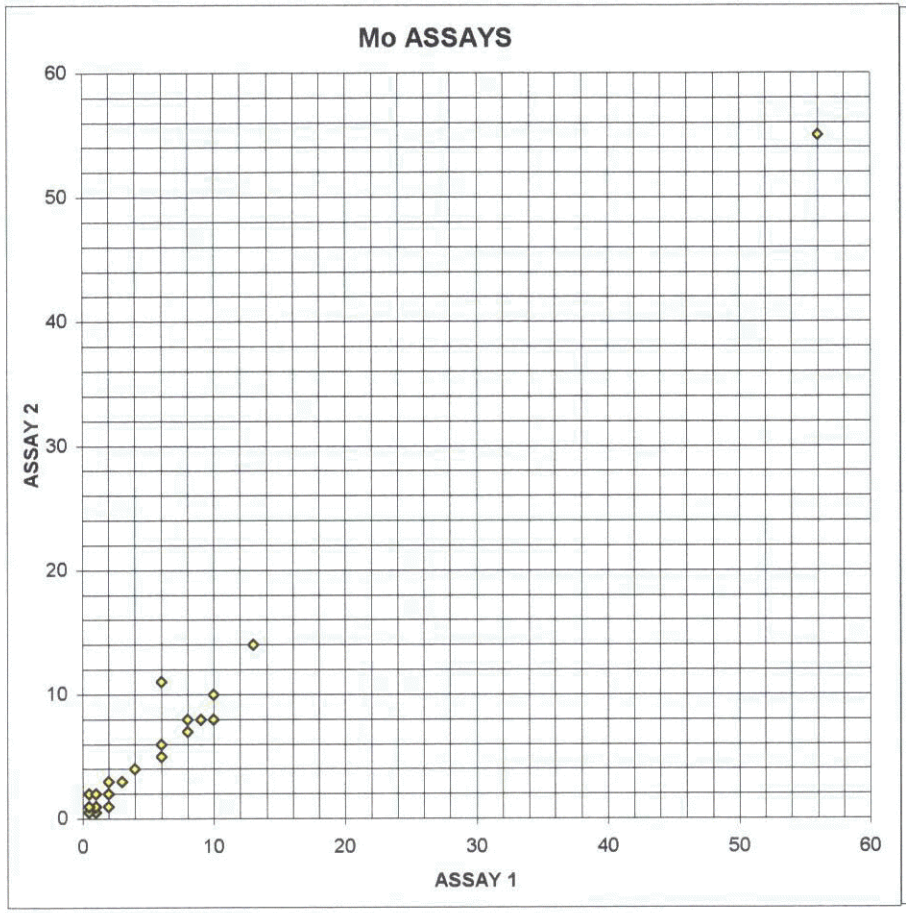

AU MEAN VS MPD
MPD
MEAN
160.00
110.00
60.00
10.00
-40.00
-90.00
-140.00
-190.00
0
10
20
30
40
50
60
70
80
90
100

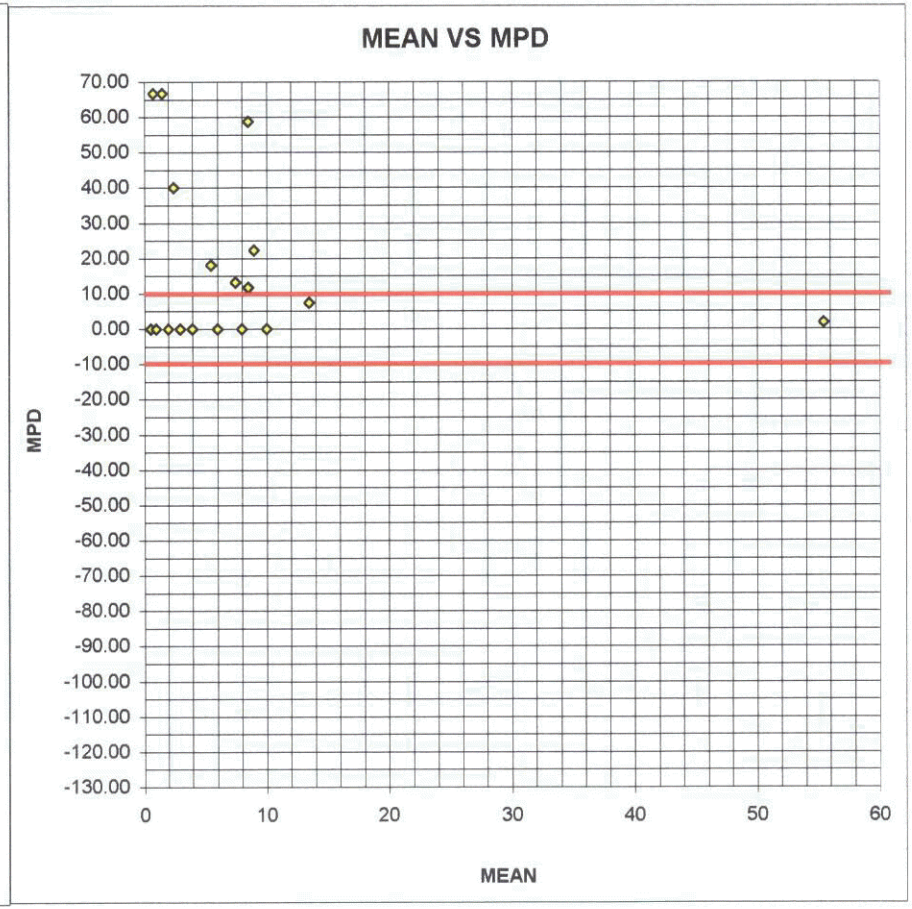

Ag PAIRS
9
8
7
6
5
4
3
2
1
0
0
1
2
3
4
5
6
ASSAY 1

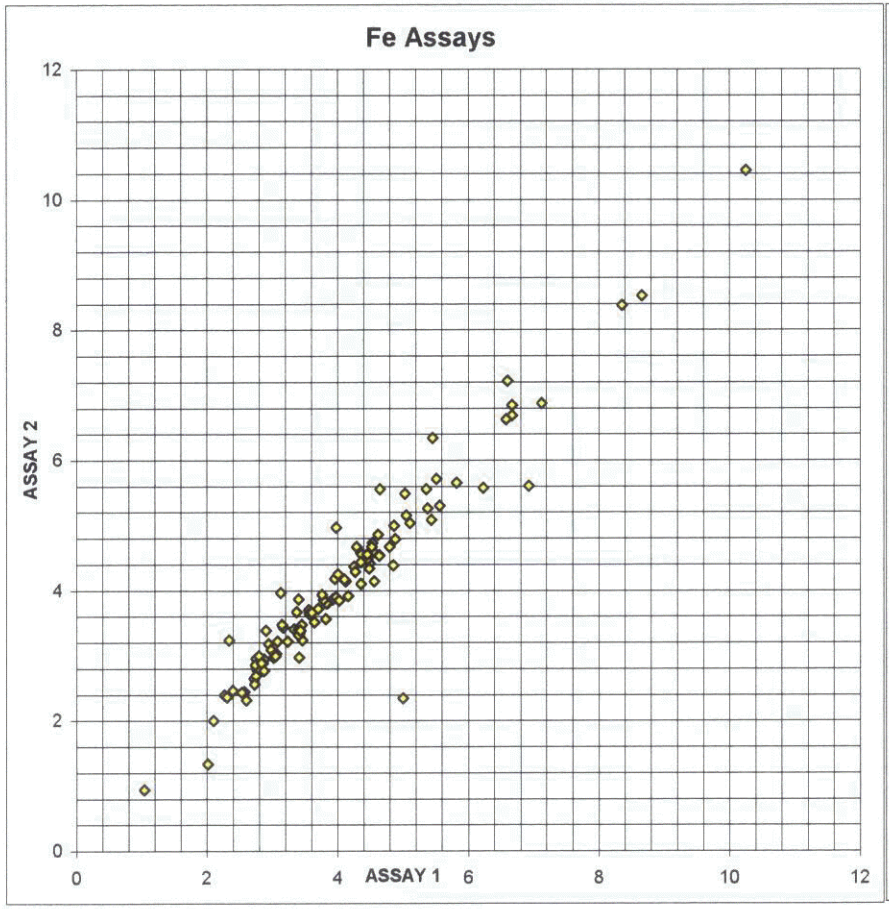

Ag MEAN VS MPD
160.00
110.00
60.00
10.00
-40.00
-90.00
-140.00
MPD
0
1
2
3
4
5
6
7
8
MEAN

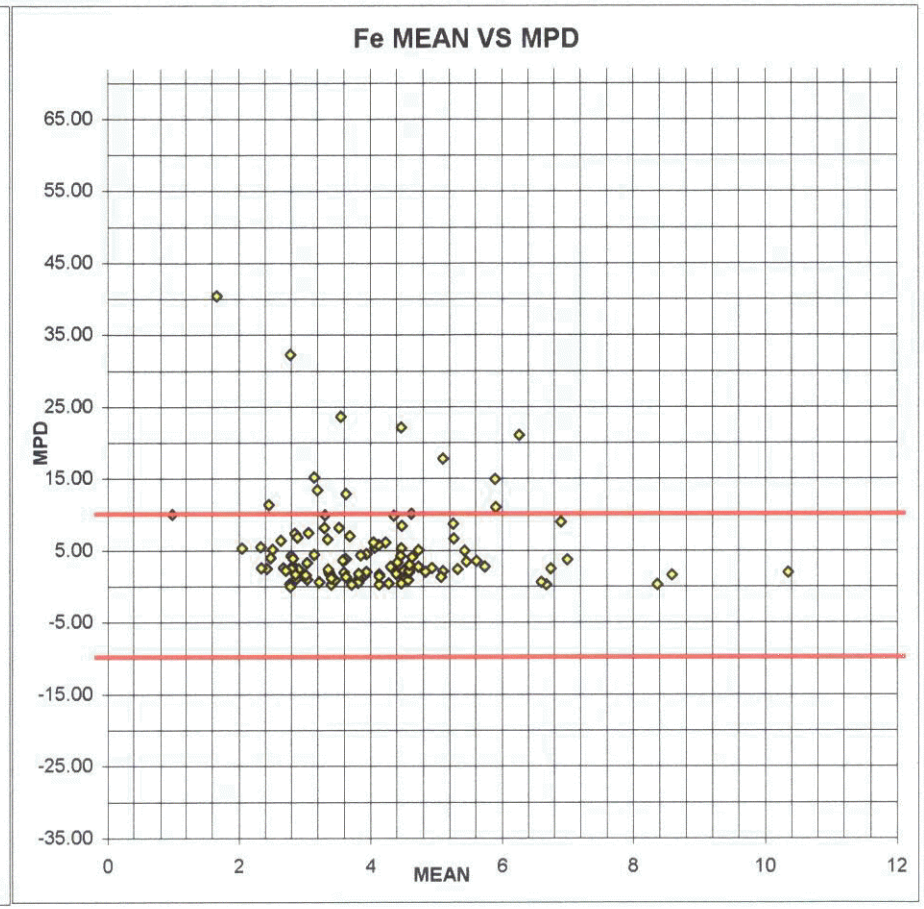

Cu ASSAYS
1800
1600
1400
1200
1000
800
600
400
200
0
0
200
400
600
800
1000
1200
1400
1600

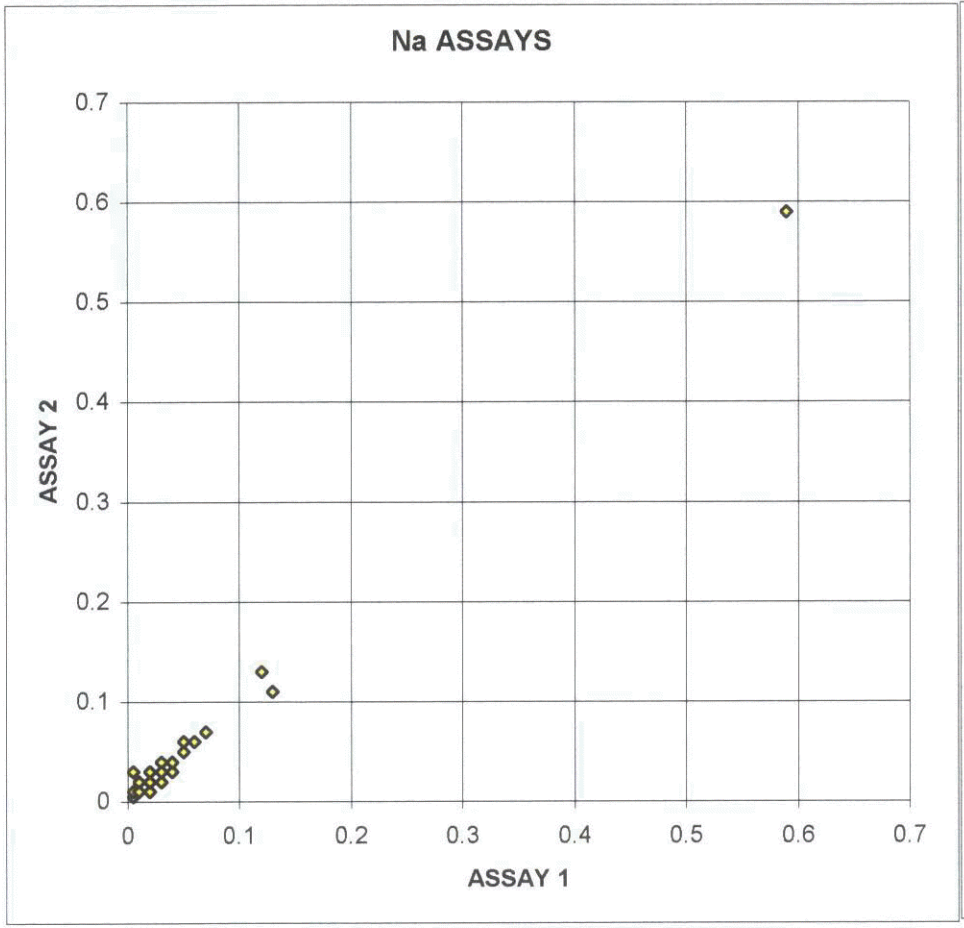

Cu MEAN VS MPD
60.00
40.00
20.00
0.00
-20.00
-40.00
-60.00
MPD
0
200
400
600
800
1000
1200
1400
1600
1800
MEAN

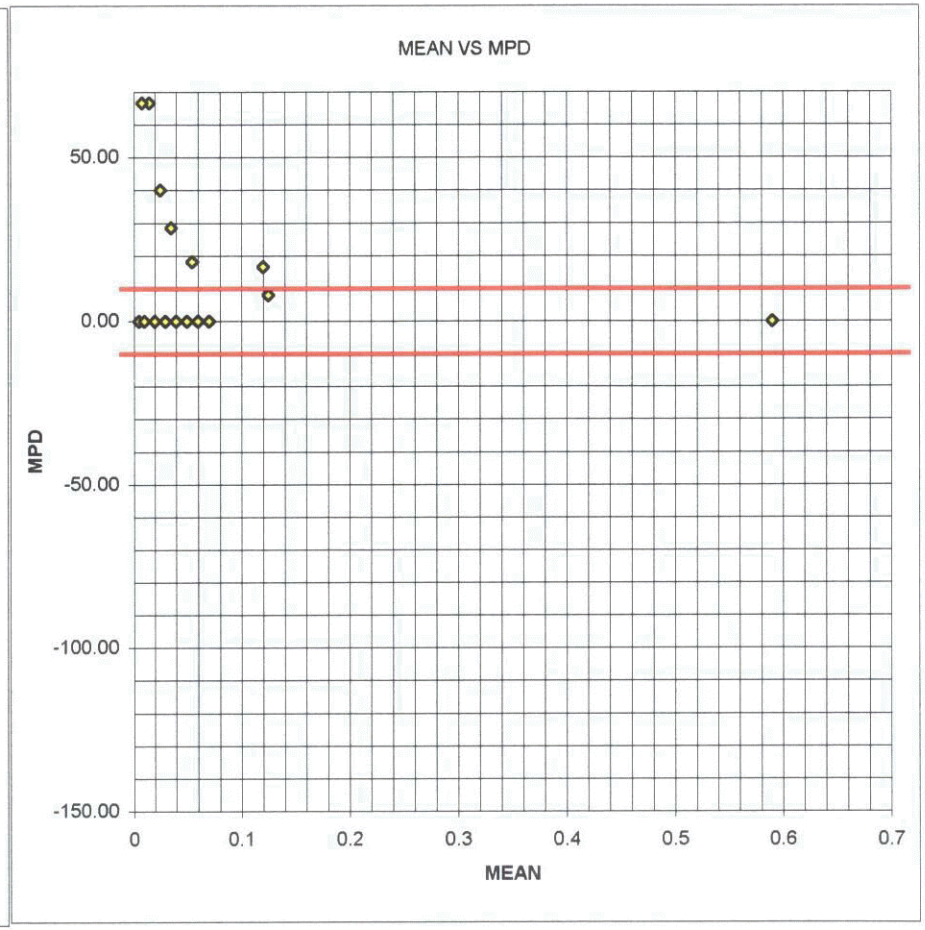

Mo ASSAYS
ASSAY 2
ASSAY 1
0
10
20
30
40
50
60

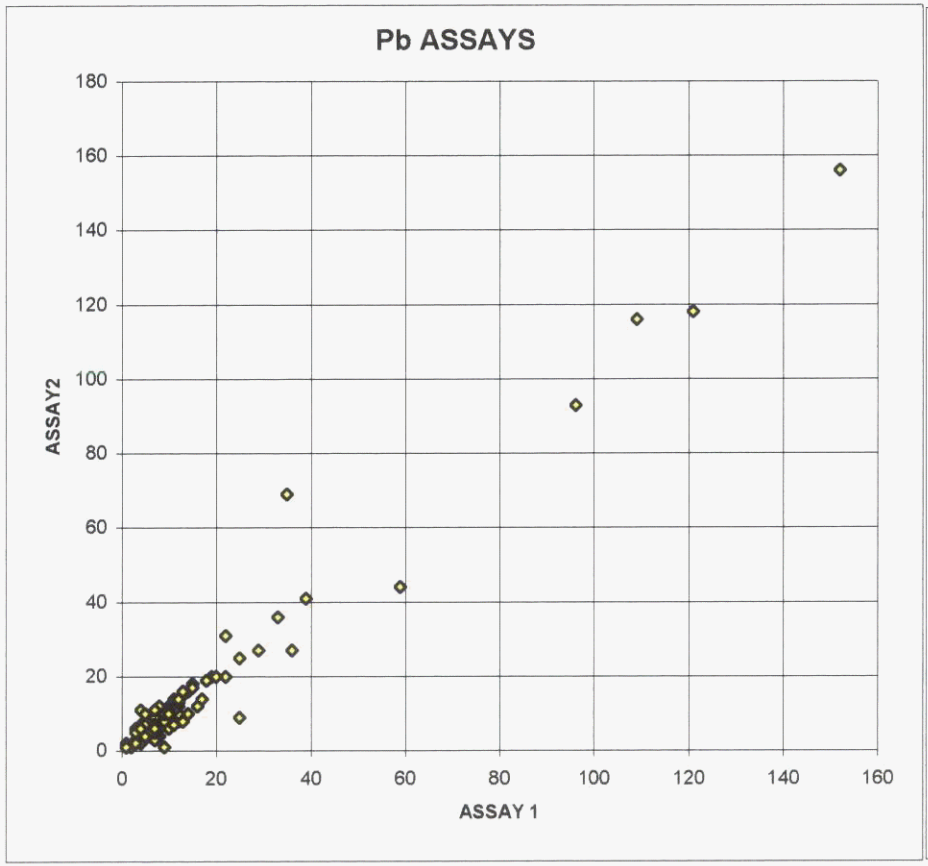

MEAN VS MPD
MPD
MEAN
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00
-100.00
-110.00
-120.00
-130.00
0
10
20
30
40
50
60

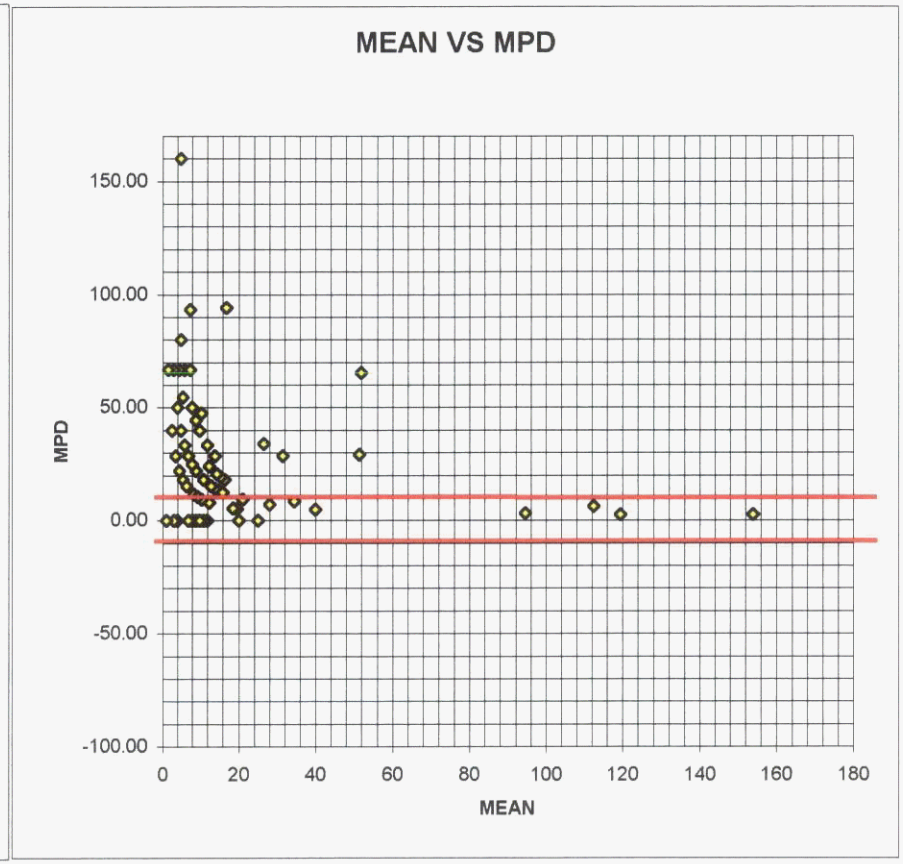

Fe Assays
ASSAY 2
ASSAY 1
0
2
4
6
8
10
12

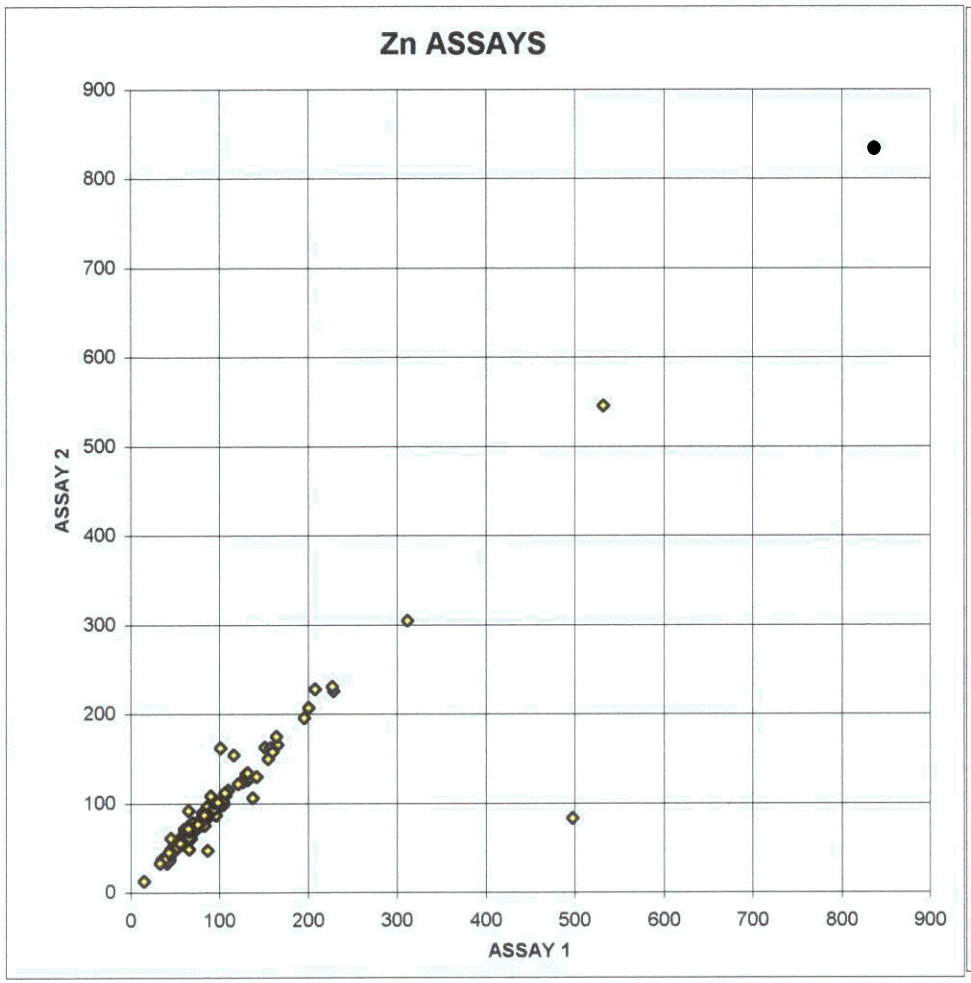

Fe MEAN VS MPD
MPD
MEAN
65.00
55.00
45.00
35.00
25.00
15.00
5.00
-5.00
-15.00
-25.00
-35.00
0
2
4
6
8
10
12

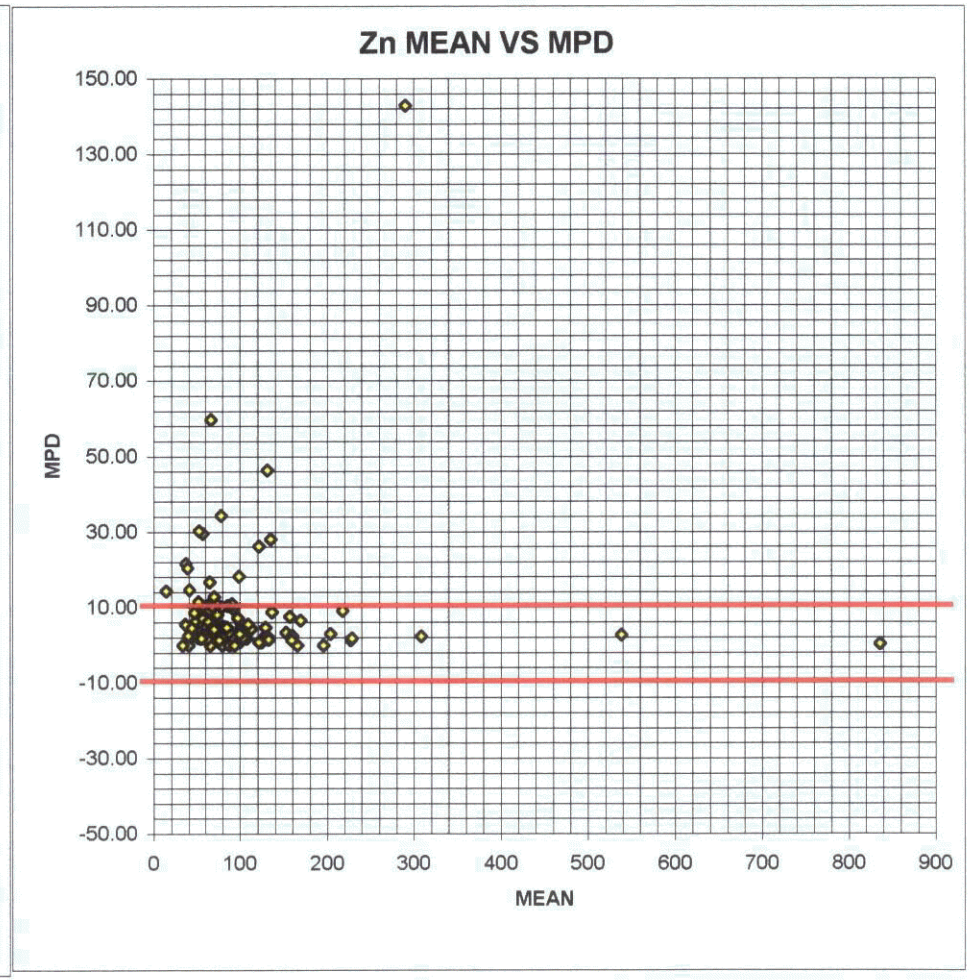

Na ASSAYS
ASSAY 2
ASSAY 1
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7


MEAN VS MPD
MPD
MEAN
50.00
0.00
-50.00
-100.00
-150.00
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7


Pb ASSAYS
ASSAY2
ASSAY 1
0
20
40
60
80
100
120
140
160
180


MEAN VS MPD
MPD
MEAN
150.00
100.00
50.00
0.00
-50.00
-100.00
0
20
40
60
80
100
120
140
160
180


Zn ASSAYS
ASSAY 2
ASSAY 1
0
100
200
300
400
500
600
700
800
900


Zn MEAN VS MPD
MPD
MEAN
150.00
130.00
110.00
90.00
70.00
50.00
30.00
10.00
-10.00
-30.00
-50.00
0
100
200
300
400
500
600
700
800
900

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 anomallies 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 repeatibility, falls off below about 0.06% (96th 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

Appendix H

Report by Young, L. Geologic Setting of the Lucky Joe Project. October 2003

GEOLOGIC SETTING OF THE LUCKY JOE PROPERTY, YUKON

Lorne Young, October, 2003

Introduction

The Lucky Joe property consists of the Shamrock copper-gold project of Copper ridge Explorations Incorporated, under lease to Kennecott. The property is located 75 km south of Dawson City, Yukon. The area was investigated in some detail in the 1970's by ASRC/Silver Standard-Riocanex. The geology of the region is characterized by Paleozoic amphibolite-grade schist and gneiss of the lower Yukon-Tanana terrane. The following report is based upon field work by the author during the summer of 2003. Interpretations and conclusions are based upon very limited rock exposure and should be regarded as hypotheses, open for discussion.



Figure 1) *View northwest across the central Lucky Joe property.*

Some of the figures shown in this report are drawn from more detailed maps that should be drafted into plates and included with the final version of this report; specifically, geology, physical magnetite distribution, and outlined areas of muscovite-quartz, magnetite, and garnet alteration.

Cover and vegetation

The property is heavily forested with spruce, birch, and aspen (Figure 1), with broomstick forests and willows or alders over recently burned-out areas. Soil development is variable, ranging from thin on rocky hilltops and ridge crests, to very thick in most valley bottoms. The region is unglaciated, but loess overlies primary soils in most areas. Peat moss forests with shallow permafrost are prevalent on north-facing slopes. In spite of the vegetative cover, evidence of active solifluction (Figure 2) is fairly common.

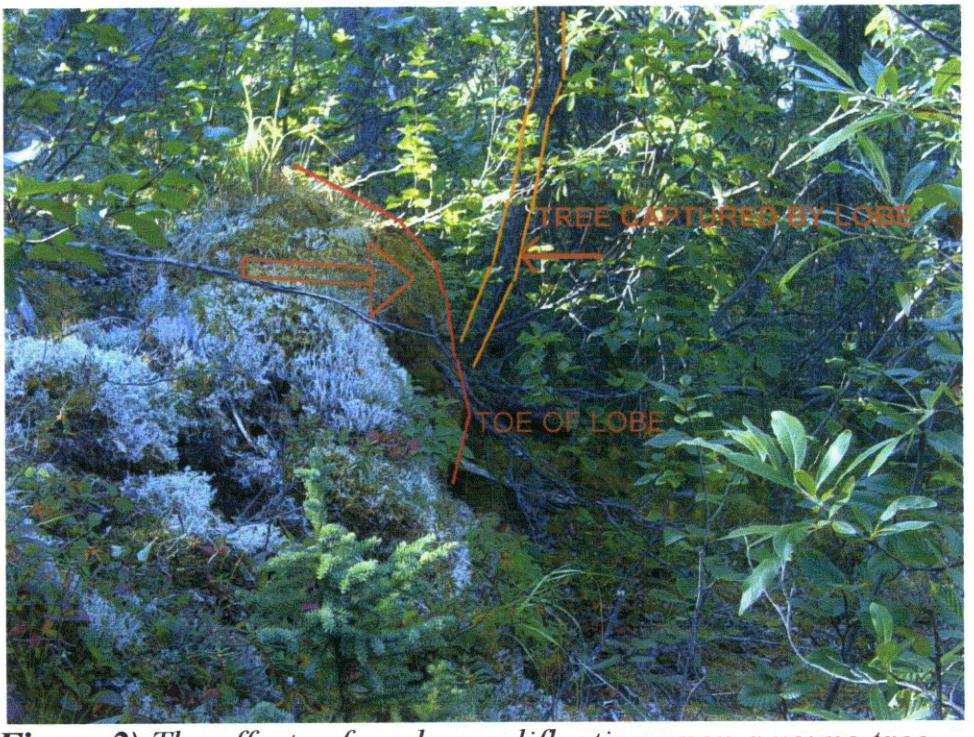


Figure 2) *The effects of modern solifluction upon a young tree.*

Outcrop is very rare and most of the mapping interpretations are necessarily based upon scarce surface and subsurface float. As a consequence, float at any given location may not necessarily be representative of the major rock type in the subsurface. Also, where float is used to determine the location of geologic contacts on sidehills, these contacts will be biased in a downslope direction because of solifluction.

Rock Units

Introduction

There are three principal layered rock units on the property, metaclastic, metavolcaniclastic, and amphibolitic (Figure 3). These units are intruded by at least two types of plutonic rock; biotite-bearing granodioritic orthogneiss (Eastern-class) and leucocratic metagranite (Western-class). The former

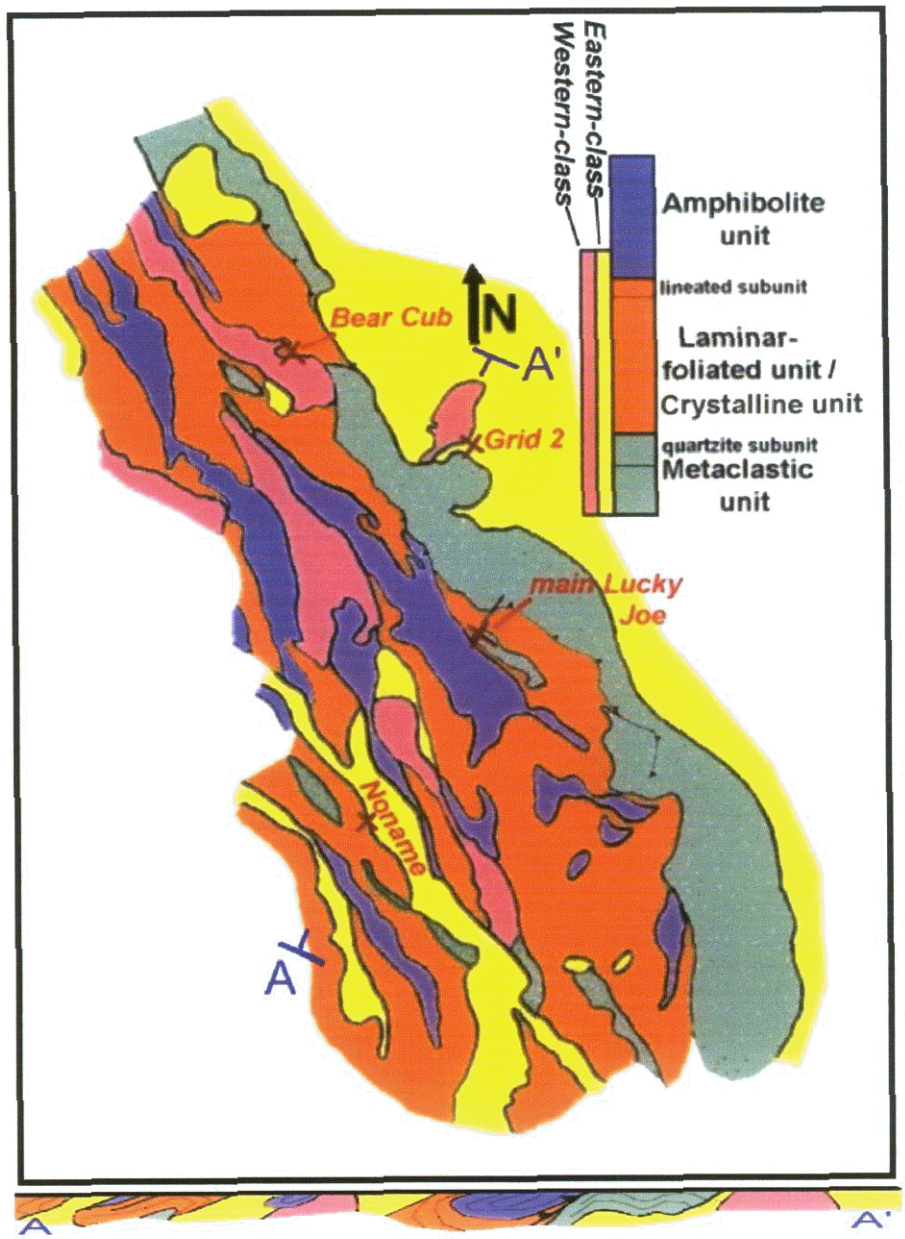


Figure 3) *Simplified geology of the Lucky Joe property area.*

intrusion is of batholith-scale, and occurs widely upon and eastward from the Lucky Joe property. Based upon foliation attitudes and the distribution of geologic units, the gross structure might be defined by upright to northeast-vergent overturned km-scale folds with minor thrust faulting.

General interpretations of metamorphic protoliths are in part based upon the relationship between TiO2 and Al2O3 (Figure 4). Although there probably was some gain or loss of aluminum during metamorphism, this method of classification has an acceptable margin of error.

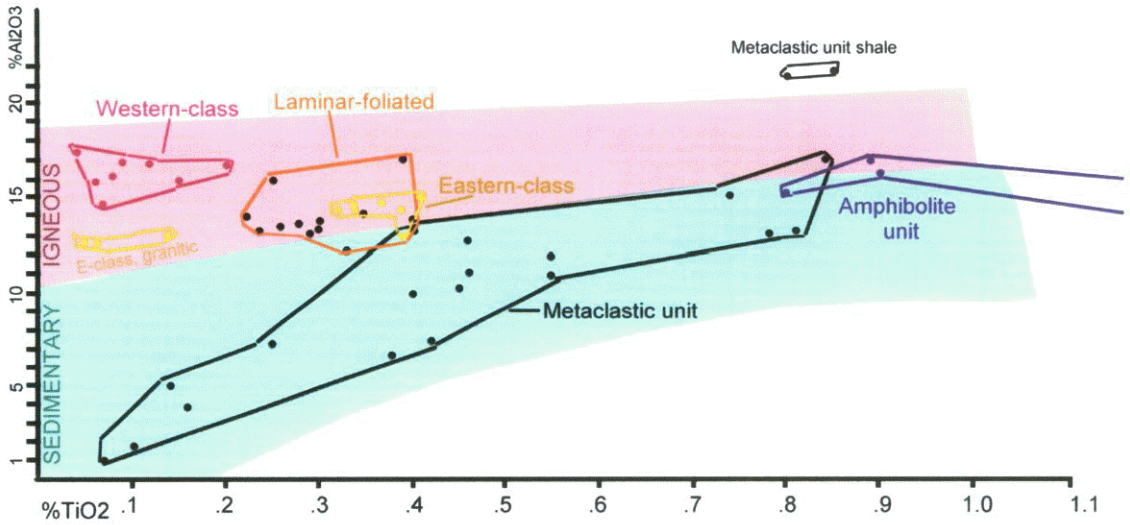


Figure 4) *Al2O3 vs. TiO2 classification of principal rock units on the Lucky Joe property. Note that this method of classification is not particularly useful for protolith determinations at TiO2 contents greater than 0.85%.*

Metaclastic unit

The Metaclastic unit consists of several rock types, including schist, quartzite, and dolomite. The predominant lithology is cataclastic vitreous-granular fine- to medium-grained biotite-feldspar-quartz schist to metasandstone (Figure 5). An equigranular salt-and-pepper texture, lenticular folia, distinct grain boundaries, conspicuous gray or milky quartz grains, and speckled chalky feldspar are characteristic features. Biotite content ranges from 10 to 30%. Former shale-rich interbeds are manifested as subordinate lustrous phyllitic layers, rich with coarse-grained biotite. Graded bedding and possible crossbeds are observed (Figures 6, 7). In general, the Metaclastic unit is defined by sub-meter to meter scale cycles of medium-grained through finer-



Figure 5) *Top shows fine- to medium-grained quartz rich metasandstone with 1 mm red dot for scale. Bottom rock is more feldspar-rich, probably arkose.*



Figure 6) *Typical graded cycle in Metaclastic unit.*

grained metasandstone or quartzite, capped by thin biotite-rich layers. Major oxide analyses indicate protoliths of potassic shale, arkosic greywacke, arkose, and orthoquartzite for the Metaclastic unit.



Figure 7) *Crossbed-type features in metasandstone.*

Because of well-developed mineral banding (after former bedding), structural features such as folds and crenulation cleavage are more conspicuous in the Metaclastic unit than in other units. Fine-grained vitreous biotite-muscovite quartzite forms layers in schist and metasandstone, and also constitutes a discrete and important mapping subunit that is interpreted to overlie the coarser-grained facies. Quartzite of this subunit is unambiguous in appearance and composition. It ranges in color from bluish, to gray, brown, and white, and typically has muscovite-dominant sheens or partings and a planar-laminated habit. In rubble and outcrop, the quartzite is commonly rusty weathering and where muscovite partings are conspicuous it is easy to mistake for alteration. Impure planar-foliated quartzites can bear a superficial resemblance to the Laminar-foliated unit, described below. Siliceous dolomite forms one or more layers in the Metaclastic unit, possibly at or near the top and base of the quartzite subunit.

The composition of the Metaclastic unit (Table 1, Figure 4) is characterized by high TiO2 relative to Al2O3 and SiO2, and in this manner it is generally distinguishable from similar-appearing rocks in other units.

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
13914	21.85	0.41	0.47	0.02	5.83	8.2	2.26	0.08	0.28	0.1	54.09	0	0.85	4.03	98.47
13907	21.43	0.2	1.31	0.01	6.42	6.35	2.7	0.11	1.6	0.24	54.22	0.02	0.8	3.55	98.95
13936	16.96	0.13	0.94	0.03	6.08	4.03	1.74	0.08	0.52	0.13	64.75	0.03	0.84	3.07	99.32
13926	14.9	0.16	1.95	0.02	4.79	3.13	1.56	0.07	0.53	0.12	68.65	0.02	0.74	2.75	99.41
13982	12.98	0.28	1.57	0.07	6.25	2.07	3.53	0.06	1.52	0.15	69.02	0.01	0.78	1.47	99.76
13947	15.77	0.27	2.3	-0.01	2.92	3.57	0.69	0.03	2.81	0.09	69.55	0.03	0.38	1.28	99.69
13939	12.6	0.04	2.88	0.01	4.74	0.79	0.89	0.08	3.37	0.1	73.09	0.05	0.46	0.65	99.76
13938	13.13	0.14	1.54	0.03	4.62	2.75	1.41	0.1	0.48	0.11	73.1	0.07	0.81	1.51	99.8
13925	13.11	0.01	1.76	-0.01	5.23	0.17	0.56	0.04	4.86	0.05	73.16	0.05	0.41	0.31	99.73
13906	11.79	0.63	1.25	0.02	2.73	2.54	1.11	0.03	2.95	0.07	75.1	0.04	0.55	0.74	99.55
13910	11.12	0.09	1.24	0.02	4.35	2.79	1.02	0.15	1.36	0.05	75.17	0.01	0.46	1.18	99.02
13922	10.09	0.04	1.57	0.05	2.99	1.73	0.91	0.03	1.8	0.06	79.27	0.03	0.45	0.67	99.67
13905	9.92	0.05	1.16	0.02	1.96	1.59	0.86	0.01	2.23	0.08	79.36	0.01	0.4	0.76	98.39
13935	10.85	0.59	1.63	0.03	0.8	2.18	0.25	0.03	1.8	0.09	79.98	0.04	0.55	0.86	99.67
13973	7.35	0.06	0.46	0.06	3.15	1.97	1.18	0.06	0.34	0.09	83.05	0.01	0.42	1.71	99.9
13918	6.61	0.03	0.18	0.03	2.61	1.63	0.98	0.06	0.07	0.07	85.33	0.01	0.38	1.51	99.5
13923	6.99	0.07	0.33	0.03	1.4	1.75	0.14	0	1.09	0.02	86.48	0.01	0.25	1.01	99.59
13962	5.08	0.02	0.07	0.04	2.88	0.2	0.02	0.05	0.06	0.07	88.55	0.01	0.14	2.67	99.86
13954	3.85	0.02	0.24	0.05	1.48	1.32	0.15	0	0.21	0.26	91.06	0	0.16	1.02	99.82
13908	1.66	0	0.13	0.05	1.27	0.47	0.14	0.01	0.07	0.03	95.34	0	0.1	0.38	99.63
13933	0.95	0.01	0.17	0.05	0.9	0.29	0.1	0.01	0.54	0.02	96.28	0	0.07	0.19	99.57

Table 1) *Compositions of the metaclastic unit, ranging from shale at top to impure quartzite or sandstone to very pure quartzite at bottom.*

Laminar-foliated unit

The Laminar-foliated unit is gradational with the Metaclastic unit below and the Amphibolite unit above and it also occurs as beds and zones in the latter unit. The principal rock type of this unit consists of leucocratic quartz-feldspar schist with biotite partings that define parallel 1 to 2 mm-scale foliation planes (Figures 8, 9). Sucrosic to granular fine- to medium-grained gray quartz and creamy to salmon granular or tabular feldspar comprise the light colored layers. Biotite ranges from <10 to locally 20%. Based upon the local presence of quartzitic interbeds and Al2O3/TiO2 ratios (Figure 4), the composition of rocks from the Laminar-foliated unit ranges from igneous to locally sedimentary. The Na2O/K2O ratios are typical of andesite-diorite, but the quartz content is far too high and TiO2 is too low for an intermediate protolith (Table 2). Thus, the protoliths are possibly altered rhyolitic to latitic tuffs, variably contaminated by arkose. Near to, and within amphibolite layers, planar foliation may be less distinct and a lineated subunit is present. This consists of cream-colored fine-grained sucrosic rock with 10-20% lineated fine-to coarse-grained biotite, biotitized hornblende, or hornblende (Figure 10). The lineated subunit is compositionally comparable to the laminar-foliated unit, except that it is more calcic and always plots within the igneous field as defined by Al2O3/TiO2 ratios. In addition to an overall smaller TiO2 content, the Laminar-foliated unit (excluding the lineated subunit) is

compositionally distinguished from the Metaclastic unit by lower vanadium content.



Figure 8) *Representative sample of Laminar-foliated unit.*



Figure 9) *Laminar-foliated unit in outcrop. Inset shows appearance on fresh break.*

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
13924	13.18	0.05	1.86	0.01	6.66	1.63	0.77	0.17	3.48	0.05	70.66	0.04	0.41	0.68	99.65
13937	13.97	0	1.17	0	6.37	0.33	0.56	0.04	4.93	0.05	71.14	0.04	0.35	0.56	99.51
13928	13.69	0.09	1.13	0	5.26	1.9	0.73	0.11	4.13	0.06	71.97	0.04	0.4	0.6	100.1
13971	13.71	0.14	1.13	0.02	2.74	2.85	0.54	0.03	3.69	0.06	72.56	0.04	0.3	0.99	98.8
13983	14.18	0.13	1.25	0.02	3.05	1.89	0.4	0.02	3.88	0.04	73.49	0.01	0.22	0.98	99.56
13919	12.07	0.04	1.21	0.01	4.8	1.4	0.34	0.12	3.72	0.05	75.15	0.02	0.33	0.45	99.72
13934	13.17	0.28	0.32	0	2.6	2.91	0.38	0.01	4.11	0.04	74.5	0.02	0.24	0.85	99.43
13981	12.86	0.06	2.8	0.02	3.16	0.48	0.18	0.03	4.12	0.04	75.64	0.04	0.29	0.27	99.98
13930	17.01	0.14	4.76	-0.01	3.45	1.22	1.35	0.05	3.65	0.12	66.75	0.1	0.39	0.76	99.75
13952	15.93	0.15	2.99	0.01	2.21	1.48	0.78	0.01	3.36	0.13	70.08	0.08	0.25	1.09	98.56
13956	13.34	0.04	3.43	0.02	3.07	0.25	0.25	0	4.14	0.05	74.25	0.03	0.26	0.82	99.95
13920	13.07	0.01	2.9	0.01	2.59	0.45	0.42	0.02	4.29	0.08	74.3	0.03	0.3	0.67	99.14
13929	13.33	0.19	2.55	0.01	2.98	1.57	0.23	0.03	3.4	0.1	74.31	0.03	0.28	0.65	99.65
13974	13.21	0.04	4.39	0.05	2.41	0.4	0.49	0.01	3.08	0.05	74.63	0.02	0.26	0.54	99.58

Table 2) *Compositions of the Laminar-foliated unit above and lineated subunit below.*



Figure 10) *Examples from the lineated subunit.*

Amphibolite unit

The Amphibolite unit is essentially a schistose to gneissic-textured amphibole-plagioclase rock (Figure 11). Plagioclase content ranges from minor to 50% or more. Grain size ranges from fine-grained to very coarse-grained. Millimeter-scale color banding in the Amphibolite unit is probably the consequence of metamorphic segregation. However, the Amphibolite and Laminar-foliated units are interbedded at the cm to meter scale. Such layered relationships between the Amphibolite and Laminar-foliated units, and the commonly fine grain size of the Amphibolite unit support a volcanic protolith. The composition (Table 3) as defined by K2O-CaO/SiO2 and SiO2/TiO2 ratios is basalt to andesite. Certainly, very coarse-grained variants of the



Figure 11) *Typically dark outcrops of gneissic-textured amphibolite.*

Amphibolite unit are probably plugs, dikes, or sills, but these are greatly subordinate to the finer-grained compositionally-layered phases. In some examples, coarse amphibole looks later than the primary fabric. The compositional range represented by the Amphibolite and Laminar-foliated units encompasses basalt, andesite, and rhyolite. Thus the volcanic sequence may be a differentiated (as opposed to bimodal) subduction-related arc assemblage. There is at least one major and several minor layers of amphibolite represented by the Amphibolite unit; thus, upright vs. overturned relations (with respect to the Laminar-foliated unit) are equivocal.

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
13904	16.42	0.02	10.98	0.04	10.57	0.4	8.51	0.18	2.15	0.12	47.41	0.03	0.9	1.13	98.84
13975	15.5	0.02	4.57	0.01	13.48	0.26	4.27	0.24	4.46	0.28	54.12	0.01	1.66	1.01	99.87
13953	16.79	0.14	6.36	0.01	8.05	3.29	3.43	0.19	1.94	0.22	56.73	0.02	0.89	1.62	99.67
13927	15.05	0.04	5.07	-0.01	10.21	0.43	4.06	0.08	4.69	0.08	57.51	0.07	0.8	1.31	99.39
13970	13.38	0.03	2.64	0.02	11.66	0.45	4.43	0.17	3.6	0.19	57.69	0.02	1.57	4.04	99.89

Table 3) *Compositions of the Amphibolite unit.*

Eastern-class metaintrusions

This class of igneous rock is represented by somewhat melanocratic orthogneiss, consisting of medium- to coarse-grained white to (locally)

salmon feldspar, rods and eyes of gray quartz, and 15 to 30% coarse-grained biotite as streaked out plates and clots. Subordinate hornblende and biotite after hornblende are described from previous drilling, although this is not particularly obvious from surface. Irregular gneissic foliation is weakly to moderately developed. There is also a strongly transposed variant of the Eastern-class, consisting of 0.1 to 0.3 cm planar-foliated layers of gray quartz rods and lenticules in a matrix of cataclastic-textured quartz-feldspar, with biotite partings (Figure 12). The Eastern-class metaintrusions form rounded outcrops (Figure 13) and locally weathers to coarse gruss. Mafic inclusions and aplitic zones are present (Figures 13, 14).



Figure 12) *Eastern-class metaintrusion; irregular foliation on left and planar foliation in the right and bottom samples.*

Although there are subordinate granite/aplitic phases, the bulk chemistry of the Eastern-class metaintrusions is compatible with granodiorite. However, the relatively low TiO2 content (generally 0.39 to 0.41%, Table 4) suggests the original composition may have been more slightly more felsic than typical granodiorite. The best explanation for this discrepancy is that there was some loss of K2O and/or an increase in CaO during metamorphism. The Eastern-class metaintrusive suite is undated, but is similar to known Devono-Mississippian metaintrusions elsewhere in the Yukon-Tanana terrane.

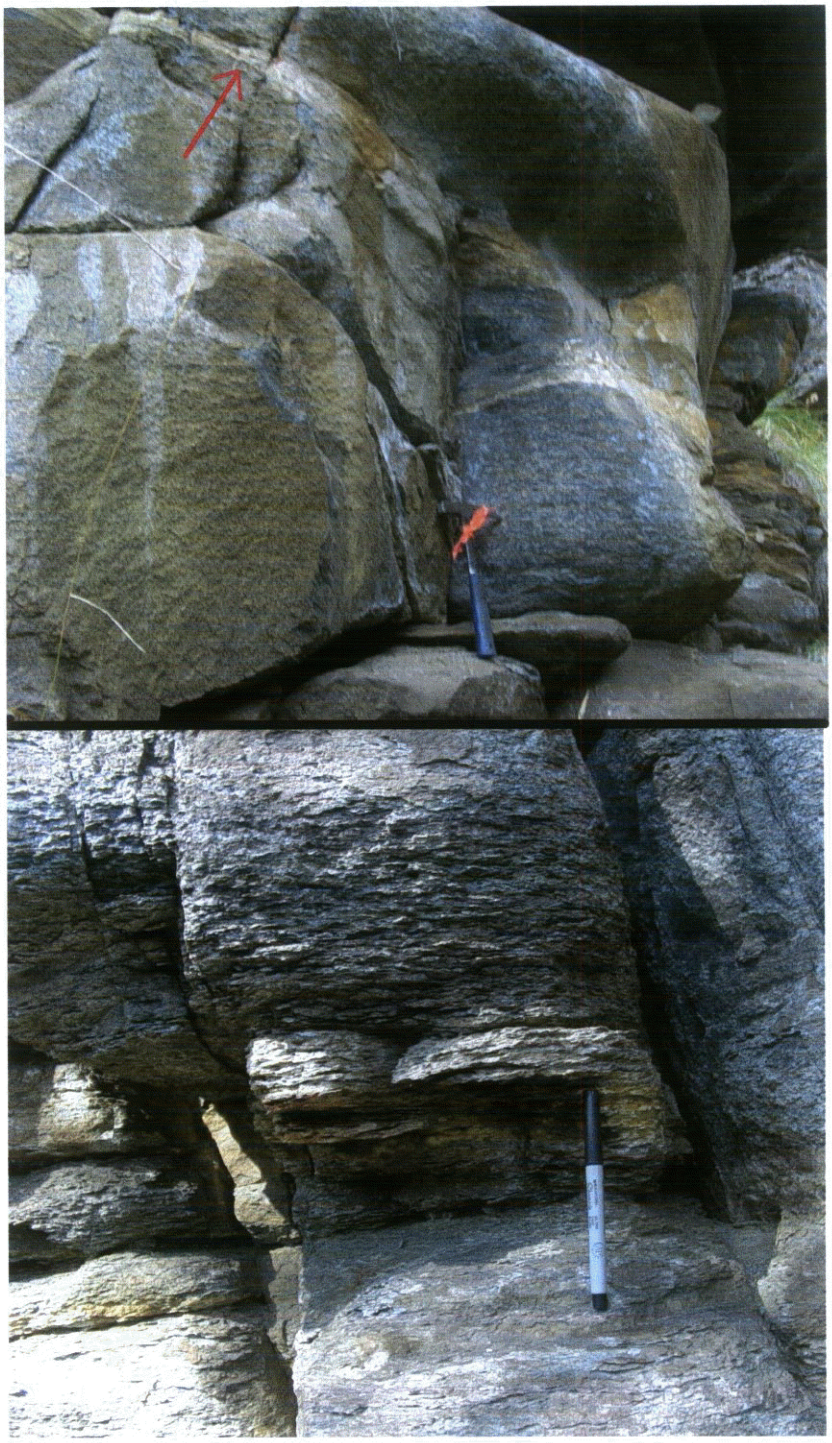


Figure 13) *Rounded weathering outcrops of intrusive rock. At top is poorly-foliated rock with aplitic dike (arrow). At bottom is a strongly transposed Eastern Class metaintrusion.*

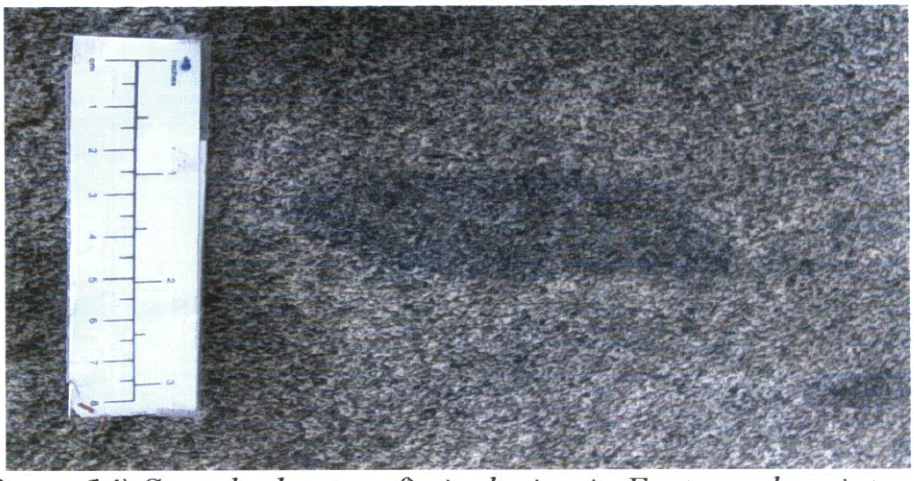


Figure 14) *Stretched out mafic inclusion in Eastern-class intrusion.*

Western-class metaintrusions

Although occurrences of this intrusive suite bear spatial relations with the Eastern-class metaintrusions, the appearance and major element chemistry is decidedly different (Table 4). The Western-class metaintrusions consist of medium- to coarse-grained leucocratic (cream to buff), equigranular to feldspar-porphyritic quartz-plagioclase rock (Figure 15). The possibility of a scapolite component should be petrographically evaluated. Although locally strongly transposed, most occurrences of this rock type exhibit only a weak foliation, defined by <5% mica, generally biotite, chlorite or muscovite and paragonite(?). Chlorite and muscovite probably are alteration products of biotite. The TiO2 content is very low and when measured with the relatively high quartz content, the Western-class metaintrusions are of original granitic composition. However, due to the effects of fractionation and hydrothermal(?) alteration they are sodium-enriched and moderately to strongly potassium-depleted, yielding alkali ratios that are incompatible with granite. Using a molecular Al/K+Na+Ca filter, the Western-class intrusions are strongly peraluminous. This is only a mathematical determination, and it should be recognized that the Western-class intrusions are strongly depleted in elements of peraluminous association. In fact, depletion is recognized for almost all trace and major elements, particularly cerium and zirconium. In contrast, sodium, aluminum, and strontium are enriched. Strontium levels are so high that a discrete strontium-bearing mineral may be widely present, possibly strontium-feldspar. The relationship of the Eastern- and Western-class intrusive suites can be quite problematic. In some areas the Western-class intrusions may intrude the Eastern-class suite; elsewhere the two suites occur



Figure 15) *Typical Western-class metaintrusive rock.*

closely together and it becomes difficult to confidently distinguish one from the other. Transposed leucocratic metaintrusions at present locally correlated with the Western-class may actually be highly altered Eastern-class metaintrusions. In addition, some rocks assigned to the Crystalline unit (described below) may represent Western-class intrusions.

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
E-CL															
13945	14.8	0.09	4.29	0.01	6.15	2.24	2.58	0.11	2.72	0.09	64.6	0.04	0.41	1.02	99.15
13964	14.86	0.11	2.6	0.03	4.62	2.99	2.37	0.14	2.62	0.09	67.73	0.03	0.37	1.33	99.88
13980	12.84	0.08	3.48	0.04	6.12	2.03	2.65	0.11	1.88	0.06	68.15	0.04	0.39	1.62	99.49
13944	14.27	0.16	2.11	0.01	4.6	2.52	2.35	0.09	3.04	0.05	68.9	0.04	0.34	0.91	99.4
13931	14.55	0.17	3.16	0.01	4.3	3.31	1.39	0.08	2.4	0.06	68.92	0.05	0.34	1.02	99.77
13966	14.2	0.12	3.51	0.04	4.66	3.02	1.38	0.08	2.11	0.09	69.15	0.03	0.32	1	99.72
13967	14.29	0.22	2.72	0.02	3.41	1.64	0.8	0.04	3.92	0.08	71.69	0.05	0.38	0.6	99.85
13969	14.21	0.09	2.62	0.01	3.19	1.9	0.76	0.05	3.46	0.08	72.04	0.06	0.39	1.01	99.88
13979	12.56	0.05	0.7	0.03	1.09	4.87	0.02	0.01	2.58	0.02	75.95	0	0.05	0.29	98.22
13932	12.89	0.25	0.32	0.01	0.67	4.55	0.03	0	3.47	0.02	77.12	0.06	0.14	0.32	99.82
13965	12.38	0.15	0.42	0.01	1.03	1.38	0.07	0	4.59	0.01	77.82	0.02	0.06	0.46	98.39
W-CL															
13903	15.93	0.15	3.05	0.01	1.21	1.4	0.53	0.01	4	0.07	71.13	0.09	0.15	1.08	98.78
13948	16.7	0.09	3.71	0.01	1.46	0.84	0.15	0.03	4	0.07	71.29	0.1	0.12	0.94	99.52
13963	16.56	0.19	2.5	0.01	1.02	0.97	0.43	0	5.1	0.05	72.01	0.14	0.09	0.5	99.56
13960	17.3	0.05	2.01	0	0.52	0.46	0.04	0	6.42	0.01	72.23	0.13	0.04	0.31	99.51
13940	16.6	0.06	2.14	0.01	0.84	1.31	0.4	0	3.49	0.02	72.23	0.05	0.2	2.25	99.6
13901	16.13	0.15	2.51	0.04	1.25	0.82	0.08	0.01	4.86	0.05	72.67	0.13	0.08	0.81	99.58
13950	15.82	0.21	1.37	0.01	0.58	2.98	0	0	4.53	0.02	73.85	0.07	0.06	0.5	99.94
13951	14.7	0.32	1.58	0	0.56	2.1	0	0.01	4.42	0.01	74.56	0.1	0.07	0.52	98.93
13968	12.71	0.01	0.66	0.04	1.06	4.72	0	0.03	2.8	0.02	76.99	0.01	0.05	0.22	99.32

Table 4) *Comparison of the Eastern-class (top) and Western-class metaintrusive suites.*

Crystalline (quartz-feldspar) unit

This is a creamy to pale brown and butterscotch brown fine- to medium-grained equigranular quartz-feldspar rock. It is generally mafic-poor and

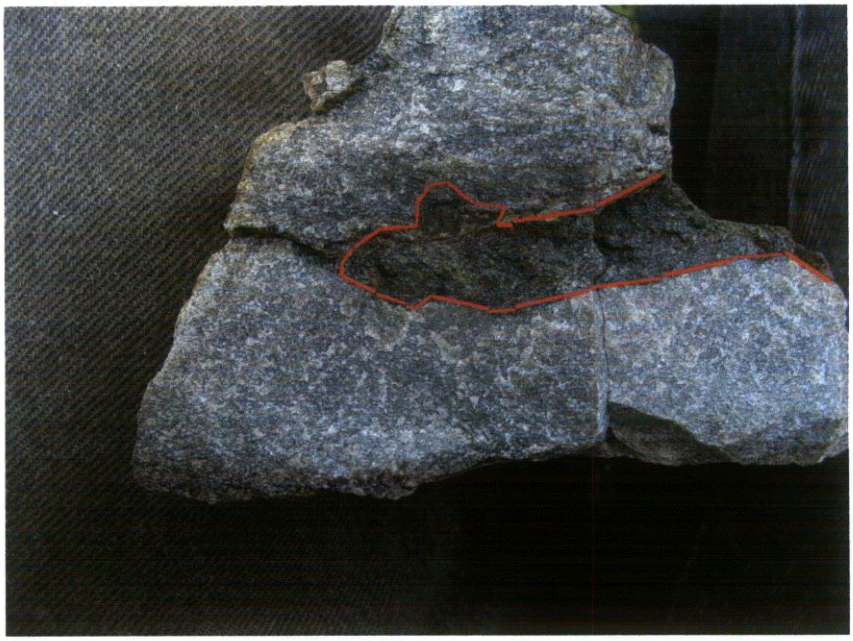


Figure 16) *Amphibolite (dark) rod in the Crystalline unit.*

bears a spatial and perhaps direct relationship with the Amphibolite unit (Figure 16). Foliation is poorly expressed and coarser-grained portions of the Crystalline unit can bear a superficial resemblance to the Western-class metaintrusions. However, grain boundaries in samples of the Crystalline unit are resorbed and indistinct, unlike most occurrences of the Western-class intrusions. Based upon a single sample (Table 5), the composition is comparable to the Laminar-foliated unit. Considering the evidence, the Crystalline unit might represent hypabyssal intrusions coeval with and related to the formation of the Laminar-foliated and Amphibolite units.

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
13961	12.01	0.08	1	0.01	3.99	1.87	0.31	0.02	3.28	0.03	75.32	0.03	0.31	1.08	99.34

Table 5) *Possibly representative composition of the Crystalline unit.*

Structure

The principal assumptions are that the major compression axis is ENE-WSW and that many structures should be ENE-verging. The rocks could have been metamorphosed during the Devono-Mississippian, Permian, and/or Jurassic(?) periods, and were thrust northeastward during mid-Jurassic through Cretaceous time. Other than these assumptions, every structural detail must be gleaned from a handful of well-presented outcrops on the property. Compounding the problem, many units simply lack enough internal lithologic heterogeneity to allow the visualization of structure. Intense rodding is a ubiquitous feature. Cataclastic textures are also common in competent rock types, but note that previous workers state that almost all deformation is ductile. Crenulation cleavage is well developed, particularly in the Metaclastic unit. Two folding styles are observed (Figure 17), chevron and upright to



Figure 17) *Folding styles observed locally on the property.*

overturned circular. No truly recumbent folds have been observed. Large-scale overturned or recumbent folding was proposed by previous workers, based upon an undocumented study of S and Z folds. Both S and Z folds are seen sparingly in outcrop and reported from core, but are small structures and quite unlikely to prove the existence of overturned folds of km-scale wavelengths. This is not to say that large nappes are not present; in fact, such

structures are useful in rationalizing geological problems throughout the Yukon-Tanana terrane. But considering that there may be too little outcrop to document such structures on the Lucky Joe property, the issue is unresolved at present. Most minor folds plunge 15 to 20 degrees southeast (average ~ 150 azimuth). Pockets of bull quartz are sweated out along fold axes (Figure 17) and the abundance of similar quartz in float across the property suggests that small folds are common everywhere. Preserved graded layers in the Metaclastic unit indicate that most bedding in this unit is not overturned, but geological relationships suggest that property-scale structure is characterized by km-scale northwest trending upright to overturned syncline-anticline pairs. Small-scale thrust faulting is invoked in a few areas to explain the omission of stratigraphy, but there may be other structural solutions. Steep NW and NNE faults are suggested by the aeromagnetic survey, but the demonstration that these are displacive structures would require a much greater detail of float-mapping.

Alteration and Mineralization

Sulfide mineralization consists of chalcopyrite-pyrite-pyrrhotite and trace molybdenite. Gold and silver are associated. Surface exposures of sulfide are invariably oxidized and information concerning economic mineralogy is determined from core drilling and to a lesser extent from trenches. Copper mineralization occurs in rock that contains at least some biotite, commonly near to or just within the muscovite-quartz alteration assemblage. Magnetite forms a halo above and/or lateral to sulfide mineralization. Sulfides commonly follow pre-existing foliation, but post-fabric quartz-sulfide veinlets with sharp boundaries are at least locally observed.

Magnetite alteration

There are two principal belts and several smaller zones of magnetite alteration (Figure 17). In general this alteration type occurs locally to regionally in the hangingwall to muscovite-quartz alteration and roughly tracks the Amphibolite unit. However many of the strongest magnetite occurrences are within the Laminar-foliated unit. This may be a consequence of host rock mineralogy, as magnetite dominantly occurs with feldspar. The important observation is that magnetite occurs to at least a minor extent in every unit, suggesting that it is not forming after hematite in a particular sedimentary horizon. Magnetite content can be several percent, and the size ranges from very fine to coarse grains up to 1 cm long. Surface magnetite occurrences do

not everywhere correspond on a one-to-one basis with airborne magnetic anomalies. It would seem that alteration-derived magnetite is not always as important as is magnetite intrinsic to thicker sections of the Amphibolite unit. The exact paragenesis of magnetite is not established. Magnetite rims on sulfide grains and sulfide replacing magnetite have both been reported from core. In some cases magnetite grains or octahedrons are possibly flattened along foliation planes, yet they also can appear to have grown across foliation

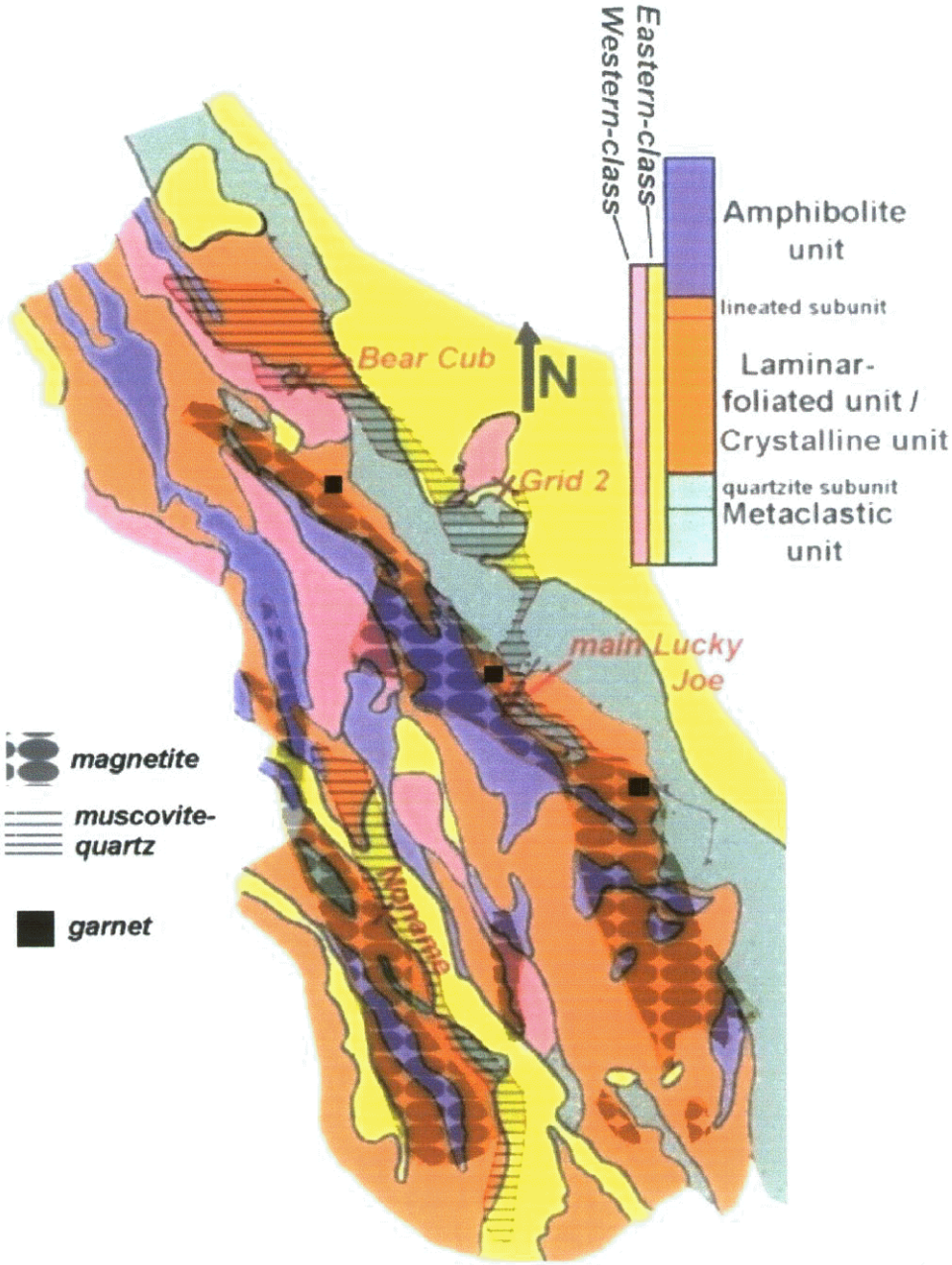


Figure 17) *Distribution of selected alteration types on the Lucky Joe property.*

or otherwise be undeformed (Figure 18). Magnetite occurs locally with epidote in late veins that possibly crosscut foliation. Epidote may also replace fracture-controlled magnetite. There are patches of magnetite in the Western-class intrusions. These can be partially to wholly altered to hematite. This is suggested to be hydrothermal and not supergene hematite, since magnetite in other units is typically fresh in surface samples. Major garnet occurrences are accompanied by magnetite and locally the garnets are magnetic. This relationship suggests that magnetite alteration formed contemporaneously with, or grew as inclusions in pre-existing iron-rich garnet.



Figure 18) *One-half centimeter magnetite mass at top center in coarse amphibole-feldspar rock shows no obvious deformation.*

Garnet alteration

Although minor brown-red garnets are interpreted to be widely-distributed and probably of metamorphic origin, the largest and most concentrated (10% or more garnet) occurrences are near the base of the magnetite zone and above the muscovite-quartz zone. The Laminar-foliated and Amphibolite units are the best host, but garnets can occur in the Metaclastic unit and Eastern-class metaintrusions as well. Petrographic work shows quartz and biotite replacement of garnet at main Lucky Joe. The coarsest garnets seen at surface occur in very fine grained quartz-feldspar rock and are 0.5 cm well-formed dodecahedra that may truncate foliation planes (Figure 19). These garnets are

convincingly of non-detrital origin. Manganese is not elevated in the one analyzed garnet-rich sample (13937, Table 2), and the variety may be almandine. The abundance of garnet may relate to bulk compositional factors as well as to finer grain size of the host rock and hence greater chemical reactivity (because of more surface area). Proof of hydrothermal garnet should not be based on size alone, since layers of very coarse garnet occur regionally in siliciclastic rocks of the Yukon-Tanana terrane. The best evidence will be the spatial relationship of coarse garnet with other alteration assemblages and mineralization, as well as petrographic documentation of paragenetic relationships.



Figure 19) *Large garnets in siliceous and fine-grained Laminar-foliated unit. Arrow points to where foliation intersects a garnet dodecahedron.*

Biotite alteration

Evidence for biotite alteration consists of locally high contents of poorly-oriented biotite (30% or more) in the Metaclastic unit at Grid 2 (Figure 20) and the discordance of biotite flakes with respect to primary foliation in different units (very equivocal evidence). Stronger evidence is provided by petrographic observations that biotite crosscuts and replaces the boundaries of feldspar grains. Although probably not supported by the greater body of field studies, it is worthwhile to note that Sid Williams (petrographer) suggests that muscovite (of muscovite-quartz alteration) is simply retrograded biotite.

Muscovite-quartz

Muscovite-quartz is the most recognizable form of alteration on the property (Figure 21). Note that the term "muscovite" is used sensu-lato, and includes muscovite, sericite after feldspar, and other white phyllosilicates as alteration products of other original minerals. Muscovite-quartz alteration is probably magnetite-destructive, since this mineral rarely if ever occurs with this alteration suite. This alteration is characterized by interlayered coarse-grained lustrous to splendent or pearly white mica and gray quartz, either as original



Figure 20) *Dark biotite-rich sufidic Metaclastic unit from Grid 2.*



Figure 21) *Coarse-grained muscovite partings are a characteristic feature, regardless of original rock type.*

rods or eyes (Figure 22) or as introduced silica. Petrographic work supports the presence of paragenetically-late fine-grained patchy quartz. Muscovite-quartz alteration is not confined to a single unit (Figure 23, Tables 6a-c) and occurs in two multi-km northwest-trending belts on the property. Muscovite can replace any silicate mineral except quartz and epidote and strong

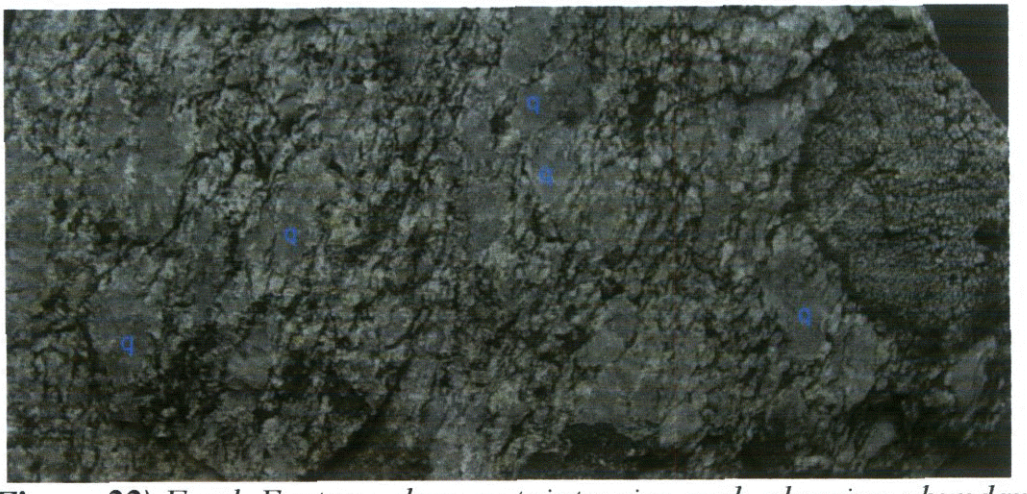


Figure 22) *Fresh Eastern-class metaintrusive rock, showing abundant gray cm-scale quartz rods (some are labeled blue). These survive muscovite-quartz alteration; an altered example is depicted in Figure 23.*



Figure 23) *Muscovite-quartz alteration of Metaclastic unit (top); Laminar-foliated unit (middle); and Eastern-class intrusion (bottom). Note the surviving quartz rods in the latter example.*

muscovite alteration is imprinted upon a small plug of the Western-class intrusive suite at Grid 2. A common manifestation of weaker or more distal muscovite-quartz alteration is the sericitization and clouding of feldspar grains. The nature of muscovite-quartz alteration is characterized by comparing the composition of unaltered and muscovite-quartz altered Eastern-class intrusions (Figure 24, Table 6a). In general, with alteration K2O shows an increase relative to TiO2. In contrast, CaO decreases significantly. Quartz content however does not show a marked change; this suggests that quartz is redistributed but not added during alteration. Bleaching always accompanies muscovite-quartz alteration. If this represents decarbonation, it raises the possibility that the graphitic rocks described by core loggers in the HW and FW to mineralization at main Lucky Joe represents carbon that was remobilized during alteration. As a mapping caution, muscovite-quartzite or weathered light bronze biotite can be mistaken for muscovite alteration.

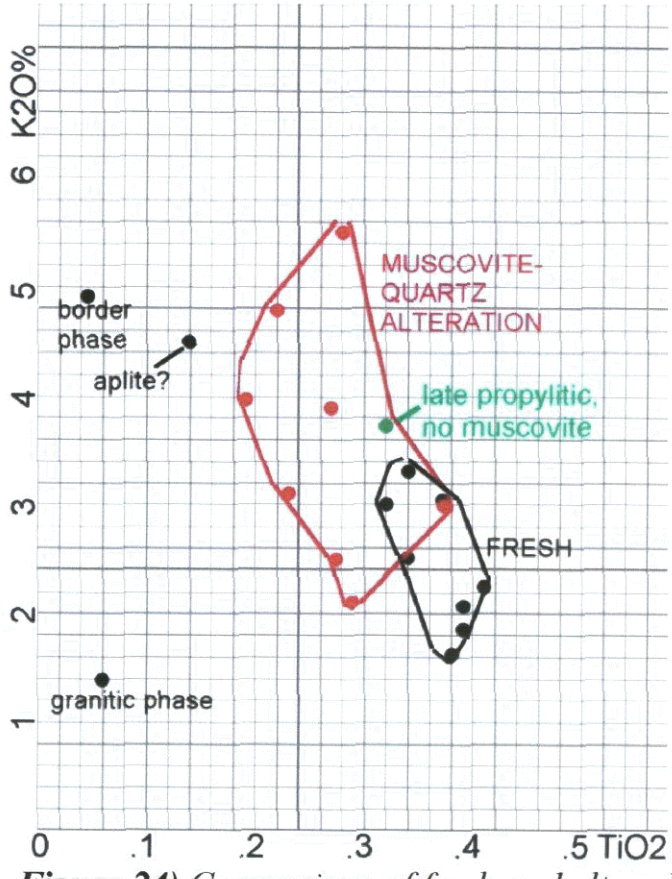


Figure 24) *Comparison of fresh and altered Eastern-class intrusions.*

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
13978	14.78	0.17	2.06	0.03	4.93	3.72	1.58	0.06	2.62	0.07	67.82	0.02	0.32	1.64	99.83
13958	15.29	0.21	0.69	0.02	3.91	5.47	1.01	0.03	0.73	0.05	69.1	0.04	0.28	3.05	99.87
13946	13.75	0.19	0.52	0.02	4.87	3.91	0.98	0.02	1.22	0.06	70.95	0.02	0.27	2.8	99.59
13977	13.33	0.12	0.78	0.03	3.58	2.48	0.34	0	3.46	0.05	72.11	0.01	0.25	3.25	99.8
13976	12.4	0.1	0.9	0.06	3.94	2.08	0.45	0	2.44	0.03	72.99	0.02	0.29	3.51	99.2
13957	14.07	0.14	1.79	0.01	2.64	3.94	0.53	0.05	2.71	0.05	73.14	0.01	0.19	0.63	99.88
13943	13.41	0.17	0.43	0.01	3.1	3.11	0.55	0.01	2.64	0.05	73.89	0.03	0.23	2	99.61
13941	14.55	0.29	0.74	0.01	1.72	2.93	1.23	0	1.88	0.04	73.92	0.08	0.37	1.73	99.48
13916	12.76	0.38	0.08	0.02	2.12	4.77	0.76	0.01	0.7	0.01	76.06	0	0.22	1.94	99.83

Table 6a) *Altered Eastern-class metaintrusions.*

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
13900	14.61	0.12	1.01	0.01	8.23	1.17	3.57	0.08	3.5	0.12	60.69	0.03	0.76	5.04	98.93
13972	14.08	0.14	0.57	0.04	2.34	2.85	0.46	0.01	3.12	0.04	74.11	0.01	0.23	1.76	99.75
13902	13.35	0.29	0.93	0.01	3.96	2.97	0.3	0.06	2.26	0.06	74.2	0.02	0.27	1.22	99.91
13942	13.91	0.19	0.88	0.01	1.49	4.68	0.35	0.01	2.62	0.04	74.5	0.06	0.2	0.95	99.89

Table 6b) *Altered Laminar-foliated unit.*

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
13921	10.38	0.03	3.76	0.02	9.45	1.78	1.31	0.16	0.39	0.06	69.47	0.04	0.49	2.76	100.1
13911	14.63	0.05	2.92	0.03	2.78	1.3	2.69	0.01	1.65	0.11	69.76	0.02	0.7	2.17	98.82
13915	12.19	0.3	0.55	0.01	2.56	3.61	2.37	0.03	0.43	0.02	73.99	0	0.16	2.74	98.96
13912	16.36	0.02	0.38	0.03	0.64	1.85	0.18	0	0.95	0.04	77.58	0	0.52	1.4	99.95
13913	12.55	0.05	0.26	0.02	2	2.04	0.35	0	0.81	0.08	78.35	0	0.86	2.06	99.42
13917	7.1	0.09	0.04	0.04	0.82	1.86	0.23	0	0.21	0.02	87.05	0.01	0.35	1.52	99.34
16150	14.43	0.04	1	0.03	3.68	2.89	1.77	0.01	0.92	0.08	72.22	0.01	0.38	2.33	99.78
16151	15.43	0.05	2.52	0.06	6.17	3.05	5.66	0.04	1.51	0.14	62.46	0.02	0.79	1.9	99.77
16154	14.34	0.38	1.14	0.02	14.79	2.98	4.1	0.03	1.86	0.12	54.03	0.02	0.65	3.8	98.28
16156	14.46	0.11	4.14	0.02	8.66	1.71	3.88	0.11	1.77	0.09	61.8	0.02	0.46	1.76	98.99

Table 6c) *Altered Metaclastic unit. Samples 13911-13 are from large open cut at main Lucky Joe. Last four samples are copper-rich drill core at main Lucky Joe and Grid 2 that may be biotite-altered.*

K-spar alteration

Petrographic studies show that potassium feldspar replaces plagioclase. Descriptions from core logging include the mention of quartz-potassium feldspar veins. However, as shown above, documented potassium enrichment is seemingly associated with muscovite-quartz alteration that would classically be called a phyllic assemblage.

Chlorite-epidote-hematite alteration

Chlorite alteration of biotite and hornblende and epidote alteration of feldspar or other minerals is fairly widespread. In some cases this could be ascribed to non-hydrothermal alteration of chemically permissive rock types. Chlorite-epidote alteration shows few unequivocal patterns on the Lucky Joe property, but is convincingly concentrated in and around the Western-class intrusion on

Grid 2 and chlorite alteration is commonly developed after biotite in other Western-class intrusions. At Grid 2 chloritized biotite and late quartz-epidote-chlorite veinlets and hematite alteration (Figure 25) are locally observed in Eastern-class metaintrusive rock that contains sulfides. This sample is moderately enriched in potassium (Figure 24, late propylitic). Hematite alteration is also present in Metaclastic unit rocks in drill core from Grid 2. Core from Grid 2 examined during 2003 shows an alteration continuum from biotite to chlorite to muscovite, an observation also supported by surface evaluation and petrographic studies at main Lucky Joe.

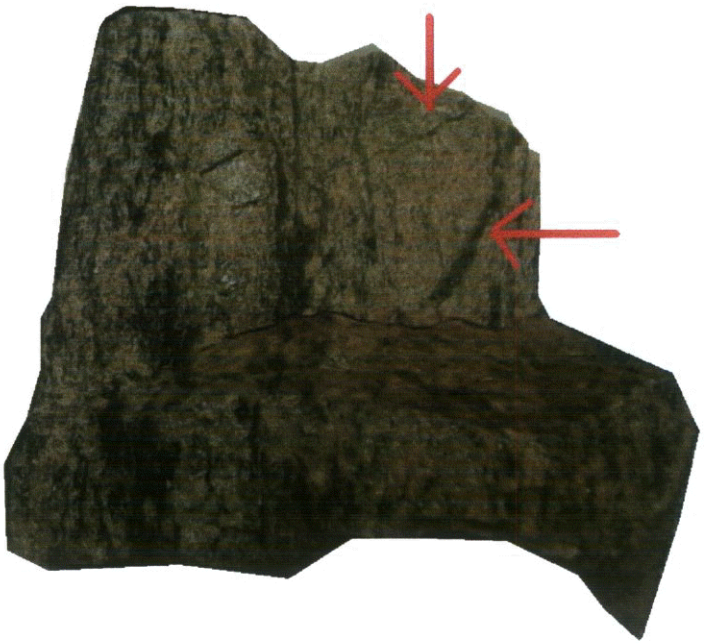


Figure 25) *Quartz-epidote-chlorite veinlets cutting Eastern-class metaintrusive rock, containing hematite-stained feldspar.*

Sodic alteration

Sodic alteration, presumably albitization is probably widely developed in the Western-class metaintrusions, based on Na2O analyses of 4 to greater than 6% (Table 4). Interestingly, the plagioclase in Western-class metaintrusions is commonly glassy and unaltered. This is particularly apparent in a sample from Grid 2 than contains 6.42% Na2O and only 0.46% K2O (Figure 26). The implications are that sodic alteration is associated with fluids of higher pH, as opposed to more acidic feldspar-destructive alteration in the muscovite-quartz assemblage. One consideration is that the Western-class intrusions are a fractionated phase of the Eastern-class. This hypothesis would represent a case similar to the Gibraltar porphyry copper system. Figure 27 makes a

suggestive case for this scenario, although the Western-class intrusions can be seen to be slightly off-trend.



Figure 26) *Granular gray quartz and glassy reflective plagioclase in Western-class metaintrusive rock. Largest plagioclase crystals are 3 mm.*

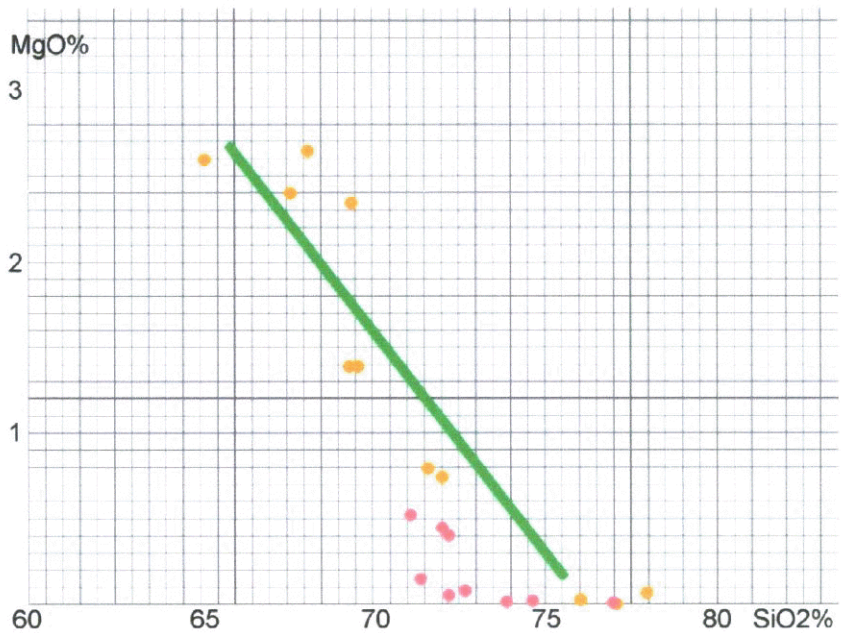


Figure 27) *MgO vs. SiO2 plot with Eastern-class in yellow, and Western-class in pink. The green line depicts the possible fractionation trend.*

Skarn alteration

Skarn and calc-silicate alteration occurs in several locales. Undoubtedly, such alteration is more widespread than can be appreciated from the limited rock exposures. Skarn forms after carbonate, amphibolite, and possibly other rock types. Skarn and calc-silicate occurrences occur along the margins of the Eastern-class and Western-class intrusions. Regardless of the underlying protolith, skarns are dense and dark, exhibiting high iron and low SiO2 concentrations (Table 7) and sulfides are minor to absent. The mineral assemblages consist of garnet, epidote, diopside, tremolite or other amphiboles, and possibly rhodonite or rhodochrosite. A zinc content of 2.97% in one skarn occurrence suggests a link with carbonate-hosted mineralization discussed below. Magnetite content ranges from none to abundant, and elevated bismuth, copper, molybdenum, and tellurium are variably associated. Skarns possibly became more enriched with zinc and lead as the hydrothermal system evolved. The elevated strontium in sample 13959 is interesting because this skarn occurs at the margin of an Eastern-class intrusion with no apparent relationship to the strontium-rich Western-class intrusions.

ID	Al2O3 %	BaO %	CaO %	Cr2O3 %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	SrO %	TiO2 %	LOI %	TOT.
14599	15.33	0.04	5.86	0.03	21.85	0.34	3.65	0.41	1.17	0.58	46.3	0.01	2.23	1.96	99.75
13959	15.61	0	16.31	0.01	18.57	0.14	2.63	0.35	0.07	0.07	41.62	0.13	0.11	3.56	99.18
13955	4.23	0.01	16.31	0.01	30.49	0.09	0.97	0.8	0.85	0.06	44.64	0.01	0.26	0	98.53
13949	5.59	0	20.56	0.01	19.41	0.04	2.39	2.41	1.45	0.08	44.27	0.02	0.35	1.63	98.2

Table 7) *Compositions of skarn from the Lucky Joe property.*

Miscellaneous observations

There are zinc-lead soil anomalies peripheral to copper. The source of one such anomaly east of main Lucky Joe was traced to outcrop, and consists of sphalerite and galena and oxidation products in epidotized siliceous dolomite and marble. A sample from this zone contains 3.4% zinc-lead, as well as anomalous copper, tellurium, bismuth, and strontium. The geochemical association suggests a link with skarn mineralization, as well as copper-gold mineralization. A single float specimen of barite was found in the quartzite subunit east of main Lucky Joe. This might be an early diagenetic sediment-hosted occurrence that is unrelated to alteration and copper-gold mineralization. Reported kyanite and staurolite at main Lucky Joe is not yet considered a proven part of the alteration packages, in that such a mineral assemblage might be expected in rocks from an amphibolite-grade metasedimentary unit.

Discussion

Previous workers ascribed mineralization on the Lucky Joe property as syngenetic or diagenetic in origin, i.e. a sedimentary copper deposit. The principal lines of cited evidence for this conclusion are as follows:

1) sulfides are deformed parallel with foliation
2) sulfides are widespread and disseminated and obvious hydrothermal channelways are lacking
3) the copper zones are generally conformable
4) the mineralogy is relatively simple
5) magnetite may be a metamorphic product of hematite and the hangingwall iron formations may have originally been oxidized sediments; thus by inference the sulfides were deposited at the interface between oxidized and less-oxidized sediments

There are some mistaken assumptions and incongruent statements regarding this evidence. Concerning the first statement: regardless of the age of mineralization, unless there is strong vertical or subvertical structural preparation, hydrothermal fluids will necessarily follow preexisting bedding or foliation planes. Furthermore, sulfides and alteration do not faithfully follow metamorphic fabric. Evidence of this from core and surface observations include chalcopyrite and pyrite along fractures, cubic pyrite growing across foliation, quartz veins with chalcopyrite, and pyrite filling open space at main Lucky Joe; muscovite-quartz alteration fronts and sulfide-quartz-epidote-chlorite veinlets discordant with foliation, chalcopyrite quartz-muscovite alteration adjacent to aplite, and increased K-spar and epidote adjacent to fractures and quartz veins at Grid 2; and a crosscutting quartz vein with garnet and pyrite selvages and an aplite with pyrite selvages at Bear Cub. The second statement discounts the significance of the muscovite-quartz alteration corridors, but regardless, does not favor a sedimentary copper model over any other. The third statement is incorrect, since alteration and mineralization also occur in the Eastern-class metaintrusions. The simple mineralogy does not favor a sedimentary copper model over several other deposit types. In fact, the presence of a copper-gold-molybdenum association seems incompatible with a standard sedimentary copper model. The fifth assertion is also in question, since magnetite occurs within the chalcopyrite zone at Grid 2 and Bear Cub. It seems possible that alteration and copper mineralization may have encroached well into the magnetite zone.

Some relevant observations that may aid in understanding the nature of the mineralization and alteration at Lucky Joe are listed below:

1) As noted in core logs and observed by the author, sulfides commonly replace biotite. Biotite abundance at the time of sulfide mineralization may be important, and if so, the relative proportions of primary vs. hydrothermal biotite becomes a subject of interest.
2) The reported oxide-sulfide assemblage is magnetite → chalcopyrite/pyrite/pyrrhotite → pyrite/pyrrhotite. For the purposes of this report, the magnetite zone is considered to be the top or margin.
3) With the exception of part of the Grid 2 area, soil copper anomalies track mapped muscovite-quartz alteration. This is not to say that significant chalcopyrite occurs in muscovite-quartz altered rocks, but at least in association with them. Even at Grid 2, the occurrence of minor layers of muscovite-quartz alteration well east of the mapped alteration zone suggests that such alteration may exist at depth beneath copper anomalies developed over the biotite-bearing Eastern-class metaintrusive suite.
4) Muscovite-quartz alteration is a magnetite-destructive potassic event that overprints most, if not all other types of alteration: chloritic alteration commonly forms a transitional alteration assemblage between biotite and muscovite-quartz alteration; quartz and biotite replace garnet, and by inference, muscovite-quartz alteration should be later than garnet; muscovite replaces K-spar and plagioclase; strong muscovite alteration overprints a Western-class intrusion on Grid 2.
5) Muscovite-quartz alteration cuts across most geologic units and does not perfectly track the Eastern- or Western-class intrusive suites.
6) Based on the inference of magnetite inclusions in garnet, magnetite is the same age as or later than garnet. Magnetite occurs in the Western-class intrusive suite and considering that this suite is iron-depleted (Table 4), the magnetite might be later rather than coeval.
7) Magnetite is reported to replace and be replaced by pyrite.
8) Magnetite alteration commonly is associated with units that are low in K2O and elevated in Na2O3. This suggests that magnetite is not part of a potassic alteration assemblage. This does not refute the possibility that another generation and affiliation of magnetite might exist.
9) Chalcopyrite replaces pyrite and pyrrhotite.
10) Hydrothermal(?) hematite forms pseudomorphs after magnetite.
11) Chlorite-epidote alteration is stable with magnetite, but hematite can also occur with this alteration suite.

12) Alteration and mineralization commonly follow preexisting foliation, but there are numerous minor examples indicating that various types of alteration and sulfide-quartz mineralization are also later than foliation.
13) Certain elements, including Bi, Cu, and Te, provide a geochemical link between skarns, a carbonate-hosted Zn-Pb occurrence, and Cu-Au mineralization. However, copper abundance in skarns is one to two orders of magnitude less than that of the Cu-Au zones, and skarns and calc-silicated zones generally occur at the margins of metaintrusions.
14) Western-class intrusions are strongly depleted in most elements.
15) The Western-class intrusions are at least partly younger than the Eastern-class. Aplites are co-magmatic with or younger than Eastern-class intrusions and are associated with some of the sulfide mineralization.
16) Sulfide-sulfur isotopes are generally in the range of +2 to +4 per mil. These values are compatible with igneous sulfur contaminated by crustal hydrothermal rock sulfur.

Based upon the observations listed above, a very general paragenesis is shown in Figure 28. The Eastern-class intrusions represent the initial significant event. Exoskarn mapped along the contact of Eastern-class intrusions would be empirically linked to intrusion. The Western-class intrusive suite is younger, at least in part, and could represent a volumetrically subordinate fractionated phase of the Eastern-class batholithic scale event. A genetic association between the Eastern- and Western-class intrusions is intuitively satisfying, because of the close spatial and locally ambiguous relationship between these suites. However, weaker fabric development in the Western-class intrusions suggests that fractionation may have post-dated the

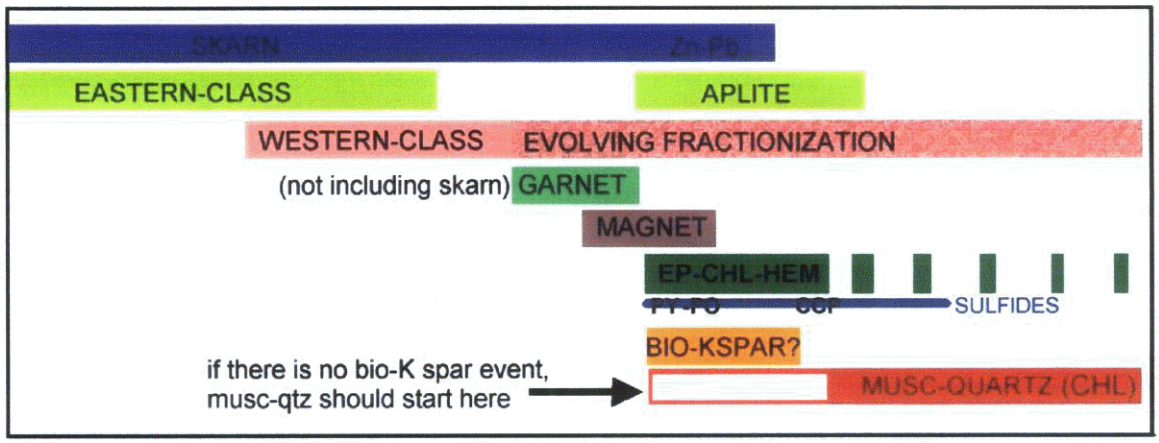


Figure 28) *Possible paragenesis for alteration and mineralization.*

culmination of a metamorphic episode, and thus a change from ductile to brittle deformation and development of permissive structural (steep fault) architecture. Skarn could have formed at any time during intrusion, fractionation, and hydrothermal activity. This might be why there is a wide range of copper, zinc, and lead content from occurrence to occurrence. Garnet and magnetite alteration are evidence of iron oxide and silicate alteration of permissive lithotypes and could represent early manifestations of mass transfer of metals from the (now depleted) Western-class intrusions into overlying and adjacent rocks. Biotite and K-spar alteration is partly conceptual, in that the extent and importance is unknown, but it remains possible that subsequent muscovite-quartz alteration coincides with and overprints a former biotite and K-spar rich zone. The timing of propylitic alteration is especially problematic, but the hematization of magnetite, and chlorite and/or epidote in and around highly-fractionated Western-class intrusions provides limited constraints. Because of the observed close association of sulfides with biotite, the inception of significant sulfide deposition is correlated with potassic alteration. If subsequent work shows biotite-K spar alteration to be a non-event, the timing of sulfides would coincide with the overprinting of muscovite-quartz alteration upon (primary) biotite-rich metamorphic rocks.

Aplites are known to be associated with the Eastern-class intrusions, and are reported from core at Grid 2 and Bear Cub. Aplites at Bear Cub could be related to the Western-class intrusions. Aplite injection could be a measure of cooling of intrusions and release of volatiles, along with contained metals.

The inception of quartz-muscovite alteration is unconstrained, but this alteration is inferred to also post-date other major episodes of alteration, save possibly minor propylitization. Although quartz-muscovite alteration is destructive, it was not necessarily the highest temperature; instead it may have involved fluids of lower pH. Muscovite-quartz alteration forms partly-offset linear belts that might mimic structural trends that were active during mineralization. The occurrence of post-brecciation muscovite at main Lucky Joe suggests that fault movements were occurring during part of this alteration stage. The suggested strike of mineralized trends might be 300 to 330 azimuth with northeast offsets, although there is a strong risk that these trends were inherited during subsequent deformation and thrust faulting.

Conclusions

A larger area encompassing Grid 2 and Cub Bear exhibits the best copper soil geochemistry. The greatest concentration of propylitic and quartz-muscovite alteration and the most sodic footwall rocks occur in this area. In addition, there is a relative abundance of potential (biotite-rich) host rocks, represented by the Eastern-class intrusions and the Metaclastic unit and a greater proportion of the potential host rock lies closer to surface. For these and other reasons, the Grid 2 to Cub Bear trend and surrounding areas are considered prospective. Soil anomalies in this area that are underlain by muscovite-quartz alteration may be transported, and more biotite-rich rocks spatial to these anomalies should be evaluated. The strong soil geochemistry at Noname Creek should not be ignored, recognizing that this target may be similar to main Lucky Joe: a west-dipping panel of biotite-rich rocks at the base of a magnetite-bearing zone. Thus, although primary grade potential might be as good or better at Noname Creek than elsewhere, the proportion of this mineralization that lies near-surface could be modest.

In the face of so much information, the essential details can be overlooked. Consider that: 1) there are at least three intrusive phases (Eastern- and Western-class; aplites); 2) multiple types of alteration including propylitic and potassic (muscovite-quartz and possibly biotite-K spar); 3) two or more generations of sulfide +/- quartz (early foliation-parallel and later cross-cutting); and 4) a copper-gold-molybdenum elemental association. All of these observations support the original proposal of a porphyry copper-gold model for the Lucky Joe mineralized system.

APPENDIX I

COMPARISON OF TERMINOLOGY

Riocanex Annual Reports: Unit 1=Western-class intrusions; Unit 2=*Group 1*=Metaclastic unit; Unit 3=*Group 2*=biotite-muscovite-quartz alteration; Unit 4=Amphibolite unit; Unit 5=Laminar-foliated unit; *Group 3*=Unit 4 + Unit 5; Unit 6=Western-class intrusions + Laminar-foliated unit; *Group 4*= Amphibolite unit. Grid 1=main Lucky Joe; Grid 2=Papa Bear; Grid 3=Cub Bear.

Riocanex Publication: Unit 1=Laminar-foliated unit + Western-class intrusions; Unit 2=Amphibolite unit; Unit 3=Laminar-foliated unit; Unit 4=biotite-muscovite-quartz alteration; Unit 5=Metaclastic unit. Area 1=main Lucky Joe; Area 2=Cub Bear (Grid 3); Area 3=Papa Bear (Grid 2).

APPENDIX II

GEOCHEMISTRY

See Appendix D in Nov. 30, 2003 report by R. Hulstein for complete results.

Kennecott Canada Exploration Co.

Date: 1/11/2003	**LUCKY JOE PROJECT** **Lucky Joe Claim Block** **2003 Rock & Stream Sediment** **Sample Locations**
Author: R. Franklin	
Office: Salt Lake City	094358
Drawing:	
Scale: 1:20000	Projection: UTM Zone 7 (NAD 83)

250 0 250 500
metres

EXPLANATION

- △ ROCK SAMPLE SITE
- ◇ STREAM SEDIMENT
- Quartz Claims

N
W E
S

Figure 29

YUKON ENERGY, MINES
& RESOURCES LIBRARY
P.O. Box 2703
Whitehorse, Yukon Y1A 2C6

Kennecott Canada Exploration Co.

LUCKY JOE PROJECT
Lucky Joe Claim Block
2003 Soil Samples

094388

Date: 11/11/2003
Author: R. Franklin
Office: Salt Lake City
Drawing:
Scale: 1:20000
Projection: UTM Zone 7 (NAD 83)

250 0 250 500
metres

EXPLANATION

Quartz Claims

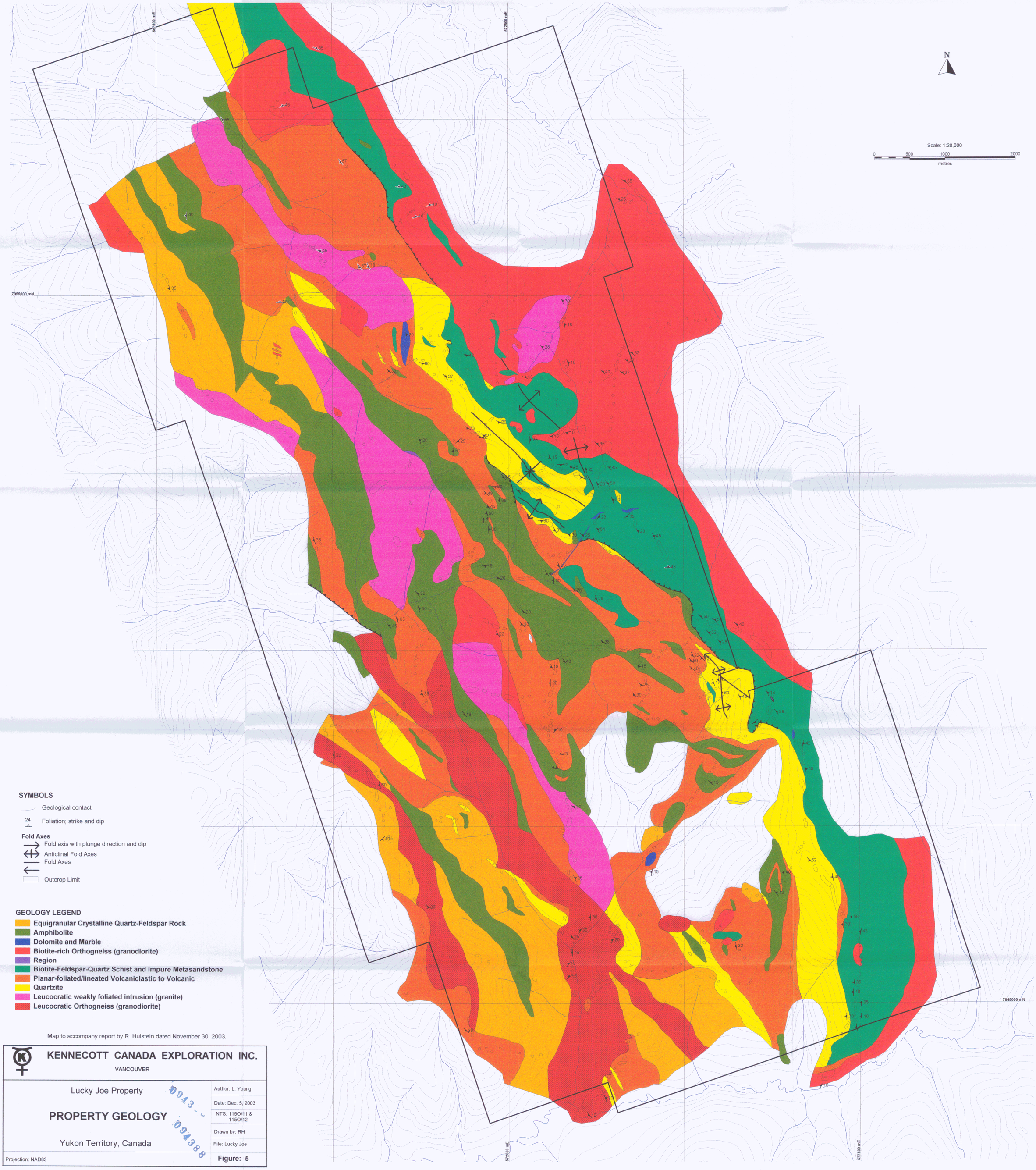
Percentile Ranges for: Cu (ppm)

1230 =< 4400	[99% +]
696 =< 1230	[98<99%]
324 =< 696	[95<98%]
146 =< 324	[90<95%]
74 =< 146	[80<90%]
43 =< 74	[60<80%]
24 =< 43	[30<60%]
4 =< 24	[<30%]

N W E S

Figure 19

YUKON ENERGY, MINES
& RESOURCES LIBRARY
PO Box 2703
Whitehorse, Yukon Y1A 2C6



SYMBOLS

- Geological contact
- 24 Foliation; strike and dip

Fold Axes

- Fold axis with plunge direction and dip
- Anticlinal Fold Axes
- Fold Axes
- Outcrop Limit

GEOLOGY LEGEND

- Equigranular Crystalline Quartz-Feldspar Rock
- Amphibolite
- Dolomite and Marble
- Biotite-rich Orthogneiss (granodiorite)
- Region
- Biotite-Feldspar-Quartz Schist and Impure Metasandstone
- Planar-foliated/lineated Volcaniclastic to Volcanic
- Quartzite
- Leucocratic weakly foliated intrusion (granite)
- Leucocratic Orthogneiss (granodiorite)

Map to accompany report by R. Hulstein dated November 30, 2003.

KENNECOTT CANADA EXPLORATION INC.
VANCOUVER

Lucky Joe Property

PROPERTY GEOLOGY

Yukon Territory, Canada

Projection: NAD83

Author: L. Young
Date: Dec. 5, 2003
NTS: 115O/11 & 115O/12
Drawn by: RH
File: Lucky Joe

Figure: 5

0943 - 094388

YUKON ENERGY, MINES & RESOURCES
P.O. Box
Whitehorse, Yukon Y1A 2C6

Kennecott Canada Exploration Co.

LUCKY JOE PROJECT
Lucky Joe Claim Block
2003 Soil Samples

Date: 11/11/2003
Author: R. Franklin
Office: Salt Lake City
Drawing:
Scale: 1:20000
Projection: UTM Zone 7 (NAD 83)

250 0 250 500
metres

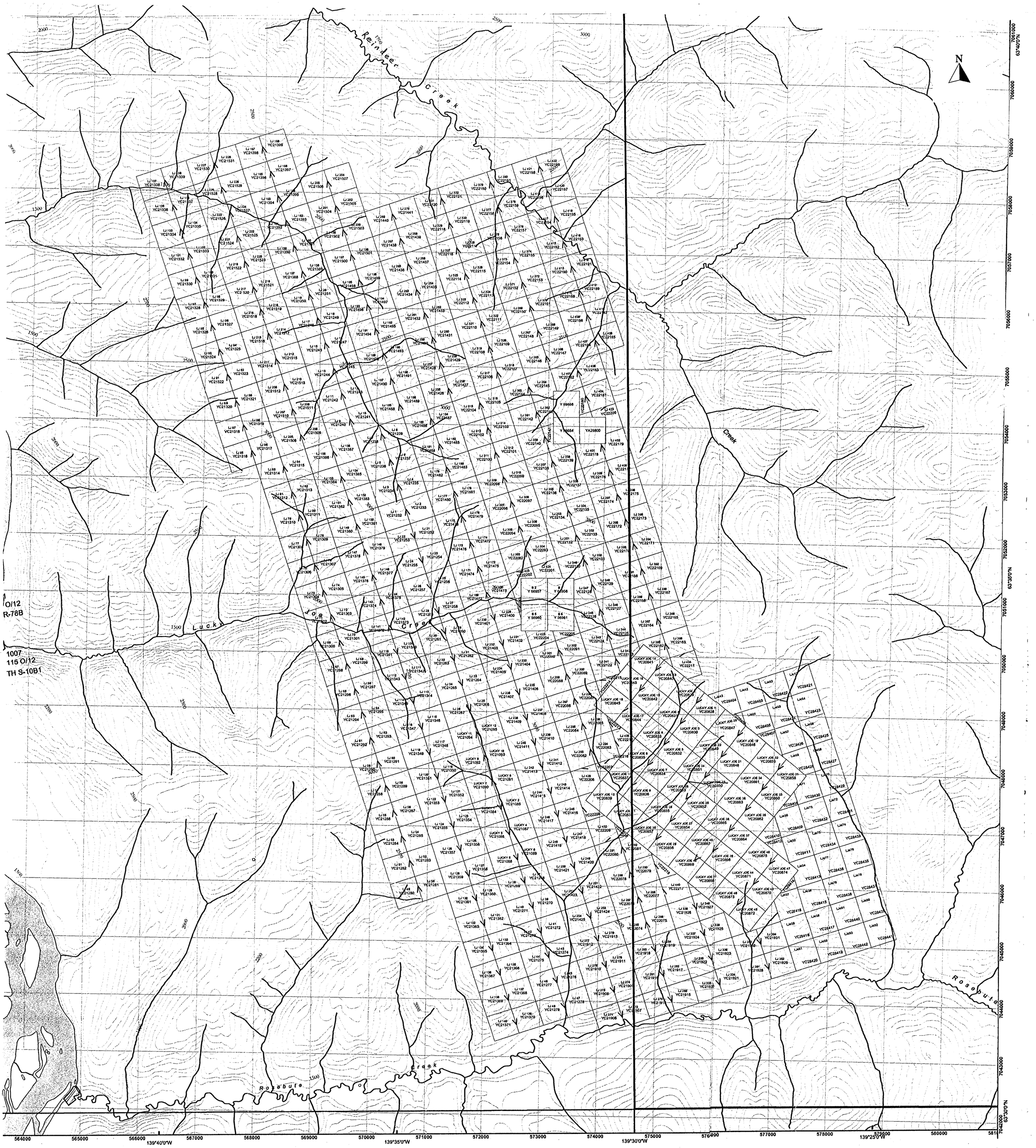
EXPLANATION

- SOIL SAMPLE SITE
- Quartz Claims

094388

Figure 16

YUKON ENERGY, MINES & RESOURCES LIBRARY
P.O. Box 2703
Whitehorse, Yukon Y1A 2C6


Reinbeer Creek
Lucky Creek
Rosebute Creek
N
63°40'0"N
63°30'0"N
139°40'0"W
139°35'0"W
139°30'0"W
139°25'0"W
7061000
7060000
7059000
7058000
7057000
7056000
7055000
7054000
7053000
7052000
7051000
7050000
7049000
7048000
7047000
7046000
7045000
7044000
7043000
7042000
564000
565000
566000
567000
568000
569000
570000
571000
572000
573000
574000
575000
576000
577000
578000
579000
580000
581
1500
2000
2500
3000
1300
1700
1800
2400
2600
2700
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
6900

YUKON ENERGY CORP.
& RESOURCES
PO Box 2703
Whitehorse, Yukon

Kennecott Canada Exploration Co.

	LUCKY JOE PROJECT *Lucky Joe Claim Block* *2003 Soil Samples*
Date: 11/11/2003	
Author: R. Franklin	
Office: Salt Lake City	094388
Drawing:	
Scale: 1:20000	Projection: UTM Zone 7 (NAD 83)

250 0 250 500
metres

EXPLANATION

Quartz Claims

Percentile Ranges for: Au (ppb)

64	=< 611 [99% +]
34	=< 64 [98<99%]
14	=< 34 [95<98%]
9	=< 14 [90<95%]
5	=< 9 [80<90%]
3	=< 5 [60<80%]
1	=< 3 [30<60%]
0.5	=< 1 [<30%]

Figure 18