PHASE – 1 A

RANCHERIA - REGIONAL REPORT

BERG, LENA & HOC CLAIMS

PREPARED FOR:
TANANA EXPLORATION INC.
27 TUTSHI ROAD
WHITEHORSE, YUKON
Y1A 3R4

BY:
WADE CARRELL
DECEMBER 31, 2007

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CHAPTER ONE:

INTRODUCTION;

This report outlines basic exploration work directed at appraising the regional mineral potential of the Rancheria area in south- eastern Yukon. The exploration work was carried out during the 2007- field season and is based on research completed by Wade Carrell, whose statement of qualifications is appended to this report. Personnel involved in the project were Wade Carrell and Ivan Elash. The budget for Phase 1 A of the project was $25,000.00 (see Appendix A for details).

PROJECT LOCATION:

The project area is centered on Spencer Creek in the Rancheria area of the southeast Yukon. It is located on the Wolf Lake map sheet and covers parts of NTS map sheets 105 B 1, 2 and 7 and is roughly located between 60° 00' to 60° 20' N Latitude by 130° 15' to 130° 35' W Longitude. Laying within the Watson Lake Mining District the majority of the area, except for that which is claimed by the Liard First Nation in the Boulder Creek area (near the center of the project area) and a few scattered blocks of Quartz mineral claims, is vacant Crown Land (see figures 1 – 3 for target locations; Appendix D for regional geology and magnetic maps). Current claim sheets, claim status reports and field notes are in map pocket.

AREA ACCESS:

From Whitehorse, area access is best accomplished by road east on the Alaska Highway to the Rancheria area, a distance of approximately 270 km one way. Further access to the various targets within the project area will utilize existing mining roads consisting of 4x4 and quad trails that leave the highway to the north and south at various points between Rancheria and Watson Lake and provide direct access to the various targets outlined below.

EXPLORATION MODELS:

The main target of exploration within the project area was focused on a variety of silver-lead-zinc mineral deposit types, principally represented by two main deposit types, consisting of carbonate replacements and polymetallic veins in faults and shear zones.

Anomalous results suggestive of other conceptual models (VMS) will also be evaluated.

TARGET DESCRIPTIONS:

Precious and base metal mineralization occurring within Paleozoic sedimentary rocks and Cretaceous plutonic rocks as veins and replacement lenses is well documented throughout the Rancheria area within and along the eastern margin of the Cassiar Batholith (see generalized Regional Geology, Appendix D). Numerous occurrences (30+) were discovered during two main periods of exploration in the late 1970's and the mid to late 1980's that dominately contain silver-rich galena, sphalerite, pyrite and chalcopyrite as well as lesser amounts of arsenopyrite, freibergite, tetrahedrite and pyrrhotite.

Mineralization appears to be structurally controlled by northeast-southwest jointing and to a lesser extent, by the lithological contact between limestone and phyliite. It is attributed to hydrothermal solutions migrating along the jointing and is readily identified in the field by the presence of iron and manganese gossans.

Research has identified several areas of interest within the regional, which are shown in figures 1 - 3 and are described below.

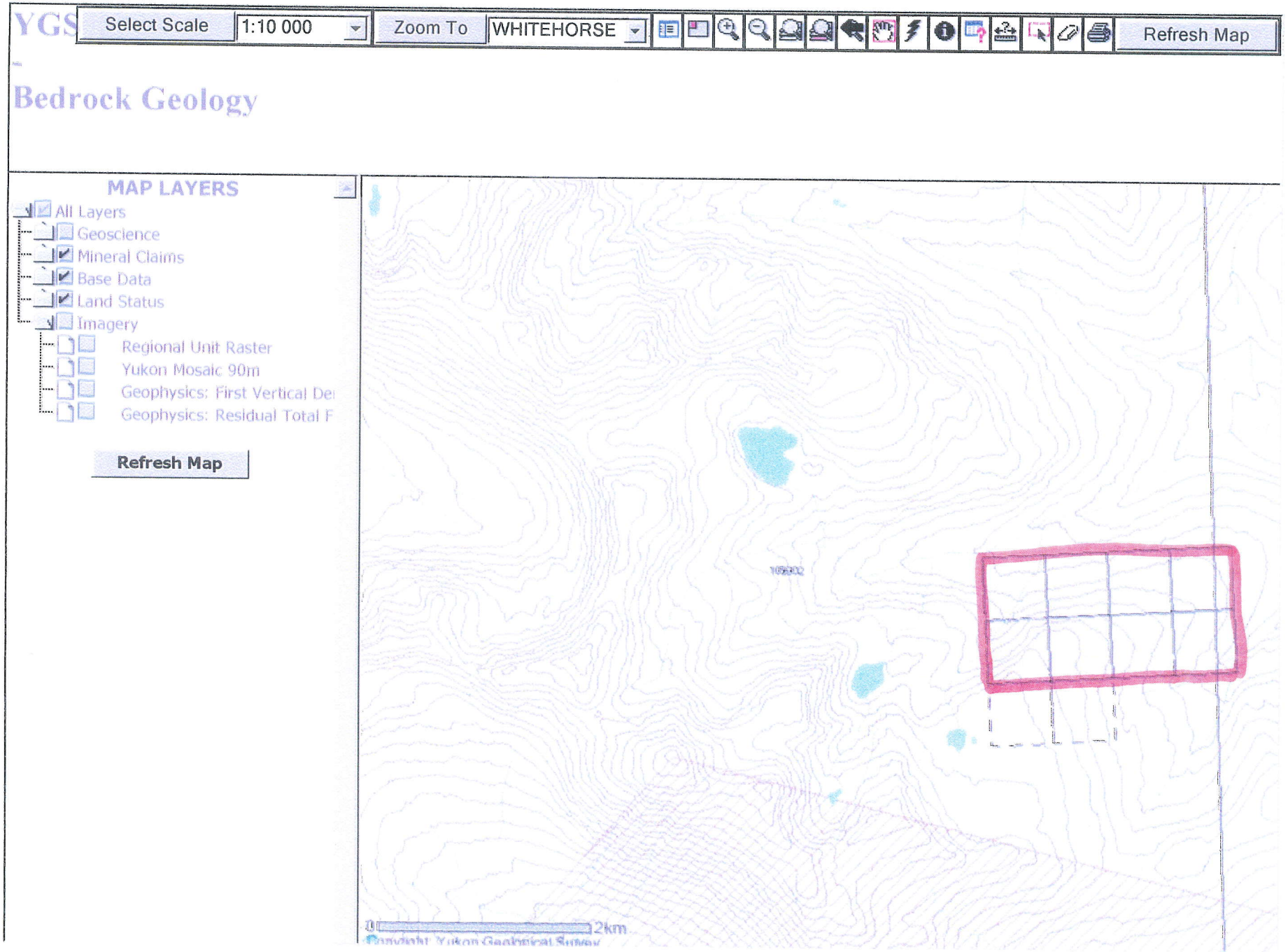
TARGET AREA # 1: BERG #1 – 16; Located at approximately 60°15'N Latitude and 130°35'W Longitude on the border between map sheets 105B-01, 02 and 07 in the headwaters area of Spencer Creek. This target area is underlain by Paleozoic limestone, phyllite and schist, near the contact with the Cassiar Granite Batholith along its eastern margin. A total of six showings, including two drilled prospects have previously been identified in this area. Poly-metallic veins containing sphalerite, galena, chalcopyrite,

manganese oxide and siderite occur in east/west trending faults. Mineralization has been previously exposed over hundreds of meters of strike length, which at times is present in widths of up to 6 meters. Reports of massive sulfide boulders in the area have apparently never been traced back to a bedrock sources (Minfile Occurrences 105B 060 & 133). Propsecting, MMI and ICP soil/till sampling was carried out in an attempt to identify the source of the high-grade boulders (4.5g/t gold) as well as possibly other previously unrecognized occurrences. In July 2007 claims were staked to enlarge the Berg (Minfile # 105B133) claim block. Work done on these claims has extended previous anomalies to the East. Four man - days were spent prospecting and sampling the Berg claims.

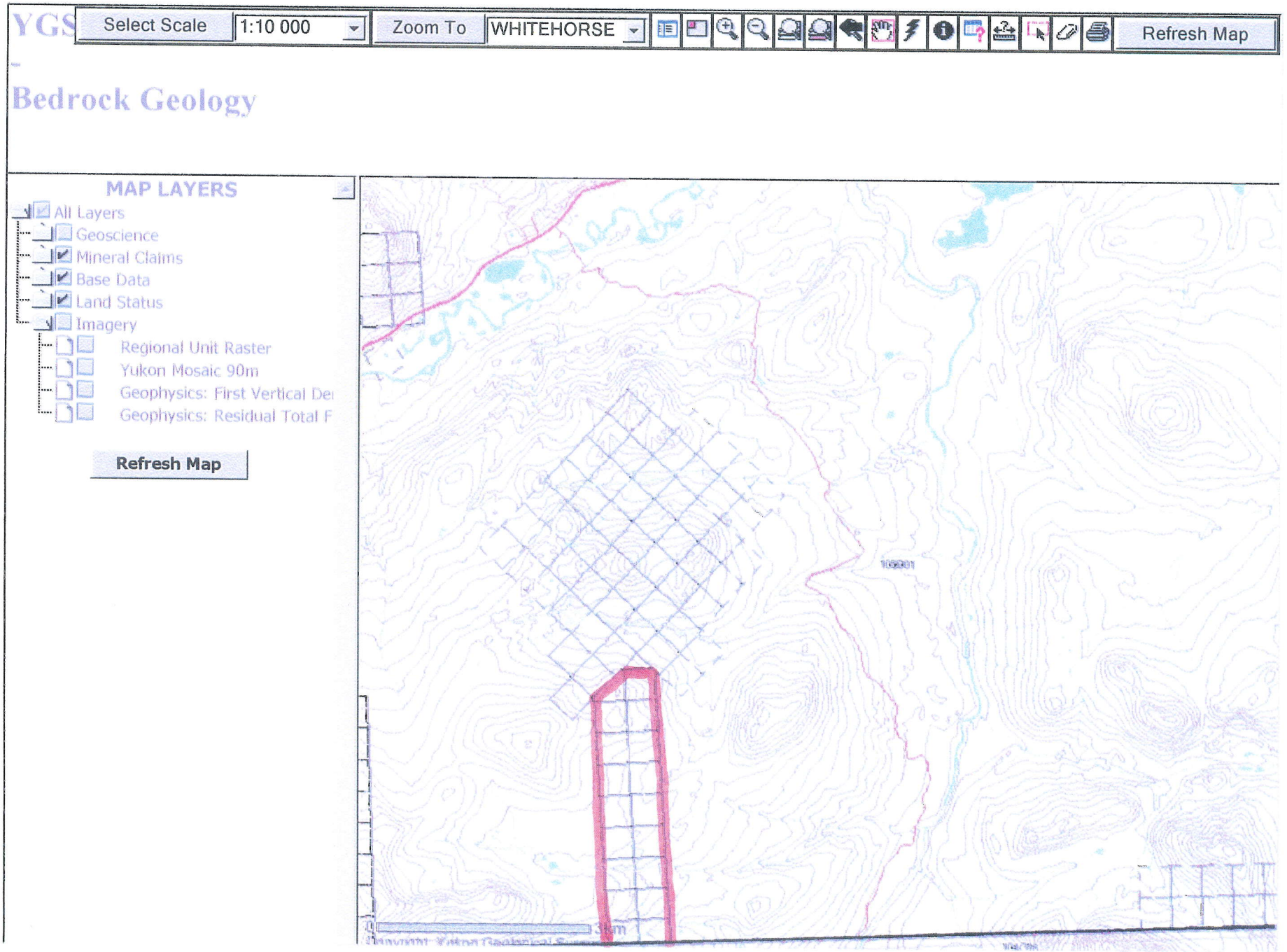
TARGET AREA # 2: LENA #1 - 8; Located at approximately 60°10'N Latitude and 130°30'W Longitude on map sheet 105B-02, 35 kilometers north of the Alaska Highway, on the border of map sheets 105B/01 & 02, at the headwaters of Spencer Creek. This area occurs within Paleozoic limestone, phylite and schist in contact with the Cassiar Granite Batholith (eastern margin). Six showings, including two drilled prospects have been identified in this area.. Lenses of massive galena and polymetalic quartz veins occur in northwest trending faults. Cat trenching has exposed mineralization over hundreds of meters of strike length (to 4 meters wide). Historic reports of massive galena float boulders (300 oz/t silver), have never been traced to a bedrock source (Minfile Occurrance 105B 122). In July claims were staked to expand the Lena claim block. Soil sampling (MMI and ICP soil / till) was carried out on the property. Sampling has confirmed previous anomalies. Four man - days were spent prospecting for further minealization along the fault zone.

TARGET AREA # 3: HOC #1 – 18; Located at approximately 60°0'N to 60°2'N Latitude/135°21'W Longitude on map sheet 105B-1, 8 km south of the Alaska Highway and 4 km west of Tootsie River. This area is in Paleozoic limestone, phylite and schist in contact with the Cassiar Granite Batholith (on its eastern margin). This area lies immediately south of a known 3 to 7 million ton low grade VMS deposit (gold values to 15g/ton - Minfile 105B-001, Star occurrence), which was discovered in 1983 during drilling of a significant EM anomaly by Butler Mountain Minerals Inc. Geophysics

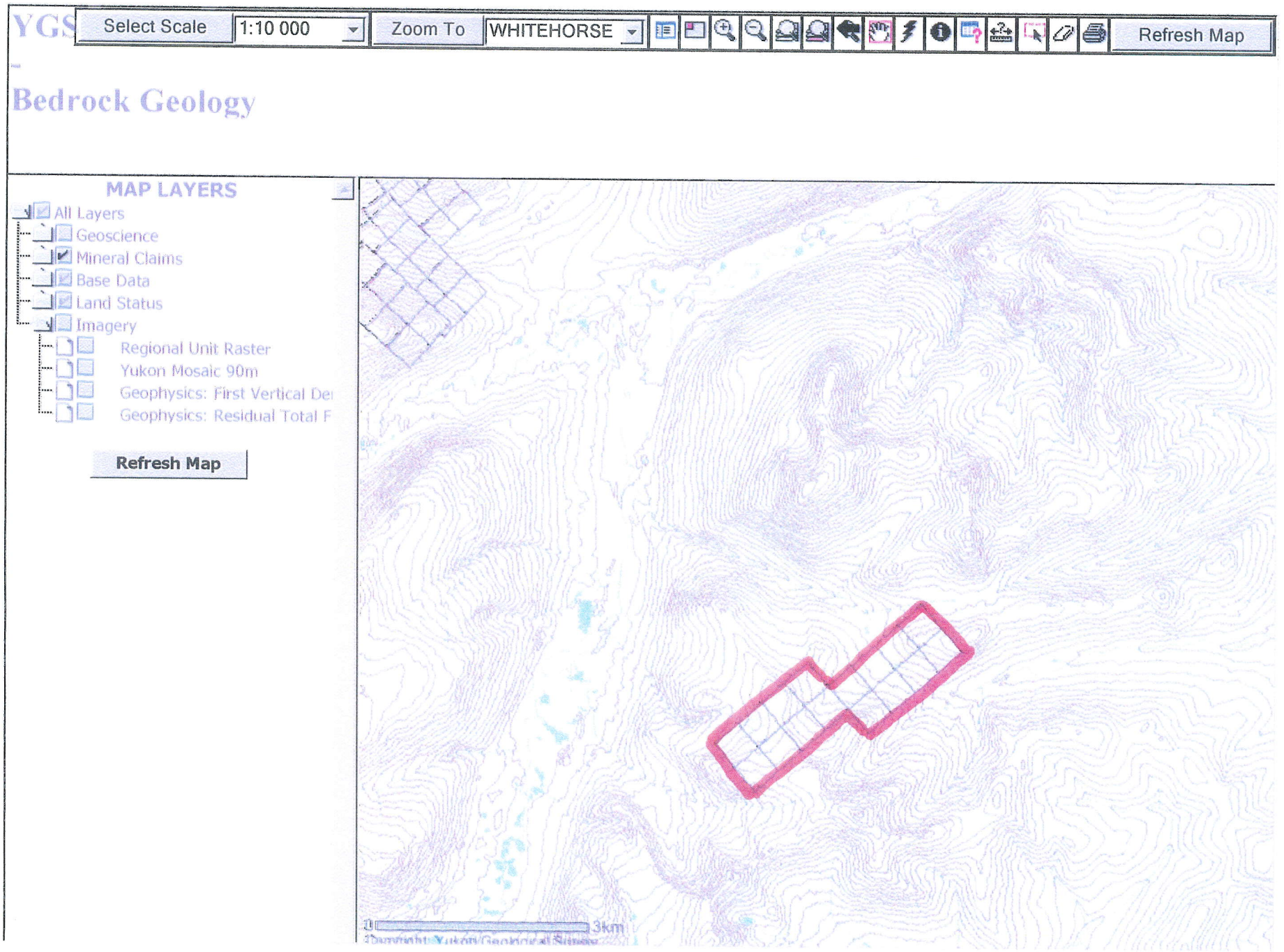
LENA #1 - 8: PROPERTY LOCATION MAP; NTS #105B /02



HOC #1 - 18: PROPERTY LOCATION MAP; NTS #105B/01



BERG #1 - 16 PROPERTY LOCATION MAP: NTS #105B /02



carried out during that time period indicated a significant EM signature further to the south which research suggest has apparently never been followed up. Interestingly, mapping of this area indicates a fault perpendicular to and running off the Dale fault (major east / west fault), coincident with the unexplained geophysical anomaly in this area. Prospecting and reconnaissance geochemical (ICP & MMI soil/till) sampling surveys were carried out in 2007 to investigate these prospective and coincident features. Eight days were spent prospecting and sampling the HOC claims.

CHAPTER TWO:

PROJECT RATIONALE:

An abundance of under-explored high-grade silver-lead-zinc targets are known to exist within this region, which is easily accessible directly from the Alaska Highway, in an area that has not seen any significant exploration activity for nearly 20 years. During two previous periods of historic exploration in this region, work was highly concentrated on a few specific occurrences. Little or no follow-up work on targets identified peripheral to these occurrences on the extensive claim holding of a small number of companies which blanketed the area was carried out and many of these claims were held afterwards by payments in lieu of work for extended periods of time. Numerous historic assessment reports that have been incorporated into the MINFILE database are available on line and for viewing in the library at the Elijah Smith building. Research of these reports has lead to the identification of most of the targets described in this regional reconnaissance report.

DESCRIPTION AND TYPE OF WORK:

A regional exploration program for various types of Ag, Au, Cu, Pb & Zn mineralization was undertaken in the previously described target areas during the 2007 field season. The project relied heavily on ongoing detailed research and a program of targeted geochemical soil/till sampling surveys and prospecting to vector targets for a follow-up program and ground geophysics in 2008. Sampling was initiated as soon as

local conditions permitted within the areas described above (claim status reports and NTS map sheets are in the map pocket at the end of this report).

Targeted geochemical sampling of soil & till was carried out in the priority areas described above using techniques employed by the Yukon Geological Survey. Sample pits were hand dug with pick and spade to an average depth of 60 cm. One sample was taken from the bottom of each pit, placed in Kraft paper sample bags (300 gram sample), dried and later shipped for standard ICP analysis. Four samples at 10cm intervals were taken with a plastic trowel (cleaned between samples), placed in Ziploc plastic sandwich bags (300 gram sample), each marked as to sample site and interval. Samples were double bagged and later shipped for MMI multi element leach analysis (orientation survey to determine correct sample depth). The sample locations and line spacing varied from one property to another in order to cover known structures and lithologies (sample location maps in Appendix C). Prospecting and rock sampling was carried out in conjunction with soil/till sampling and any mineralized float or outcrop discovered was prospected and sampled immediately.

Upon completion of the initial phase, 315 till samples were sent to SGS Mineral Services in Toronto, for mobile metal ion / multi-element leach analysis, 9 rock and 84 till samples were sent to Acme Analytical Lab in Vancouver and Echo Tech Lab in Kelowna, for standard ICP multi-element analysis. Follow-up and investigation of anomalies detected during the initial exploration phase will be undertaken on a priority basis after compilation of the analytical results and the collected geological data.

Phase 1 reconnaissance and sampling took 26 days and $ 25,274.88 was spent to complete this work (Activity Log Cost Breakdown for each property is presented as Appendix A).

CHAPTER THREE:

Conclusions;

BERG #1 – 18: The ICP & MMI till sampling survey conducted in July confirmed extensive mineralization in a previously known east/west structural linear. Bismuth and molybdenum are elevated in all the ICP samples. Silver is elevated in the

ICP samples from the north and south end of the grid. Copper and zinc are high on the south end of the grid. MMI samples returned silver, lead and zinc anomalies on the south and east sides of the grid. Copper is high on the south, central and east end of the grid. Wide spaced sampling to the east has extended the geochemical soil anomalies onto a magnetic anomaly. This geophysical signature was covered by the Berg #9 to 18 claims.

HOC #1 – 18: The till sampling survey conducted in June returned mixed results. The rock and soil samples sent for ICP analysis returned low values. The MMI soil samples returned weak anomalies on the north grid and strong copper, gold, silver and zinc anomalies on the south grid. However it must be noted that the grids covered part of four claims on the North end of the block and a smaller part of two claims at the South end. The grids were set out to conduct a limited test on a strong but narrow linear EM and Magnetic anomaly.

LENA #1 – 8: The ICP & MMI till sampling survey conducted in July confirmed extensive mineralization in a northeast fault structure. Bismuth and molybdenum are elevated in 90% of the ICP samples. Copper, lead and zinc are anomalous in both ICP and MMI samples. Gold is anomalous in 1 ICP sample and 17 MMI samples. Silver is anomalous in 2 ICP and 9 MMI samples. Wide spaced sampling to the east has extended the geochemical anomalies onto a magnetic anomaly. This geophysical signature is covered by Lena #2 & #8 claims.

RECOMMENDATIONS:

All three properties surveyed merit more work next season. An extensive MMI sampling program for Berg and HOC and an infill soil sampling survey of Lena are recommended. A magnetometer survey is recommended for all of the above properties.

Budgeting for Phase 2 assumes collection of possibly 400 till and 100 rock samples as well as ground geophysics. Anomalies should be followed up in priority order.

ENVIRONMENT/RESOURCES

No special environmental/resource concerns are known for any of these areas. The Department of Indian and Northern Affairs has implemented land use regulations in the Yukon Quartz Mining Act. Under these regulations, approval of a land use permit will be required prior to commencing any exploration activity that exceeds the Class 1 threshold (Class 1 activities are exempt). The work currently completed will not exceed the Class 1 threshold and thus activities in these areas will adhere to the operating conditions setout in Schedule III of the Yukon Quartz Mining Land Use Regulations and follow reclamation techniques setout in DIAND's Handbook to Reclamation Techniques in the Yukon for camp sites and control of erosion associated with trenching. First Nation land tenure and title rights will be respected on any claimed land adjacent to the project areas and any environmental concerns will be addressed through strict adherence to the Operating Conditions of the Mining Land Use Regulations for Class I, II, III and IV Programs. In addition any camp areas were properly maintained by following guidelines for no-trace camping and all garbage was properly handled and removed from the areas during and upon completion of each project. Of utmost importance was the maintenance of water quality standards in the areas by ensuring that creek banks were not disturbed and/or eroded and that wash and human waste disposal areas will not contaminate any ground water sources.

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YUKON GEOLOGICAL SURVEY WEBSITE – MAP GALLERY

APPENDIX A

ACTIVITY LOGS & COST BREAKDOWNS

2007

BERG CLAIMS
ACTIVITY LOG COST BREAKDOWN

PERSONNEL: WADE CARRELL, IVAN ELASH

DATE	PERSONNEL WC	PERSONNEL IE	ACTIVITY DESCRIPTION
JULY 17/07	X	X	Pitting and Soil sampling on Berg # 7 and # 8
JULY 18/07	X	X	Pitting and Soil sampling on Berg # 7 and # 8
JULY 23/07	X		Ship MMI samples to SGS Canada Lab; Toronto
JULY 24/07	X		Ship ICP samples to Acme Analytical Lab; Vancouver

CLAIMS WORKED	SAMPLE TYPES AND NUMBERS TAKEN
BERG # 7	ICP ROCKS- 3; ICP SOILS- 9; MMI SOILS- 36
BERG # 8	ICP SOILS- 20; MMI SOILS- 64

BERG COST BREAKDOWN

3 ROCK SAMPLES	ICP ANALYSIS @ $22.60 per sample = $67.80
29 SOIL SAMPLES	ICP ANALYSIS @ $15.10 per sample = $437.90
100 SOIL SAMPLES	MMI ANALYSIS @ $35.00 per sample = $3500.00
6 DAYS LABOUR	LABOUR @ $300.00 per man/day = $1800.00
2 QUADS	TWO QUADS @ $50.00/quad/day = $200.00
GASOLINE	GASOLINE - 4 TANKS @ $25.0/tank = $100.00
LIVING ALLOWANCE	TWO DAYS FOOD @ $70.0/day = $140.00
SHIPPING SAMPLES	SAMPLES to Toronto via Greyhound = $111.09
SHIPPING SAMPLES	SAMPLES to Vancouver via Greyhound = $57.00
TOTAL COST	$6,313.79

2007

H.O.C. CLAIMS
ACTIVITY LOG COST BREAKDOWN

PERSONNEL: WADE CARRELL, IVAN ELASH

DATE	PERSONNEL WC	IE	ACTIVITY DESCRIPTION
JUN 18/07	X	X	Travel to Rancheria, Yukon
JUN 19/07	X	X	Stake HOC #17 & #18
JUN 20/07	X	X	Truck repairs in Watson Lake, Yukon
JUN 21/07	X	X	Pitting and Soil sampling on H.O.C. # 1 & # 2
JUN 22/07	X	X	Pitting and Soil sampling on H.O.C. # 1,2,3 & 4
JUN 23/07	X	X	Pitting and Soil sampling on H.O.C. # 1 & # 2
JUN 24/07	X	X	Pitting and Soil sampling on H.O.C. # 15 & 16
JUN 25/07	X	X	Travel to Whitehorse, Yukon
JUN 26/07	X		Ship MMI samples to SGS Canada; Toronto, On
JUN 27/07	X		Ship ICP samples to Acme Analytical Lab; Vancouver

H.O.C. COST BREAKDOWN

5 ROCK SAMPLES	ICP ANALYSIS @ $22.60 per sample = $113.00
30 SOIL SAMPLES	ICP ANALYSIS @ $15.10 per sample = $453.00
115 SOIL SAMPLES	MMI ANALYSIS @ $35.00 per sample = $4025.00
18 DAYS LABOUR	LABOUR @ $300.00/day = $5400.00
GASOLINE	GASOLINE @ $100.00/tank x 4 = $400.00
TRUCK & TRAILER	EIGHT DAYS @ $60.00/day = $480.00
2 QUADS @ $50./DAY	QUADS @ $100.00/day x 5 = $500.00
LIVING ALLOWANCE	EIGHT DAYS @ $35.00/day/man = $560.00
MOTEL	SEVEN DAYS @ $80.00/day = $560.00
SHIPPING SAMPLES	SAMPLES to Toronto via Greyhound = $111.90
SHIPPING SAMPLES	SAMPLES to Vancouver via Greyhound = $57.00
TOTAL COST	$12,659.90

CLAIMS WORKED	SAMPLE TYPES AND NUMBERS TAKEN
HOC # 1	ICP SOILS- 12; MMI SOILS- 48
HOC # 2	ICP ROCKS- 5; ICP SOILS- 2; MMI SOILS- 8
HOC # 3	ICP SOILS- 6; MMI SOILS- 21
HOC # 4	ICP SOILS- 3; MMI SOILS- 12
HOC # 15	ICP SOILS- 4; MMI SOILS- 16
HOC # 16	ICP SOILS- 3; MMI SOILS- 12

2007

LENA CLAIMS
ACTIVITY LOG COST BREAKDOWN

PERSONNEL: WADE CARRELL, IVAN ELASH

DATE	PERSONNEL WC	PERSONNEL IE	ACTIVITY DESCRIPTION
JULY 14/07	X	X	Pitting and Soil sampling on Lena # 3 and #4
JULY 15/07	X	X	Pitting and Soil sampling on Lena # 3 and # 4
JULY 23/07	X		Ship MMI samples to SGS Canada; Toronto, On.
JULY 24/07	X		Ship ICP samples to Acme Analytical; Vancouver, BC

CLAIMS WORKED	SAMPLE TYPES AND NUMBERS TAKEN
LENA # 3	ICP SOILS- 10; MMI SOILS- 40
LENA # 4	ICP ROCKS- 1; ICP SOILS- 15; MMI SOILS- 60

LENA COST BREAKDOWN

1 ROCK SAMPLE	ICP ANALYSIS @ $22.60 per sample = $22.60
25 SOIL SAMPLES	ICP ANALYSIS @ $15.10 per sample = $377.50
100 SOIL SAMPLES	MMI ANALYSIS @ $35.00 per sample = $3500.00
6 DAYS LABOUR	LABOUR @ $300.00 per man/day = $1800.00
2 QUADS	TWO QUADS @ $50.00/quad/day = $200.00
GASOLINE	GASOLINE @ $25.00/tank/quad x 2 = $100.00
LIVING ALLOWANCE	TWO DAYS FOOD @ $70.00/day = $140.00
SHIPPING SAMPLES	SAMPLES TO TORONTO VIA GREYHOUND = $111.09
SHIPPING SAMPLES	SAMPLES TO VANCOUVER VIA GREYHOUND = $50.00
TOTAL COST	$6,301.19

APPENDIX B

CERTIFICATES OF ANALYSIS

ICP AND MMI SPREAD SHEETS

17-Jul-07

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP MS CERTIFICATE OF ANALYSIS AW 2007- 7086

Tanana Exploration
27 Tutshi Road
Whitehorse, YK
Y1A 4R4

No. of samples received: 5
Sample Type: Rock
Project: HOC
Submitted by: W. S. Carrell

Values in ppm unless otherwise reported

Et #.	Tag #	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1	200/R	<0.1	0.06	5.2	6.4	0.05	0.01	0.02	0.8	181.5	4.47	0.46	0.9	8	0.03	8.2	0.01	26	0.43	0.004	4.3	77.8	1.80	<0.02	1.16	0.4	0.3	6.8	<0.02	1.9	0.001	0.04	0.2	2	0.1	14.5
2	201/R	<0.1	0.06	6.7	2.7	0.02	<0.01	0.01	0.6	162.3	2.67	0.35	0.7	11	0.02	5.6	<0.01	19	0.48	0.005	3.8	51.0	0.34	<0.02	2.18	0.8	0.2	2.1	<0.02	1.4	0.001	0.02	0.2	2	0.2	5.4
3	202/R	<0.1	0.06	5.1	3.9	0.17	<0.01	0.01	1.1	139.5	3.68	0.48	1.1	3	0.02	8.8	<0.01	24	0.37	0.005	3.4	56.0	<0.01	<0.02	1.62	0.2	0.3	2.9	<0.02	1.7	<0.001	0.03	0.1	2	0.1	6.5
4	203/R	<0.1	2.87	2.7	22.4	0.39	0.01	0.02	16.1	69.7	32.74	6.49	9.3	1	0.20	26.3	1.45	141	0.31	0.022	26.7	538.7	2.89	0.03	0.32	2.7	0.8	9.4	0.02	7.5	0.015	0.05	0.7	30	<0.1	62.3
5	204/R	<0.1	0.06	8.5	3.8	0.09	<0.01	<0.01	0.6	129.0	2.93	0.42	0.9	1	0.01	5.4	0.01	16	0.30	0.002	3.3	93.7	0.63	<0.02	1.19	0.3	0.2	4.9	<0.02	1.0	0.001	0.15	0.2	3	0.0	2.7

QC DATA:

Repeat:

1	200/R	<0.1	0.06	5.2	6.5	0.05	0.01	<0.01	0.9	191.9	4.57	0.48	0.9	7	0.03	8.1	0.01	27	0.45	0.004	4.4	80.6	1.62	<0.02	0.99	0.5	0.3	7.0	<0.02	1.9	0.001	0.03	0.2	3	0.1	13.6

Resplit:

1	200/R	<0.1	0.06	5.2	6.6	0.06	0.01	0.01	0.9	209.2	5.13	0.51	0.9	6	0.04	8.3	0.01	29	0.45	0.008	4.8	86.6	1.76	<0.02	1.08	0.5	0.3	6.9	<0.02	2.0	0.001	0.03	0.2	3	0.1	18.7

Standard:

Till-3		1.3	1.11	86.3	42.6	0.31	0.64	0.09	12.8	64.7	21.96	1.97	4.3	101	0.09	12.6	0.52	316	0.71	0.034	31.3	466.7	31.00	0.02	0.53	1.7	0.2	14.3	0.02	1.1	0.038	0.03	1.2	33	0.1	36.7

JJ/bp
df/7086im
XLS/07

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

27-Jul-07

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10041 Dallas Drive
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V2C 6T4

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Fax : 250-573-4557

ICP MS CERTIFICATE OF ANALYSIS AW 2007- 7086
Revised

Tanana Exploration
27 Tutshi Road
Whitehorse, YK
Y1A 4R4

No. of samples received: 5
Sample Type: Rock
Project: HOC
Submitted by: W. S. Carrell

Values in ppm unless otherwise reported

Et #	Tag #	Au (Fire Assay) ppb	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1	200/R	5	<0.1	0.06	5.2	6.4	0.05	0.01	0.02	0.8	181.5	4.47	0.46	0.9	8	0.03	8.2	0.01	26	0.43	0.004	4.3	77.8	1.80	<0.02	1.16	0.4	0.3	6.8	<0.02	1.9	0.001	0.04	0.2	2	0.1	14
2	201/R	10	<0.1	0.06	6.7	2.7	0.02	<0.01	0.01	0.6	162.3	2.67	0.35	0.7	11	0.02	5.6	<0.01	19	0.48	0.005	3.8	51.0	0.34	<0.02	2.18	0.8	0.2	2.1	<0.02	1.4	0.001	0.02	0.2	2	0.2	5
3	202/R	5	<0.1	0.06	5.1	3.9	0.17	<0.01	0.01	1.1	139.5	3.68	0.48	1.1	3	0.02	8.8	<0.01	24	0.37	0.005	3.4	56.0	<0.01	<0.02	1.62	0.2	0.3	2.9	<0.02	1.7	<0.001	0.03	0.1	2	0.1	6
4	203/R	20	<0.1	2.87	2.7	22.4	0.39	0.01	0.02	16.1	69.7	32.74	6.49	9.3	1	0.20	26.3	1.45	141	0.31	0.022	26.7	538.7	2.89	0.03	0.32	2.7	0.8	9.4	0.02	7.5	0.015	0.05	0.7	30	<0.1	62
5	204/R	<5	<0.1	0.06	8.5	3.8	0.09	<0.01	<0.01	0.6	129.0	2.93	0.42	0.9	1	0.01	5.4	0.01	16	0.30	0.002	3.3	93.7	0.63	<0.02	1.19	0.3	0.2	4.9	<0.02	1.0	0.001	0.15	0.2	3	0.0	2
QC DATA:																																					
Repeat:																																					
1	200/R	<5	<0.1	0.06	5.2	6.5	0.05	0.01	<0.01	0.9	191.9	4.57	0.48	0.9	7	0.03	8.1	0.01	27	0.45	0.004	4.4	80.6	1.62	<0.02	0.99	0.5	0.3	7.0	<0.02	1.9	0.001	0.03	0.2	3	0.1	13.
Resplit:																																					
1	200/R	<5	<0.1	0.06	5.2	6.6	0.06	0.01	0.01	0.9	209.2	5.13	0.51	0.9	6	0.04	8.3	0.01	29	0.45	0.008	4.8	86.6	1.76	<0.02	1.08	0.5	0.3	6.9	<0.02	2.0	0.001	0.03	0.2	3	0.1	18.
Standard:																																					
Till-3 SE29		595	1.3	1.11	86.3	42.6	0.31	0.64	0.09	12.8	64.7	21.96	1.97	4.3	101	0.09	12.6	0.52	316	0.71	0.034	31.3	466.7	31.00	0.02	0.53	1.7	0.2	14.3	0.02	1.1	0.038	0.03	1.2	33	0.1	36.

JJ/bp
df/7086im
XLS/07

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25-Jul-07

ECO TECH LABORATORY LTD.
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ICP MS CERTIFICATE OF ANALYSIS AW 2007- 7087

Extended Package
Revised

Tanana Exploration
27 Tutshi Road
Whitehorse, YK
Y1A 4R4

No. of samples received: 33
Sample Type: Soil
Project: HOC
Submitted by: W.S. Carrell

Values in ppm unless otherwise reported

Et #	Tag #	Au	Ag	Al	As	Ba	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	Ir	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Zn	Zr
		Fire Assay																																																
		ppb	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppb	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
1	HOC/001	<5	0.1	0.43	10.9	28.2	0.30	0.07	0.03	29.69	3.6	5.7	0.98	5.06	1.06	2.7	6.7	0.02	18	0.89	0.07	14.9	6.7	0.16	119	0.26	0.031	0.82	6.5	484.6	4.93	7.9	0.02	1.24	1.0	0.7	0.4	10.2	<0.05	0.02	5.0	0.020	0.13	0.9	12	0.2	16.7	0.4
2	HOC/002	<5	0.1	0.48	18.5	29.5	0.45	0.07	0.06	37.12	12.0	6.6	1.57	8.54	1.36	3.5	7.9	0.04	21	0.88	0.06	17.6	13.6	0.13	404	0.63	0.031	0.88	12.9	657.5	9.42	8.3	0.03	4.17	1.2	0.8	0.4	9.0	<0.05	0.03	6.8	0.018	0.30	1.6	11	0.3	23.8	1.2
3	HOC/003	<5	<0.1	1.23	9.4	37.6	0.39	0.04	0.05	18.97	11.4	25.0	4.52	8.72	2.42	6.0	12.4	0.02	24	0.85	0.14	9.2	21.7	0.52	275	0.48	0.034	2.79	29.5	408.5	6.76	14.7	0.03	0.37	2.1	0.6	0.8	4.7	<0.05	0.03	2.6	0.057	0.18	0.8	31	0.1	41.1	0.7
4	HOC/004	<5	0.1	0.35	5.4	19.0	0.15	0.09	0.04	23.22	2.3	3.2	0.70	2.38	0.65	2.2	3.6	0.03	20	0.87	0.04	12.3	6.9	0.15	92	0.13	0.035	0.94	4.5	484.1	3.20	5.2	0.02	0.17	0.6	0.5	0.3	2.8	<0.05	0.02	5.4	0.019	0.07	0.6	10	0.1	15.3	0.7
5	HOC/005	5	0.1	0.67	4.9	30.4	0.93	0.11	0.04	23.85	2.7	4.7	1.41	3.27	0.95	3.3	4.5	0.03	21	0.83	0.09	12.3	19.3	0.21	134	0.19	0.035	1.76	4.9	634.3	6.38	12.2	0.02	0.26	1.0	0.6	0.7	4.1	<0.05	<0.02	5.2	0.032	0.13	0.7	15	0.1	23.9	0.7
6	HOC/006	5	<0.1	0.44	5.4	23.5	0.28	0.10	0.04	24.27	2.7	4.5	1.16	3.01	0.91	3.0	4.2	0.02	20	0.86	0.06	12.3	11.1	0.16	107	0.18	0.034	1.05	5.3	649.8	4.40	8.0	0.02	0.16	0.7	0.6	0.4	3.2	<0.05	<0.02	3.8	0.020	0.08	0.8	13	0.1	17.4	0.4
7	HOC/007	5	<0.1	0.35	5.0	25.4	0.70	0.09	0.04	21.85	1.9	3.0	0.85	1.96	0.64	2.2	2.9	0.03	17	0.86	0.06	11.4	9.0	0.16	115	0.11	0.035	0.94	4.3	488.9	4.97	8.0	0.02	0.09	0.6	0.5	0.4	2.9	<0.05	<0.02	5.5	0.022	0.08	1.0	10	0.1	17.6	0.9
8	HOC/008	<5	<0.1	0.37	6.8	20.0	0.21	0.09	0.04	27.25	2.5	4.1	0.83	2.70	0.85	2.5	3.6	0.02	18	0.86	0.05	14.0	8.8	0.15	123	0.22	0.032	0.82	5.1	602.7	4.56	6.3	0.02	0.34	0.6	0.6	0.3	5.0	<0.05	<0.02	5.9	0.017	0.07	0.7	11	0.1	16.7	0.5
9	HOC/009	5	0.1	0.18	4.1	20.5	0.12	0.10	0.03	20.20	1.6	2.5	0.56	1.55	0.55	1.7	2.3	0.03	12	0.88	0.03	9.6	6.6	0.12	103	0.07	0.031	0.37	3.5	504.9	3.46	4.8	<0.02	0.09	0.4	0.4	0.2	3.1	<0.05	<0.02	4.8	0.016	0.05	0.4	9	<0.01	10.9	0.8
10	HOC/010	<5	<0.1	0.32	4.9	26.6	0.20	0.10	0.05	23.85	2.1	3.0	0.80	2.09	0.65	2.2	2.5	0.03	16	0.85	0.06	12.4	11.1	0.15	101	0.10	0.034	0.72	3.9	526.7	4.32	7.0	<0.02	0.14	0.6	0.5	0.3	3.2	<0.05	<0.02	6.1	0.020	0.07	0.5	10	<0.01	14.4	1.0
11	HOC/011	5	<0.1	0.33	5.2	26.2	0.21	0.08	0.05	22.35	2.1	4.0	1.01	2.33	0.65	2.3	2.4	<0.02	16	0.86	0.06	11.2	8.6	0.17	127	0.08	0.034	0.54	4.2	403.2	3.84	8.5	0.02	0.07	0.7	0.5	0.4	3.6	<0.05	<0.02	3.6	0.022	0.08	0.6	11	0.1	16.6	0.4
12	HOC/012	<5	<0.1	0.84	7.3	57.9	0.63	0.15	0.04	41.29	8.3	13.9	4.49	13.48	2.02	4.6	6.2	0.06	16	0.81	0.34	20.2	13.7	0.41	153	0.15	0.043	0.71	8.2	834.8	4.38	27.4	0.16	0.10	2.2	0.8	0.5	31.8	<0.05	<0.02	9.4	0.065	0.25	1.1	22	<0.01	26.8	2.6
13	HOC/013	5	<0.1	0.37	4.5	31.8	0.19	0.10	0.03	25.51	1.9	2.9	0.91	1.87	0.68	2.5	2.4	0.04	16	0.85	0.07	13.2	10.7	0.17	119	0.08	0.035	0.96	3.7	526.6	3.84	9.0	0.02	0.03	0.7	0.5	0.4	3.1	<0.05	<0.02	7.5	0.024	0.08	0.7	12	<0.01	17.1	1.1
14	HOC/014	10	0.1	0.28	67.9	28.6	0.92	0.12	0.13	33.99	6.7	3.8	1.39	7.59	1.18	2.5	3.6	0.05	15	0.85	0.06	16.3	7.8	0.15	193	0.20	0.034	0.58	8.1	668.8	9.40	7.1	0.03	0.98	1.1	0.7	0.3	9.0	<0.05	0.02	7.4	0.019	0.12	0.9	11	0.1	34.7	1.6
15	HOC/015	5	<0.1	0.45	25.0	69.9	0.45	0.20	0.10	41.45	3.8	5.7	2.43	5.61	1.16	3.9	3.7	0.09	14	0.82	0.14	21.4	17.7	0.26	245	0.16	0.037	0.57	5.9	823.5	9.50	17.3	0.02	0.35	1.5	0.8	0.7	9.3	<0.05	<0.02	11.3	0.043	0.15	1.6	18	0.1	36.5	2.6
16	HOC/016	5	<0.1	0.28	6.1	31.3	0.34	0.12	0.05	27.13	3.6	3.7	1.26	2.79	0.72	2.4	2.2	0.05	15	0.84	0.08	12.6	13.5	0.16	215	0.10	0.032	0.52	4.7	556.6	5.95	10.2	0.02	0.16	0.7	0.5	0.4	4.7	<0.05	<0.02	6.4	0.026	0.09	0.7	11	<0.01	19.3	1.7
17	HOC/017	<5	<0.1	0.55	6.0	33.1	0.32	0.11	0.05	32.21	2.3	5.2	1.71	3.03	0.94	3.6	2.7	0.02	17	0.85	0.07	17.1	10.1	0.19	121	0.12	0.034	1.39	4.5	437.2	5.73	10.3	0.02	0.11	0.8	0.6	0.5	4.0	<0.05	<0.02	4.9	0.028	0.08	0.7	14	0.1	21.5	0.5
18	HOC/018	5	0.1	0.71	5.3	42.7	0.61	0.11	0.09	27.86	3.0	5.2	1.71	3.55	0.97	3.6	2.7	0.02	15	0.83	0.11	12.9	20.4	0.24	202	0.14	0.038	1.77	5.3	602.3	7.52	17.0	0.02	0.15	1.2	0.5	0.8	4.4	<0.05	<0.02	6.2	0.040	0.14	0.8	16	0.1	31.9	0.8
19	HOC/019	<5	0.1	0.67	5.0	39.7	0.65	0.11	0.05	25.94	2.7	5.2	1.69	3.45	1.00	3.7	2.7	0.02	21	0.83	0.09	13.2	18.7	0.23	127	0.13	0.034	1.75	4.6	537.8	6.57	13.1	0.02	0.18	1.1	0.6	0.7	4.5	<0.05	<0.02	4.9	0.036	0.11	0.7	17	0.1	26.7	0.5
20	HOC/020	<5	0.1	0.56	4.9	38.2	0.33	0.12	0.07	30.86	2.3	4.6	1.41	2.79	0.88	3.3	2.5	0.02	24	0.84	0.07	12.9	12.2	0.21	119	0.11	0.035	1.01	5.3	631.8	6.27	12.9	0.02	0.19	0.8	0.6	0.6	4.4	<0.05	<0.02	3.6	0.027	0.09	0.8	15	<0.01	21.7	0.4
21	HOC/021	5	<0.1	0.70	14.8	48.8	0.84	0.19	0.07	31.50	3.7	9.9	1.78	4.59	1.17	4.0	3.1	0.02	17	0.83	0.07	15.5	23.9	0.30	303	0.22	0.037	1.01	6.6	579.9	8.83	11.4	0.02	0.40	1.7	0.6	0.8	10.2	<0.05	<0.02	6.3	0.048	0.14	0.7	19	0.1	33.4	0.9
22	HOC/022	5	0.1	1.29	18.0	61.4	0.87	0.20	0.12	51.39	5.6	16.1	2.97	7.34	1.83	5.8	4.5	0.03	26	0.81	0.14	15.7	23.3	0.37	324	0.42	0.038	2.33	12.7	544.7	13.98	19.9	0.03	0.74	2.3	0.7	0.9	9.9	<0.05	<0.02	6.3	0.049	0.19	1.0	26	0.1	47.4	0.8
23	HOC/023	5	<0.1	0.72	7.6	52.7	0.74	0.15	0.06	29.89	3.5	6.1	1.98	3.78	1.11	3.9	2.8	0.02	20	0.83	0.11	12.5	18.8	0.25	202	0.20	0.037	1.79	7.0	483.7	9.10	18.6	0.03	0.18	1.2	0.5	0.7	6.6	<0.05	<0.02	3.0	0.035	0.12	0.8	17	0.1	33.9	0.5
24	HOC/024	5	0.2	0.73	11.0	49.2	0.75	0.13	0.12	25.41	3.6	7.0	1.83	4.33	1.06	3.7	2.7	0.02	19	0.83	0.12	12.7	23.7	0.26	224	0.27	0.035	1.60	6.5	663.5	9.53	17.5	0.02	0.15	1.2	0.6	0.7	6.4	<0.05	<0.02	5.0	0.037	0.14	0.7	18	0.1	38.3	0.6
25	HOC/025	5	0.1	0.48	9.6	46.5	0.24	0.10	0.34	22.48	3.2	5.1	1.72	9.65	1.19	2.8	2.9	0.05	20	0.83	0.11	11.6	16.2	0.16	153	0.59	0.033	1.30	8.9	729.5	8.80	15.3	0.02	1.04	1.1	0.7	0.5	3.9	<0.05	<0.02	5.8	0.024	0.14	0.6	17	0.1	53.5	1.7
26	HOC/026	5	0.1	0.79	13.0	62.7	0.26	0.09	0.28	20.70	3.8	7.3	2.25	9.14	1.36	3.3	3.1	0.03	22	0.83	0.11	9.5	20.4	0.21	170	0.63	0.035	2.09	12.7	644.7	23.25	18.0	0.03	1.21	1.3	0.6	0.6	4.5	<0.05	0.02	4.9	0.032	0.17	0.9	22	0.2	81.2	1.1
27	HOC/027	10	0.2	0.63	13.7	88.5	0.34	0.07	0.36	24.40	5.9	8.4	1.87	18.54	1.61	3.1	3.5	0.10	26	0.84	0.09	12.5	15.1	0.24	168	0.83	0.033	0.45	18.7	511.9	16.86	13.2	0.04	2.08	1.4	0.8	0.5	7.8	<0.05	0.03	10.3	0.021	0.23	1.1	22	0.1	87.5	4.5
28	HOC/028	5	0.1	0.57	8.5	91.2	0.31	0.14	0.15	19.18	4.0	5.0	2.70	7.34	1.31	3.9	2.9	0.03	18	0.82	0.14	8.9	23.1	0.26	230	0.38	0.034	1.94	7.2	505.5	9.26	22.8	0.03	0.76	1.6	0.5	1.0	4.8	<0.05	<0.02	4.3	0.044	0.20	0.6	22	0.1	47.4	1.2
29	HOC/029	5	<0.1	0.37	8.1	41.1	0.91	0.06	0.20	13.60	1.9	2.9	1.25	5.45	0.83	1.9	1.9	0.03	20	0.84	0.08	6.9	18.9	0.12	175	0.49	0.033	0.91	5.2	357.9	8.06	11.6	0.02	0.81	0.9	0.4	0.4	3.0	<0.05	<0.02	3.1	0.021	0.10	0.6	12	0.7	32.9	0.8
30	HOC/030	5	0.1	0.55	10.1	65.9	0.35	0.14	0.32	22.88	3.4	5.0	1.72	7.42	1.14	2.9	2.7	0.05	26	0.82	0.09	10.5	19.4	0.17	276	0.55	0.034	1.10	8.9	771.5	14.72	13.9	0.03	1.17	1.2	0.7	0.6	4.0	<0.05	<0.02	5.4	0.029	0.17	0.7	18	0.3	42.4	1.4
31	E001	<5	0.1	0.51	4.9	26.5	0.61	0.10	0.05	22.29	2.0	3.8	1.22	2.25	0.73	2.8	2.0	0.02	22	0.84	0.05	11.7	12.2	0.19	96	0.13	0.037	1.62	4.2	569.4	5.76	7.7	0.02	0.06	0.8	0.5	0.5	3.0	<0.05	<0.02	4.6	0.028	0.07	0.6	13	0.1	20.7	0.6
32	E002	<5	0.1	0.41	5.0	27.6	0.51	0.11	0.04	18.06	1.8	3.0	1.23	1.77	0.73	2.6	1.8	0.03	16	0.84	0.08	9.4	15.5	0.17	101	0.11	0.037	1.39	3.4	600.6	5.18	11.2	0.02	0.05	0.8	0.4	0.5	3.1	<0.05	<0.02	4.8	0.026	0.08	0.5	13	<0.01	19.3	0.7
33	E003	<5	0.1	0.94	5.4	55.5	0.88	0.06	0.08	19.40	3.2	8.0	2.88	4.72	1.46	6.1	3.1	0.02	27	0.84	0.10	9.9	18.9	0.30	229	0.35	0.036	2.37	5.8	504.9	9.05	17.1	0.04	0.15	1.1	0.4	1.3	5.0	<0.05	<0.02	1.7	0.046	0.18	0.9	28	0.1	38.3	0.5
QC DATA:																																																
Repeat:																																																
1	HOC/001	5	0.1	0.46	10.6	29.7	0.22	0.08	0.03	26.46	3.6	6.3	1.05	5.29	1.15	2.7	4.2	0.02	19	0.84	0.08	13.1	9.5	0.16	130	0.17	0.033	0.84	6.2	510.6	5.19	8.5	0.02	1.52	1.1	0.6	0.5	11.0	<0.05	0.02	5.3	0.021	0.12	0.9	13	0.2	17.9	0.4
10	HOC/010	<5	0.1	0.32	5.5	27.7	0.16	0.10	0.04	25.53	1.9	2.9	0.78	2.02	0.63	2.3	2.3	0.03	15	0.84	0.06	13.3	11.1	0.15	99	0.07	0.036	0.72	3.8	489.2	4.37	7.0	0.02	0.15	0.6	0.5	0.3	3.1	<0.05	<0.02	6.5	0.020	0.07	0.5	10	<0.01	14.2	1.0
19	HOC/019	5	0.1	0.70	5.6	41.2	0.56	0.12	0.05	26.94	2.9	5.2	1.72	3.39	1.06	3.9	2.6	0.02	22	0.83	0.09	13.8	21.7	0.26	136	0.13	0.037	1.88	5.3	523.0	7.09	13.9	0.02	0.24	1.2	0.6	0.8	4.6	<0.05	<0.02	5.6	0.039	0.11	0.8	18	0.1	28.4	0.7
28	HOC/028	5																																															
Standard:																																																
Till-3			1.3	1.01	79.1	39.7	0.28	0.58	0.09	31.10	10.2	65.9	0.48	20.67	1.77	4.2	5.0	0.05	106	0.79	0.06	12.7	16.3	0.57	311	0.56	0.030	0.71	28.5	433.1	26.79	6.0	0.03	0.56	1.8	0.3	1.2	13.0	<0.05	0.02	1.3	0.042	0.04	1.0	37	0.1	37.3	1.5
SE29	600																																															

JJ/bp

Jutta Jealouse

17-Aug-07

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AK 2007- 1080

Tanana Exploration
27 Tutshi Road
Whitehorse, YK
Y1A 4R4

No. of samples received: 54
Sample Type: Soil
Project: Rancheria LENA & BERG
Submitted by: Tanana Exploration Inc.

Values in ppm unless otherwise reported

Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	317	<5	<0.2	0.76	20	30	<5	0.11	<1	4	11	7	1.07	<10	0.15	265	<1	0.01	8	430	58	<5	<20	<1	0.03	<10	17	<10	2	68
2	318	<5	0.2	1.99	25	130	15	0.11	<1	7	24	14	2.29	20	0.38	240	3	0.01	20	700	98	<5	<20	10	0.06	<10	30	<10	4	115
3	319	<5	<0.2	2.87	20	175	15	0.17	1	13	62	26	4.26	30	1.17	186	7	0.04	28	500	70	25	<20	77	0.11	<10	68	<10	3	48
4	320	<5	<0.2	2.31	25	130	5	0.25	2	18	38	26	3.63	30	0.77	623	7	0.02	37	440	86	25	<20	50	0.08	<10	44	<10	13	145
5	321	<5	<0.2	1.08	15	50	<5	0.08	<1	4	10	5	1.10	<10	0.16	170	<1	0.01	6	370	62	<5	<20	4	0.04	<10	13	<10	1	57
6	322	<5	0.2	5.69	50	85	20	1.08	<1	21	72	25	4.42	20	1.34	686	7	0.19	42	720	140	25	<20	398	0.15	<10	73	<10	9	86
7	323	<5	<0.2	5.28	35	75	30	1.18	<1	22	70	19	4.97	20	1.25	595	10	0.18	40	770	132	30	<20	548	0.13	<10	68	<10	4	104
8	324	<5	0.3	2.47	40	100	5	0.19	<1	15	33	18	3.31	20	0.81	624	6	0.02	32	710	102	15	<20	45	0.06	<10	36	<10	5	261
9	325	<5	<0.2	1.54	25	55	10	0.11	<1	8	20	9	2.81	<10	0.37	335	5	0.01	18	990	74	15	<20	11	0.05	<10	32	<10	<1	102
10	326	<5	0.2	1.93	25	75	<5	0.14	<1	13	27	14	2.98	20	0.67	469	5	0.01	29	640	68	15	<20	17	0.04	<10	30	<10	3	120
11	327	<5	<0.2	0.65	15	30	<5	0.06	<1	4	11	6	1.24	<10	0.14	143	4	<0.01	9	330	36	15	<20	11	0.02	<10	19	<10	<1	55
12	328	<5	<0.2	0.73	20	45	<5	0.14	<1	3	10	4	1.13	<10	0.09	275	2	0.01	4	590	54	<5	<20	26	0.02	<10	21	<10	1	52
13	329	<5	<0.2	0.55	15	30	5	0.12	<1	3	7	4	0.96	<10	0.09	260	2	0.01	5	420	46	<5	<20	15	0.02	<10	12	<10	2	54
14	330	95	<0.2	0.94	25	55	15	0.08	<1	5	12	8	1.35	10	0.21	283	3	0.01	10	390	66	5	<20	4	0.03	<10	18	<10	4	74
15	331	<5	0.2	0.76	15	55	<5	0.04	<1	3	8	5	1.17	<10	0.10	126	2	0.01	5	310	54	<5	<20	12	0.03	<10	23	<10	4	40
16	332	5	<0.2	0.94	20	60	15	0.13	<1	7	16	10	1.53	10	0.28	413	3	0.01	15	420	70	5	<20	14	0.04	<10	22	<10	4	78
17	333	<5	0.3	0.76	25	45	10	0.12	<1	5	11	6	1.22	<10	0.19	315	2	0.01	9	430	74	<5	<20	17	0.03	<10	16	<10	3	75
18	334	<5	<0.2	1.06	25	45	15	0.08	<1	5	11	7	1.22	<10	0.15	343	1	<0.01	8	450	92	<5	<20	4	0.03	<10	17	<10	3	96
19	335	<5	<0.2	0.86	15	50	5	0.12	<1	7	14	8	1.41	10	0.26	389	2	0.01	14	380	52	5	<20	9	0.03	<10	18	<10	3	74
20	336	<5	0.2	1.63	30	70	<5	0.14	<1	7	14	5	1.53	10	0.18	255	4	0.02	12	350	88	10	<20	11	0.02	<10	19	<10	3	113
21	337	5	0.2	0.89	30	70	10	0.24	<1	7	14	11	1.50	10	0.27	413	2	0.02	15	380	86	<5	<20	31	0.04	<10	18	<10	5	86
22	338	<5	<0.2	1.77	35	30	10	>10	2	15	32	24	2.85	20	0.81	738	8	0.06	37	620	78	35	<20	1122	0.05	<10	35	<10	12	174
23	339	<5	<0.2	1.09	20	70	<5	0.31	<1	6	18	11	1.67	10	0.31	318	3	0.02	15	380	76	10	<20	38	0.04	<10	23	<10	5	95
24	340	<5	<0.2	1.06	25	60	15	0.53	<1	8	15	13	1.82	20	0.28	464	1	0.02	17	600	66	<5	<20	33	0.04	<10	20	<10	4	84
25	341	<5	<0.2	3.23	35	100	25	0.99	1	26	56	16	4.43	30	1.05	718	7	0.10	48	1140	88	25	<20	144	0.09	<10	54	10	13	213

ECO TECH LABORATORY LTD. ICP CERTIFICATE OF ANALYSIS AK 2007- 1080 Tanana Exploration

Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	342	<5	0.2	1.73	25	65	10	0.10	<1	20	25	24	3.45	20	0.55	618	3	0.01	34	660	64	<5	<20	16	0.06	<10	32	<10	2	128
27	343	<5	0.3	1.53	40	55	10	0.03	4	24	12	29	5.99	20	0.59	447	11	<0.01	70	700	174	25	<20	4	0.03	<10	14	10	9	563
28	344	<5	0.9	2.04	15	65	5	0.61	1	18	28	46	4.46	60	0.65	720	7	0.02	46	1210	78	10	<20	89	0.04	<10	32	<10	39	143
29	345	<5	<0.2	2.39	25	70	15	0.70	2	25	42	28	4.38	20	1.00	587	7	0.06	51	690	84	20	<20	97	0.08	<10	46	<10	6	177
30	346	<5	0.2	1.95	10	65	15	0.29	2	34	30	31	3.89	20	0.68	577	6	0.02	82	710	72	15	<20	39	0.06	<10	38	<10	8	228
31	347	<5	<0.2	3.11	25	55	15	1.45	1	29	38	29	4.64	20	0.69	762	8	0.17	53	1180	92	25	<20	229	0.07	<10	44	<10	5	121
32	348	<5	0.4	2.07	35	65	<5	0.33	1	20	32	31	4.43	50	0.75	718	5	0.03	52	630	94	15	<20	46	0.06	<10	40	<10	24	134
33	349	<5	0.2	2.17	20	95	<5	0.48	3	20	37	34	4.26	20	0.89	391	11	0.05	49	660	66	40	<20	82	0.06	<10	44	<10	6	104
34	350	<5	<0.2	2.25	25	90	10	0.26	<1	16	39	23	4.19	20	0.92	330	6	0.02	38	640	64	20	<20	36	0.08	<10	48	<10	3	88
35	351	<5	0.4	2.87	35	75	15	0.65	1	24	51	24	4.50	20	1.11	869	5	0.07	51	690	122	15	<20	124	0.11	<10	55	<10	5	196
36	352	<5	0.3	1.94	10	70	25	0.11	1	15	28	17	3.51	10	0.57	380	5	0.01	32	730	72	10	<20	9	0.08	<10	45	<10	<1	148
37	353	5	0.4	2.36	40	90	30	0.10	1	37	34	35	4.36	20	0.72	1237	8	0.01	79	610	148	20	<20	22	0.08	<10	43	<10	3	400
38	354	<5	<0.2	2.07	40	85	20	0.18	<1	17	26	16	2.85	20	0.58	361	<1	0.02	27	930	64	<5	<20	14	0.11	<10	36	20	4	109
39	355	<5	0.3	1.83	20	125	10	1.01	1	17	38	20	3.56	20	0.73	4437	4	0.02	40	800	104	10	<20	93	0.14	<10	41	<10	6	180
40	356	<5	<0.2	1.80	20	95	20	0.32	<1	14	38	13	3.27	10	0.70	380	3	0.01	27	400	52	10	<20	30	0.11	<10	54	<10	<1	74
41	357	<5	<0.2	2.08	25	75	15	0.26	<1	13	28	14	2.79	20	0.62	221	4	0.02	26	500	54	10	<20	20	0.08	<10	38	<10	3	56
42	358	<5	<0.2	1.94	20	95	15	0.12	<1	15	37	20	3.32	10	0.72	271	5	0.02	33	520	56	15	<20	12	0.10	<10	44	<10	1	74
43	359	<5	<0.2	1.44	10	70	15	0.07	2	26	29	31	3.55	10	0.52	172	7	0.01	57	400	48	20	<20	19	0.08	<10	44	<10	<1	69
44	360	<5	<0.2	1.57	25	85	20	0.26	<1	17	30	20	3.00	20	0.61	385	4	0.02	30	700	48	15	<20	36	0.07	<10	36	<10	5	71
45	361	<5	<0.2	0.48	15	<5	<5	>10	<1	6	12	6	1.62	10	0.36	498	<1	0.02	10	340	28	<5	<20	652	0.03	<10	13	<10	5	25
46	362	5	<0.2	1.83	20	75	15	0.15	<1	12	26	12	3.27	10	0.55	328	4	0.01	23	410	74	5	<20	16	0.07	<10	42	<10	<1	93
47	363	5	<0.2	1.73	15	60	15	0.17	<1	12	25	16	3.55	10	0.57	304	4	0.01	30	460	74	5	<20	14	0.07	<10	41	<10	<1	133
48	364	5	<0.2	1.69	25	65	20	0.07	1	11	26	13	3.43	10	0.61	280	7	0.01	27	400	64	20	<20	11	0.05	<10	39	<10	<1	95
49	365	<5	<0.2	1.39	15	40	25	0.13	<1	16	22	17	3.20	10	0.53	355	4	0.01	33	680	66	5	<20	12	0.05	<10	23	<10	1	105
50	366	5	<0.2	2.11	30	60	10	0.09	<1	18	31	22	3.80	10	0.72	361	5	0.01	36	580	80	5	<20	10	0.06	<10	33	<10	<1	117
51	367	5	<0.2	1.83	25	85	10	0.10	<1	18	35	23	3.49	10	0.80	341	4	0.01	37	420	54	10	<20	11	0.08	<10	38	<10	1	95
52	368	<5	<0.2	2.08	25	95	10	0.08	<1	19	37	24	3.73	20	0.82	301	4	0.01	39	370	66	15	<20	19	0.08	<10	40	<10	<1	96
53	369	5	<0.2	2.39	15	80	15	0.19	2	18	40	25	4.43	10	0.86	223	8	0.02	45	450	66	25	<20	34	0.07	<10	48	<10	<1	76
54	370	<5	<0.2	2.26	20	65	<5	0.15	2	14	37	20	4.04	10	0.75	217	11	0.01	39	450	64	40	<20	18	0.04	<10	44	<10	<1	77
QC DATA:																														
Repeat:																														
1	317	<5	<0.2	0.74	20	25	<5	0.10	<1	4	11	7	1.02	10	0.14	240	<1	<0.01	6	390	56	<5	<20	<1	0.03	<10	16	<10	2	60
10	326	<5	0.3	1.91	15	75	<5	0.13	1	13	27	14	2.97	20	0.66	482	5	0.01	29	630	70	15	<20	17	0.04	<10	30	<10	3	125
19	335	<5	<0.2	0.80	15	55	5	0.11	<1	7	13	7	1.35	10	0.24	372	1	0.01	12	340	50	<5	<20	8	0.03	<10	17	<10	2	71
28	344	<5	0.8	2.03	20	70	10	0.62	1	19	28	47	4.46	60	0.64	747	6	0.02	48	1210	84	15	<20	101	0.05	<10	31	<10	41	142
36	352	<5	0.3	2.09	10	75	20	0.11	2	17	31	19	3.74	20	0.62	385	5	0.01	31	790	82	10	<20	10	0.08	<10	50	10	<1	163

ECO TECH LABORATORY LTD. ICP CERTIFICATE OF ANALYSIS AK 2007- 1080 Tanana Exploration

Et #.	Tag #	Au ppb	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
Standard:																														
Pb113			1.4	1.08	45	55	5	0.47	2	12	59	20	1.94	10	0.56	290	1	0.03	33	450	38	5	<20	15	0.08	<10	38	<10	8	37
SE29		600																												
SE29		610																												
SE29		590																												

JJ/nl/jl
df/1080S
XLS/07

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

Certificate of Analysis

Work Order: 094934

To: **Tanana Explorations Inc.**
Attn: Wade Carrell
27 Tutshi Rd.
WHITEHORSE
YUKON Y1A 3R4

Date: Oct 05, 2007

P.O. No. :	PROJECT: H O C - Soils
Project No. :	DEFAULT
No. Of Samples	44
Date Submitted	Aug 20, 2007
Report Comprises	Pages 1 to 11 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 44 Soils

Certified By :

Russ Calow, B.Sc., C.Chem.
Vice President Global Geochemistry

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0273	4	201	<10	<0.1	590	2	60	8	107	8
0274	32	246	<10	<0.1	970	2	30	16	339	25
0275	24	220	10	<0.1	1030	3	40	7	388	15
0276	38	208	10	<0.1	1150	34	30	7	667	15
0277	7	157	10	<0.1	680	4	140	25	88	15
0278	7	251	<10	<0.1	970	7	60	9	188	22
0279	7	205	10	<0.1	1190	6	60	10	231	25
0280	7	100	10	<0.1	2580	3	110	5	223	10
0281	5	72	<10	<0.1	900	<1	350	12	49	54
0282	10	69	<10	<0.1	700	<1	300	7	63	18
0283	7	94	30	<0.1	910	3	210	4	153	18
0284	18	120	20	<0.1	830	3	230	6	241	35
0285	5	79	<10	<0.1	900	<1	260	22	36	22
0286	6	103	<10	0.2	1410	2	250	2	70	6
0287	4	108	<10	<0.1	2010	4	200	1	179	13
0288	5	171	10	<0.1	970	3	180	4	359	19
0289	12	267	<10	<0.1	560	2	30	5	82	5
0290	19	271	20	<0.1	610	4	10	7	117	9
0291	7	217	40	<0.1	600	7	10	5	189	9
0292	9	252	100	<0.1	1090	11	20	7	348	63
0293	19	185	<10	<0.1	640	3	20	11	57	8
0294	132	228	10	<0.1	770	2	<10	24	78	8
0295	4	>300	30	<0.1	2440	2	<10	9	137	54
0296	14	257	30	<0.1	1660	2	<10	8	150	47
0297	26	171	20	<0.1	400	2	40	9	22	19
0298	23	179	20	<0.1	570	2	<10	6	112	11
0299	25	93	<10	<0.1	1060	1	10	7	141	29
0300	24	241	100	0.1	3980	4	20	8	415	163
0301	9	37	20	<0.1	3030	2	340	7	26	32
0302	7	56	20	<0.1	3100	3	240	8	51	49
0303	6	52	20	<0.1	3060	1	190	5	54	45
0304	4	48	20	<0.1	3170	2	140	7	252	117
0305	57	256	<10	<0.1	630	3	<10	6	54	<5
0306	4	244	20	<0.1	730	1	<10	2	108	<5
0307	4	247	20	<0.1	790	1	<10	3	169	9
0308	6	119	10	<0.1	540	1	<10	8	426	7
0309	8	130	20	<0.1	740	6	10	3	70	8
0310	9	248	20	<0.1	730	1	<10	3	104	36
0311	17	182	10	<0.1	760	1	<10	4	125	17
0312	79	149	10	<0.1	1150	3	<10	7	159	18
0313	33	212	20	<0.1	770	5	10	49	51	37
0314	95	247	70	<0.1	810	3	<10	18	114	56
0315	64	248	50	<0.1	610	2	<10	26	127	47
0316	36	>300	30	<0.1	980	1	<10	23	163	28
*Dup 0273	4	202	<10	<0.1	680	2	60	7	111	8
*Dup 0285	7	77	<10	<0.1	870	<1	280	22	37	17
*Dup 0297	26	181	10	<0.1	350	2	60	13	18	21
*Dup 0309	9	143	20	<0.1	590	7	20	3	69	9

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
*Std MMISRM14	19	46	10	48.8	90	<1	240	9	15	61
*Std MMISRM14	20	47	20	49.1	90	<1	240	9	16	59
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0273	<100	50	13	6.3	3.0	79	14	44	6	4
0274	<100	50	26	9.7	8.0	67	35	93	7	1
0275	<100	60	20	6.9	6.8	55	27	101	10	1
0276	<100	120	40	15.6	12.0	39	56	207	10	1
0277	<100	50	8	3.6	2.2	105	10	40	9	6
0278	<100	40	11	4.7	3.2	45	14	55	11	2
0279	<100	50	16	6.1	4.6	25	20	72	<5	1
0280	<100	60	15	5.7	5.6	13	22	111	<5	2
0281	<100	20	6	3.0	1.7	27	9	22	<5	12
0282	<100	20	6	2.5	1.9	16	9	27	<5	6
0283	<100	20	13	5.7	3.5	23	16	52	<5	4
0284	<100	20	21	8.9	6.1	27	27	66	<5	4
0285	<100	20	5	2.4	1.3	36	6	17	<5	14
0286	<100	30	7	3.1	2.0	27	9	29	<5	12
0287	<100	20	13	5.2	3.4	33	17	66	<5	6
0288	<100	30	34	14.1	8.9	36	44	149	<5	3
0289	<100	30	11	5.2	2.7	53	12	42	<5	2
0290	<100	20	16	7.8	4.3	45	18	59	<5	<1
0291	<100	30	23	9.4	6.1	48	29	84	<5	<1
0292	<100	50	29	11.3	8.3	61	40	152	9	<1
0293	<100	50	4	2.1	1.5	74	5	24	5	2
0294	<100	70	11	5.1	2.5	147	12	32	6	1
0295	200	80	10	4.0	3.6	167	13	57	12	<1
0296	<100	70	11	4.3	3.5	98	14	56	9	<1
0297	<100	50	7	4.0	1.1	132	5	10	6	2
0298	<100	70	18	6.4	5.0	41	22	45	<5	<1
0299	<100	100	21	7.1	5.2	12	25	55	<5	<1
0300	<100	180	32	11.5	8.2	73	41	165	15	2
0301	<100	220	3	1.7	0.6	91	4	13	8	18
0302	<100	150	7	3.3	1.4	89	8	20	9	15
0303	<100	40	6	2.6	1.4	37	8	17	8	13
0304	<100	280	6	2.9	1.6	42	8	24	5	11
0305	<100	70	5	2.8	1.7	94	5	25	5	1
0306	<100	50	9	3.5	3.1	37	11	39	<5	<1
0307	<100	70	12	4.3	4.4	33	15	53	<5	<1
0308	<100	80	33	12.0	12.0	15	42	104	<5	<1
0309	<100	40	4	1.9	1.4	109	5	34	14	2
0310	<100	80	11	4.0	3.1	55	13	46	<5	<1
0311	<100	90	13	4.4	3.7	38	16	52	<5	<1
0312	<100	120	15	5.1	4.5	26	19	66	<5	<1
0313	<100	110	4	2.4	0.9	211	4	15	13	2
0314	<100	130	9	4.4	2.7	320	11	38	9	1
0315	<100	110	12	5.1	3.3	213	14	41	<5	<1
0316	<100	150	16	5.7	5.0	126	21	69	<5	<1
*Dup 0273	<100	50	13	6.3	3.3	80	14	47	7	4
*Dup 0285	<100	30	4	2.1	1.0	38	6	15	6	16
*Dup 0297	<100	50	6	3.9	0.8	118	4	8	<5	2
*Dup 0309	<100	40	4	2.0	1.6	108	5	33	14	2

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
*Std MMISRM14	<100	840	2	1.1	0.9	2	4	2	<5	30
*Std MMISRM14	<100	840	2	1.0	0.9	2	4	3	<5	30
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0273	7	18.7	54	27	490	<1	14	<1	238	<1
0274	5	7.9	137	26	470	<1	32	<1	204	<1
0275	6	7.0	121	21	560	<1	31	<1	193	<1
0276	<5	6.3	248	23	690	<1	64	<1	210	<1
0277	5	13.1	42	37	340	<1	11	<1	357	<1
0278	6	6.9	57	39	670	<1	15	<1	358	<1
0279	<5	4.3	81	20	660	<1	21	<1	371	<1
0280	<5	2.5	107	11	310	<1	29	<1	287	<1
0281	<5	1.1	30	26	400	<1	7	<1	140	<1
0282	<5	1.1	39	19	230	<1	9	<1	250	<1
0283	<5	2.0	68	19	360	<1	16	<1	262	<1
0284	<5	1.9	102	23	380	<1	24	<1	294	<1
0285	<5	4.6	25	29	130	<1	6	<1	304	<1
0286	<5	3.1	38	19	250	<1	9	<1	372	<1
0287	<5	4.2	71	18	360	<1	18	<1	343	<1
0288	<5	3.1	168	34	510	<1	43	<1	371	<1
0289	5	6.5	45	30	480	<1	12	<1	237	<1
0290	6	4.2	69	23	420	<1	17	<1	260	<1
0291	<5	4.3	105	11	870	<1	26	<1	270	<1
0292	<5	7.8	151	19	960	<1	40	<1	308	1
0293	<5	33.1	25	20	460	<1	7	<1	154	1
0294	5	13.3	37	26	630	<1	9	<1	253	1
0295	10	21.6	57	21	330	<1	15	<1	337	2
0296	9	13.5	56	20	260	<1	15	<1	381	3
0297	5	16.9	13	67	760	<1	3	<1	87	2
0298	15	5.4	69	16	570	<1	16	<1	227	2
0299	16	1.5	76	19	350	<1	18	<1	248	1
0300	9	6.9	141	99	560	<1	36	<1	320	10
0301	7	7.8	15	31	90	<1	4	<1	40	3
0302	7	5.5	25	30	260	<1	6	<1	160	4
0303	<5	2.7	24	31	210	<1	5	<1	141	2
0304	<5	2.9	29	43	240	<1	7	<1	109	4
0305	<5	19.5	24	20	500	<1	6	<1	164	1
0306	8	4.2	40	8	290	<1	11	<1	188	1
0307	6	3.8	57	12	290	<1	15	<1	189	1
0308	<5	2.2	154	12	390	<1	38	<1	199	1
0309	6	33.1	27	19	450	<1	7	<1	133	2
0310	8	6.1	47	9	370	<1	12	<1	181	<1
0311	8	4.0	56	8	450	<1	14	<1	235	<1
0312	7	3.1	67	10	340	<1	17	<1	244	1
0313	8	45.1	17	50	690	<1	5	<1	174	2
0314	13	21.6	40	61	1450	<1	11	<1	209	2
0315	13	14.0	48	38	1730	<1	11	<1	235	3
0316	7	10.0	71	49	1270	<1	18	<1	216	1
*Dup 0273	6	20.4	56	28	510	<1	14	<1	243	<1
*Dup 0285	<5	5.0	22	31	160	<1	5	<1	367	<1
*Dup 0297	<5	13.0	11	81	680	<1	3	<1	55	1
*Dup 0309	6	33.7	28	21	470	<1	8	<1	121	3

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM14	45	<0.5	10	372	140	55	2	<1	303	1
*Std MMISRM14	45	<0.5	11	368	140	56	2	<1	312	1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0273	21	13	3	170	2	2	20	46.5	2290	<0.5
0274	25	33	<1	130	1	5	<10	85.0	899	0.7
0275	23	28	<1	140	1	4	<10	117	814	0.7
0276	28	59	<1	130	1	9	<10	191	722	0.9
0277	14	9	2	290	1	2	<10	71.3	1940	0.5
0278	19	14	<1	120	<1	2	<10	130	853	1.0
0279	17	20	<1	120	<1	3	<10	139	539	1.7
0280	16	23	<1	360	<1	3	<10	109	313	2.2
0281	<5	8	<1	700	<1	1	<10	11.4	108	0.5
0282	<5	9	<1	560	<1	1	<10	19.8	181	0.5
0283	7	15	<1	380	<1	3	<10	60.0	357	0.7
0284	13	26	<1	360	<1	4	<10	81.5	337	0.8
0285	7	6	<1	550	<1	1	<10	20.1	368	<0.5
0286	6	8	<1	540	<1	1	<10	34.4	416	0.6
0287	8	16	<1	420	<1	3	<10	62.5	573	1.1
0288	16	41	<1	250	<1	7	<10	117	352	1.5
0289	17	11	<1	110	<1	2	<10	47.1	1100	0.6
0290	17	17	<1	40	<1	3	<10	56.4	702	0.6
0291	19	26	<1	40	<1	5	<10	85.7	640	0.8
0292	27	37	<1	80	<1	6	<10	162	1120	1.0
0293	18	5	7	70	3	<1	<10	31.6	6050	0.6
0294	16	10	<1	40	1	2	<10	39.4	1720	<0.5
0295	28	13	<1	50	1	2	<10	79.4	1540	0.7
0296	25	14	<1	40	1	2	<10	63.2	1120	0.7
0297	14	4	2	210	1	1	<10	13.7	2370	<0.5
0298	19	19	<1	<10	<1	4	<10	60.4	667	0.6
0299	12	22	<1	<10	<1	4	<10	68.4	194	0.9
0300	40	37	<1	100	<1	7	<10	217	1180	2.1
0301	7	4	<1	420	<1	<1	<10	21.1	759	0.5
0302	6	7	<1	280	<1	1	<10	39.2	694	0.8
0303	<5	6	<1	230	<1	1	<10	41.5	341	0.9
0304	5	7	<1	160	<1	1	<10	47.9	279	0.8
0305	14	5	3	10	2	<1	<10	35.8	3100	0.6
0306	22	11	<1	<10	<1	2	<10	80.1	434	0.5
0307	27	14	<1	<10	<1	2	<10	94.9	406	0.5
0308	26	41	<1	<10	<1	7	<10	118	217	0.9
0309	15	5	6	60	3	<1	<10	39.1	5510	0.6
0310	25	13	<1	10	<1	2	<10	81.5	478	0.7
0311	21	15	<1	<10	<1	3	<10	87.5	276	0.6
0312	19	18	<1	<10	<1	3	<10	92.0	239	0.7
0313	33	4	8	40	4	<1	<10	30.9	7400	0.7
0314	22	10	2	20	2	2	<10	59.3	3440	0.5
0315	21	12	<1	<10	<1	2	<10	63.5	1820	<0.5
0316	18	18	<1	<10	<1	3	<10	58.9	943	0.6
*Dup 0273	21	14	4	130	2	3	<10	51.4	3160	0.7
*Dup 0285	7	5	<1	570	<1	<1	<10	19.9	550	<0.5
*Dup 0297	13	3	1	320	<1	<1	<10	10.8	1860	<0.5
*Dup 0309	17	5	7	90	3	<1	<10	37.2	5800	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM14	7	4	<1	500	<1	<1	<10	21.2	<3	<0.5
*Std MMISRM14	7	4	<1	510	<1	<1	<10	20.6	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0273	19	2	63	4	100	45
0274	63	3	91	7	300	57
0275	71	2	69	5	320	59
0276	118	2	149	11	40	73
0277	23	1	37	3	1000	34
0278	28	2	43	3	350	53
0279	41	1	55	4	50	55
0280	42	<1	55	4	30	40
0281	17	<1	32	2	120	8
0282	15	<1	25	2	90	10
0283	16	<1	48	4	40	21
0284	26	<1	77	7	190	27
0285	21	<1	21	2	390	14
0286	24	<1	29	2	20	15
0287	28	<1	53	4	<20	25
0288	55	<1	147	10	200	40
0289	13	<1	47	4	120	41
0290	18	<1	77	6	190	39
0291	29	1	102	7	70	54
0292	44	4	116	7	210	98
0293	6	5	20	2	270	59
0294	9	5	49	4	170	65
0295	15	4	38	3	260	143
0296	13	4	41	3	250	109
0297	6	2	37	3	220	44
0298	21	2	63	4	200	61
0299	22	4	73	5	220	53
0300	39	9	129	7	340	263
0301	11	2	18	1	130	28
0302	10	2	32	3	140	32
0303	9	<1	27	2	80	31
0304	13	1	28	2	120	42
0305	9	3	22	2	130	81
0306	21	6	32	2	260	116
0307	24	23	38	3	380	127
0308	28	5	104	9	90	142
0309	6	10	19	1	200	65
0310	15	2	37	3	270	70
0311	17	3	44	3	290	71
0312	20	3	51	4	280	67
0313	10	7	21	2	880	104
0314	27	5	38	4	160	120
0315	30	4	43	3	180	107
0316	26	2	56	4	110	88
*Dup 0273	18	<1	61	5	100	53
*Dup 0285	21	<1	19	1	370	18
*Dup 0297	5	2	34	3	300	34
*Dup 0309	6	10	21	2	230	65

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
*Std MMISRM14	47	<1	10	<1	330	16
*Std MMISRM14	47	<1	10	<1	330	16
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

SGS

Certificate of Analysis

Work Order: 094119

To: Tanana Explorations Inc.
Attn: Wade Carrell
27 Tutshi Rd.
WHITEHORSE
YUKON Y1A 3R4

Date: Aug 25, 2007

P.O. No. :	HOC- SOILS
Project No. :	DEFAULT
No. Of Samples	72
Date Submitted	Jul 23, 2007
Report Comprises	Pages 1 to 11 (Inclusive of Cover Sheet)

Distribution of unused material:

STORE: 72 Soils

Certified By : _____
Operations Manager

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample
n.a. = Not applicable -- = No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

SGS

Final : 094119 Order:

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0201	7	>300	10	<0.1	960	4	10	3	375	17
0202	4	118	<10	<0.1	1710	2	<10	1	359	18
0203	5	33	<10	0.8	3100	1	30	1	521	6
0204	4	29	<10	<0.1	3010	<1	30	1	338	<5
0205	4	275	<10	<0.1	480	<1	<10	4	31	6
0206	9	281	<10	<0.1	90	<1	<10	5	35	6
0207	9	>300	<10	<0.1	120	<1	<10	3	99	<5
0208	5	>300	<10	<0.1	540	2	<10	1	189	10
0209	8	228	<10	<0.1	370	3	10	2	283	21
0210	10	177	<10	<0.1	780	2	<10	<1	518	28
0211	7	132	<10	<0.1	1070	1	<10	<1	539	24
0212	5	123	10	0.1	2130	2	<10	<1	484	43
0213	12	233	150	<0.1	2620	14	110	5	622	100
0214	15	92	40	0.2	3150	5	30	3	701	88
0215	19	159	50	0.2	4480	4	40	3	599	36
0216	14	140	60	<0.1	3400	3	60	3	856	28
0217	3	156	<10	<0.1	760	<1	380	19	208	113
0218	9	135	<10	<0.1	930	<1	380	6	138	83
0219	10	256	<10	<0.1	530	1	240	4	218	6
0220	4	238	20	<0.1	1140	3	140	3	213	12
0221	6	>300	<10	<0.1	490	<1	<10	5	208	7
0222	9	>300	20	<0.1	1200	5	<10	3	284	21
0223	12	>300	10	<0.1	900	4	<10	3	487	14
0224	8	>300	20	<0.1	1160	6	<10	3	475	20
0225	14	>300	10	<0.1	760	11	30	27	581	71
0226	14	266	<10	<0.1	760	4	20	10	477	18
0227	26	>300	<10	<0.1	1120	5	40	8	384	21
0228	33	>300	<10	<0.1	1990	7	40	6	342	14
0229	8	>300	<10	<0.1	1890	2	<10	8	294	343
0230	10	>300	<10	<0.1	420	<1	<10	6	101	182
0231	7	>300	10	<0.1	950	1	<10	3	276	86
0232	10	>300	10	<0.1	780	2	<10	3	283	211
0233	5	>300	<10	<0.1	1740	15	20	7	360	15
0234	10	>300	<10	<0.1	700	4	<10	6	392	17
0235	12	>300	<10	<0.1	1940	4	<10	4	427	29
0236	14	>300	<10	<0.1	820	3	<10	2	389	20
0237	9	235	<10	<0.1	650	3	30	5	201	32
0238	8	228	<10	<0.1	990	4	20	5	275	24
0239	9	249	<10	<0.1	1100	4	20	5	289	24
0240	13	>300	10	<0.1	2060	5	10	4	437	30
0241	15	>300	<10	<0.1	590	2	<10	2	590	19
0242	5	193	<10	<0.1	2040	3	<10	<1	443	16
0243	3	165	<10	<0.1	2770	3	<10	1	283	21
0244	9	195	<10	0.1	2550	3	<10	3	323	25
0245	26	252	<10	<0.1	880	3	<10	2	455	16
0246	5	133	<10	0.1	2340	2	<10	2	369	17
0247	12	146	<10	0.3	2070	2	<10	4	460	27
0248	15	130	<10	0.1	2350	2	<10	1	594	19

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Final : 094119 Order:

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0249	14	>300	<10	<0.1	390	2	<10	2	730	8
0250	7	140	<10	<0.1	2270	3	<10	<1	549	19
0251	15	111	<10	0.2	4260	2	<10	1	475	14
0252	8	81	<10	<0.1	3850	1	<10	1	353	7
0253	6	121	<10	<0.1	2940	2	20	2	1180	10
0254	4	81	<10	<0.1	2020	2	10	1	780	6
0255	8	66	<10	<0.1	3180	2	30	1	1240	7
0256	18	75	<10	<0.1	2000	1	30	2	905	6
0257	22	257	<10	<0.1	170	2	<10	2	287	11
0258	15	209	<10	<0.1	250	1	<10	1	446	11
0259	11	124	<10	<0.1	550	2	<10	<1	413	17
0260	12	121	<10	<0.1	700	2	<10	2	446	19
0261	10	210	<10	<0.1	130	1	<10	1	402	10
0262	24	206	<10	0.1	1770	3	<10	<1	621	16
0263	9	144	<10	<0.1	2350	2	<10	<1	737	14
0264	12	118	<10	0.2	3610	2	<10	2	550	7
0265	10	224	<10	<0.1	1450	5	<10	7	313	32
0266	6	238	<10	<0.1	870	2	<10	2	316	8
0267	8	94	140	0.3	1620	1	<10	3	208	7
0268	12	67	230	0.5	1170	2	20	5	205	18
0269	10	210	140	<0.1	2320	4	<10	2	512	25
0270	11	155	120	0.1	2360	3	10	2	368	27
0271	3	28	30	<0.1	2210	<1	30	2	189	<5
0272	14	22	50	<0.1	2920	<1	70	3	315	13
Dup 0201	7	>300	<10	<0.1	1280	3	<10	3	337	18
*Dup 0213	13	249	120	<0.1	2250	12	110	5	608	94
*Dup 0225	15	>300	<10	<0.1	800	10	20	29	552	79
Dup 0237	7	214	<10	<0.1	490	2	20	6	104	29
Dup 0249	9	232	<10	<0.1	300	1	<10	2	514	5
*Dup 0261	11	210	<10	<0.1	100	1	<10	1	410	8
*Std MMISRM14	20	44	30	47.7	100	<1	290	10	41	52
Std MMISRM14	20	44	30	47.2	50	<1	290	10	41	51
Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Final : 094119 Order:

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0201	<100	60	36	14.0	8.6	91	41	176	<5	<1
0202	<100	40	17	6.8	5.4	19	25	140	<5	<1
0203	<100	60	22	9.1	8.2	8	35	323	<5	3
0204	<100	50	20	8.6	7.7	7	31	210	<5	3
0205	<100	20	6	3.0	1.5	53	5	13	<5	<1
0206	<100	20	6	3.3	1.5	32	5	14	<5	<1
0207	<100	30	10	4.3	3.3	30	12	42	<5	<1
0208	<100	40	15	5.2	5.1	32	18	94	<5	<1
0209	<100	60	38	14.1	8.3	14	44	128	<5	<1
0210	<100	50	46	17.5	12.6	15	62	268	<5	<1
0211	<100	50	40	16.5	11.3	12	57	268	<5	<1
0212	<100	60	41	16.3	11.0	15	55	236	<5	<1
0213	<100	130	52	23.0	15.7	235	69	265	<5	10
0214	<100	100	24	9.4	9.1	30	36	341	<5	2
0215	<100	90	31	12.8	11.1	35	44	324	9	2
0216	<100	120	48	19.8	19.2	39	74	431	<5	3
0217	<100	20	16	7.0	5.5	49	23	80	<5	7
0218	<100	180	11	4.8	4.1	87	17	79	<5	8
0219	<100	40	18	6.6	5.8	28	25	126	<5	2
0220	<100	40	20	7.7	6.2	31	26	121	<5	2
0221	<100	40	18	7.5	5.5	167	21	93	<5	<1
0222	<100	80	18	6.8	6.7	143	23	145	6	1
0223	<100	90	23	8.2	9.8	75	33	247	<5	<1
0224	<100	100	24	8.6	9.4	85	33	236	<5	<1
0225	<100	70	38	14.3	9.7	88	45	223	<5	4
0226	<100	20	30	12.0	8.1	56	37	216	<5	2
0227	<100	30	32	13.1	8.1	68	38	165	<5	4
0228	<100	20	28	11.7	7.5	53	34	156	<5	3
0229	100	160	44	18.3	10.4	249	47	120	<5	1
0230	<100	190	31	17.0	5.7	149	26	37	<5	<1
0231	200	200	37	14.2	10.2	94	45	120	<5	<1
0232	200	310	45	18.4	12.0	151	52	116	<5	<1
0233	100	60	30	13.4	8.3	245	37	161	<5	1
0234	100	70	34	14.9	10.0	244	43	190	<5	<1
0235	<100	110	42	17.7	14.6	83	59	218	<5	<1
0236	<100	120	53	24.1	18.3	71	74	182	<5	<1
0237	<100	70	14	6.0	4.0	125	17	95	<5	3
0238	<100	50	18	7.0	5.9	124	24	136	<5	2
0239	<100	50	22	8.7	7.3	107	30	137	<5	2
0240	100	110	44	15.5	13.6	89	56	215	<5	1
0241	<100	40	49	19.2	13.3	30	66	275	<5	<1
0242	<100	30	37	14.6	9.8	19	47	221	<5	<1
0243	<100	40	21	7.8	6.1	19	26	145	<5	<1
0244	<100	50	21	7.9	6.8	22	27	166	<5	<1
0245	<100	40	42	15.2	11.3	17	55	224	<5	<1
0246	<100	50	33	13.2	9.4	12	43	229	<5	<1
0247	<100	40	40	15.8	10.9	14	55	291	<5	1
0248	<100	30	56	22.0	14.6	11	76	381	<5	<1

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Final : 094119 Order:

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0249	<100	40	44	15.8	12.1	47	63	397	<5	<1
0250	<100	30	36	14.4	10.1	15	51	286	<5	<1
0251	<100	40	27	11.4	8.2	14	38	258	<5	<1
0252	<100	50	19	7.8	6.5	9	28	187	<5	<1
0253	<100	100	89	35.6	28.6	11	126	700	<5	2
0254	<100	60	58	23.3	17.1	10	78	377	<5	2
0255	<100	80	101	41.7	32.4	7	143	638	<5	4
0256	<100	70	73	30.1	25.6	9	106	519	<5	4
0257	<100	20	33	13.6	7.5	14	40	118	<5	<1
0258	<100	20	33	12.9	8.9	13	46	216	<5	<1
0259	<100	30	33	12.7	8.7	14	44	201	<5	<1
0260	<100	50	34	13.4	9.4	15	46	212	<5	<1
0261	<100	30	40	15.4	8.6	12	47	177	<5	<1
0262	<100	20	68	26.1	14.6	17	81	287	<5	<1
0263	<100	40	73	29.9	17.7	16	96	352	<5	<1
0264	<100	60	45	19.5	12.0	15	60	254	<5	<1
0265	<100	50	25	10.7	6.2	137	31	133	<5	1
0266	<100	40	23	9.5	6.5	29	28	138	<5	<1
0267	<100	90	17	7.2	5.0	12	20	93	<5	<1
0268	<100	100	24	11.3	6.6	11	29	85	<5	2
0269	<100	70	38	14.5	10.0	29	48	245	<5	2
0270	<100	70	26	9.5	6.7	24	31	174	<5	2
0271	<100	30	7	2.9	2.2	7	10	115	<5	5
0272	<100	60	20	8.5	8.0	9	31	214	<5	9
*Dup 0201	<100	60	33	12.6	7.5	83	37	157	<5	<1
*Dup 0213	<100	120	52	23.4	15.4	220	67	249	<5	9
*Dup 0225	<100	60	38	14.8	9.6	84	47	212	<5	4
*Dup 0237	<100	40	13	5.6	3.0	103	13	39	<5	2
*Dup 0249	<100	30	33	12.7	9.1	38	46	264	<5	<1
*Dup 0261	<100	30	40	15.5	9.2	9	48	178	<5	<1
*Std MMISRM14	<100	840	5	2.1	2.5	3	10	7	<5	41
*Std MMISRM14	<100	840	6	1.9	2.6	3	10	7	<5	41
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Final : 094119 Order:

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	Sb	Sc
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	5	1	5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0201	6	13.4	161	54	570	<1	45	124	<1	29
0202	<5	4.2	123	19	210	<1	34	106	<1	9
0203	<5	2.1	202	12	140	<1	60	87	<1	7
0204	<5	1.6	173	10	110	<1	48	73	<1	7
0205	<5	9.4	13	20	260	<1	4	90	<1	7
0206	<5	3.5	15	21	240	<1	4	82	<1	7
0207	<5	3.6	44	16	190	<1	12	126	<1	9
0208	<5	7.0	77	14	230	<1	22	87	<1	16
0209	<5	2.7	137	62	300	<1	35	83	<1	15
0210	<5	2.7	237	18	270	<1	64	89	<1	16
0211	<5	2.2	248	19	190	<1	68	108	<1	11
0212	<5	2.4	229	25	160	<1	62	85	<1	17
0213	<5	20.6	292	112	690	<1	74	142	2	44
0214	<5	4.5	206	57	390	<1	60	182	<1	11
0215	<5	5.9	224	40	380	<1	63	220	<1	20
0216	<5	7.3	388	45	290	<1	106	165	1	27
0217	<5	3.1	99	49	280	<1	26	105	<1	<5
0218	<5	5.1	78	90	180	<1	21	201	<1	<5
0219	<5	3.6	117	27	490	<1	31	218	<1	<5
0220	<5	5.4	112	20	280	<1	31	144	<1	10
0221	<5	22.5	89	27	290	<1	25	57	<1	30
0222	5	24.3	107	17	370	<1	31	164	1	31
0223	<5	12.9	180	14	470	<1	53	178	<1	26
0224	<5	16.9	167	15	410	<1	49	163	<1	31
0225	<5	11.3	201	69	960	<1	55	280	<1	16
0226	6	11.4	173	53	380	<1	50	271	<1	17
0227	5	10.8	161	66	390	<1	44	266	<1	21
0228	<5	7.9	150	55	430	<1	41	241	<1	20
0229	<5	35.6	145	217	300	<1	37	114	<1	46
0230	<5	8.6	60	168	180	<1	14	153	<1	34
0231	<5	10.7	145	135	170	<1	36	143	<1	33
0232	<5	11.5	157	219	190	<1	39	169	<1	41
0233	<5	29.3	166	65	510	<1	45	115	<1	31
0234	5	24.3	193	57	720	<1	52	160	<1	31
0235	<5	11.4	237	39	450	<1	61	237	<1	28
0236	<5	8.6	273	40	550	<1	65	173	<1	35
0237	<5	16.1	78	42	510	<1	23	188	<1	18
0238	<5	15.1	117	33	480	<1	33	263	<1	10
0239	<5	13.3	130	37	390	<1	36	232	<1	16
0240	5	11.4	216	36	380	<1	58	227	1	29
0241	<5	5.1	267	30	470	<1	72	115	<1	26
0242	<5	4.3	194	17	390	<1	52	132	<1	20
0243	<5	3.6	113	18	330	<1	32	150	<1	14
0244	<5	4.0	130	18	320	<1	37	196	<1	15
0245	<5	3.4	224	22	330	<1	59	129	<1	23
0246	<5	2.7	184	14	220	<1	52	144	<1	16
0247	<5	3.5	236	17	280	<1	65	159	<1	19
0248	<5	2.5	317	17	300	<1	86	133	<1	23

SGS

Final : 094119 Order:

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	Sb	Sc
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	5	1	5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0249	<5	9.8	287	21	390	<1	82	102	<1	19
0250	<5	2.7	235	18	410	<1	66	114	<1	15
0251	<5	2.0	207	13	320	<1	59	193	<1	11
0252	<5	1.4	156	10	170	<1	44	156	<1	6
0253	<5	2.1	629	13	310	<1	174	114	<1	34
0254	<5	1.8	370	15	240	<1	100	78	<1	18
0255	<5	1.5	659	6	360	<1	178	112	<1	28
0256	<5	2.2	517	15	220	<1	139	77	<1	24
0257	<5	2.2	144	29	480	<1	36	75	<1	9
0258	<5	2.8	199	19	320	<1	53	94	<1	10
0259	<5	2.6	180	15	200	<1	48	108	<1	9
0260	<5	2.8	186	19	220	<1	50	111	<1	9
0261	<5	2.2	174	22	440	<1	48	85	<1	11
0262	<5	3.7	291	16	560	<1	78	95	<1	25
0263	<5	2.7	364	15	410	<1	96	141	<1	21
0264	<5	1.9	262	19	230	<1	68	161	<1	10
0265	<5	11.0	126	50	450	<1	35	121	<1	10
0266	<5	4.8	122	23	260	<1	34	106	<1	12
0267	<5	2.3	78	17	150	<1	22	81	<1	7
0268	<5	1.6	94	24	140	<1	24	91	2	7
0269	<5	4.5	197	30	330	<1	55	134	1	17
0270	<5	3.6	130	27	250	<1	37	100	1	13
0271	<5	1.1	53	10	100	<1	16	55	<1	<5
0272	<5	1.3	169	19	120	<1	46	54	<1	<5
*Dup 0201	<5	11.4	144	52	540	<1	39	132	<1	25
*Dup 0213	<5	19.2	279	113	680	<1	72	125	2	44
*Dup 0225	<5	9.8	196	70	960	<1	55	257	<1	16
*Dup 0237	<5	12.9	51	36	480	<1	13	127	<1	13
*Dup 0249	<5	7.8	211	17	380	<1	58	87	<1	9
*Dup 0261	<5	1.5	179	18	440	<1	49	83	<1	11
*Std MMISRM14	40	<0.5	33	352	240	61	7	314	1	8
*Std MMISRM14	42	<0.5	33	356	250	61	6	311	1	8
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<5	<1	<5
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<5	<1	<5

SGS

Final : 094119 Order:

Element	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	1	1	10	0.5	3	0.5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0201	41	<1	40	1	6	<10	277	1050	1.0	47
0202	25	<1	40	<1	3	<10	89.8	411	0.5	22
0203	35	<1	330	<1	4	<10	63.1	260	<0.5	30
0204	33	<1	400	<1	4	<10	53.6	206	<0.5	36
0205	4	<1	10	<1	<1	<10	39.5	899	0.7	16
0206	5	<1	<10	<1	<1	<10	20.9	314	<0.5	12
0207	12	<1	<10	<1	2	<10	37.0	475	0.6	21
0208	19	<1	<10	<1	3	<10	95.7	683	0.7	46
0209	38	<1	40	<1	7	<10	113	258	0.6	37
0210	59	<1	20	<1	8	<10	131	236	0.9	44
0211	53	<1	30	<1	7	<10	116	192	1.0	40
0212	53	<1	80	<1	7	<10	156	171	0.9	49
0213	64	2	360	<1	9	<10	188	1910	0.7	69
0214	37	<1	240	<1	5	<10	136	477	0.8	37
0215	45	<1	270	<1	6	<10	186	556	1.3	48
0216	74	<1	480	<1	9	<10	155	587	0.7	83
0217	22	<1	370	<1	3	<10	16.8	310	<0.5	49
0218	17	<1	360	<1	2	<10	27.8	512	<0.5	38
0219	25	<1	140	<1	3	<10	65.2	494	<0.5	37
0220	25	<1	140	<1	3	<10	132	689	<0.5	41
0221	21	1	10	1	3	<10	97.5	2140	0.5	98
0222	23	2	20	1	3	<10	132	2680	1.2	103
0223	36	<1	<10	<1	4	<10	133	1300	1.1	101
0224	35	1	10	<1	4	<10	180	1770	1.0	102
0225	46	<1	70	<1	7	<10	257	1430	<0.5	62
0226	38	1	50	<1	5	<10	171	2010	<0.5	63
0227	39	1	120	<1	5	<10	198	1720	<0.5	78
0228	34	<1	150	<1	5	<10	179	1100	<0.5	71
0229	37	1	50	1	7	<10	107	2650	0.9	78
0230	19	<1	<10	<1	4	<10	84.2	940	1.7	50
0231	38	<1	20	<1	6	<10	97.3	1500	1.9	47
0232	43	<1	20	<1	7	<10	113	1540	2.3	60
0233	37	2	110	<1	5	<10	276	3430	1.9	42
0234	44	3	60	1	6	<10	232	3530	1.7	49
0235	60	<1	90	<1	8	<10	159	1590	1.9	49
0236	73	<1	60	<1	9	<10	159	847	1.9	69
0237	16	2	110	<1	2	<10	55.2	2390	<0.5	32
0238	25	2	110	<1	3	<10	91.6	2930	0.9	37
0239	29	1	100	<1	4	<10	130	2150	1.0	51
0240	52	<1	120	<1	8	<10	173	1600	1.3	87
0241	64	<1	<10	<1	9	<10	154	438	1.2	35
0242	46	<1	<10	<1	6	<10	140	368	1.0	31
0243	26	<1	20	<1	4	<10	127	295	0.6	31
0244	29	<1	50	<1	4	<10	137	302	0.6	42
0245	54	<1	30	<1	8	<10	113	368	1.1	49
0246	42	<1	120	<1	6	<10	145	284	0.7	47
0247	52	<1	60	<1	7	<10	115	294	0.8	46
0248	71	<1	40	<1	10	<10	90.9	219	1.1	31

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Final : 094119 Order:

Element	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	U
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	1	1	10	0.5	3	0.5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0249	60	2	30	<1	8	<10	141	1760	0.9	28
)250	51	<1	40	<1	6	<10	126	236	1.2	33
)251	41	<1	80	<1	5	<10	123	198	2.3	39
0252	30	<1	90	<1	3	<10	117	76	1.5	30
0253	128	<1	150	<1	16	<10	184	249	<0.5	91
)254	78	<1	130	<1	10	<10	127	232	<0.5	57
)255	142	<1	330	<1	18	<10	143	207	<0.5	98
0256	110	<1	280	<1	13	<10	126	293	<0.5	88
0257	36	<1	10	<1	6	<10	67.2	297	<0.5	27
)258	45	<1	10	<1	6	<10	100	360	<0.5	37
)259	42	<1	20	<1	6	<10	116	286	0.8	36
0260	44	<1	20	<1	6	<10	122	327	0.9	38
)261	44	<1	<10	<1	7	<10	84.9	292	<0.5	31
)262	75	<1	70	<1	12	<10	157	451	1.5	66
0263	92	<1	90	<1	13	<10	208	181	1.4	133
0264	60	<1	80	<1	8	<10	145	138	0.9	61
)265	30	<1	60	<1	4	<10	129	1390	0.9	29
)266	28	<1	30	<1	4	<10	109	421	0.8	40
0267	19	<1	70	<1	3	<10	52.0	247	0.7	31
0268	23	<1	150	<1	4	<10	44.6	190	1.1	34
)269	46	<1	60	<1	6	<10	165	546	1.3	56
)270	30	<1	90	<1	4	<10	112	473	1.0	41
0271	10	<1	240	<1	1	<10	28.3	137	<0.5	13
)272	32	<1	570	<1	4	<10	45.3	176	<0.5	44
Dup 0201	36	<1	60	<1	6	<10	259	940	1.0	45
*Dup 0213	64	1	320	<1	9	<10	182	1750	0.6	71
*Dup 0225	46	<1	70	<1	7	<10	251	1280	<0.5	64
Dup 0237	12	<1	80	<1	2	<10	34.1	1240	<0.5	21
Dup 0249	45	<1	<10	<1	6	<10	80.6	1020	<0.5	17
*Dup 0261	45	<1	<10	<1	7	<10	83.4	187	<0.5	32
*Std MMISRM14	11	<1	540	<1	1	<10	28.8	<3	<0.5	55
Std MMISRM14	10	<1	530	<1	1	<10	29.9	<3	<0.5	56
Blk BLANK	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5	<1
*Blk BLANK	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5	<1

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Final : 094119 Order:

Element	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB
0201	2	130	10	<20	121
0202	1	74	5	40	42
0203	1	122	6	70	27
0204	1	101	6	80	22
0205	<1	22	2	70	44
0206	<1	24	2	<20	26
0207	<1	37	3	<20	34
0208	2	45	3	50	86
0209	2	140	9	40	62
0210	1	190	12	<20	69
0211	1	181	11	<20	57
0212	2	180	11	60	81
0213	2	252	16	440	80
0214	1	117	6	200	59
0215	<1	137	9	160	80
0216	1	237	13	160	69
0217	<1	74	4	380	14
0218	<1	55	3	210	30
0219	<1	77	4	50	43
0220	1	84	5	40	71
0221	<1	67	5	30	117
0222	4	64	5	110	120
0223	3	86	6	150	89
0224	4	82	5	180	117
0225	2	138	10	180	74
0226	1	122	8	40	71
0227	2	130	10	120	88
0228	2	116	8	50	83
0229	<1	171	11	130	121
0230	<1	133	12	60	150
0231	<1	142	9	40	178
0232	<1	172	11	60	189
0233	2	124	9	<20	116
0234	2	136	11	<20	161
0235	2	168	13	30	124
0236	2	217	18	30	139
0237	<1	64	4	210	65
0238	1	73	4	50	73
0239	1	87	6	60	99
0240	2	146	10	40	133
0241	2	208	13	30	106
0242	3	159	10	80	89
0243	3	83	6	120	83
0244	3	83	6	120	82
0245	2	160	10	<20	73
0246	2	152	9	30	57
0247	2	189	10	50	64
0248	2	259	14	<20	55

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Final : 094119 Order:

Element	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB
0249	1	197	9	<20	88
0250	2	159	10	<20	72
0251	2	129	8	<20	63
0252	2	85	6	<20	49
0253	2	403	24	50	75
0254	2	260	16	<20	48
0255	1	479	28	60	52
0256	1	342	20	80	52
0257	<1	149	8	20	35
0258	<1	143	8	<20	49
0259	2	138	8	<20	60
0260	2	146	9	40	57
0261	3	159	10	30	44
0262	2	271	18	20	95
0263	2	329	20	<20	99
0264	2	226	13	50	72
0265	2	107	7	80	47
0266	2	96	7	<20	61
0267	1	75	5	30	30
0268	<1	131	8	130	29
0269	2	143	9	30	73
0270	1	98	7	30	54
0271	<1	38	2	80	13
0272	<1	112	5	110	17
Dup 0201	2	115	9	30	108
*Dup 0213	2	255	17	440	77
*Dup 0225	2	142	10	190	73
Dup 0237	<1	56	4	270	65
Dup 0249	<1	157	8	<20	69
*Dup 0261	2	162	10	20	43
*Std MMISRM14	<1	23	1	370	13
Std MMISRM14	<1	23	1	360	13
Blk BLANK	<1	<5	<1	<20	<5
*Blk BLANK	<1	<5	<1	<20	<5

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Certificate of Analysis

Work Order: 094428

To: Tanana Explorations Inc.
Attn: Wade Carrell
27 Tutshi Rd.
WHITEHORSE
YUKON Y1A 3R4

Date: Aug 14, 2007

P.O. No. :	PROJECT: RANCHERIA REGION
Project No. :	DEFAULT
No. Of Samples	104
Date Submitted	Jul 31, 2007
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 104 Soils

Certified By : [signature]

Operations Manager

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer: L.N.R. = Listed not received | I.S. = Insufficient Sample
n.a. = Not applicable | -- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

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Final : 094428 Order: PROJECT: RANCHERIA REGION

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0317-1	9	176	<10	<0.1	540	2	200	7	41	6
0317-2	7	135	10	0.1	730	4	190	5	53	<5
0317-3	33	>300	<10	<0.1	400	3	30	6	75	<5
0317-4	18	297	40	<0.1	1030	4	70	3	156	12
0318-1	15	297	<10	<0.1	350	1	<10	3	62	5
0318-2	24	>300	20	<0.1	1440	4	<10	5	308	9
0318-3	23	>300	20	<0.1	1320	4	<10	6	312	9
0318-4	21	>300	50	<0.1	2410	5	10	5	428	18
0319-1	23	250	<10	<0.1	560	2	90	5	186	5
0319-2	31	182	<10	<0.1	1190	<1	150	5	215	10
0319-3	40	140	<10	<0.1	1370	<1	170	5	318	11
0319-4	29	160	<10	<0.1	2080	1	150	6	336	12
0320-1	22	257	<10	<0.1	740	3	60	12	120	8
0320-2	27	284	<10	<0.1	980	1	30	6	233	8
0320-3	4	138	20	0.1	4750	2	60	6	983	22
0320-4	21	63	10	0.3	2770	<1	530	10	2390	9
0321-1	3	220	<10	<0.1	650	9	30	11	153	19
0321-2	33	288	<10	0.1	530	5	<10	8	126	22
0321-3	12	148	30	<0.1	1770	4	20	3	431	28
0321-4	14	201	30	<0.1	1970	5	30	3	845	34
0322-1	4	198	<10	<0.1	1120	1	120	55	131	12
0322-2	8	278	<10	<0.1	950	1	50	15	171	7
0322-3	22	222	<10	<0.1	560	<1	70	20	217	7
0322-4	33	157	<10	<0.1	860	<1	120	27	253	9
0323-1	1	230	<10	<0.1	820	<1	170	31	72	74
0323-2	5	228	<10	<0.1	510	<1	100	6	129	9
0323-3	17	164	<10	<0.1	650	<1	130	8	81	7
0323-4	10	159	<10	<0.1	810	<1	140	10	85	8
0324-1	9	>300	<10	<0.1	330	3	<10	15	67	26
0324-2	35	276	30	<0.1	840	5	<10	9	179	14
0324-3	37	168	40	<0.1	1000	7	<10	8	253	37
0324-4	38	141	<10	3.4	1710	2	20	11	326	40
0325-1	3	245	<10	<0.1	510	2	<10	12	13	8
0325-2	10	281	40	<0.1	930	6	<10	3	94	16
0325-3	9	269	30	<0.1	730	7	<10	4	112	25
0325-4	19	298	20	<0.1	780	4	<10	7	118	29
0326-1	20	232	<10	<0.1	360	1	<10	3	63	38
0326-2	35	243	<10	<0.1	210	<1	<10	3	25	24
0326-3	65	226	<10	<0.1	640	2	<10	9	283	18
0326-4	49	190	<10	<0.1	860	2	30	10	351	28
0327-1	3	191	<10	<0.1	560	14	70	106	88	13
0327-2	8	240	<10	<0.1	620	7	50	47	124	16
0327-3	19	285	<10	<0.1	390	4	20	21	211	20
0327-4	8	229	10	<0.1	690	6	70	32	183	23
0328-1	5	221	<10	<0.1	480	2	60	11	77	22
0328-2	9	194	<10	<0.1	390	1	90	14	87	14
0328-3	9	232	<10	<0.1	390	1	40	12	123	20
0328-4	20	198	<10	<0.1	210	1	90	16	81	15

SGS

Final : 094428 Order: PROJECT: RANCHERIA REGION

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0329-1	7	110	<10	<0.1	350	2	270	14	43	8
0329-2	6	94	<10	<0.1	470	1	240	7	35	10
0329-3	5	94	10	<0.1	530	3	180	5	54	38
0329-4	6	136	20	<0.1	570	4	170	6	109	48
0330-1	13	160	<10	<0.1	860	4	100	14	248	48
0330-2	12	163	40	0.1	3150	3	50	6	425	48
0330-3	38	>300	30	0.2	1650	4	20	12	1530	19
0330-4	28	>300	70	0.1	2190	8	40	9	1500	15
0331-1	13	277	<10	<0.1	760	1	<10	10	79	22
0331-2	21	>300	<10	<0.1	1290	5	<10	8	246	24
0331-3	14	>300	10	<0.1	740	5	20	7	106	21
0331-4	20	278	20	<0.1	820	6	20	7	168	15
0332-1	21	88	10	0.2	1740	2	100	5	762	29
0332-2	34	138	10	0.2	1980	2	150	6	1540	18
0332-3	46	204	20	0.1	1760	3	90	10	2220	9
0332-4	38	210	20	0.1	1620	3	90	8	1400	10
0333-1	17	135	20	<0.1	860	5	190	7	118	30
0333-2	23	210	20	<0.1	790	8	140	7	128	22
0333-3	34	208	20	<0.1	870	8	130	8	154	16
0333-4	32	219	10	<0.1	650	5	90	9	172	9
0334-1	3	225	<10	<0.1	540	2	20	14	9	31
0334-2	34	299	<10	<0.1	380	7	<10	13	70	17
0334-3	21	>300	30	<0.1	680	17	10	6	146	15
0334-4	20	296	50	<0.1	990	11	20	6	186	24
0335-1	11	76	<10	<0.1	890	1	300	53	33	44
0335-2	13	126	<10	0.1	1150	1	180	10	146	68
0335-3	17	197	20	<0.1	2050	4	120	12	466	97
0335-4	13	91	20	<0.1	2510	2	150	12	1480	29
0336-1	8	214	40	<0.1	1090	11	120	61	114	53
0336-2	12	159	20	<0.1	520	6	100	11	141	14
0336-3	20	232	<10	<0.1	640	5	100	6	100	8
0336-4	60	217	<10	<0.1	600	1	80	8	274	27
0337-1	31	36	<10	<0.1	1070	<1	350	10	27	15
0337-2	95	45	<10	0.2	1750	<1	450	10	121	23
0337-3	71	47	<10	0.1	1590	<1	330	7	38	<5
0337-4	53	52	<10	<0.1	1260	<1	340	7	21	<5
0338-1	74	12	<10	0.3	820	<1	590	22	9	33
0338-2	82	18	<10	0.3	750	<1	570	11	5	6
0338-3	107	13	<10	0.4	580	<1	650	12	5	6
0338-4	58	7	<10	0.3	550	<1	470	21	7	7
0339-1	41	83	<10	0.1	1250	1	360	20	229	11
0339-2	95	37	<10	0.4	1670	<1	490	19	128	5
0339-3	72	30	<10	0.3	1710	<1	420	21	319	15
0339-4	104	35	<10	0.4	2370	<1	480	21	748	14
0340-1	14	118	<10	<0.1	470	1	270	23	126	22
0340-2	18	64	20	0.1	590	1	290	11	321	74
0340-3	23	79	20	<0.1	540	2	260	8	286	43
0340-4	15	105	<10	<0.1	620	1	290	9	284	51

SGS

Final : 094428 Order: PROJECT: RANCHERIA REGION

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0341-1	4	220	<10	<0.1	700	<1	80	6	201	196
0341-2	14	203	<10	<0.1	490	<1	110	14	381	37
0341-3	20	155	<10	0.2	570	<1	130	19	363	38
0341-4	27	97	<10	0.2	470	<1	250	16	179	36
0342-1	4	209	10	<0.1	390	3	20	14	83	36
0342-2	36	238	<10	<0.1	270	<1	<10	12	136	42
0342-3	42	248	10	<0.1	400	1	<10	15	205	65
0342-4	19	>300	40	<0.1	1230	2	30	9	523	198
*Dup 0317-1	8	186	<10	<0.1	360	2	190	7	31	7
*Dup 0320-1	20	251	<10	<0.1	480	3	50	12	114	9
*Dup 0323-1	1	219	<10	<0.1	560	<1	160	33	62	78
*Dup 0326-1	17	235	<10	<0.1	320	1	<10	2	67	32
*Dup 0329-1	7	113	<10	<0.1	310	3	270	16	47	9
*Dup 0332-1	23	94	10	0.1	1700	2	100	4	859	20
*Dup 0335-1	14	95	<10	<0.1	670	1	280	38	30	36
*Dup 0338-1	78	13	<10	0.3	740	<1	590	26	16	48
*Dup 0341-1	4	214	<10	<0.1	620	<1	90	6	188	168
*Std MMISRM14	19	39	10	45.8	110	<1	240	9	17	55
*Std MMISRM14	20	39	20	46.1	80	<1	250	10	13	55
*Std MMISRM14	20	42	10	46.6	100	<1	250	9	17	58
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

SGS

Final : 094428 Order: PROJECT: RANCHERIA REGION

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0317-1	<100	20	9	4.0	2.0	29	10	22	7	5
0317-2	<100	30	7	3.0	1.7	34	8	28	10	5
0317-3	<100	30	16	5.4	3.1	34	15	34	<5	<1
0317-4	<100	40	14	4.7	3.9	42	17	76	12	1
0318-1	<100	40	23	9.7	3.1	31	16	27	6	<1
0318-2	<100	100	47	17.6	11.8	50	52	147	14	<1
0318-3	<100	110	48	17.9	11.9	45	54	150	12	<1
0318-4	<100	150	51	18.9	13.2	66	59	223	20	1
0319-1	<100	70	79	33.9	16.7	46	84	121	8	1
0319-2	<100	70	69	29.0	18.3	23	91	180	<5	<1
0319-3	<100	110	114	46.3	33.4	25	161	348	<5	2
0319-4	<100	190	89	36.2	24.7	32	125	287	5	2
0320-1	<100	40	23	8.6	4.5	37	23	66	<5	<1
0320-2	<100	60	25	8.8	6.7	18	31	122	<5	<1
0320-3	<100	130	40	13.0	12.2	33	58	680	17	2
0320-4	<100	390	472	247	117	7	617	985	8	16
0321-1	<100	30	10	3.9	2.2	71	12	76	9	3
0321-2	<100	30	14	5.4	3.0	47	15	56	<5	<1
0321-3	<100	40	18	5.5	4.7	24	24	193	<5	2
0321-4	<100	50	54	18.2	14.3	27	73	365	5	2
0322-1	<100	50	23	11.3	5.0	53	25	55	<5	6
0322-2	<100	60	27	16.4	5.6	39	27	78	<5	2
0322-3	<100	90	51	43.1	9.5	20	46	112	<5	<1
0322-4	<100	140	65	58.1	14.1	11	64	194	<5	<1
0323-1	<100	30	24	15.5	3.0	56	17	26	<5	2
0323-2	<100	50	19	10.1	4.0	45	19	57	<5	<1
0323-3	<100	50	27	19.7	3.7	14	20	47	<5	<1
0323-4	<100	50	28	20.1	4.0	21	20	45	<5	<1
0324-1	<100	40	10	4.4	1.7	60	8	31	<5	1
0324-2	<100	100	16	6.2	4.1	72	18	77	<5	<1
0324-3	<100	110	28	9.9	8.9	35	40	193	<5	<1
0324-4	<100	120	38	14.2	10.9	23	51	205	<5	<1
0325-1	<100	30	6	4.5	0.5	63	3	7	<5	<1
0325-2	<100	40	7	3.2	1.8	147	8	39	<5	1
0325-3	<100	50	8	3.7	2.2	147	9	46	<5	1
0325-4	<100	70	10	5.0	2.5	109	11	47	<5	<1
0326-1	<100	80	6	5.5	0.9	109	5	27	<5	<1
0326-2	<100	70	3	2.7	<0.5	91	2	11	<5	<1
0326-3	<100	150	32	12.7	8.8	56	41	127	<5	<1
0326-4	<100	160	36	14.5	10.4	50	49	169	<5	<1
0327-1	<100	30	8	4.3	2.2	37	10	41	<5	6
0327-2	<100	30	12	4.4	3.1	62	14	57	<5	3
0327-3	<100	40	19	7.3	5.1	55	23	97	<5	<1
0327-4	<100	30	14	5.3	4.1	65	18	85	<5	3
0328-1	<100	40	21	10.1	3.6	60	18	28	<5	<1
0328-2	<100	40	21	9.5	4.1	67	20	35	<5	<1
0328-3	<100	50	27	11.5	5.6	42	27	46	6	<1
0328-4	<100	80	19	9.0	4.2	35	19	40	9	2

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0329-1	<100	30	6	2.1	1.4	28	7	20	7	4
0329-2	<100	20	4	1.4	1.0	24	4	18	11	4
0329-3	<100	30	5	2.0	1.4	37	7	26	14	3
0329-4	<100	30	9	3.7	2.7	54	13	51	18	2
0330-1	<100	40	17	5.9	4.6	37	22	102	7	4
0330-2	<100	70	17	5.8	4.7	38	22	159	31	3
0330-3	<100	170	155	58.1	41.3	30	203	730	12	<1
0330-4	<100	150	121	49.6	36.4	72	172	723	24	1
0331-1	<100	30	12	6.8	1.9	74	10	36	<5	<1
0331-2	<100	50	27	16.3	4.7	244	23	108	16	2
0331-3	<100	30	21	11.0	3.2	67	17	42	42	4
0331-4	<100	40	26	12.3	4.7	89	24	73	14	3
0332-1	<100	150	68	28.7	19.8	17	97	382	7	3
0332-2	<100	130	138	57.3	38.8	15	185	751	<5	3
0332-3	<100	130	153	58.8	48.9	18	228	933	8	2
0332-4	<100	140	105	39.8	32.0	21	144	647	10	2
0333-1	<100	40	12	5.4	2.4	38	15	58	8	7
0333-2	<100	30	13	5.4	3.0	35	15	52	5	3
0333-3	<100	30	14	5.5	3.4	30	17	61	5	4
0333-4	<100	30	20	7.9	4.5	25	24	62	<5	2
0334-1	<100	<10	4	4.0	<0.5	96	1	4	<5	<1
0334-2	<100	30	11	4.3	2.2	37	10	30	<5	<1
0334-3	<100	50	14	4.6	3.8	25	16	69	7	<1
0334-4	<100	50	13	4.3	4.0	29	17	89	24	<1
0335-1	<100	30	5	2.3	0.8	28	5	14	6	10
0335-2	<100	30	11	4.3	2.7	23	13	45	<5	4
0335-3	<100	70	25	9.1	6.5	36	31	144	11	4
0335-4	<100	150	117	51.5	34.6	24	163	669	6	5
0336-1	<100	30	16	7.5	2.8	114	17	51	28	10
0336-2	<100	30	12	4.7	2.5	51	14	73	11	6
0336-3	<100	20	14	5.4	2.6	46	15	49	<5	4
0336-4	<100	30	45	19.3	10.0	33	49	140	<5	<1
0337-1	<100	80	6	2.4	1.5	9	8	14	<5	5
0337-2	<100	250	42	17.9	12.0	8	58	122	<5	6
0337-3	<100	150	25	10.3	7.2	8	35	78	<5	4
0337-4	<100	120	14	5.5	3.8	8	19	38	<5	4
0338-1	<100	300	9	5.0	1.8	6	10	3	<5	10
0338-2	<100	310	19	9.4	4.0	6	23	5	<5	7
0338-3	<100	420	24	12.7	4.8	6	29	3	<5	7
0338-4	<100	310	13	6.9	2.6	4	15	6	<5	4
0339-1	<100	200	64	29.5	14.0	15	75	112	<5	14
0339-2	<100	390	85	41.5	19.9	8	106	137	<5	13
0339-3	<100	520	92	45.8	21.2	9	114	161	<5	10
0339-4	<100	720	112	56.6	27.0	10	141	224	<5	12
0340-1	<100	80	19	9.8	4.5	24	23	47	<5	4
0340-2	<100	250	25	10.8	6.6	43	33	141	<5	4
0340-3	<100	320	39	17.3	11.4	34	59	245	<5	4
0340-4	<100	300	34	15.4	9.1	28	46	143	6	5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0341-1	<100	80	70	40.4	9.5	83	53	85	7	10
0341-2	<100	120	80	46.4	17.3	40	89	251	5	3
0341-3	<100	190	91	54.7	19.9	46	105	277	<5	2
0341-4	<100	410	68	41.5	16.9	21	89	221	<5	3
0342-1	<100	60	8	4.9	1.8	148	9	42	9	3
0342-2	<100	90	16	7.7	3.2	96	16	60	<5	<1
0342-3	<100	150	24	11.3	5.3	85	26	91	<5	<1
0342-4	200	240	28	10.7	8.9	117	42	252	12	3
*Dup 0317-1	<100	20	10	4.3	2.0	31	10	16	<5	5
*Dup 0320-1	<100	40	22	8.7	4.4	32	21	61	<5	<1
*Dup 0323-1	<100	30	24	15.6	2.7	59	15	22	<5	2
*Dup 0326-1	<100	90	5	3.8	0.9	133	4	27	<5	<1
*Dup 0329-1	<100	30	6	2.5	1.5	30	7	24	<5	3
*Dup 0332-1	<100	130	92	39.3	27.1	13	126	480	<5	2
*Dup 0335-1	<100	30	5	2.4	0.8	29	5	16	<5	9
*Dup 0338-1	<100	320	10	5.4	1.9	6	11	4	<5	10
*Dup 0341-1	<100	90	68	39.8	9.0	71	50	77	<5	9
*Std MMISRM14	<100	820	2	0.8	0.9	3	4	4	<5	37
*Std MMISRM14	<100	840	3	0.9	1.0	2	5	3	<5	36
*Std MMISRM14	<100	840	2	0.8	0.9	3	4	5	<5	37
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

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Final : 094428 Order: PROJECT: RANCHERIA REGION

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0317-1	<5	4.7	29	23	2710	<1	7	<1	46	<1
0317-2	5	4.9	29	20	1090	<1	8	<1	111	<1
0317-3	5	2.0	39	17	5120	<1	10	<1	193	<1
0317-4	7	5.2	64	16	4090	<1	18	<1	220	<1
0318-1	<5	6.0	34	18	5270	<1	8	<1	101	<1
0318-2	<5	6.4	183	33	4600	<1	45	<1	174	<1
0318-3	<5	5.1	184	32	5250	<1	45	<1	179	<1
0318-4	5	7.5	224	40	4470	<1	57	<1	211	1
0319-1	<5	2.7	268	25	2780	<1	56	<1	120	<1
0319-2	<5	1.1	352	16	2070	<1	78	<1	152	<1
0319-3	<5	1.7	699	14	290	<1	160	<1	151	<1
0319-4	<5	2.7	526	19	620	<1	122	<1	149	<1
0320-1	<5	1.9	76	21	4130	<1	19	<1	186	<1
0320-2	<5	2.0	135	11	3270	<1	35	<1	144	<1
0320-3	<5	5.2	345	28	1660	<1	107	<1	202	<1
0320-4	<5	<0.5	1870	27	1580	<1	393	<1	73	<1
0321-1	<5	19.0	62	27	1490	<1	17	<1	22	<1
0321-2	<5	4.0	54	36	3610	<1	14	<1	260	<1
0321-3	<5	3.7	110	16	2990	<1	33	<1	211	<1
0321-4	<5	4.6	321	17	5200	<1	89	<1	276	<1
0322-1	<5	5.4	88	39	1500	<1	20	<1	182	<1
0322-2	<5	2.5	99	29	6780	<1	24	<1	305	<1
0322-3	<5	0.7	159	34	1700	<1	38	<1	322	<1
0322-4	<5	<0.5	243	8	1170	<1	60	<1	242	<1
0323-1	<5	2.2	45	44	1110	<1	10	<1	13	<1
0323-2	<5	2.1	73	38	970	<1	18	<1	184	<1
0323-3	<5	<0.5	57	31	370	<1	14	<1	163	<1
0323-4	<5	<0.5	58	36	840	<1	14	<1	170	<1
0324-1	<5	13.7	28	26	1010	<1	8	<1	90	<1
0324-2	<5	4.5	79	19	6170	<1	21	<1	287	<1
0324-3	<5	3.2	201	8	7160	<1	54	<1	289	<1
0324-4	<5	2.3	242	8	4570	<1	63	<1	310	<1
0325-1	<5	7.4	5	28	1110	<1	2	<1	68	<1
0325-2	<5	14.4	33	21	1290	<1	10	<1	184	<1
0325-3	<5	14.2	41	24	1380	<1	12	<1	188	<1
0325-4	<5	6.8	46	32	2380	<1	13	<1	252	<1
0326-1	<5	6.7	19	24	1060	<1	6	<1	115	<1
0326-2	<5	4.6	7	12	520	<1	3	<1	85	<1
0326-3	<5	5.7	182	19	2950	<1	44	<1	177	<1
0326-4	<5	3.2	220	16	2800	<1	54	<1	230	<1
0327-1	<5	5.9	43	32	1790	<1	11	<1	110	<1
0327-2	<5	5.1	54	28	1470	<1	15	<1	176	<1
0327-3	<5	3.4	96	21	3410	<1	26	<1	153	<1
0327-4	5	5.6	81	29	1410	<1	22	<1	190	<1
0328-1	<5	5.8	47	32	2050	<1	11	<1	132	<1
0328-2	<5	5.7	55	36	970	<1	12	<1	157	<1
0328-3	<5	6.6	80	33	1510	<1	18	<1	213	<1
0328-4	<5	3.4	59	67	1240	<1	14	<1	199	<1

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Final : 094428 Order: PROJECT: RANCHERIA REGION

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0329-1	<5	4.8	24	13	1300	<1	6	<1	49	<1
0329-2	<5	4.5	17	12	830	<1	5	<1	58	<1
0329-3	5	4.8	25	14	1100	<1	7	<1	111	<1
0329-4	5	5.4	51	21	1600	<1	13	<1	128	1
0330-1	<5	3.1	92	28	2230	<1	25	<1	187	<1
0330-2	<5	5.4	99	31	3080	<1	29	<1	184	<1
0330-3	<5	3.7	803	22	7230	<1	203	<1	298	<1
0330-4	<5	8.6	777	22	3890	<1	198	<1	240	1
0331-1	<5	5.5	31	16	1350	<1	9	<1	58	<1
0331-2	<5	18.1	95	62	2520	<1	27	<1	155	<1
0331-3	<5	17.1	56	31	2780	<1	14	<1	71	<1
0331-4	<5	10.3	84	31	3510	<1	20	<1	68	<1
0332-1	<5	1.7	411	25	1980	<1	105	<1	232	<1
0332-2	<5	1.2	808	29	4030	<1	211	<1	242	<1
0332-3	<5	2.0	1070	18	5870	<1	278	<1	265	<1
0332-4	<5	2.1	661	19	5080	<1	171	<1	243	<1
0333-1	<5	2.6	50	42	4460	<1	14	<1	258	<1
0333-2	<5	2.4	54	29	5110	<1	14	<1	304	<1
0333-3	<5	2.1	62	25	4930	<1	17	<1	302	<1
0333-4	<5	1.2	75	29	6670	<1	19	<1	278	<1
0334-1	<5	1.7	1	19	1170	<1	<1	<1	54	<1
0334-2	<5	2.4	34	27	5560	<1	9	<1	229	<1
0334-3	<5	4.3	62	19	8430	<1	17	<1	304	<1
0334-4	<5	5.0	73	20	8160	<1	20	<1	328	1
0335-1	<5	1.0	12	74	2040	<1	4	<1	248	<1
0335-2	<5	1.2	48	50	2540	<1	13	<1	191	<1
0335-3	<5	2.9	130	53	3740	<1	36	<1	199	<1
0335-4	<5	2.6	744	43	2150	<1	190	<1	151	<1
0336-1	<5	10.8	55	68	1680	<1	14	<1	261	<1
0336-2	<5	7.5	59	28	2220	<1	16	<1	177	<1
0336-3	<5	3.7	49	19	3750	<1	13	<1	160	<1
0336-4	<5	1.2	171	22	4140	<1	42	<1	150	<1
0337-1	<5	<0.5	20	46	940	<1	5	<1	134	<1
0337-2	<5	<0.5	182	30	1440	<1	39	<1	117	<1
0337-3	<5	<0.5	113	21	1740	<1	25	<1	166	<1
0337-4	<5	<0.5	59	20	1310	<1	13	<1	155	<1
0338-1	<5	<0.5	10	196	370	<1	2	<1	6	<1
0338-2	<5	<0.5	25	120	340	<1	4	<1	13	<1
0338-3	<5	<0.5	24	117	310	<1	3	<1	28	<1
0338-4	<5	<0.5	20	74	330	<1	3	<1	29	<1
0339-1	<5	<0.5	202	159	2800	<1	44	<1	57	<1
0339-2	<5	<0.5	243	99	1150	<1	48	<1	27	<1
0339-3	<5	<0.5	272	128	1080	<1	53	<1	34	<1
0339-4	<5	<0.5	343	127	1120	<1	70	<1	57	<1
0340-1	<5	1.4	70	169	1190	<1	16	<1	166	<1
0340-2	<5	1.2	152	138	870	<1	37	<1	160	<1
0340-3	<5	1.1	282	105	1290	<1	68	<1	225	<1
0340-4	<5	1.1	188	120	1260	<1	43	<1	247	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0341-1	<5	2.4	164	338	580	<1	35	<1	189	<1
0341-2	<5	1.2	365	305	440	<1	87	<1	230	<1
0341-3	<5	0.7	424	284	650	<1	98	<1	284	<1
0341-4	<5	0.5	336	283	310	<1	76	<1	241	<1
0342-1	<5	13.7	37	47	420	<1	10	<1	96	<1
0342-2	<5	5.0	67	62	560	<1	18	<1	201	<1
0342-3	<5	5.2	113	85	940	<1	29	<1	250	<1
0342-4	<5	8.2	227	134	610	<1	62	<1	188	<1
*Dup 0317-1	<5	2.8	25	15	3110	<1	6	<1	47	<1
Dup 0320-1	<5	1.5	72	17	4210	<1	18	<1	180	<1
Dup 0323-1	<5	2.5	37	38	1000	<1	8	<1	12	<1
*Dup 0326-1	<5	8.5	20	23	660	<1	6	<1	130	<1
*Dup 0329-1	<5	3.2	26	13	1440	<1	7	<1	41	<1
Dup 0332-1	<5	1.3	546	15	2350	<1	136	<1	220	<1
*Dup 0335-1	<5	0.9	13	68	2810	<1	4	<1	249	<1
*Dup 0338-1	<5	<0.5	14	222	410	<1	2	<1	5	<1
Dup 0341-1	<5	1.6	153	323	550	<1	33	<1	188	<1
Std MMISRM14	37	<0.5	11	296	130	54	2	<1	300	<1
*Std MMISRM14	36	<0.5	15	306	140	56	3	<1	291	<1
*Std MMISRM14	37	<0.5	11	302	150	55	2	<1	299	<1
Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0317-1	9	9	<1	780	1	2	<10	12.1	453	<0.5
0317-2	7	8	<1	770	<1	1	<10	24.8	715	<0.5
0317-3	9	12	<1	180	<1	3	<10	39.2	290	1.3
0317-4	20	16	<1	290	<1	3	<10	87.3	871	2.3
0318-1	19	11	<1	20	<1	4	<10	26.0	699	1.1
0318-2	35	48	<1	100	<1	9	<10	73.4	983	1.8
0318-3	35	48	<1	70	<1	9	<10	66.2	867	1.4
0318-4	51	55	<1	110	<1	10	<10	101	1310	1.5
0319-1	21	74	<1	260	<1	14	<10	48.2	394	0.8
0319-2	18	87	<1	640	<1	14	<10	45.2	162	1.4
0319-3	24	166	<1	1020	<1	25	<10	65.0	275	1.1
0319-4	25	121	<1	1330	<1	19	<10	67.5	389	1.0
0320-1	9	19	<1	320	<1	4	<10	39.2	272	1.3
0320-2	12	30	<1	170	<1	5	<10	42.8	285	1.4
0320-3	34	62	<1	1170	<1	9	<10	97.2	1020	1.9
0320-4	39	511	<1	9200	<1	91	<10	32.7	<3	0.7
0321-1	18	12	5	380	2	2	<10	51.7	3500	<0.5
0321-2	12	14	<1	110	<1	3	<10	53.6	570	0.8
0321-3	18	23	<1	200	<1	4	<10	83.7	586	1.4
0321-4	39	69	<1	260	<1	12	<10	130	746	1.8
0322-1	18	22	<1	820	<1	4	<10	41.1	539	<0.5
0322-2	11	24	<1	580	<1	5	<10	34.8	254	0.8
0322-3	14	39	<1	810	<1	8	<10	24.4	63	1.1
0322-4	15	54	<1	3360	<1	11	<10	19.1	14	1.0
0323-1	23	12	<1	2160	<1	4	<10	28.1	266	<0.5
0323-2	15	18	<1	770	<1	3	<10	40.8	270	0.7
0323-3	11	15	<1	2040	<1	4	<10	12.4	10	1.1
0323-4	14	15	<1	2100	<1	4	<10	13.8	21	1.1
0324-1	11	7	1	180	<1	2	<10	32.4	1770	0.6
0324-2	17	18	<1	160	<1	3	<10	72.0	645	1.0
0324-3	19	43	<1	490	<1	6	<10	106	496	1.2
0324-4	22	52	<1	840	<1	8	<10	105	392	1.2
0325-1	21	2	1	150	<1	<1	<10	18.4	1690	0.5
0325-2	12	8	1	80	1	1	<10	46.2	2950	0.6
0325-3	14	10	1	60	1	2	<10	56.6	2770	0.6
0325-4	16	11	<1	40	<1	2	<10	63.1	1110	0.7
0326-1	22	4	<1	30	<1	<1	<10	45.8	683	1.1
0326-2	12	2	<1	30	<1	<1	<10	25.7	544	0.8
0326-3	22	41	<1	170	<1	7	<10	85.8	1000	0.9
0326-4	21	49	<1	430	<1	8	<10	120	475	1.1
0327-1	12	9	<1	320	<1	2	<10	28.2	1320	<0.5
0327-2	12	13	<1	320	<1	2	<10	62.0	1030	0.7
0327-3	18	23	<1	130	<1	4	<10	80.3	449	<0.5
0327-4	16	19	<1	350	<1	3	<10	72.8	977	0.5
0328-1	30	14	<1	410	<1	4	<10	26.4	692	0.8
0328-2	22	15	<1	470	<1	4	<10	25.7	445	0.7
0328-3	32	22	<1	260	1	5	<10	25.4	752	0.8
0328-4	23	17	<1	310	<1	3	<10	29.9	490	0.8

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0329-1	6	6	<1	1000	<1	1	<10	10.1	680	<0.5
0329-2	5	4	<1	1050	<1	<1	<10	11.2	646	<0.5
0329-3	8	6	<1	790	<1	1	<10	29.0	879	<0.5
0329-4	15	12	<1	660	<1	2	<10	57.5	1060	<0.5
0330-1	12	21	<1	410	<1	4	<10	43.0	469	0.6
0330-2	26	21	<1	330	<1	4	<10	62.0	1010	1.5
0330-3	66	181	<1	120	<1	32	<10	102	574	1.5
0330-4	78	165	<1	200	<1	26	<10	141	1300	1.4
0331-1	16	8	<1	90	<1	2	<10	20.3	1260	0.8
0331-2	55	21	2	250	2	4	<10	71.8	4600	1.5
0331-3	30	14	3	250	1	3	<10	28.8	3270	0.8
0331-4	23	21	<1	260	<1	4	<10	45.1	1850	0.8
0332-1	30	89	<1	820	<1	14	<10	70.1	308	1.6
0332-2	54	173	<1	1050	<1	29	<10	122	219	1.8
0332-3	57	220	<1	620	<1	34	<10	114	373	2.3
0332-4	53	143	<1	550	<1	22	<10	114	383	2.0
0333-1	9	13	<1	820	<1	2	<10	71.4	495	1.0
0333-2	11	14	<1	430	<1	3	<10	72.9	383	1.4
0333-3	12	16	<1	390	<1	3	<10	67.8	314	1.7
0333-4	10	21	<1	220	<1	4	<10	57.4	183	1.4
0334-1	8	<1	<1	300	<1	<1	<10	10.8	194	0.9
0334-2	9	9	<1	90	<1	2	<10	29.4	221	1.0
0334-3	18	16	<1	80	<1	3	<10	59.0	412	1.5
0334-4	23	17	<1	120	<1	3	<10	63.3	772	2.2
0335-1	<5	4	<1	1620	<1	<1	<10	16.6	186	0.6
0335-2	9	12	<1	950	<1	2	<10	57.6	189	0.6
0335-3	25	31	<1	510	<1	5	<10	115	509	1.6
0335-4	52	158	<1	1200	<1	25	<10	102	515	1.2
0336-1	23	14	1	710	<1	3	<10	67.1	2550	<0.5
0336-2	10	14	1	420	<1	2	<10	50.4	1880	<0.5
0336-3	9	13	<1	400	<1	3	<10	49.4	809	<0.5
0336-4	24	43	<1	190	<1	8	<10	53.4	182	0.6
0337-1	<5	6	<1	1980	<1	1	<10	17.3	33	0.5
0337-2	5	49	<1	3540	<1	8	<10	33.4	7	0.7
0337-3	<5	31	<1	2180	<1	5	<10	26.6	27	0.8
0337-4	<5	17	<1	1910	<1	3	<10	16.1	28	0.6
0338-1	<5	6	<1	4060	<1	2	<10	5.4	<3	<0.5
0338-2	6	14	<1	4620	<1	4	<10	15.8	<3	<0.5
0338-3	9	16	<1	5630	<1	4	<10	10.4	<3	<0.5
0338-4	6	9	<1	3710	<1	2	<10	3.7	<3	<0.5
0339-1	<5	61	<1	2380	<1	12	<10	20.1	13	<0.5
0339-2	8	74	<1	3600	<1	16	<10	40.9	<3	<0.5
0339-3	10	80	<1	3240	<1	17	<10	58.2	3	<0.5
0339-4	11	99	<1	4370	<1	21	<10	48.8	<3	0.6
0340-1	8	19	<1	740	<1	4	<10	13.5	80	0.6
0340-2	6	33	<1	930	<1	5	<10	75.2	126	1.4
0340-3	7	57	<1	810	<1	8	<10	64.8	143	1.3
0340-4	6	43	<1	820	<1	7	<10	32.2	142	1.1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0341-1	42	42	<1	560	<1	11	<10	96.1	243	1.2
0341-2	25	82	<1	370	<1	14	<10	47.4	133	1.6
0341-3	28	94	<1	480	<1	16	<10	43.1	73	1.3
0341-4	13	78	<1	660	<1	13	<10	20.7	44	1.1
0342-1	29	8	2	170	<1	1	<10	74.5	2570	0.6
0342-2	17	16	<1	30	<1	3	<10	54.4	642	0.6
0342-3	21	25	<1	50	<1	4	<10	62.5	822	0.6
0342-4	35	44	<1	260	<1	6	<10	137	1040	0.7
*Dup 0317-1	7	8	<1	790	<1	2	<10	11.5	290	<0.5
Dup 0320-1	8	18	<1	230	<1	4	<10	35.9	196	1.1
Dup 0323-1	22	11	<1	1640	<1	3	<10	28.7	288	<0.5
*Dup 0326-1	20	5	<1	50	<1	<1	<10	50.7	788	1.1
Dup 0329-1	<5	6	<1	1010	<1	1	<10	8.9	410	<0.5
Dup 0332-1	38	120	<1	830	<1	19	<10	88.1	260	1.4
*Dup 0335-1	<5	4	<1	1590	<1	<1	<10	25.3	139	<0.5
*Dup 0338-1	<5	7	<1	4170	<1	2	<10	6.4	<3	<0.5
Dup 0341-1	35	40	<1	620	<1	10	<10	77.3	140	1.0
Std MMISRM14	7	4	<1	570	<1	<1	<10	19.2	<3	<0.5
*Std MMISRM14	7	5	<1	670	<1	<1	<10	19.6	<3	<0.5
*Std MMISRM14	7	4	<1	570	<1	<1	<10	19.8	<3	<0.5
Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

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Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0317-1	31	<1	52	3	220	35
0317-2	27	2	34	2	200	33
0317-3	54	2	58	3	90	32
0317-4	59	4	49	3	190	92
0318-1	102	1	97	6	50	57
0318-2	189	2	199	11	200	74
0318-3	182	2	205	11	240	68
0318-4	200	3	210	13	450	106
0319-1	285	<1	373	20	60	38
0319-2	247	<1	328	18	690	29
0319-3	346	<1	503	29	60	35
0319-4	306	<1	390	23	150	41
0320-1	50	<1	99	5	20	31
0320-2	58	1	101	5	40	38
0320-3	61	3	169	8	360	71
0320-4	264	2	2450	172	1250	14
0321-1	17	5	48	3	310	39
0321-2	27	1	60	4	110	34
0321-3	25	3	68	3	170	70
0321-4	57	4	234	11	150	103
0322-1	16	<1	126	8	1210	28
0322-2	21	<1	153	16	460	19
0322-3	24	<1	361	50	510	13
0322-4	26	<1	496	71	130	10
0323-1	21	<1	163	12	290	22
0323-2	21	<1	97	8	140	29
0323-3	21	<1	202	18	40	8
0323-4	20	<1	197	19	60	8
0324-1	17	2	40	3	340	41
0324-2	26	2	66	4	610	49
0324-3	35	2	103	7	700	51
0324-4	41	2	137	11	1260	47
0325-1	8	1	30	4	80	39
0325-2	15	5	31	3	130	48
0325-3	18	5	36	3	170	53
0325-4	22	3	44	4	400	49
0326-1	21	<1	25	6	70	49
0326-2	12	<1	17	3	20	24
0326-3	26	1	131	9	430	32
0326-4	31	1	142	10	520	34
0327-1	10	1	45	4	880	39
0327-2	44	2	46	3	1200	49
0327-3	71	1	75	5	480	62
0327-4	38	2	55	4	920	64
0328-1	53	2	101	7	410	58
0328-2	58	2	104	7	180	60
0328-3	68	1	131	8	160	59
0328-4	96	2	99	7	530	62

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Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0329-1	21	1	25	2	390	30
0329-2	17	2	17	1	190	25
0329-3	23	2	23	2	240	35
0329-4	38	2	41	3	330	58
0330-1	50	1	74	4	480	33
0330-2	57	3	68	4	470	77
0330-3	352	3	761	35	420	98
0330-4	312	5	651	33	600	146
0331-1	25	<1	66	5	90	60
0331-2	123	1	143	13	40	133
0331-3	23	3	131	8	190	99
0331-4	39	2	137	9	90	56
0332-1	89	2	332	21	170	59
0332-2	183	1	692	40	220	70
0332-3	180	2	768	39	120	86
0332-4	163	2	464	28	180	90
0333-1	28	3	53	4	660	48
0333-2	39	2	53	4	260	52
0333-3	39	2	58	4	120	47
0333-4	49	1	88	6	100	39
0334-1	9	<1	20	5	450	11
0334-2	30	4	42	3	410	31
0334-3	51	7	47	3	500	66
0334-4	41	6	44	3	450	73
0335-1	8	<1	24	2	2380	10
0335-2	18	<1	44	3	440	38
0335-3	37	2	84	6	490	84
0335-4	82	3	600	36	440	77
0336-1	40	4	86	6	460	35
0336-2	22	4	59	3	110	36
0336-3	27	1	64	4	30	29
0336-4	81	<1	226	13	120	34
0337-1	36	<1	27	2	320	11
0337-2	100	<1	212	12	210	16
0337-3	83	<1	122	7	150	15
0337-4	100	<1	68	4	50	11
0338-1	5	<1	57	4	370	<5
0338-2	12	<1	106	7	80	7
0338-3	4	<1	143	9	110	7
0338-4	2	<1	97	5	490	7
0339-1	178	<1	294	22	520	20
0339-2	113	<1	495	27	770	20
0339-3	142	<1	569	30	760	25
0339-4	188	<1	664	39	1030	19
0340-1	195	<1	107	7	1030	19
0340-2	70	<1	110	8	520	17
0340-3	79	<1	189	12	250	18
0340-4	89	<1	162	11	280	25

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Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0341-1	60	<1	365	29	300	24
0341-2	77	<1	511	38	440	23
0341-3	101	<1	550	47	650	26
0341-4	122	<1	420	38	520	20
0342-1	16	1	39	4	360	36
0342-2	23	<1	70	6	160	29
0342-3	34	<1	108	8	260	38
0342-4	51	<1	105	8	530	75
*Dup 0317-1	34	<1	56	3	250	29
*Dup 0320-1	48	<1	94	5	30	28
*Dup 0323-1	23	<1	156	12	320	24
*Dup 0326-1	21	<1	21	5	50	60
*Dup 0329-1	25	<1	27	2	310	24
*Dup 0332-1	109	2	446	29	200	70
*Dup 0335-1	10	<1	24	2	1710	12
*Dup 0338-1	6	<1	60	4	360	5
*Dup 0341-1	57	<1	365	29	270	20
*Std MMISRM14	44	<1	11	<1	340	15
*Std MMISRM14	45	<1	14	<1	360	14
*Std MMISRM14	46	<1	11	<1	450	14
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

Certificate of Analysis

Work Order: 094429

To: Tanana Explorations Inc.
Attn: Wade Carrell
27 Tutshi Rd.
WHITEHORSE
YUKON Y1A 3R4

Date: Aug 13, 2007

P.O. No. :	PROJECT: RANCHERIA REGION
Project No. :	DEFAULT
No. Of Samples	100
Date Submitted	Jul 31, 2007
Report Comprises	Pages 1 to 16 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 100 Soils

Certified By :

Operations Manager

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer: L.N.R. = Listed not received; I.S. = Insufficient Sample; n.a. = Not applicable; -- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0343-1	11	205	20	0.1	310	2	40	16	500	143
0343-2	53	212	40	0.1	490	3	10	10	723	101
0343-3	24	165	50	0.1	620	3	10	14	1260	144
0343-4	25	174	50	0.1	900	2	60	26	1560	134
0344-1	27	118	10	<0.1	380	<1	240	20	607	174
0344-2	58	145	<10	0.1	220	<1	270	7	432	18
0344-3	56	139	<10	0.1	170	<1	310	5	376	12
0344-4	31	96	<10	<0.1	240	<1	330	9	324	15
0345-1	17	32	<10	0.1	150	<1	430	14	95	78
0345-2	25	30	<10	0.1	210	<1	480	10	125	86
0345-3	33	31	<10	0.2	280	<1	570	15	166	101
0345-4	22	14	<10	0.2	340	<1	430	14	166	49
0346-1	63	180	<10	0.2	550	2	90	17	646	133
0346-2	73	152	<10	0.1	320	1	120	17	494	59
0346-3	75	164	<10	0.2	180	1	190	13	329	49
0346-4	62	142	<10	0.1	280	1	190	14	478	61
0347-1	9	140	<10	<0.1	70	<1	240	14	79	29
0347-2	7	76	<10	<0.1	20	<1	300	10	25	13
0347-3	19	70	<10	0.2	100	<1	430	7	12	9
0347-4	20	64	<10	<0.1	110	<1	380	7	14	13
0348-1	52	160	<10	0.2	250	<1	200	11	465	12
0348-2	47	167	10	0.3	290	<1	200	11	438	14
0348-3	90	164	20	0.3	210	<1	210	6	456	12
0348-4	85	152	10	0.3	320	<1	210	6	457	13
0349-1	42	9	<10	0.2	1090	<1	500	8	14	54
0349-2	40	8	<10	0.3	1160	<1	530	7	12	39
0349-3	45	9	<10	0.2	1230	<1	510	7	<5	24
0349-4	47	13	<10	0.3	1370	<1	520	9	19	26
0350-1	10	37	<10	0.1	1540	<1	370	6	236	64
0350-2	28	116	<10	<0.1	1080	<1	230	5	546	16
0350-3	21	106	<10	<0.1	1490	<1	230	5	591	16
0350-4	17	113	<10	<0.1	860	<1	200	5	580	20
0351-1	10	88	<10	<0.1	300	<1	340	19	24	13
0351-2	31	145	<10	<0.1	240	<1	200	14	223	24
0351-3	55	117	<10	<0.1	430	<1	200	20	445	20
0351-4	133	35	<10	0.2	640	<1	920	8	81	<5
0354-1	10	239	<10	<0.1	330	1	30	24	173	103
0354-2	22	256	<10	<0.1	670	2	20	7	189	61
0354-3	63	270	<10	<0.1	430	<1	<10	11	199	38
0354-4	56	278	<10	<0.1	490	<1	<10	12	211	42
0356-1	3	81	<10	<0.1	670	<1	470	12	22	10
0356-2	3	93	<10	<0.1	620	<1	440	13	21	8
0356-3	4	129	<10	<0.1	490	<1	270	7	36	8
0356-4	4	135	<10	<0.1	420	<1	260	9	56	10
0357-1	4	153	<10	<0.1	450	<1	230	24	53	14
0357-2	6	234	<10	<0.1	420	<1	150	7	98	12
0357-3	12	218	<10	<0.1	300	<1	150	7	156	7
0357-4	14	193	<10	<0.1	290	<1	170	8	154	8

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0358-1	4	241	<10	<0.1	290	<1	40	23	312	67
0358-2	9	246	<10	<0.1	430	1	70	15	325	44
0358-3	9	255	<10	<0.1	540	2	70	13	354	49
0358-4	9	>300	<10	<0.1	1140	2	50	7	376	41
0359-1	4	279	<10	<0.1	240	<1	10	7	55	36
0359-2	7	276	<10	<0.1	1550	1	20	5	137	41
0359-3	6	248	<10	<0.1	890	2	20	5	133	47
0359-4	5	209	<10	<0.1	1320	2	20	4	128	55
0360-1	11	53	10	0.1	4080	<1	140	3	1160	155
0360-2	17	137	20	0.1	3130	1	180	3	1020	37
0360-3	13	128	20	0.2	3770	1	190	3	1010	33
0360-4	31	48	<10	0.2	3340	<1	420	3	815	11
0361-1	33	17	<10	0.1	620	<1	690	5	7	10
0361-2	28	10	20	<0.1	160	<1	310	3	44	16
0361-3	33	9	10	0.1	130	<1	340	4	25	12
0361-4	38	12	10	<0.1	140	<1	440	5	12	13
0362-1	12	>300	10	<0.1	990	4	30	13	290	236
0362-2	23	278	<10	<0.1	750	2	20	6	339	54
0362-3	41	231	10	0.1	510	2	20	5	503	42
0362-4	39	242	<10	<0.1	500	1	20	5	444	27
0363-1	43	174	<10	<0.1	450	2	180	25	204	197
0363-2	4	233	<10	<0.1	490	5	80	32	116	518
0363-3	110	168	<10	0.1	350	1	170	7	200	25
0363-4	105	184	<10	0.1	460	1	160	7	218	25
0364-1	22	295	<10	<0.1	380	3	10	10	181	155
0364-2	41	>300	<10	<0.1	510	2	<10	9	316	113
0364-3	43	287	<10	<0.1	410	2	10	10	292	134
0364-4	53	>300	<10	<0.1	490	2	10	7	242	101
0365-1	47	253	<10	<0.1	180	2	50	6	150	25
0365-2	33	252	<10	0.4	210	1	20	5	298	49
0365-3	23	269	10	<0.1	320	2	20	8	442	125
0365-4	15	281	20	<0.1	720	1	30	6	424	122
0366-1	25	279	<10	<0.1	310	6	<10	7	242	34
0366-2	35	236	20	<0.1	560	3	<10	4	383	19
0366-3	37	217	20	<0.1	700	3	<10	4	366	43
0366-4	19	169	<10	0.2	920	2	<10	3	412	70
0367-1	36	148	10	0.5	2630	1	60	9	1130	138
0367-2	15	127	20	0.3	3910	2	30	5	1210	55
0367-3	15	128	10	0.3	4040	2	40	6	1310	130
0367-4	22	93	20	0.2	3710	2	60	8	1360	166
0368-1	14	214	10	<0.1	1090	4	50	27	374	309
0368-2	59	214	<10	0.1	710	1	20	3	395	41
0368-3	130	100	<10	0.2	770	<1	20	2	502	48
0368-4	61	111	<10	0.1	2010	1	30	4	758	60
0369-1	17	156	<10	<0.1	640	<1	150	13	389	300
0369-2	9	156	<10	<0.1	530	<1	190	4	340	80
0369-3	8	173	<10	0.1	530	1	140	4	378	67
0369-4	6	156	<10	<0.1	510	1	150	3	355	112

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Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0370-1	13	286	<10	<0.1	740	2	10	5	135	36
0370-2	18	281	<10	<0.1	420	<1	<10	10	83	69
0370-3	50	273	<10	<0.1	380	<1	<10	9	120	74
0370-4	17	286	<10	<0.1	380	<1	<10	10	153	64
*Dup 0343-1	8	229	20	<0.1	400	2	30	20	459	205
*Dup 0346-1	56	205	<10	0.1	610	2	70	20	676	194
*Dup 0349-1	47	10	<10	0.2	1280	<1	500	10	21	58
*Dup 0354-1	7	278	<10	<0.1	300	<1	10	22	57	106
*Dup 0358-1	4	274	<10	<0.1	390	<1	40	20	218	96
*Dup 0361-1	35	18	10	0.1	370	<1	780	5	<5	12
*Dup 0364-1	32	>300	10	<0.1	380	3	20	12	263	175
*Dup 0367-1	24	131	10	0.4	2170	1	70	11	1290	109
*Dup 0370-1	13	284	<10	<0.1	700	2	10	6	126	41
*Std MMISRM14	19	38	20	45.6	50	<1	280	9	10	51
*Std MMISRM14	20	43	20	46.1	80	<1	270	10	17	54
*Std MMISRM14	23	58	30	53.1	90	<1	290	11	21	71
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

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Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0343-1	<100	80	29	14.4	7.8	166	35	117	7	5
0343-2	<100	100	35	14.8	9.8	77	45	213	6	<1
0343-3	<100	120	58	26.6	16.4	56	73	370	6	<1
0343-4	<100	130	68	33.7	19.1	44	84	392	6	3
0344-1	<100	180	117	61.8	33.0	55	163	354	9	4
0344-2	<100	350	160	88.2	39.8	27	193	308	7	2
0344-3	<100	400	192	103	47.5	23	239	367	7	3
0344-4	<100	370	94	50.0	28.2	23	138	296	8	4
0345-1	<100	460	11	5.6	3.8	14	17	36	7	3
0345-2	<100	650	10	5.0	3.5	12	16	34	5	3
0345-3	<100	660	11	4.8	3.5	9	17	32	6	4
0345-4	<100	260	6	2.8	1.9	4	9	15	5	3
0346-1	<100	350	52	22.9	17.5	25	74	226	12	2
0346-2	<100	300	47	21.2	16.4	20	71	217	12	2
0346-3	<100	370	104	48.1	34.6	18	153	321	9	2
0346-4	<100	340	91	40.8	33.7	20	145	450	11	2
0347-1	<100	110	12	6.3	3.1	27	15	37	9	2
0347-2	<100	100	5	2.5	1.5	17	7	16	7	2
0347-3	<100	120	10	5.3	2.7	11	13	14	<5	2
0347-4	<100	140	9	4.6	2.9	13	14	19	<5	2
0348-1	<100	370	361	195	113	18	450	997	8	3
0348-2	<100	340	385	214	111	20	455	956	10	3
0348-3	<100	460	301	158	105	21	405	991	9	2
0348-4	<100	430	307	157	107	19	420	1070	8	2
0349-1	<100	370	4	1.9	1.2	3	7	9	27	4
0349-2	<100	350	4	1.9	1.1	3	6	4	24	4
0349-3	<100	410	5	2.3	1.2	3	7	<1	27	4
0349-4	<100	510	10	4.7	2.3	4	14	11	33	5
0350-1	<100	490	27	11.8	9.4	14	47	141	<5	4
0350-2	<100	450	66	33.3	19.8	26	94	243	<5	1
0350-3	<100	330	52	24.1	17.3	19	82	231	<5	1
0350-4	<100	490	51	24.9	15.4	34	72	203	<5	1
0351-1	<100	30	4	1.7	1.0	26	5	11	<5	2
0351-2	<100	60	17	6.6	5.7	24	27	82	<5	<1
0351-3	<100	80	31	12.9	11.0	18	50	198	<5	<1
0351-4	<100	100	20	10.3	6.4	9	30	76	<5	3
0354-1	<100	110	16	6.4	4.4	82	19	74	<5	1
0354-2	<100	90	12	4.6	4.3	77	16	86	9	1
0354-3	<100	150	26	10.5	7.4	26	30	73	8	<1
0354-4	<100	150	26	10.4	7.7	27	32	79	9	<1
0356-1	<100	20	3	1.1	0.9	23	4	12	5	9
0356-2	<100	20	3	1.4	0.9	22	4	11	<5	8
0356-3	<100	20	5	2.5	1.6	26	7	17	<5	3
0356-4	<100	30	6	2.4	2.1	26	8	24	<5	3
0357-1	<100	30	11	5.3	2.9	38	13	23	<5	3
0357-2	<100	50	16	6.8	4.2	42	19	44	8	2
0357-3	<100	60	20	8.4	6.5	18	29	81	<5	<1
0357-4	<100	90	33	14.9	9.7	16	45	128	<5	<1

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Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0358-1	<100	120	52	23.4	13.9	31	65	106	6	1
0358-2	<100	140	39	16.7	12.0	38	52	128	9	1
0358-3	<100	140	35	15.4	11.3	42	50	147	9	2
0358-4	<100	150	35	15.1	11.0	56	48	158	10	1
0359-1	<100	50	10	5.4	2.5	55	10	19	<5	<1
0359-2	<100	100	11	5.2	3.8	102	15	60	7	1
0359-3	<100	120	12	5.6	4.1	93	15	57	<5	1
0359-4	<100	120	10	4.6	3.5	93	13	58	6	1
0360-1	<100	380	74	34.3	24.9	30	123	583	<5	10
0360-2	<100	240	116	56.8	36.3	34	178	519	5	10
0360-3	<100	210	96	44.4	31.4	42	154	531	10	10
0360-4	<100	330	121	62.1	34.6	7	178	328	<5	22
0361-1	<100	130	4	4.8	0.6	9	4	4	6	3
0361-2	<100	160	13	10.5	2.3	24	11	31	<5	1
0361-3	<100	150	9	7.2	1.6	19	8	21	<5	1
0361-4	<100	180	6	4.9	1.1	12	6	10	6	2
0362-1	<100	80	25	11.4	5.8	41	28	109	8	2
0362-2	<100	70	28	12.1	7.4	30	35	130	7	1
0362-3	<100	70	35	15.4	10.7	36	50	193	7	<1
0362-4	<100	60	30	12.9	9.3	33	44	168	7	<1
0363-1	<100	180	40	18.3	9.2	55	43	89	5	9
0363-2	<100	210	40	26.2	6.4	106	29	49	9	12
0363-3	<100	130	22	8.3	6.8	35	30	100	<5	4
0363-4	<100	160	24	9.3	7.6	33	33	111	<5	3
0364-1	<100	120	15	6.3	3.5	98	16	80	<5	2
0364-2	<100	180	23	9.5	6.5	69	28	125	<5	<1
0364-3	<100	250	26	13.0	7.1	59	31	107	<5	<1
0364-4	<100	170	21	9.5	5.8	72	26	92	<5	<1
0365-1	<100	50	15	6.9	4.4	60	19	62	<5	2
0365-2	<100	200	21	8.9	7.5	48	30	130	<5	<1
0365-3	<100	220	25	9.7	9.2	51	37	177	<5	<1
0365-4	<100	180	21	7.5	7.8	46	30	173	<5	<1
0366-1	<100	110	19	7.7	5.0	77	22	92	<5	<1
0366-2	<100	80	18	6.5	6.1	63	25	161	<5	<1
0366-3	<100	120	17	6.4	6.5	75	26	153	7	<1
0366-4	<100	150	19	6.6	7.3	31	29	166	5	<1
0367-1	<100	490	89	38.0	28.3	29	123	555	7	6
0367-2	<100	390	148	65.5	46.5	31	203	684	6	3
0367-3	<100	370	174	77.8	55.8	36	248	746	6	3
0367-4	<100	400	167	75.9	50.3	38	231	796	<5	6
0368-1	<100	120	22	10.3	6.9	254	32	185	8	11
0368-2	<100	210	21	8.7	7.2	31	32	198	<5	2
0368-3	<100	240	29	11.1	10.9	12	49	246	<5	2
0368-4	<100	210	36	13.5	12.4	27	57	394	8	3
0369-1	<100	400	52	28.3	13.0	36	58	140	<5	1
0369-2	<100	460	30	15.1	9.3	51	40	127	<5	1
0369-3	<100	430	34	17.4	10.4	57	45	135	<5	<1
0369-4	<100	520	32	15.5	10.0	54	43	122	<5	<1

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0370-1	<100	140	15	7.7	3.7	169	17	60	<5	<1
0370-2	<100	160	21	11.5	3.4	66	17	33	<5	<1
0370-3	<100	180	27	12.8	4.9	53	24	48	<5	<1
0370-4	<100	180	28	13.2	6.1	53	28	62	<5	<1
*Dup 0343-1	<100	80	31	16.8	7.6	176	33	106	6	4
*Dup 0346-1	<100	410	54	26.0	16.7	29	72	224	6	2
*Dup 0349-1	<100	430	4	2.4	0.8	4	5	<1	26	5
*Dup 0354-1	<100	90	11	5.8	2.4	78	10	23	<5	<1
*Dup 0358-1	<100	130	46	22.1	10.5	46	51	77	10	2
*Dup 0361-1	<100	140	5	5.2	0.6	9	3	<1	8	3
*Dup 0364-1	<100	150	19	8.1	5.2	95	22	112	9	2
*Dup 0367-1	<100	350	93	38.5	29.5	24	132	624	7	6
*Dup 0370-1	<100	130	17	9.2	3.8	155	17	55	8	<1
*Std MMISRM14	<100	750	2	0.6	0.7	2	3	<1	<5	35
*Std MMISRM14	<100	760	2	0.7	0.8	2	4	3	<5	36
*Std MMISRM14	<100	940	3	1.1	1.1	3	5	4	<5	37
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0343-1	<5	2.7	152	234	3060	<1	39	<1	210	<1
0343-2	6	1.4	211	96	5710	<1	57	<1	258	<1
0343-3	5	0.7	361	101	6900	<1	98	<1	220	<1
0343-4	<5	0.6	402	193	7700	<1	105	<1	240	<1
0344-1	5	1.0	673	225	670	<1	154	<1	195	<1
0344-2	<5	<0.5	665	371	460	<1	146	<1	201	<1
0344-3	<5	<0.5	807	304	300	<1	172	<1	177	<1
0344-4	<5	<0.5	589	197	140	<1	132	<1	175	<1
0345-1	<5	<0.5	74	179	60	<1	16	<1	84	<1
0345-2	<5	<0.5	70	159	70	<1	16	<1	44	<1
0345-3	<5	<0.5	68	194	80	<1	15	<1	40	<1
0345-4	<5	<0.5	35	126	70	<1	8	<1	42	<1
0346-1	<5	1.3	361	312	800	<1	89	<1	169	<1
0346-2	<5	1.0	338	199	640	<1	85	<1	149	<1
0346-3	<5	0.9	644	144	780	<1	146	<1	129	<1
0346-4	<5	1.3	732	143	620	<1	175	<1	135	<1
0347-1	<5	<0.5	64	130	150	<1	15	<1	239	<1
0347-2	<5	<0.5	32	72	40	<1	8	<1	122	<1
0347-3	<5	<0.5	43	81	30	<1	9	<1	100	<1
0347-4	<5	<0.5	51	79	30	<1	11	<1	123	<1
0348-1	<5	<0.5	1630	194	1110	<1	366	<1	175	<1
0348-2	<5	0.5	1550	311	1080	<1	353	<1	181	<1
0348-3	<5	<0.5	1630	148	920	<1	377	<1	167	<1
0348-4	<5	<0.5	1710	117	870	<1	401	<1	173	<1
0349-1	<5	<0.5	15	76	70	<1	4	<1	10	<1
0349-2	<5	<0.5	10	69	50	<1	3	<1	14	<1
0349-3	<5	<0.5	9	73	60	<1	2	<1	13	<1
0349-4	<5	<0.5	30	105	80	<1	6	<1	12	<1
0350-1	<5	<0.5	223	73	110	<1	51	<1	103	<1
0350-2	<5	0.5	412	78	310	<1	96	<1	166	<1
0350-3	<5	<0.5	368	98	330	<1	88	<1	193	<1
0350-4	<5	0.8	324	115	500	<1	77	<1	184	<1
0351-1	<5	<0.5	17	56	430	<1	4	<1	79	<1
0351-2	<5	0.6	124	33	1770	<1	30	<1	164	<1
0351-3	<5	0.5	266	34	720	<1	66	<1	143	<1
0351-4	<5	<0.5	122	37	10	<1	28	<1	20	<1
0354-1	<5	11.5	86	131	460	<1	23	<1	130	<1
0354-2	<5	12.3	84	86	360	<1	24	<1	154	<1
0354-3	<5	2.0	123	84	670	<1	29	<1	204	<1
0354-4	<5	2.2	127	83	670	<1	30	<1	196	<1
0356-1	<5	0.6	15	50	70	<1	4	<1	145	<1
0356-2	<5	0.7	15	50	50	<1	4	<1	154	<1
0356-3	<5	1.4	26	43	90	<1	6	<1	178	<1
0356-4	<5	2.0	34	43	100	<1	9	<1	189	<1
0357-1	<5	2.6	43	44	160	<1	10	<1	108	<1
0357-2	<5	2.6	65	56	290	<1	16	<1	183	<1
0357-3	6	2.0	115	36	160	<1	28	<1	239	<1
0357-4	<5	1.1	182	39	160	<1	44	<1	254	<1

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Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0358-1	<5	2.3	246	71	380	<1	54	<1	154	<1
0358-2	<5	3.6	224	96	340	<1	52	<1	216	<1
0358-3	<5	4.3	224	98	370	<1	54	<1	213	<1
0358-4	<5	5.3	222	83	460	<1	54	<1	210	<1
0359-1	<5	2.7	39	74	360	<1	9	<1	99	<1
0359-2	<5	6.3	71	93	600	<1	19	<1	140	<1
0359-3	<5	7.0	72	77	500	<1	19	<1	114	<1
0359-4	<5	6.6	65	64	470	<1	17	<1	120	<1
0360-1	<5	1.9	657	59	240	<1	169	<1	114	<1
0360-2	<5	3.0	789	40	470	<1	186	<1	143	<1
0360-3	<5	4.0	729	43	430	<1	174	<1	137	<1
0360-4	<5	<0.5	581	43	140	<1	119	<1	75	<1
0361-1	<5	<0.5	8	74	50	<1	2	<1	27	<1
0361-2	<5	<0.5	34	71	40	<1	9	<1	55	<1
0361-3	<5	<0.5	25	79	30	<1	6	<1	88	<1
0361-4	<5	<0.5	15	98	40	<1	4	<1	68	<1
0362-1	<5	3.1	127	136	1900	<1	32	<1	219	<1
0362-2	<5	2.4	165	103	2270	<1	41	<1	205	<1
0362-3	<5	3.8	251	42	2750	<1	61	<1	194	<1
0362-4	<5	3.1	236	37	1840	<1	57	<1	180	<1
0363-1	<5	1.1	137	316	3320	<1	31	<1	81	<1
0363-2	<5	2.5	81	209	3740	<1	19	<1	137	<1
0363-3	<5	1.7	121	86	2890	<1	30	<1	101	<1
0363-4	<5	1.4	133	78	2820	<1	32	<1	120	<1
0364-1	<5	5.6	71	100	1030	<1	19	<1	144	<1
0364-2	<5	4.1	137	116	1280	<1	36	<1	151	<1
0364-3	<5	3.1	142	186	1170	<1	36	<1	155	<1
0364-4	<5	4.1	117	210	1120	<1	29	<1	143	<1
0365-1	<5	7.4	82	86	980	<1	21	<1	108	<1
0365-2	<5	1.6	153	61	2280	<1	39	<1	117	<1
0365-3	5	1.9	197	73	2930	<1	52	<1	128	<1
0365-4	<5	2.0	168	57	1390	<1	46	<1	125	<1
0366-1	<5	4.5	103	67	4300	<1	27	<1	85	<1
0366-2	<5	5.5	144	25	1700	<1	40	<1	195	<1
0366-3	<5	5.5	147	31	2620	<1	41	<1	190	<1
0366-4	<5	2.0	165	36	1610	<1	45	<1	188	<1
0367-1	<5	1.8	615	105	690	<1	161	<1	176	<1
0367-2	<5	2.6	939	41	560	<1	241	<1	207	<1
0367-3	<5	2.8	1150	52	760	<1	282	<1	197	<1
0367-4	<5	2.7	1050	80	1240	<1	261	<1	212	<1
0368-1	<5	11.1	172	292	1100	<1	46	<1	238	<1
0368-2	<5	2.3	192	41	1720	<1	52	<1	144	<1
0368-3	<5	0.6	276	17	4400	<1	72	<1	178	<1
0368-4	<5	2.6	329	28	1430	<1	91	<1	293	<1
0369-1	<5	1.1	230	629	270	<1	52	<1	174	<1
0369-2	<5	1.7	176	105	280	<1	43	<1	204	<1
0369-3	<5	2.4	205	96	270	<1	49	<1	178	<1
0369-4	<5	1.8	191	95	270	<1	45	<1	178	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0370-1	<5	7.5	77	84	560	<1	19	<1	132	<1
0370-2	<5	1.6	60	121	650	<1	14	<1	141	<1
0370-3	<5	1.0	91	125	450	<1	22	<1	108	<1
0370-4	<5	1.5	115	123	370	<1	27	<1	111	<1
*Dup 0343-1	<5	2.0	145	241	3300	<1	36	<1	253	<1
Dup 0346-1	<5	0.8	345	344	980	<1	84	<1	154	<1
Dup 0349-1	<5	<0.5	6	82	120	<1	1	<1	11	<1
*Dup 0354-1	<5	11.6	32	120	380	<1	8	<1	135	<1
*Dup 0358-1	<5	3.5	168	83	400	<1	36	<1	183	<1
Dup 0361-1	<5	<0.5	4	75	50	<1	1	<1	20	<1
Dup 0364-1	<5	8.9	108	114	1130	<1	29	<1	156	<1
*Dup 0367-1	<5	1.4	666	147	680	<1	176	<1	162	<1
*Dup 0370-1	<5	6.3	73	96	680	<1	18	<1	137	<1
Std MMISRM14	40	<0.5	10	265	90	52	2	<1	267	1
Std MMISRM14	39	<0.5	12	277	100	53	3	<1	282	1
*Std MMISRM14	47	<0.5	14	370	150	65	3	<1	294	1
Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

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Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0343-1	27	33	<1	110	1	6	<10	91.3	379	0.7
0343-2	20	45	<1	50	<1	7	<10	145	228	1.5
0343-3	19	70	<1	40	<1	12	<10	135	116	1.7
0343-4	19	79	<1	230	<1	14	<10	103	95	1.9
0344-1	27	147	<1	740	<1	24	<10	98.2	131	1.0
0344-2	23	162	<1	800	<1	31	<10	51.1	22	0.8
0344-3	18	199	<1	940	<1	36	<10	35.2	13	0.6
0344-4	6	124	<1	1260	<1	20	<10	40.1	35	0.5
0345-1	<5	17	<1	1040	<1	2	<10	14.2	12	<0.5
0345-2	<5	16	<1	1330	<1	2	<10	17.7	8	<0.5
0345-3	<5	16	<1	1680	<1	2	<10	17.8	<3	0.5
0345-4	<5	8	<1	1630	<1	1	<10	7.9	<3	0.6
0346-1	21	75	<1	360	<1	11	<10	65.9	245	1.1
0346-2	16	71	<1	440	<1	10	<10	46.2	172	1.2
0346-3	19	142	<1	430	<1	22	<10	48.1	126	1.5
0346-4	17	145	<1	470	<1	20	<10	48.6	256	1.2
0347-1	7	15	<1	470	<1	2	<10	16.8	68	0.5
0347-2	<5	8	<1	650	<1	1	<10	7.3	27	<0.5
0347-3	<5	12	<1	1230	<1	2	<10	8.1	8	<0.5
0347-4	<5	13	<1	1280	<1	2	<10	7.9	19	<0.5
0348-1	34	368	<1	540	<1	69	<10	51.4	62	0.6
0348-2	38	359	<1	620	<1	72	<10	57.2	79	0.6
0348-3	33	358	<1	460	<1	60	<10	65.2	77	0.7
0348-4	29	373	<1	530	<1	62	<10	56.6	90	0.8
0349-1	<5	4	<1	5260	<1	<1	<10	1.7	<3	<0.5
0349-2	<5	4	<1	5310	<1	<1	<10	1.8	<3	<0.5
0349-3	<5	4	<1	5360	<1	<1	<10	3.0	<3	<0.5
0349-4	<5	9	<1	5360	<1	2	<10	6.5	<3	<0.5
0350-1	<5	46	<1	2860	<1	6	<10	32.4	38	1.0
0350-2	26	90	<1	960	<1	14	<10	47.8	72	1.0
0350-3	17	80	<1	1020	<1	12	<10	38.4	52	1.4
0350-4	18	71	<1	640	<1	11	<10	54.3	97	1.2
0351-1	<5	5	<1	1070	<1	<1	<10	9.0	46	<0.5
0351-2	13	28	<1	330	<1	4	<10	39.2	89	0.6
0351-3	15	53	<1	430	<1	7	<10	37.7	78	0.9
0351-4	7	28	<1	5060	<1	4	<10	12.7	<3	<0.5
0354-1	26	18	2	110	<1	3	<10	56.0	2110	0.7
0354-2	17	18	2	70	<1	3	<10	67.4	2300	1.1
0354-3	14	29	<1	<10	<1	5	<10	56.6	284	1.5
0354-4	14	30	<1	10	<1	5	<10	58.2	314	1.3
0356-1	<5	4	<1	2230	<1	<1	<10	5.1	48	0.5
0356-2	<5	4	<1	1660	<1	<1	<10	5.0	72	0.5
0356-3	<5	7	<1	750	<1	1	<10	14.0	199	0.8
0356-4	<5	9	<1	630	<1	1	<10	20.0	330	0.8
0357-1	10	11	<1	730	<1	2	<10	15.4	360	<0.5
0357-2	9	17	<1	380	<1	3	<10	39.9	447	1.0
0357-3	10	27	<1	290	2	5	20	24.3	101	1.7
0357-4	11	42	<1	330	<1	7	<10	25.3	75	1.5

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Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0358-1	21	58	<1	230	<1	10	<10	35.4	431	0.8
0358-2	20	51	<1	200	<1	8	<10	77.2	448	0.9
0358-3	22	49	<1	220	<1	7	<10	89.3	547	0.7
0358-4	27	48	<1	230	<1	7	<10	130	845	0.9
0359-1	11	9	<1	70	<1	2	<10	14.0	489	<0.5
0359-2	18	15	1	220	<1	2	<10	39.2	1400	0.7
0359-3	20	15	1	170	<1	2	<10	39.5	1640	0.5
0359-4	19	14	1	230	<1	2	<10	54.8	1570	0.5
0360-1	37	125	<1	2550	<1	17	<10	90.2	367	1.3
0360-2	89	171	<1	2340	<1	25	<10	135	635	1.3
0360-3	72	151	<1	2490	<1	21	<10	148	841	1.3
0360-4	24	149	<1	6070	<1	25	<10	56.1	6	0.6
0361-1	6	3	<1	3360	<1	<1	<10	4.9	<3	0.6
0361-2	14	8	<1	1130	<1	2	<10	9.2	13	0.6
0361-3	11	6	<1	1290	<1	1	<10	7.1	9	0.6
0361-4	8	4	<1	1670	<1	<1	<10	5.1	7	0.6
0362-1	22	28	<1	210	<1	5	<10	67.2	474	0.9
0362-2	24	35	<1	200	<1	6	<10	70.8	429	0.8
0362-3	33	52	<1	70	<1	7	<10	91.1	777	0.9
0362-4	27	46	<1	70	<1	7	<10	75.8	636	0.8
0363-1	16	36	<1	690	<1	8	<10	46.3	267	<0.5
0363-2	19	23	<1	460	<1	6	<10	84.4	488	<0.5
0363-3	12	27	<1	460	<1	5	<10	45.1	410	<0.5
0363-4	14	29	<1	440	<1	5	<10	54.9	332	0.5
0364-1	15	16	<1	60	<1	3	<10	108	1010	0.6
0364-2	20	30	<1	30	<1	5	<10	100	652	0.6
0364-3	20	31	<1	30	<1	5	<10	82.1	473	0.6
0364-4	20	25	<1	60	<1	4	<10	86.6	641	0.8
0365-1	18	19	2	150	<1	3	<10	51.0	2010	<0.5
0365-2	28	32	<1	20	<1	5	<10	86.1	174	<0.5
0365-3	30	41	<1	30	<1	6	<10	96.5	197	<0.5
0365-4	27	34	<1	90	<1	5	<10	80.9	201	<0.5
0366-1	26	23	<1	10	<1	4	<10	113	712	<0.5
0366-2	23	29	<1	70	<1	4	<10	89.5	1130	0.5
0366-3	23	29	<1	70	<1	4	<10	88.7	1010	0.7
0366-4	23	33	<1	80	<1	4	<10	96.9	286	0.8
0367-1	68	125	<1	420	<1	19	<10	178	437	2.0
0367-2	91	202	<1	420	<1	31	<10	134	637	2.6
0367-3	118	249	<1	700	<1	38	<10	164	706	2.4
0367-4	108	223	<1	1030	<1	35	<10	170	660	2.6
0368-1	19	32	2	440	<1	5	<10	58.0	2180	0.9
0368-2	24	34	<1	170	<1	5	<10	75.0	434	1.0
0368-3	25	53	<1	210	<1	7	<10	53.8	138	1.0
0368-4	30	62	<1	560	<1	9	<10	63.3	602	1.2
0369-1	24	53	<1	330	<1	9	<10	31.8	48	0.9
0369-2	17	39	<1	490	<1	6	<10	44.6	310	1.4
0369-3	22	45	<1	380	<1	7	<10	62.1	414	1.6
0369-4	25	42	<1	420	<1	7	<10	74.0	339	1.7

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Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0370-1	20	17	<1	90	<1	3	<10	110	1060	1.1
0370-2	11	15	<1	80	<1	3	<10	38.3	185	0.8
0370-3	12	22	<1	70	<1	5	<10	32.8	133	0.7
0370-4	13	27	<1	80	<1	5	<10	34.8	205	0.8
*Dup 0343-1	31	32	<1	140	<1	6	<10	99.5	361	0.6
*Dup 0346-1	24	73	<1	310	<1	11	<10	82.0	168	0.8
*Dup 0349-1	<5	3	<1	5510	<1	<1	<10	1.8	<3	<0.5
*Dup 0354-1	23	8	<1	130	<1	2	<10	46.9	1600	<0.5
*Dup 0358-1	25	42	<1	260	<1	8	<10	45.4	429	<0.5
*Dup 0361-1	<5	2	<1	3410	<1	<1	<10	4.3	<3	<0.5
*Dup 0364-1	20	23	2	100	<1	4	<10	117	1690	0.7
*Dup 0367-1	59	132	<1	340	<1	20	<10	153	338	1.6
*Dup 0370-1	20	16	<1	90	<1	3	<10	93.8	1060	0.7
*Std MMISRM14	<5	3	<1	540	<1	<1	<10	15.8	<3	<0.5
*Std MMISRM14	7	4	<1	610	<1	<1	<10	19.0	4	<0.5
*Std MMISRM14	10	5	<1	550	<1	<1	<10	24.2	3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

SGS

Final : 094429 Order: PROJECT: RANCHERIA REGION

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0343-1	25	<1	136	11	890	19
0343-2	44	<1	149	12	370	39
0343-3	62	<1	289	19	590	31
0343-4	63	2	368	24	800	26
0344-1	81	1	690	45	210	24
0344-2	129	1	1030	62	250	12
0344-3	170	2	1220	69	170	9
0344-4	82	1	570	35	440	13
0345-1	17	1	61	5	460	<5
0345-2	19	1	59	4	170	<5
0345-3	23	1	59	4	120	<5
0345-4	14	<1	33	2	240	<5
0346-1	34	1	226	17	510	30
0346-2	33	1	214	16	420	20
0346-3	71	1	551	32	230	19
0346-4	55	1	495	28	320	23
0347-1	19	1	58	6	860	<5
0347-2	12	2	25	3	370	<5
0347-3	30	<1	50	4	90	<5
0347-4	27	1	50	4	190	<5
0348-1	121	2	3080	136	160	15
0348-2	135	2	3350	152	80	16
0348-3	123	2	2290	112	110	21
0348-4	113	2	2390	113	120	17
0349-1	9	3	27	1	150	<5
0349-2	11	3	25	1	100	<5
0349-3	14	2	29	2	140	<5
0349-4	22	3	57	3	200	<5
0350-1	29	<1	139	8	170	7
0350-2	70	<1	335	24	200	16
0350-3	48	<1	257	18	180	13
0350-4	54	<1	249	19	310	17
0351-1	7	<1	16	<1	130	<5
0351-2	21	<1	61	4	150	9
0351-3	25	<1	123	10	190	9
0351-4	22	<1	123	8	<20	<5
0354-1	18	1	63	4	450	43
0354-2	17	2	46	3	260	55
0354-3	32	1	105	7	340	22
0354-4	33	1	105	7	330	24
0356-1	7	<1	13	<1	300	<5
0356-2	8	<1	14	<1	210	<5
0356-3	12	<1	24	2	80	8
0356-4	12	<1	25	2	130	13
0357-1	17	<1	57	4	490	24
0357-2	24	<1	68	5	210	21
0357-3	25	1	96	5	50	14
0357-4	32	2	188	10	20	12

SGS

Final : 094429 Order: PROJECT: RANCHERIA REGION

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0358-1	26	<1	278	14	340	21
0358-2	37	<1	183	11	460	26
0358-3	36	<1	172	10	450	33
0358-4	37	1	159	11	400	44
0359-1	5	<1	52	4	220	16
0359-2	9	<1	48	4	690	42
0359-3	12	<1	50	4	350	36
0359-4	11	<1	43	4	370	33
0360-1	26	<1	402	24	150	35
0360-2	44	<1	680	41	170	48
0360-3	37	<1	545	32	310	54
0360-4	32	<1	792	43	550	13
0361-1	3	<1	42	6	20	<5
0361-2	2	<1	117	11	<20	<5
0361-3	2	<1	82	8	30	<5
0361-4	3	<1	54	6	60	<5
0362-1	18	<1	115	8	320	29
0362-2	20	<1	129	8	280	32
0362-3	27	<1	166	11	100	43
0362-4	21	<1	144	9	50	35
0363-1	33	<1	195	12	970	9
0363-2	49	<1	187	20	1190	14
0363-3	24	<1	96	5	130	16
0363-4	30	<1	98	5	150	19
0364-1	23	<1	57	5	170	37
0364-2	26	<1	94	7	160	39
0364-3	27	<1	125	9	90	33
0364-4	25	<1	94	7	90	35
0365-1	19	<1	68	5	50	34
0365-2	49	<1	84	6	120	48
0365-3	51	2	94	7	140	53
0365-4	34	2	75	5	260	49
0366-1	22	<1	67	5	80	43
0366-2	15	<1	63	4	80	35
0366-3	17	1	63	4	160	29
0366-4	23	<1	68	5	310	33
0367-1	72	1	409	26	230	57
0367-2	84	2	704	46	190	56
0367-3	106	2	848	57	220	60
0367-4	100	2	788	56	240	48
0368-1	13	<1	120	8	290	18
0368-2	22	<1	99	6	70	31
0368-3	27	<1	123	7	230	18
0368-4	24	<1	157	9	390	29
0369-1	43	2	303	23	210	11
0369-2	37	<1	151	12	70	11
0369-3	43	<1	175	14	50	25
0369-4	50	<1	158	13	60	22

SGS

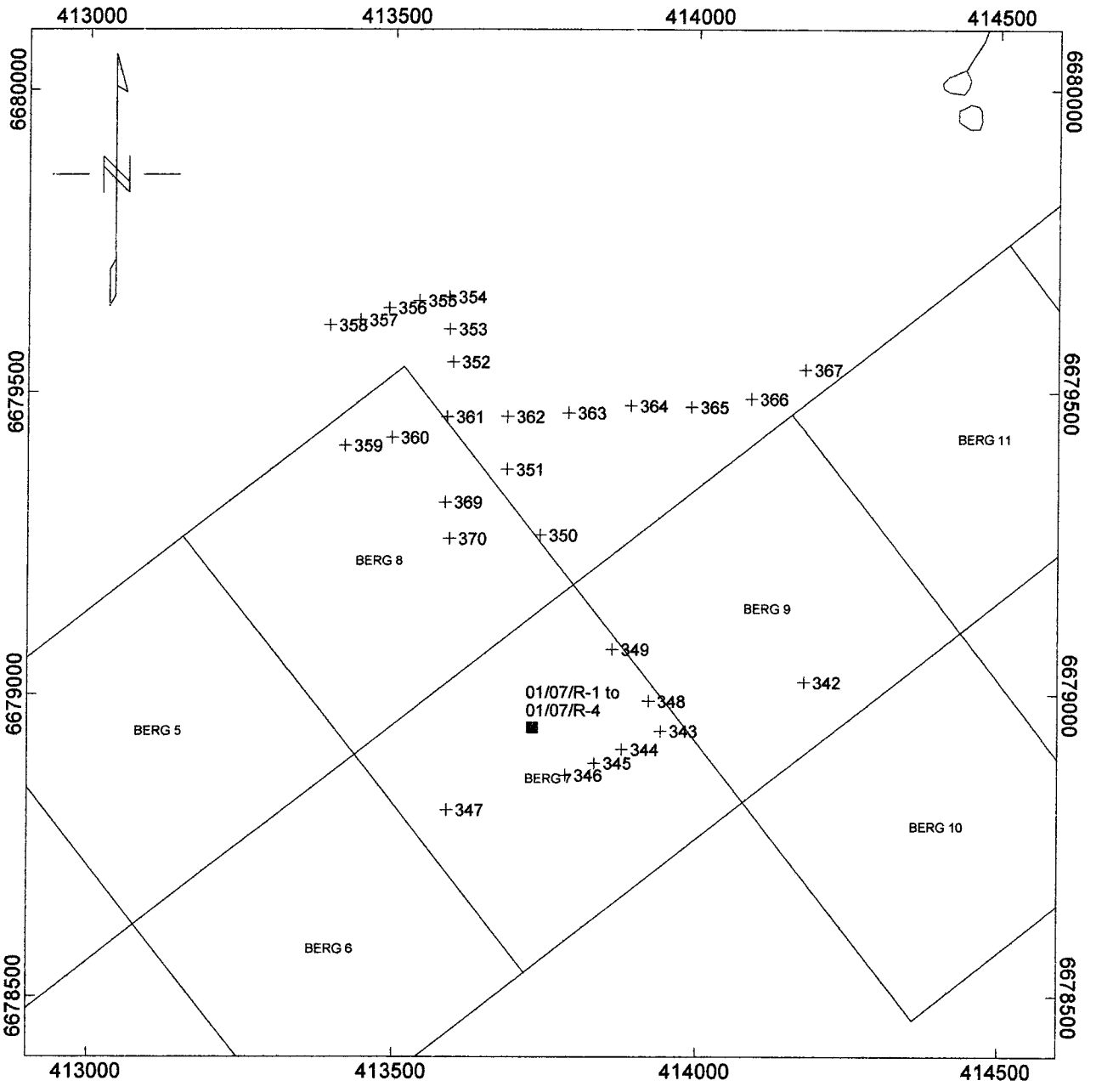
Final : 094429 Order: PROJECT: RANCHERIA REGION

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0370-1	33	<1	63	6	190	33
0370-2	23	<1	97	8	230	10
0370-3	23	<1	122	9	160	10
0370-4	26	<1	129	9	170	11
*Dup 0343-1	32	<1	155	14	810	24
*Dup 0346-1	38	<1	235	20	700	36
*Dup 0349-1	9	2	28	2	160	<5
*Dup 0354-1	17	<1	48	4	360	44
*Dup 0358-1	34	<1	239	15	400	26
*Dup 0361-1	4	<1	43	7	30	<5
*Dup 0364-1	25	<1	76	6	180	60
*Dup 0367-1	63	<1	437	27	190	45
*Dup 0370-1	30	<1	76	7	240	29
*Std MMISRM14	40	<1	8	<1	320	9
*Std MMISRM14	44	<1	10	<1	350	12
*Std MMISRM14	54	<1	14	<1	410	13
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

APPENDIX C

SAMPLE LOCATION MAPS

COLOR COMPILATION MAPS



Blue square - rock sample location
Black plus - soils sample location

Scale 1:10000

100 0 100 200

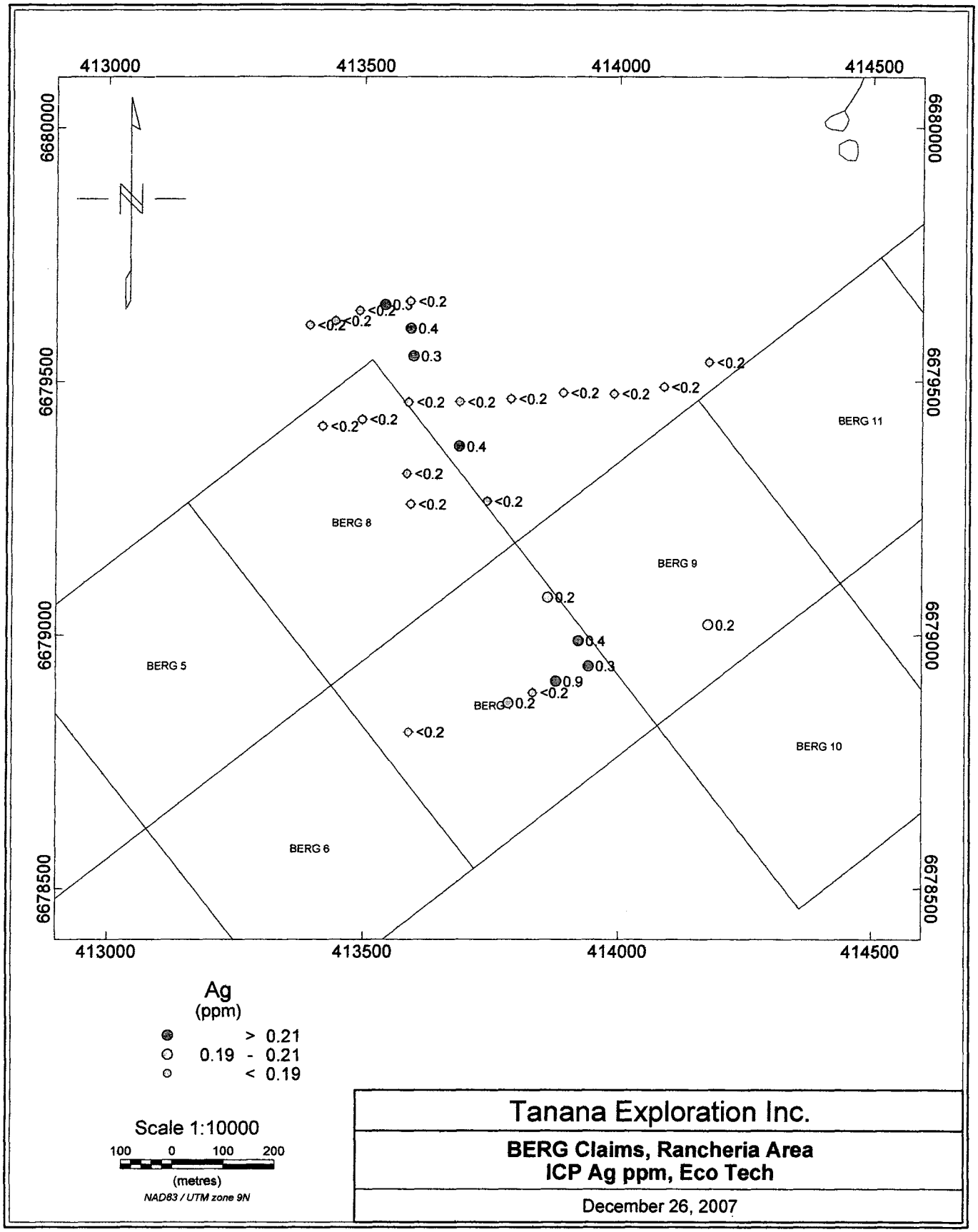
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

BERG Claims, Rancheria Area
Soil Sample Locations for MMI and ICP Surveys
Rock Sample Locations

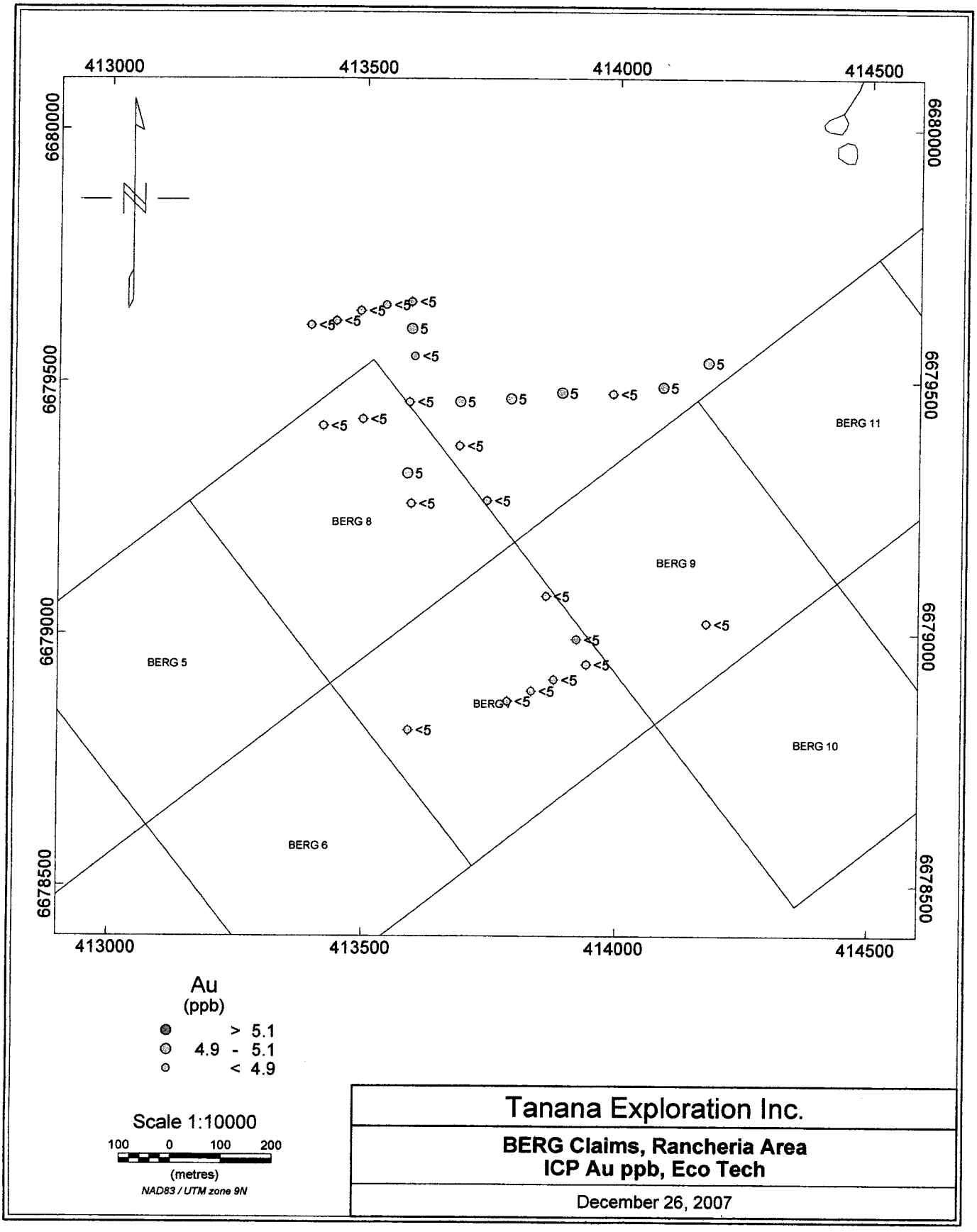
January 6, 2008



Tanana Exploration Inc.

BERG Claims, Rancheria Area
ICP Ag ppm, Eco Tech

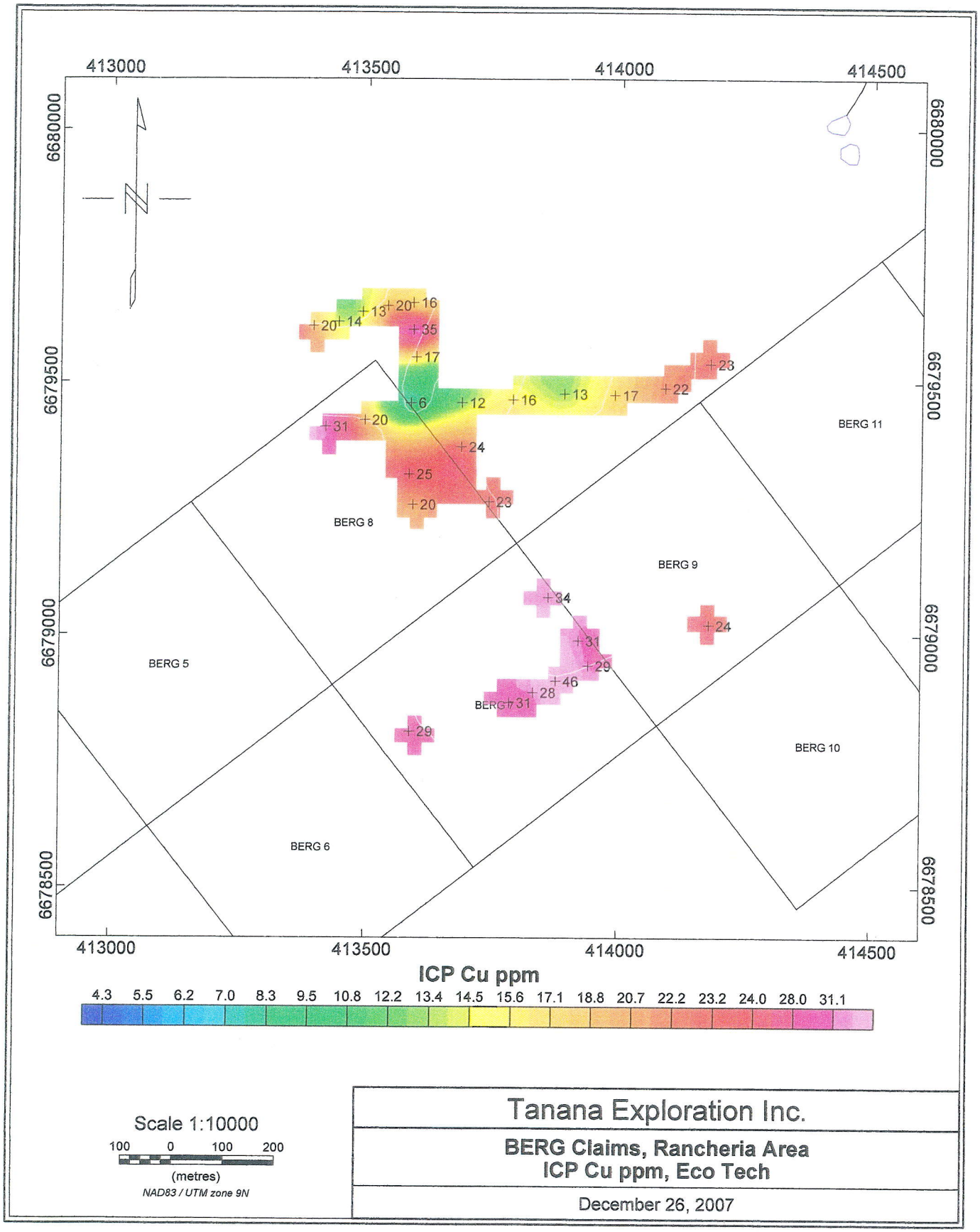
December 26, 2007

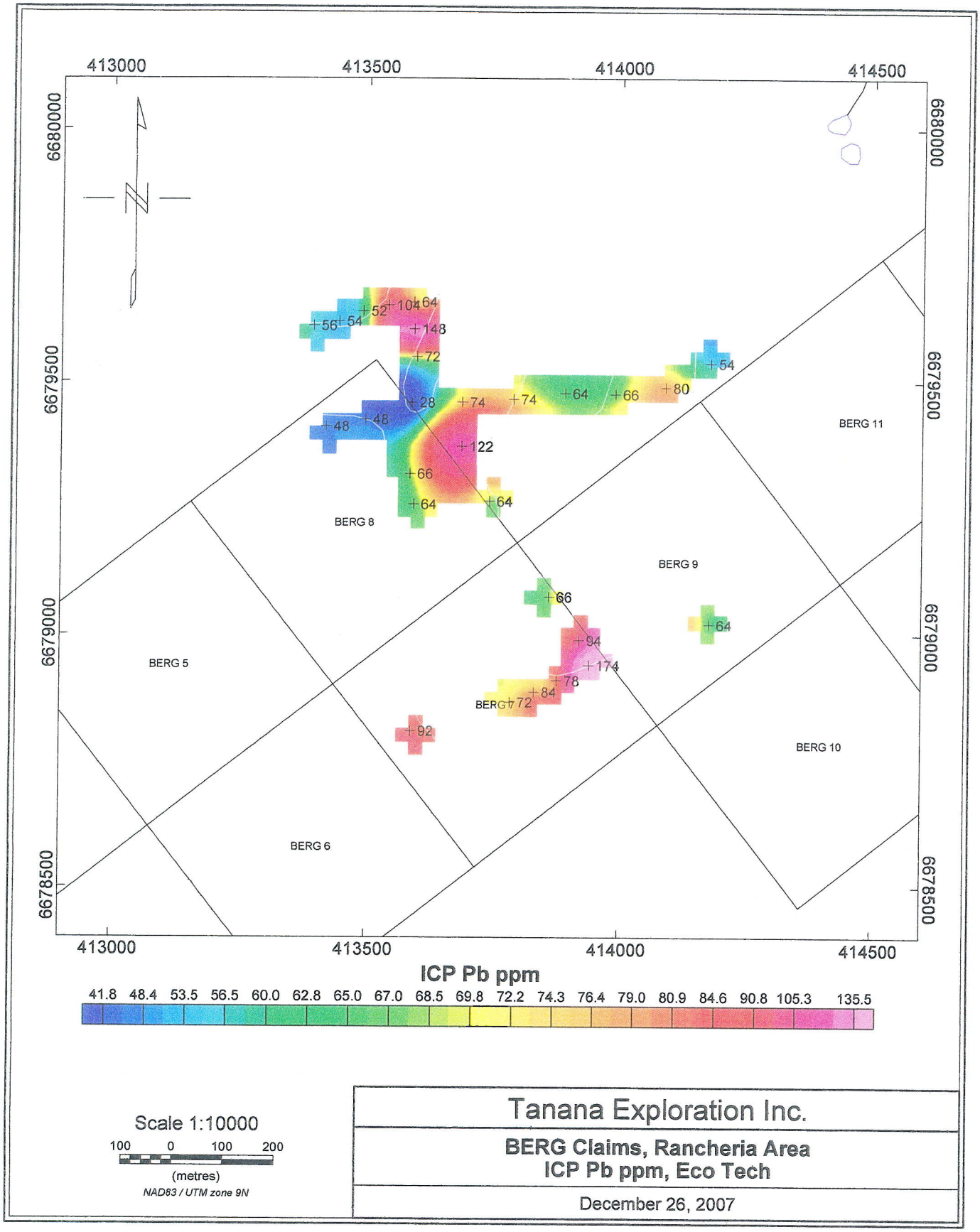


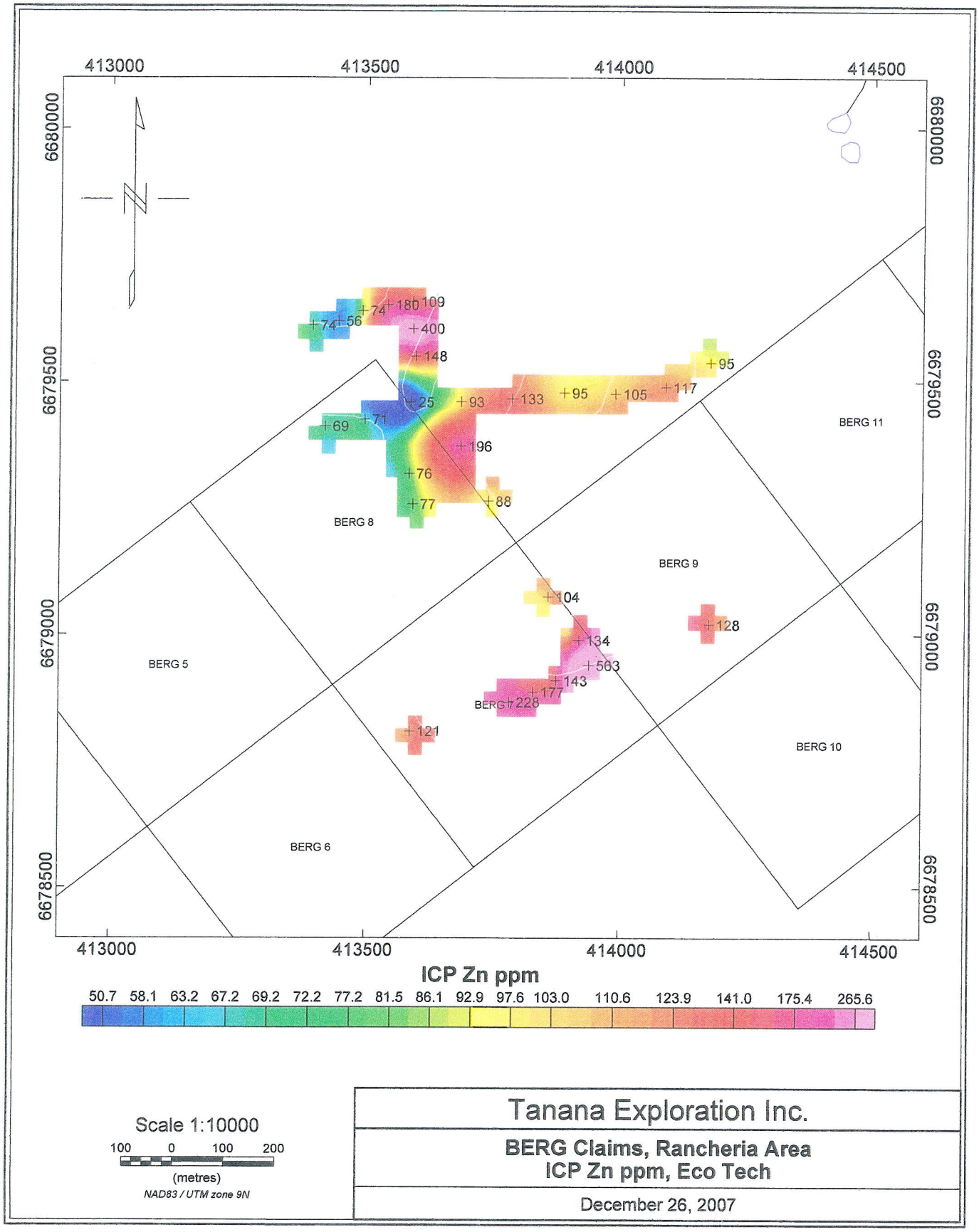
Tanana Exploration Inc.

BERG Claims, Rancheria Area
ICP Au ppb, Eco Tech

December 26, 2007


413000
413500
414000
414500
6680000
6679500
6679000
6678500
+13 +20 +16
+20 +14
+35
+17
+6 +12 +16 +13 +17 +22 +23
+31 +20
+24
+25
+20 +23
BERG 8
BERG 11
BERG 9
+34
+24
+31
+29
+46
+28
BERG 7 +31
+29
BERG 5
BERG 10
BERG 6
ICP Cu ppm
4.3 5.5 6.2 7.0 8.3 9.5 10.8 12.2 13.4 14.5 15.6 17.1 18.8 20.7 22.2 23.2 24.0 28.0 31.1
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
ICP Cu ppm, Eco Tech
December 26, 2007


413000
413500
414000
414500
6680000
6679500
6679000
6678500
BERG 5
BERG 6
BERG 8
BERG 9
BERG 10
BERG 11
BERG 7
64
52
104
56
54
148
72
54
28
74
74
64
66
80
48
48
122
66
64
64
66
94
64
174
78
84
72
92
ICP Pb ppm
41.8 48.4 53.5 56.5 60.0 62.8 65.0 67.0 68.5 69.8 72.2 74.3 76.4 79.0 80.9 84.6 90.8 105.3 135.5
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
ICP Pb ppm, Eco Tech
December 26, 2007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+180
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+74
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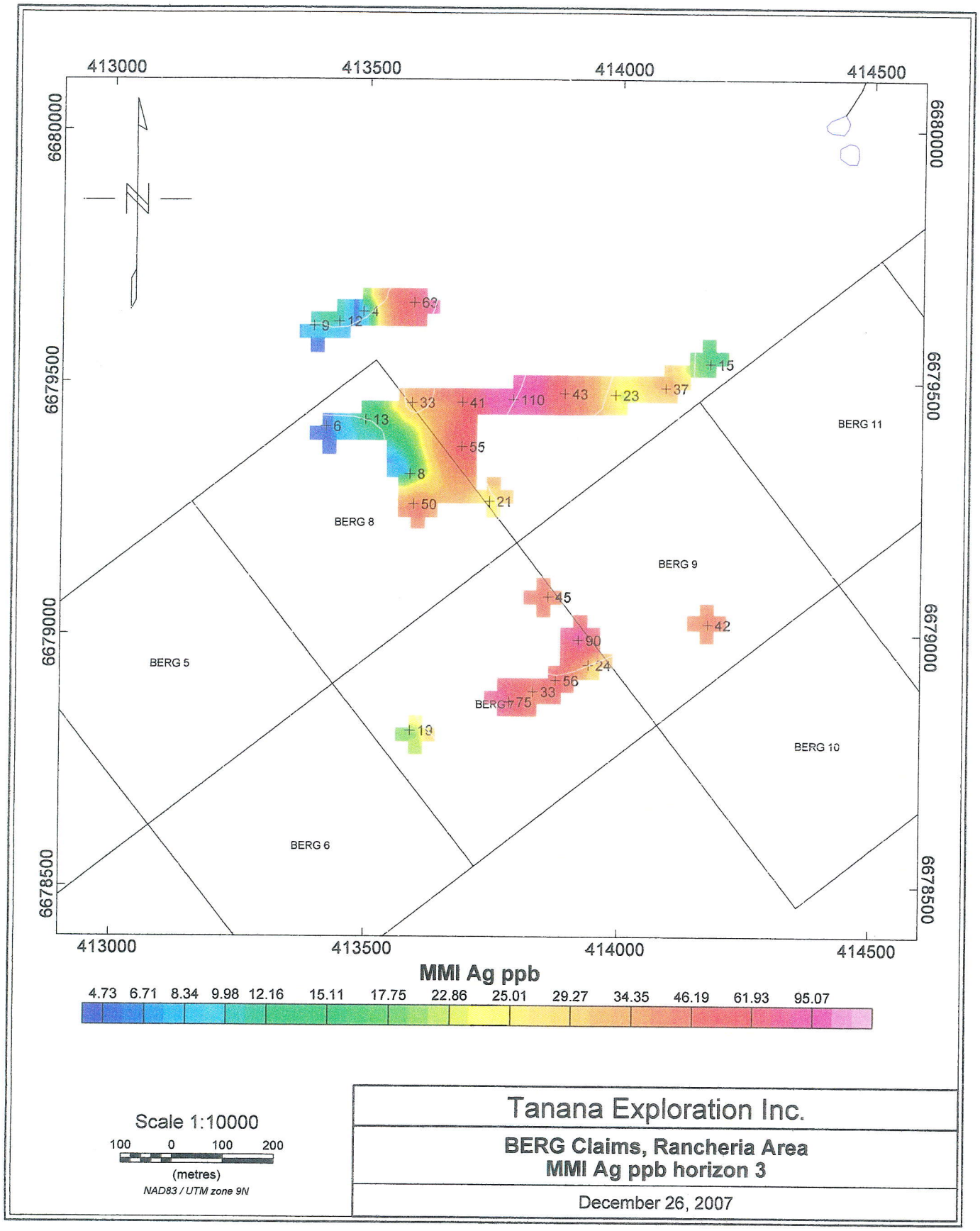
+400
+148
+95
+25
+93
+133
+95
+105
+117
+69
+71
+196
+76
+77
+88
BERG 8
BERG 11
BERG 9
+104
+128
+134
+503
+143
+177
+228
BERG 5
+121
BERG 10
BERG 6
ICP Zn ppm
50.7 58.1 63.2 67.2 69.2 72.2 77.2 81.5 86.1 92.9 97.6 103.0 110.6 123.9 141.0 175.4 265.6
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
ICP Zn ppm, Eco Tech
December 26, 2007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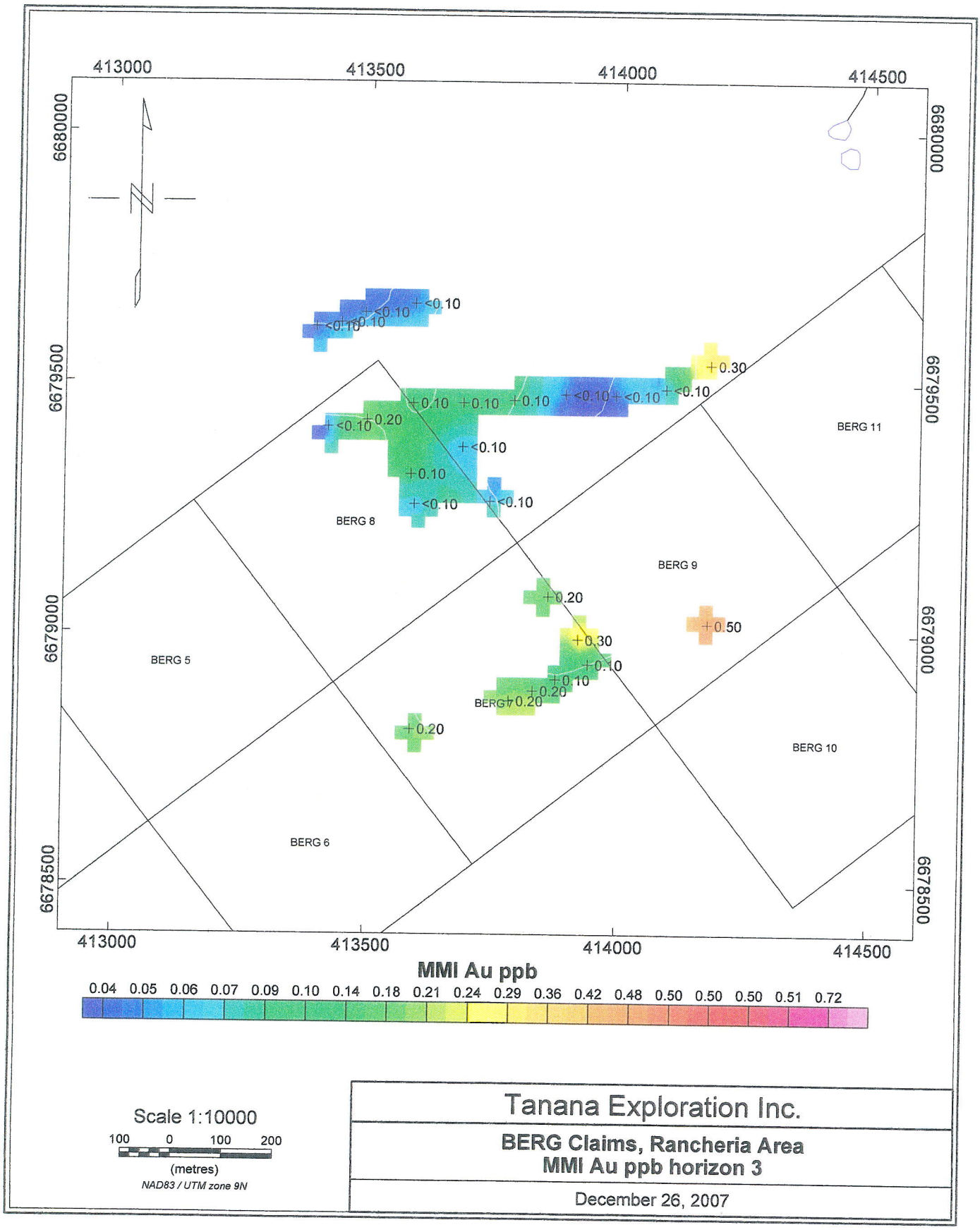
BERG 5
BERG 6
BERG 8
BERG 9
BERG 10
BERG 11
63
4
12
9
15
37
43
23
110
41
33
13
6
55
8
50
21
45
42
90
24
56
33
75
19
MMI Ag ppb
4.73 6.71 8.34 9.98 12.16 15.11 17.75 22.86 25.01 29.27 34.35 46.19 61.93 95.07
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
MMI Ag ppb horizon 3
December 26, 2007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6680000
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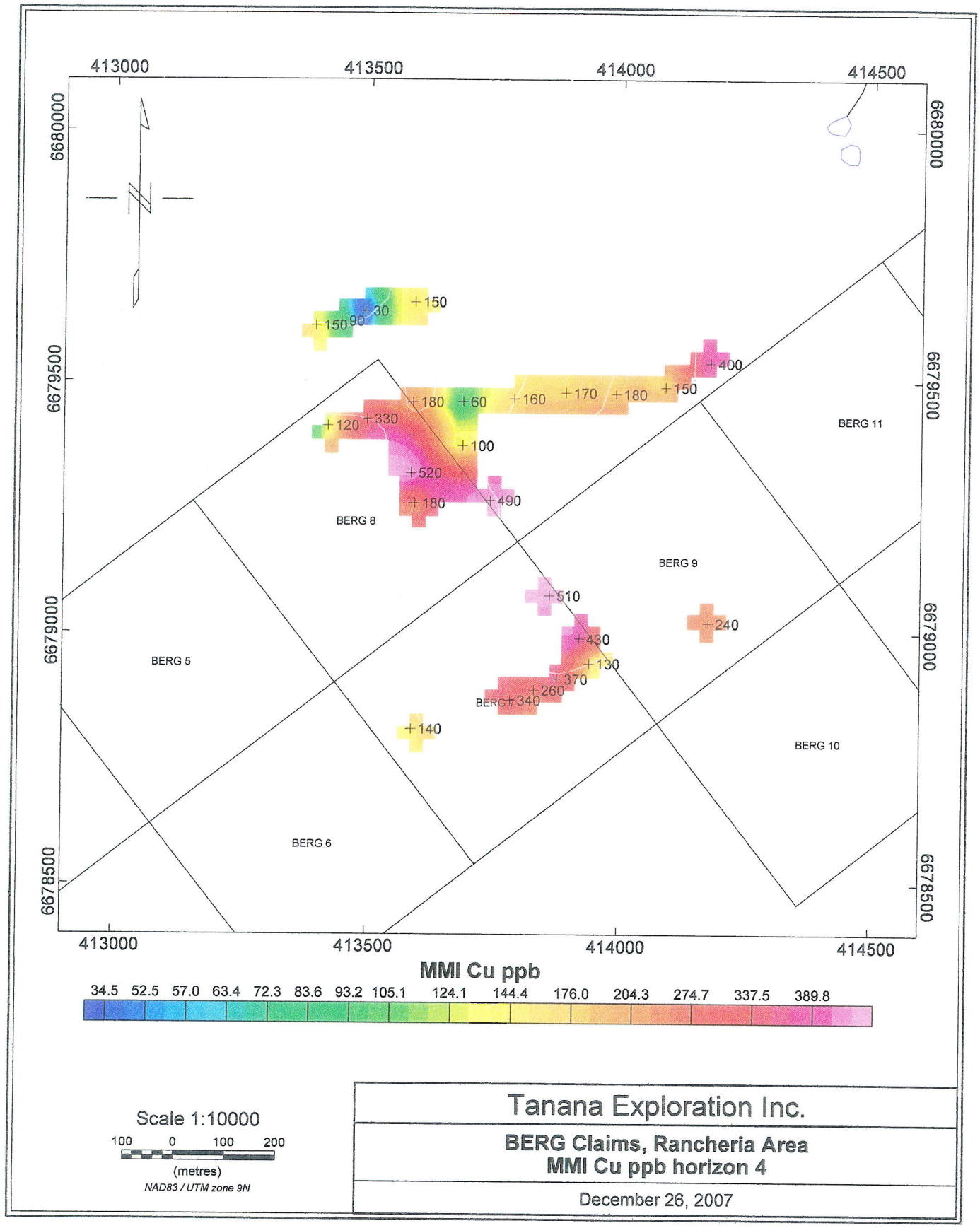
6679000
6678500
BERG 5
BERG 6
BERG 7
BERG 8
BERG 9
BERG 10
BERG 11
<0.10
0.10
0.20
0.30
0.50
MMI Au ppb
0.04 0.05 0.06 0.07 0.09 0.10 0.14 0.18 0.21 0.24 0.29 0.36 0.42 0.48 0.50 0.50 0.50 0.51 0.72
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
MMI Au ppb horizon 3
December 26, 2007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+180
+150
+120
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+520
+180
+490
BERG 8
BERG 11
BERG 9
+510
+240
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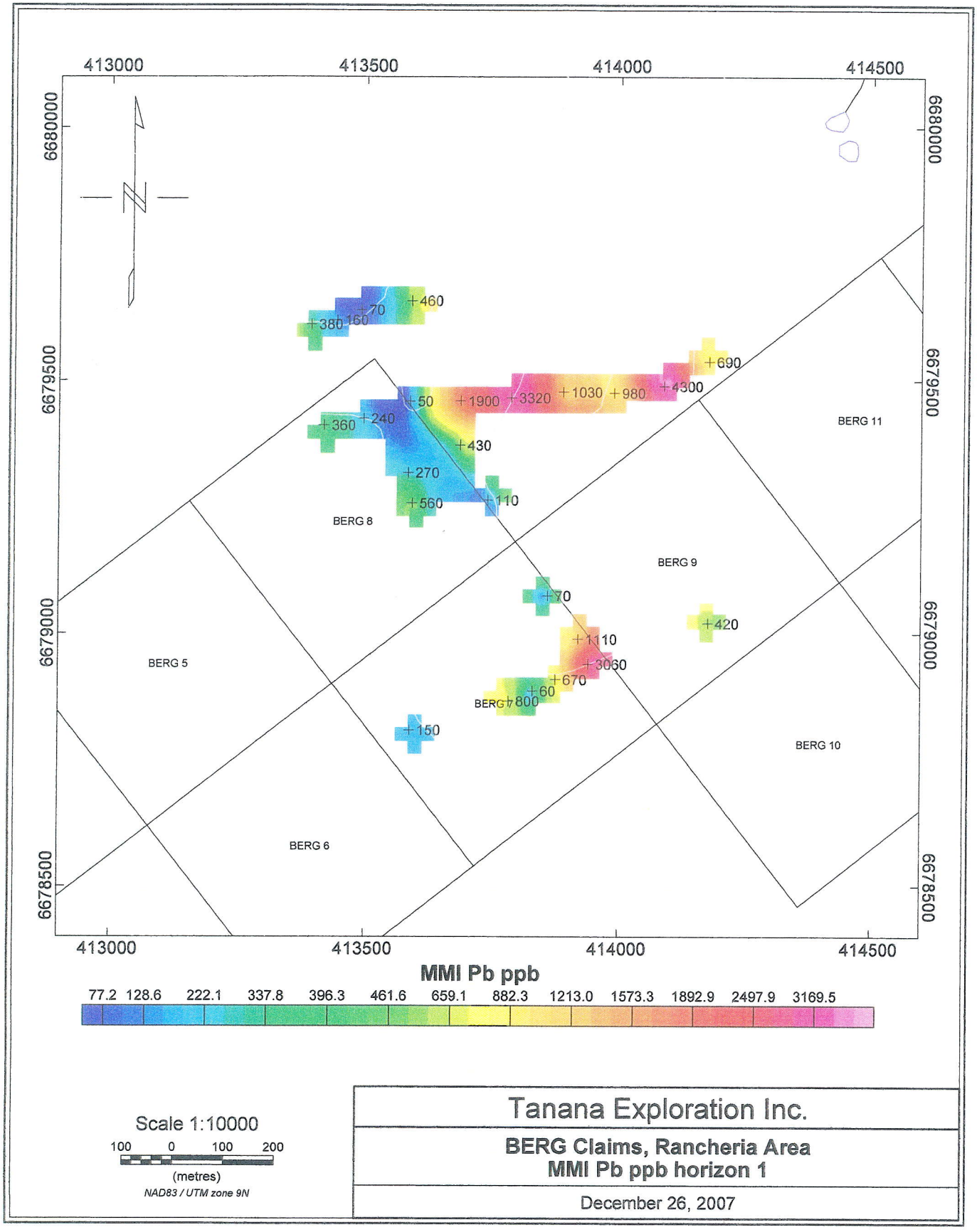
+130
+370
+260
+340
BERG 5
+140
BERG 10
BERG 6
MMI Cu ppb
34.5 52.5 57.0 63.4 72.3 83.6 93.2 105.1 124.1 144.4 176.0 204.3 274.7 337.5 389.8
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
MMI Cu ppb horizon 4
December 26, 2007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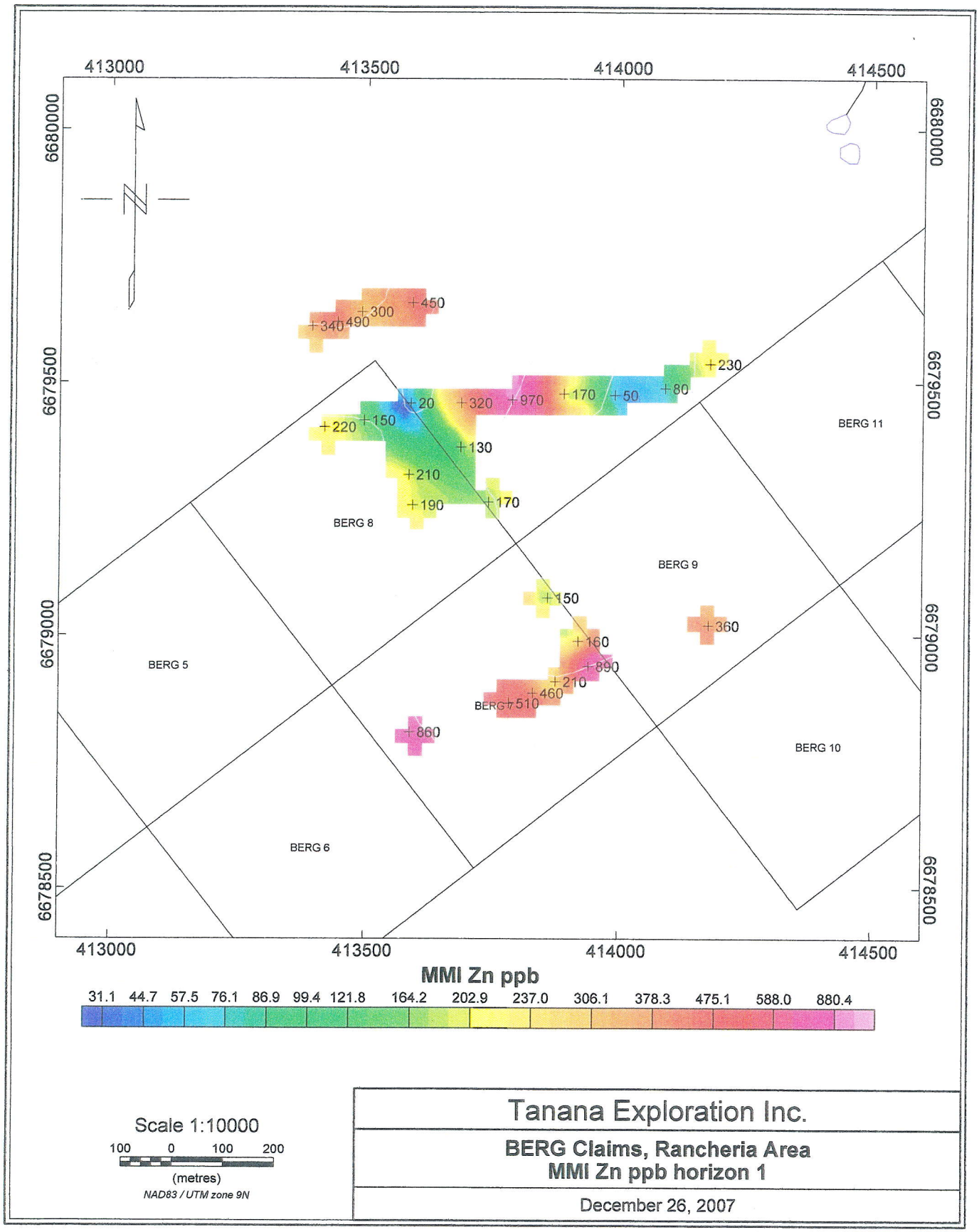
+110
BERG 11
BERG 8
BERG 9
+70
+420
+1110
+3060
+670
+60
+800
BERG 7
+150
BERG 5
BERG 10
BERG 6
MMI Pb ppb
77.2 128.6 222.1 337.8 396.3 461.6 659.1 882.3 1213.0 1573.3 1892.9 2497.9 3169.5
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
MMI Pb ppb horizon 1
December 26, 2007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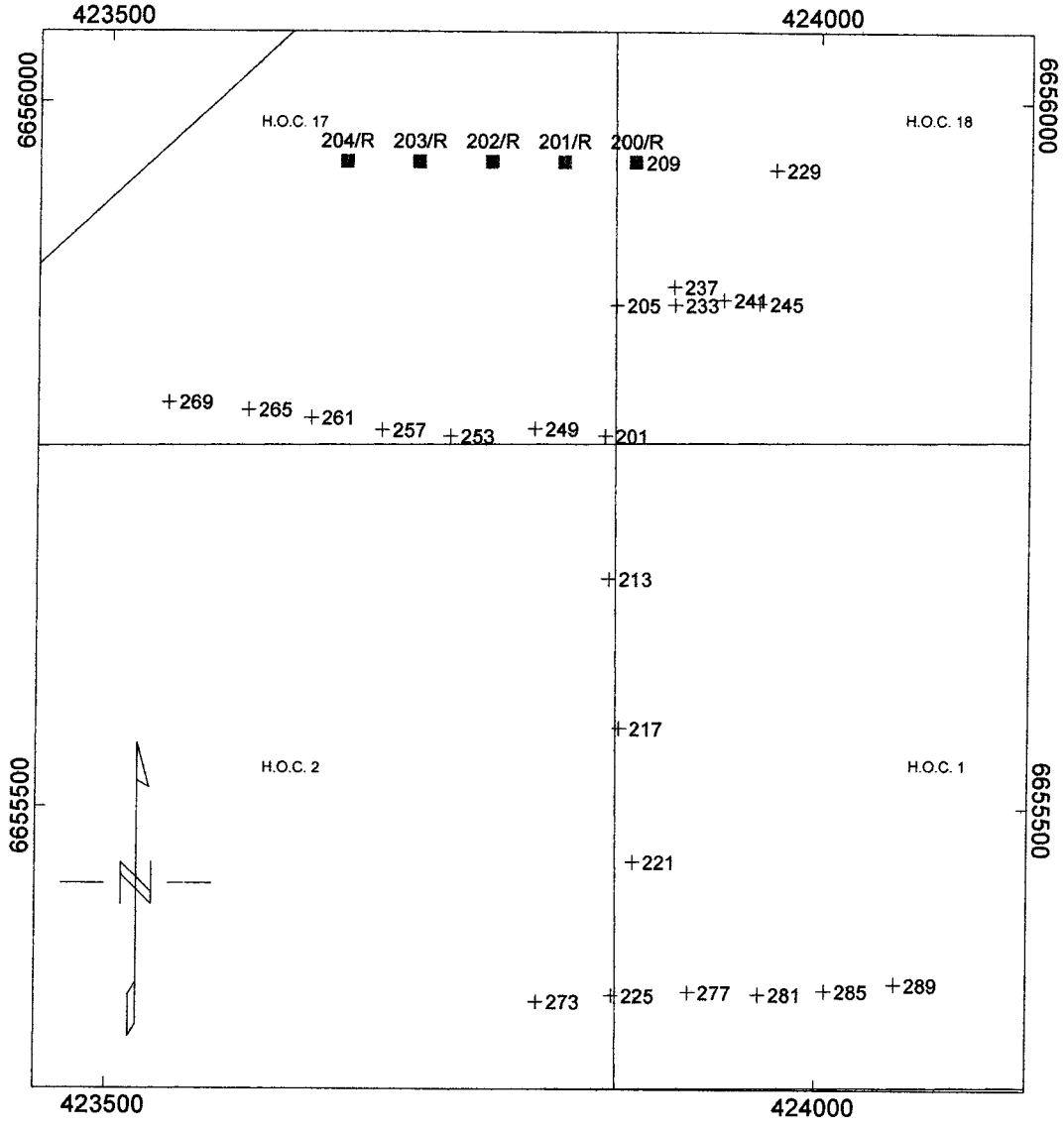
+210
+190
+170
BERG 11
BERG 8
BERG 9
+150
+360
+160
+890
+210
+460
+510
BERG 5
+860
BERG 10
BERG 6
MMI Zn ppb
31.1 44.7 57.5 76.1 86.9 99.4 121.8 164.2 202.9 237.0 306.1 378.3 475.1 588.0 880.4
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
BERG Claims, Rancheria Area
MMI Zn ppb horizon 1
December 26, 2007



Blue square - rock sample location
Black plus - soils sample location

Scale 1:5000

50 0 50 100

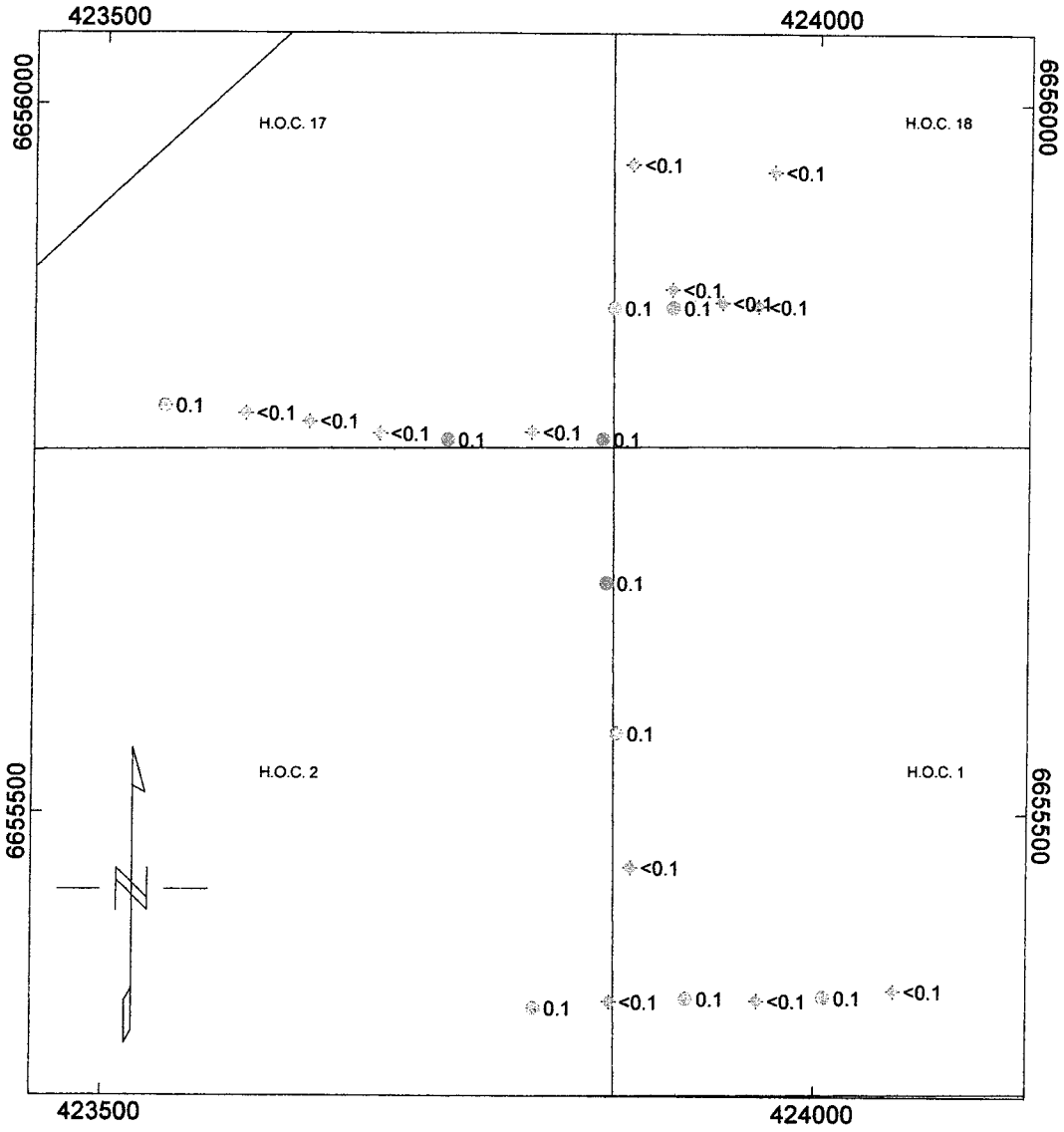
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
Soil Sample Locations for MMI and ICP Surveys
Rock Sample Locations

January 6, 2008



Ag
(ppm)

- > 0.11
- 0.09 - 0.11
- < 0.09

Scale 1:5000

50 0 50 100

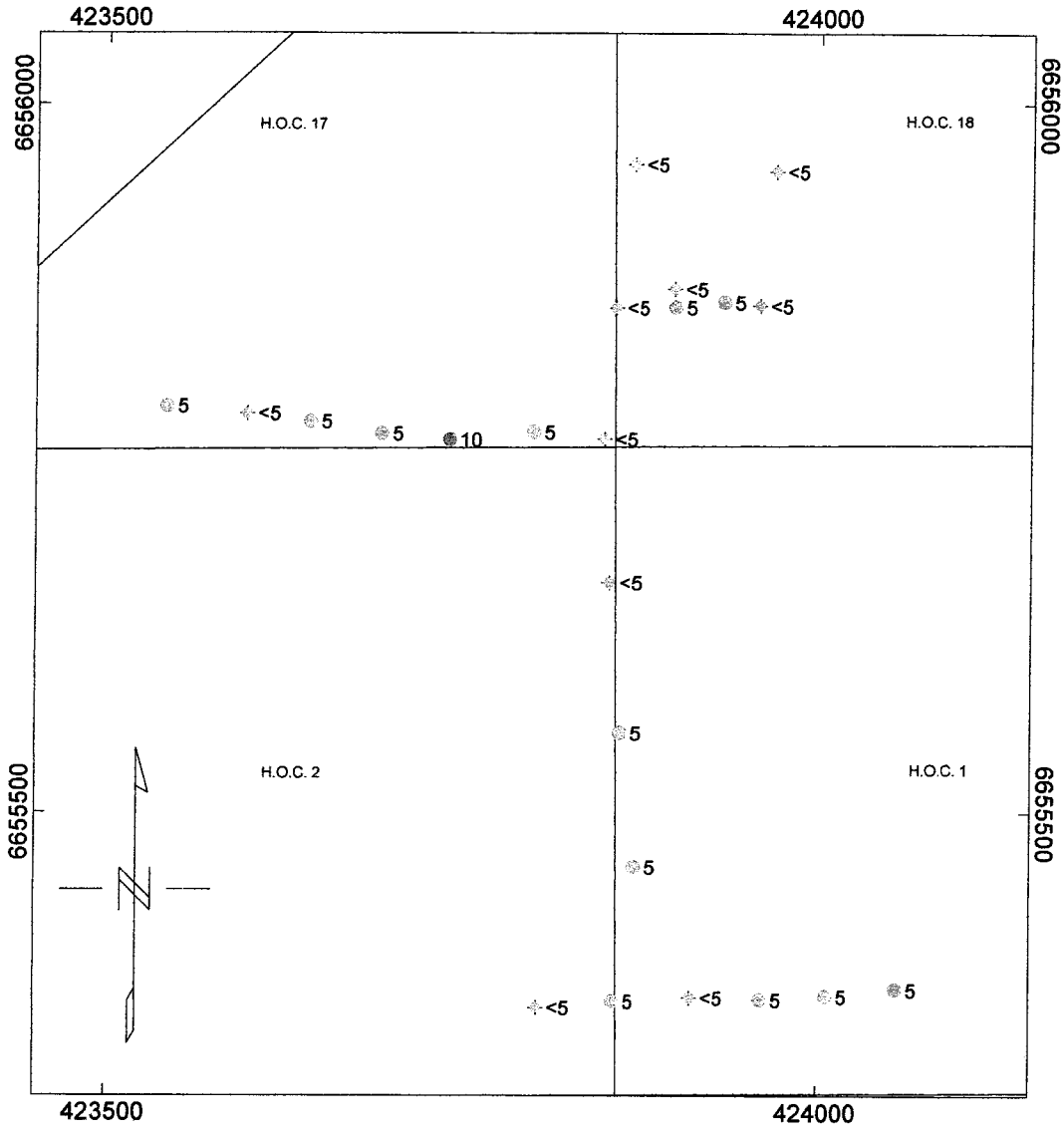
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
ICP MS Ag ppm, Eco Tech

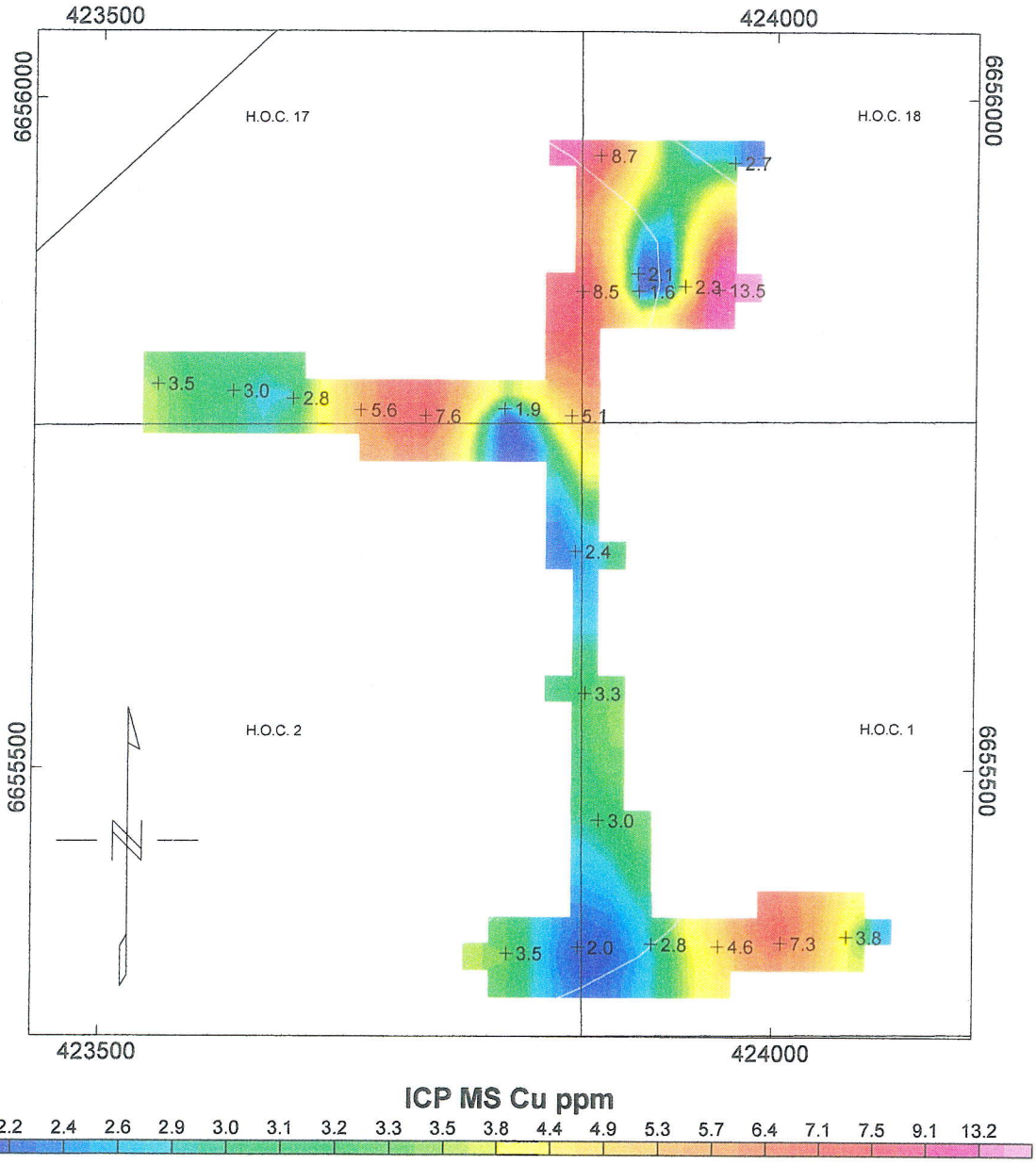
December 28, 2007



Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
ICP MS Au ppb (fire assay), Eco Tech

December 28, 2007



Scale 1:5000

50 0 50 100

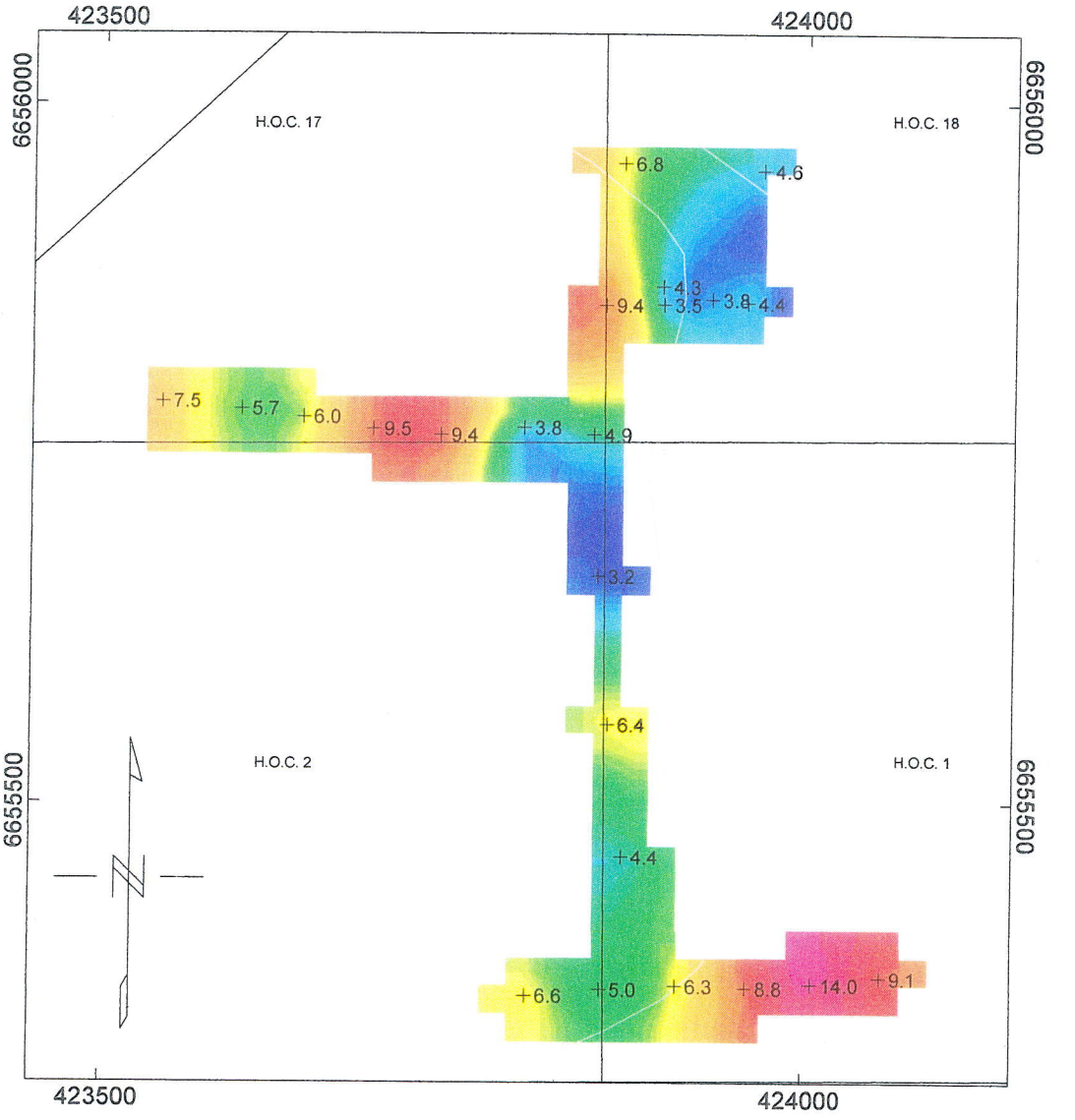
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
ICP MS Cu ppm, Eco Tech

December 28, 2007



Scale 1:5000

50 0 50 100

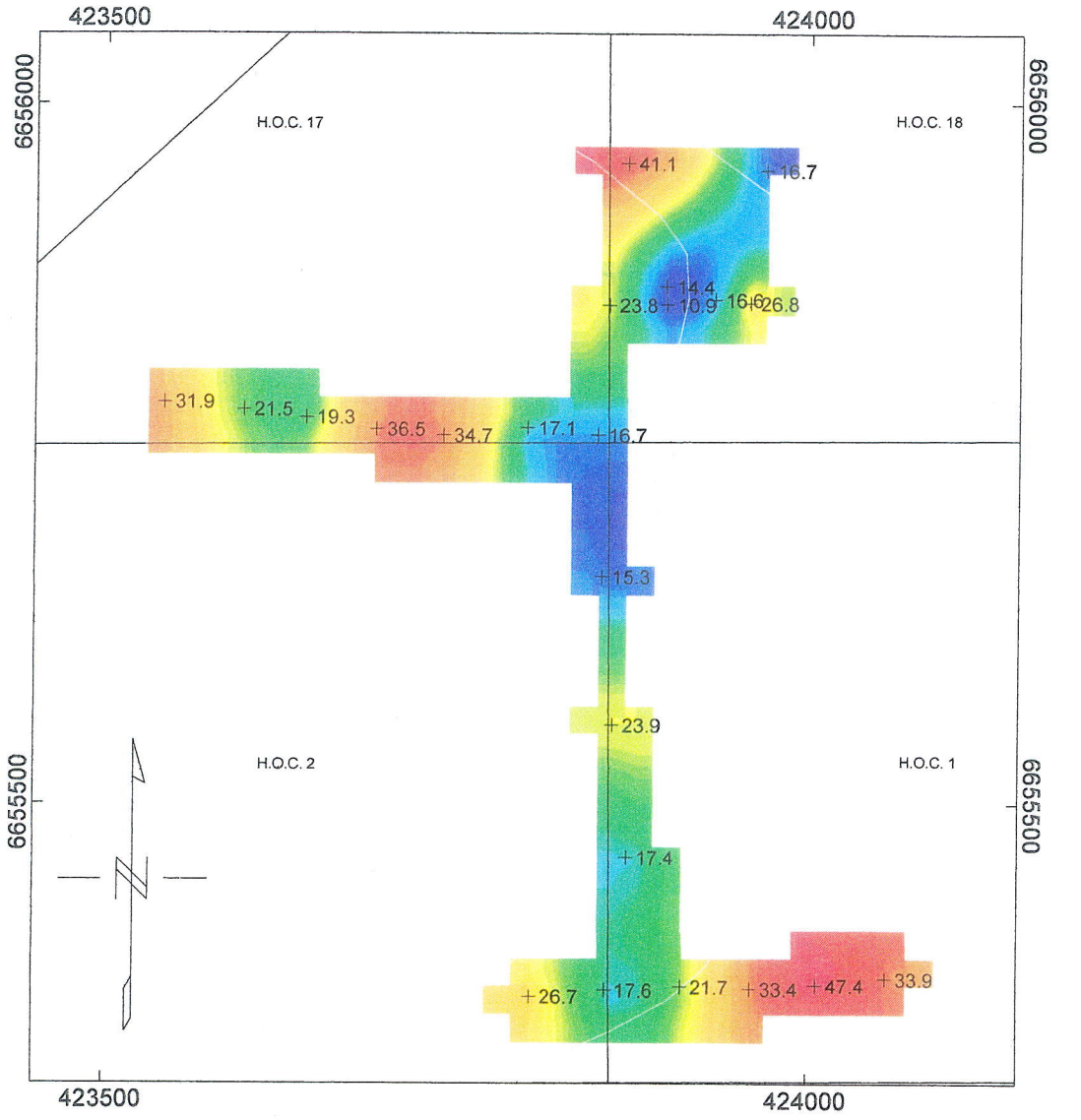
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
ICP MS Pb ppm, Eco Tech

December 28, 2007



ICP MS Zn ppm

14.9 16.2 17.5 18.2 18.9 19.8 20.9 21.5 22.6 23.8 24.8 26.7 30.2 33.5 34.6 38.3 43.4 56.4 76.1

Scale 1:5000

50 0 50 100

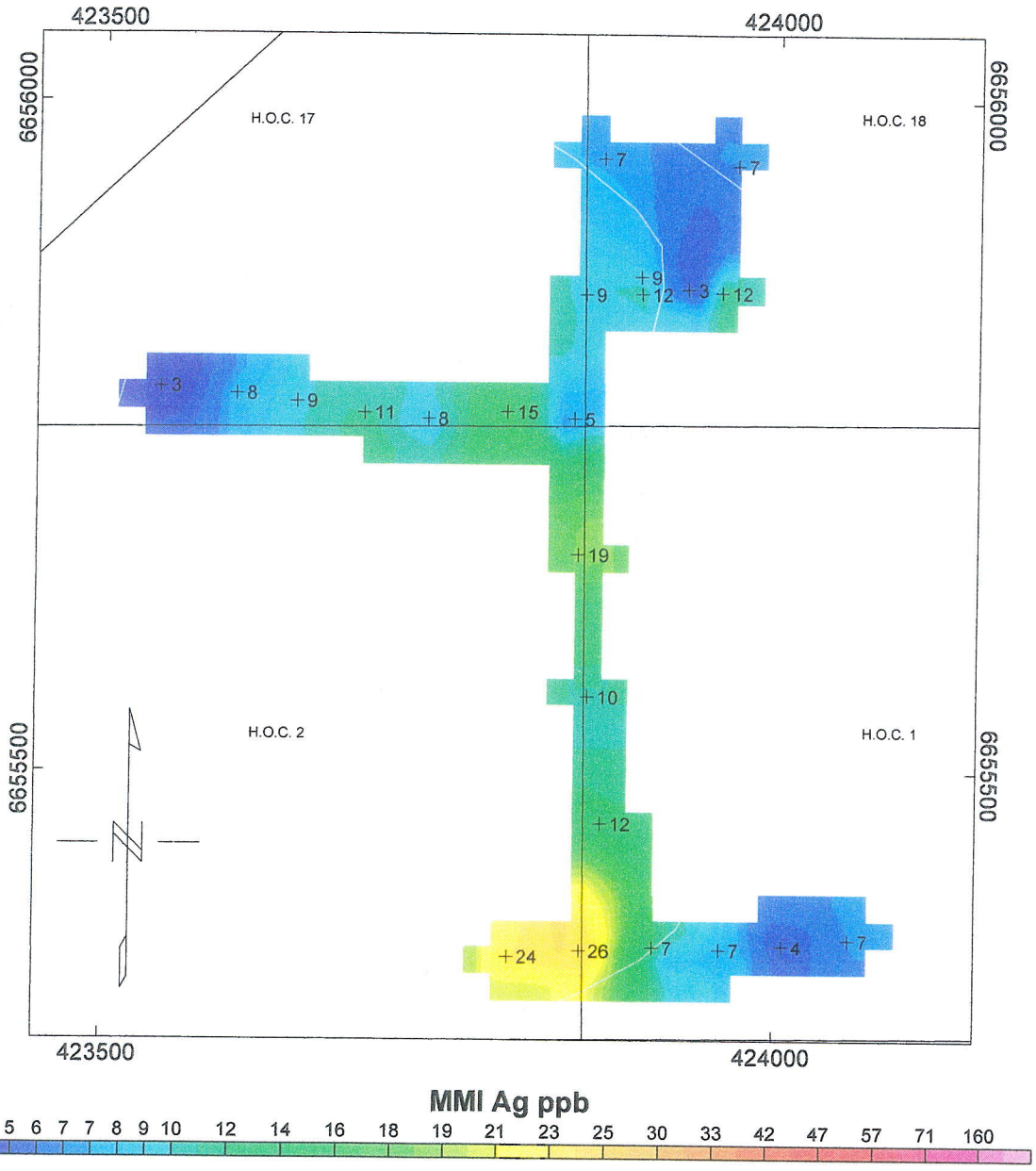
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
ICP MS Zn ppm, Eco Tech

December 28, 2007



MMI Ag ppb

5 6 7 7 8 9 10 12 14 16 18 19 21 23 25 30 33 42 47 57 71 160

Scale 1:5000

50 0 50 100

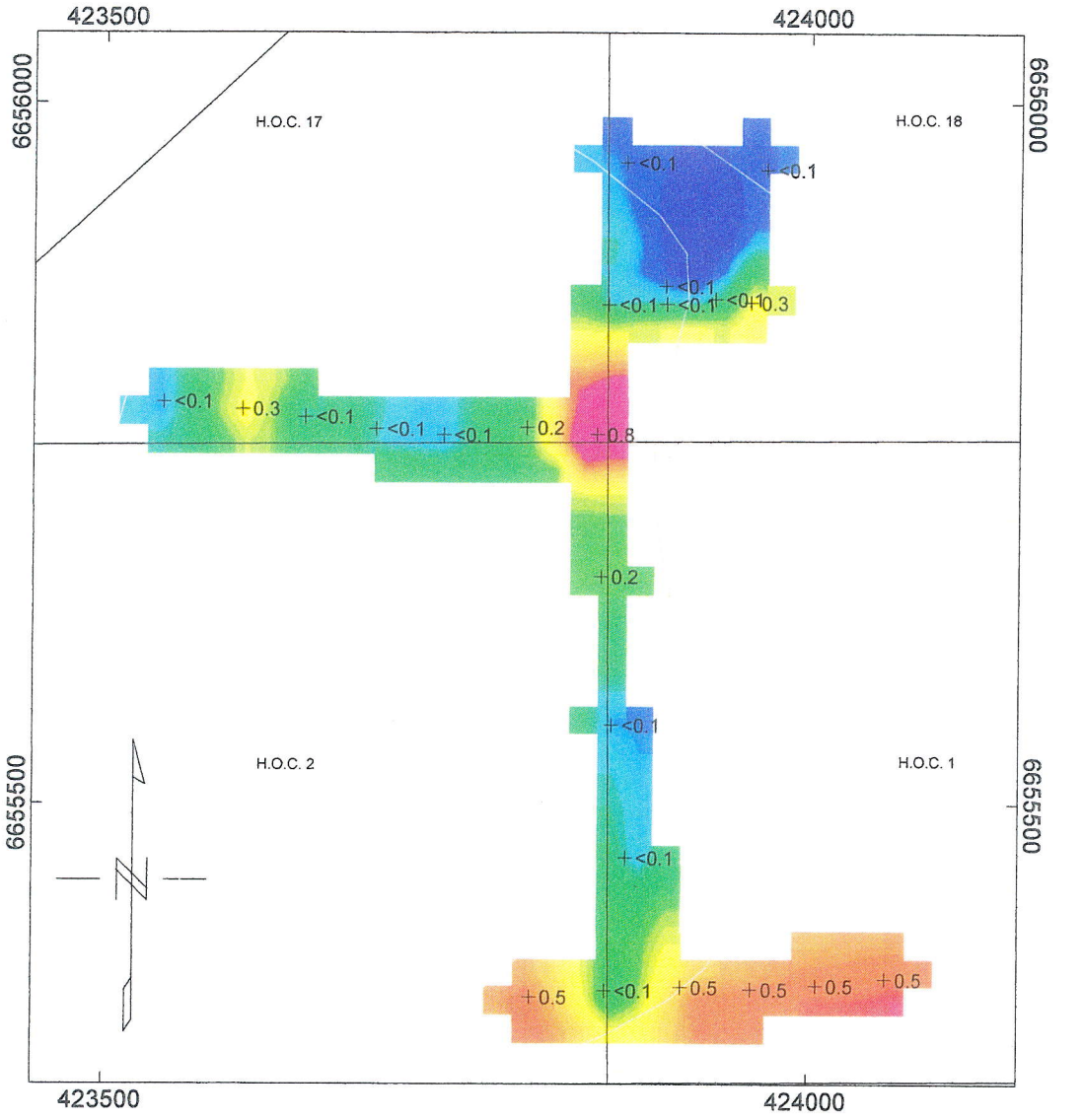
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
MMI Ag ppb horizon 3

December 28, 2007



Scale 1:5000

50 0 50 100

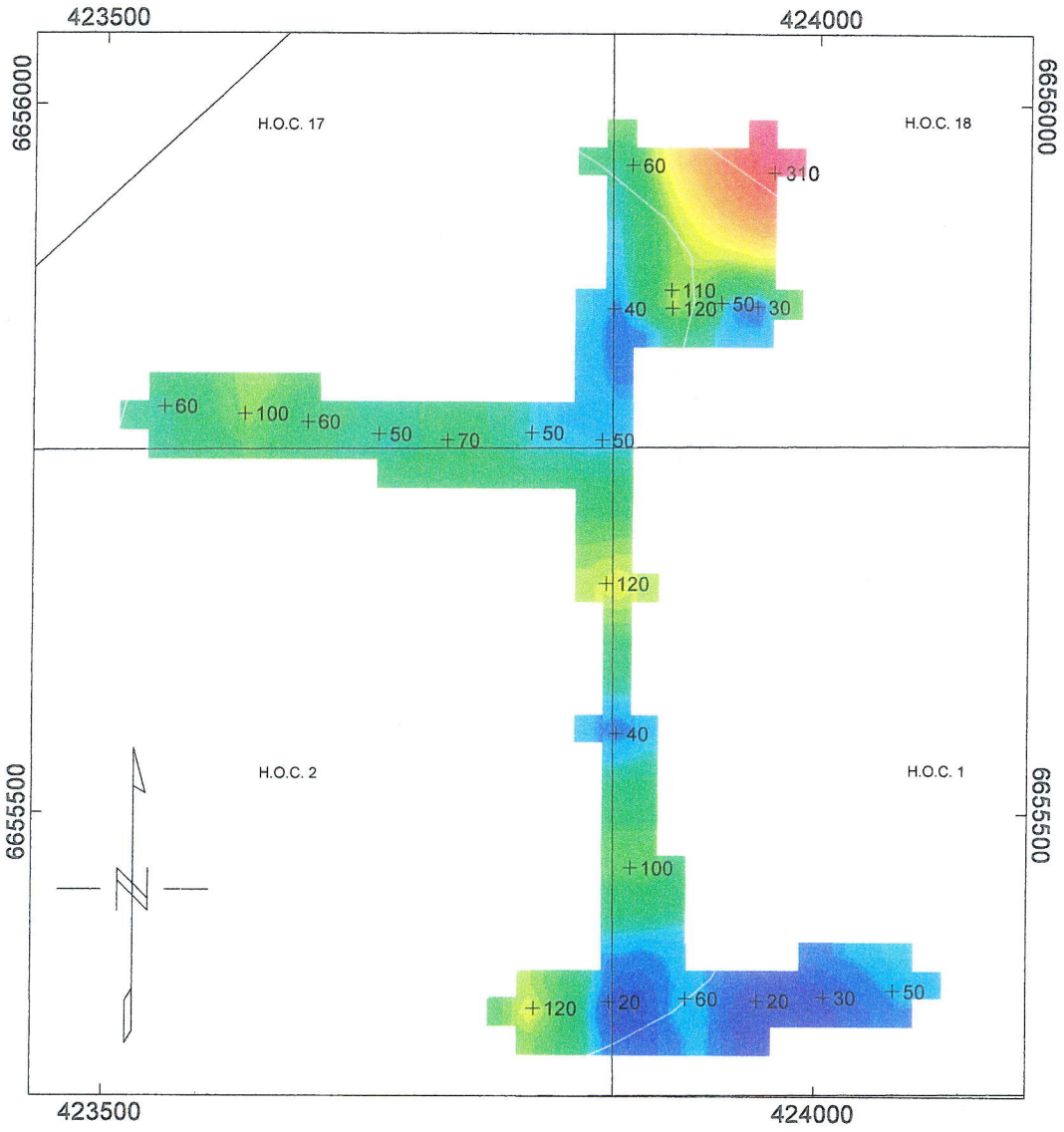
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
MMI Au ppb horizon 3

December 28, 2007



Scale 1:5000

50 0 50 100

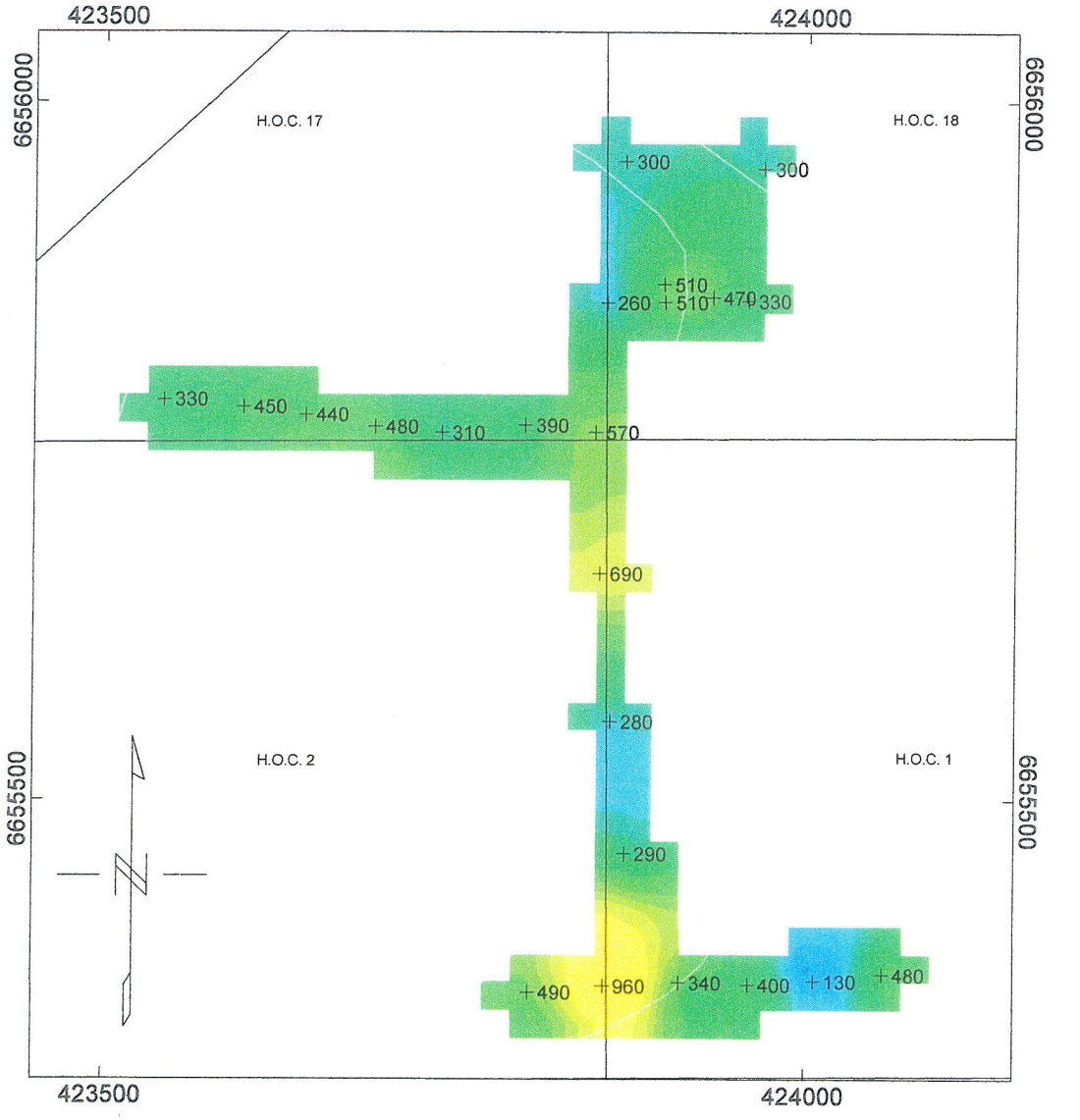
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
MMI Cu ppb horizon 4

December 28, 2007



Scale 1:5000

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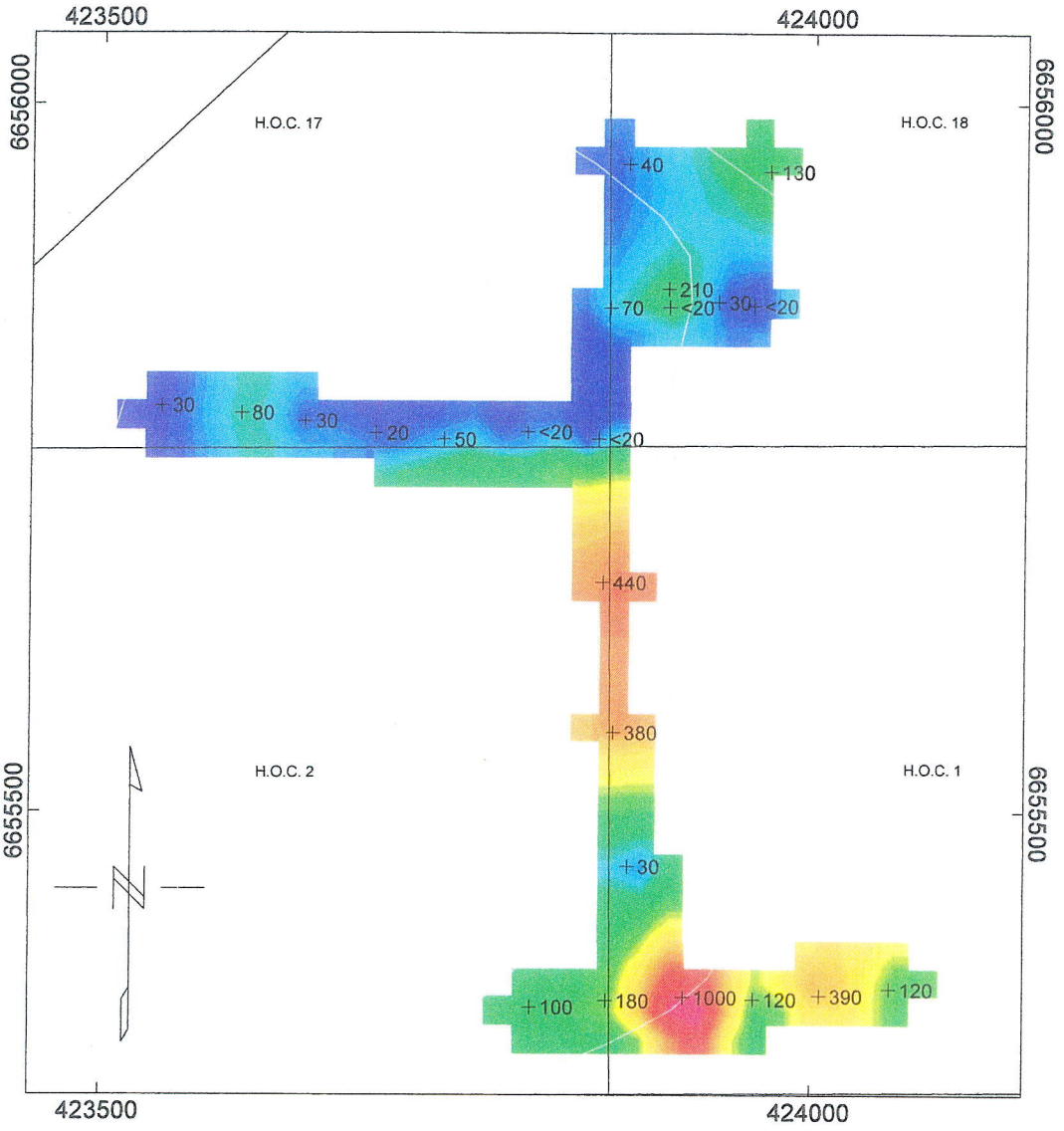
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
MMI Pb ppb horizon 1

December 28, 2007



Scale 1:5000

50 0 50 100

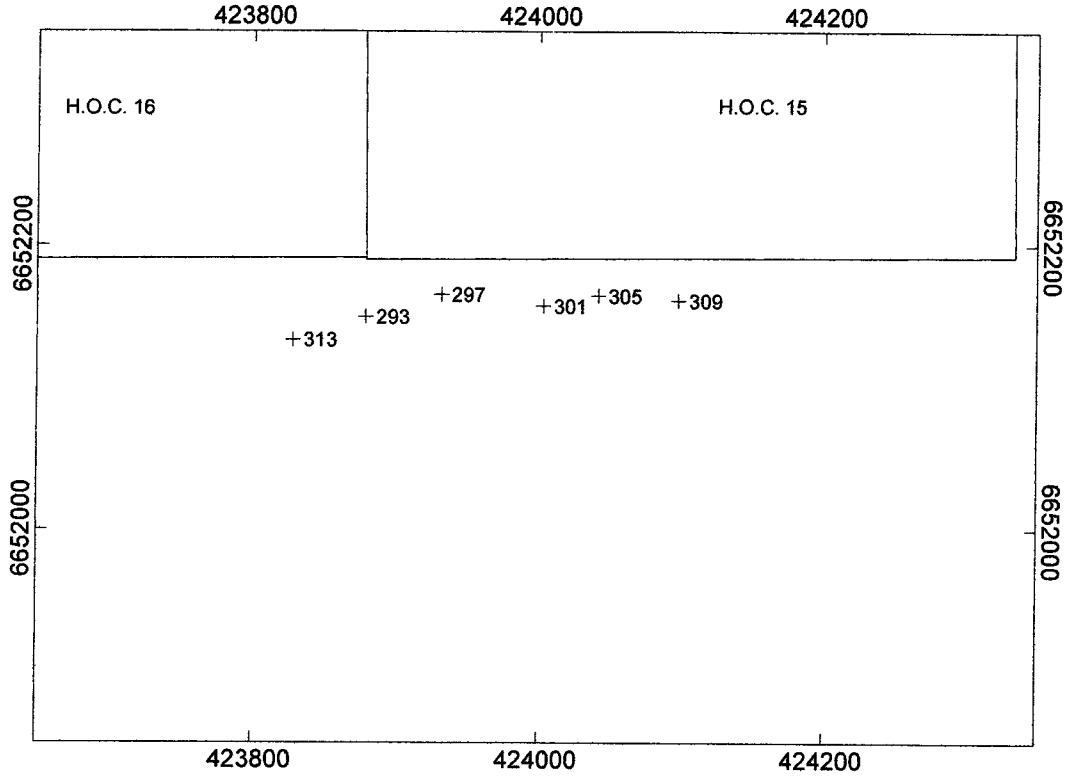
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (north) Rancheria Area
MMI Zn ppb horizon 1

December 28, 2007



Scale 1:5000

50 0 50 100

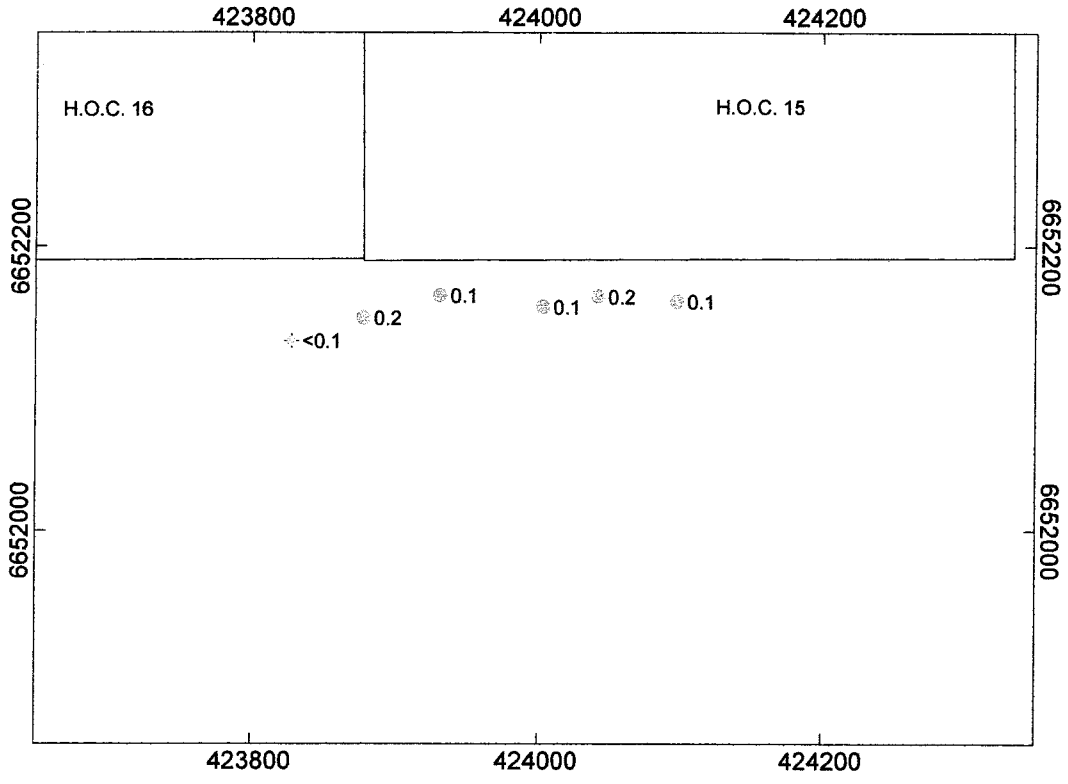
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
Sample Locations for MMI and ICP MS Soil Surveys

December 28, 2007



Ag
(ppm)

> 1.1
0.09 - 1.1
< 0.09

Scale 1:5000

50 0 50 100

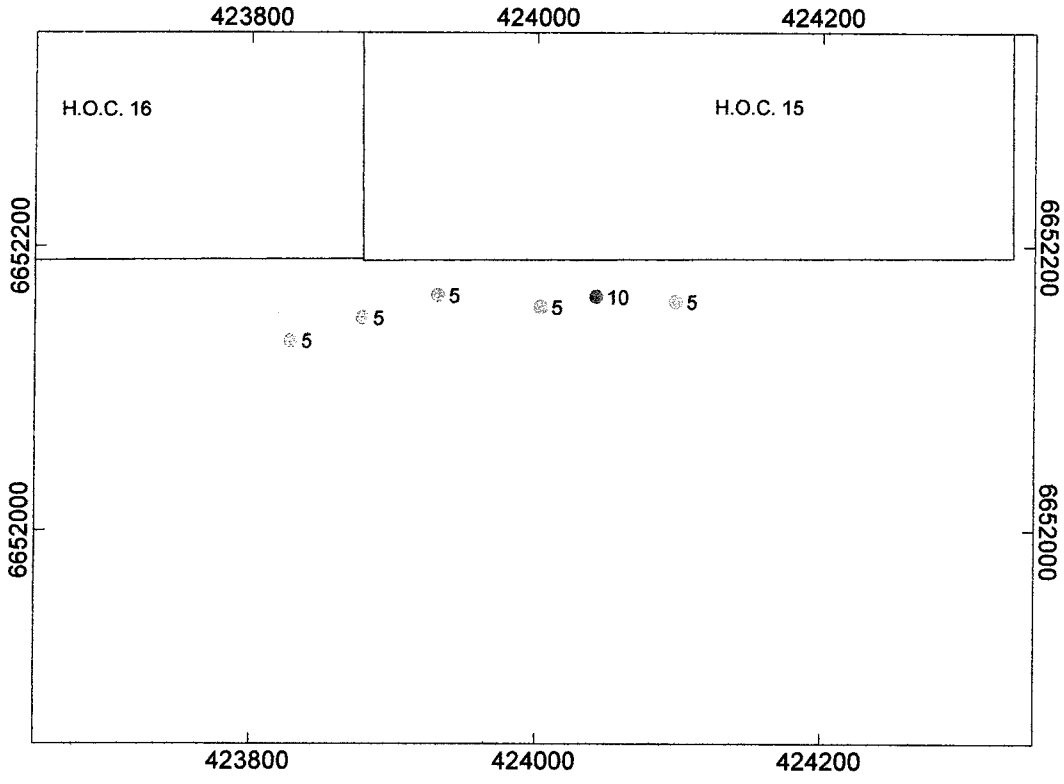
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
ICP MS Ag ppm, Eco Tech

December 28, 2007



Au
(ppb)

- > 5.1
- 4.9 - 5.1
- < 4.9

Scale 1:5000

50 0 50 100

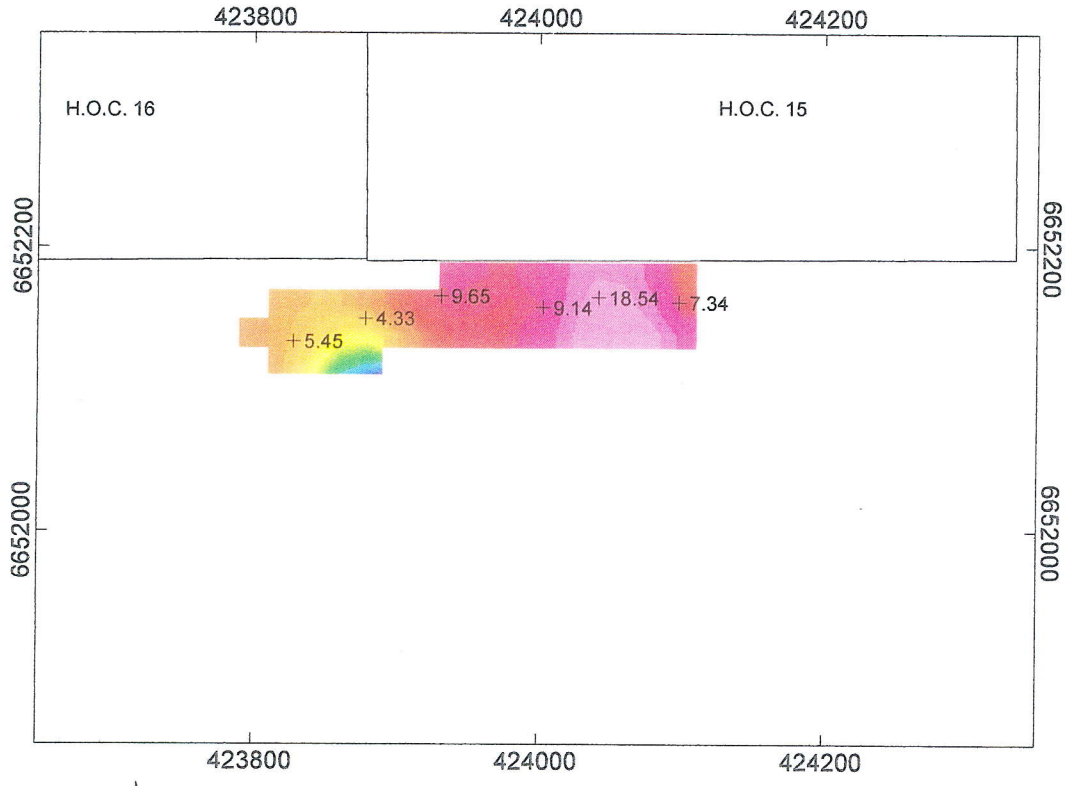
(metres)

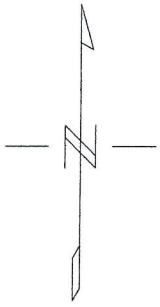
NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
ICP MS Au ppb (fire assay), Eco Tech

December 28, 2007





ICP MS Cu ppm

2.16 2.40 2.63 2.85 2.96 3.09 3.24 3.32 3.54 3.84 4.39 4.89 5.29 5.70 6.39 7.06 7.52 9.13 13.23

Scale 1:5000

50 0 50 100

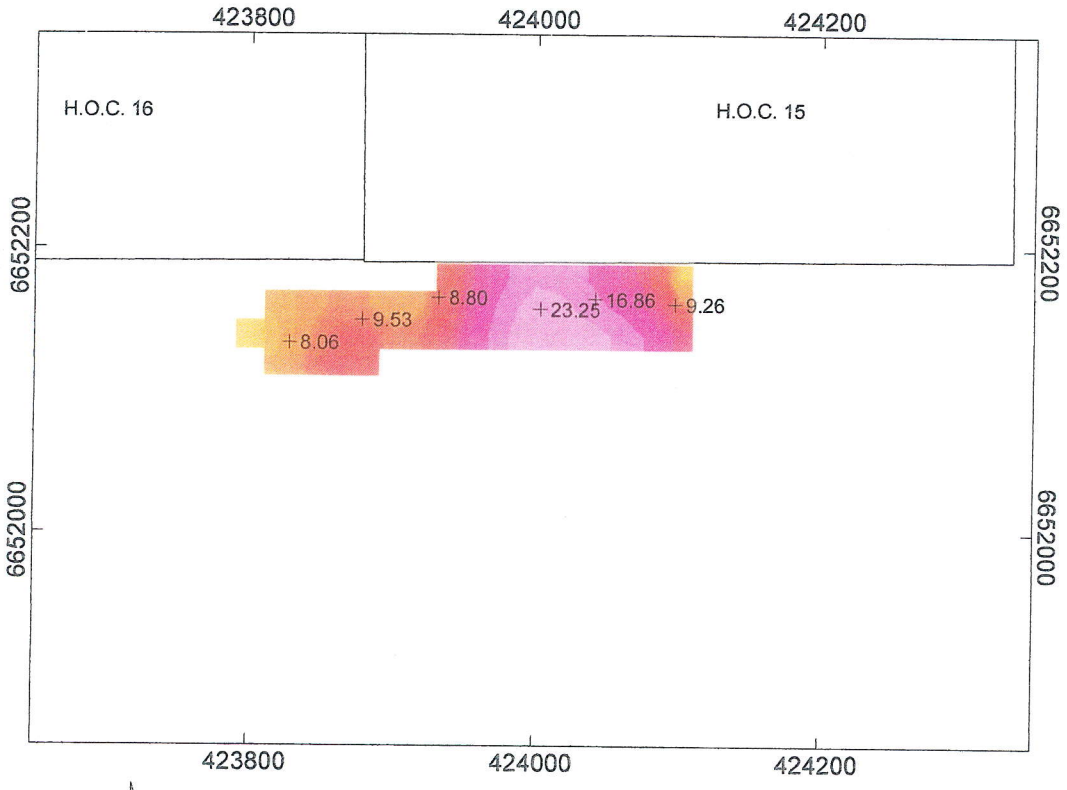
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
ICP MS Cu ppm, Eco Tech

December 28, 2007



ICP MS Pb ppm

3.42 3.69 4.02 4.56 4.90 5.26 5.60 5.82 6.01 6.22 6.64 7.08 7.81 8.46 8.96 9.36 10.34 14.04

Scale 1:5000

50 0 50 100

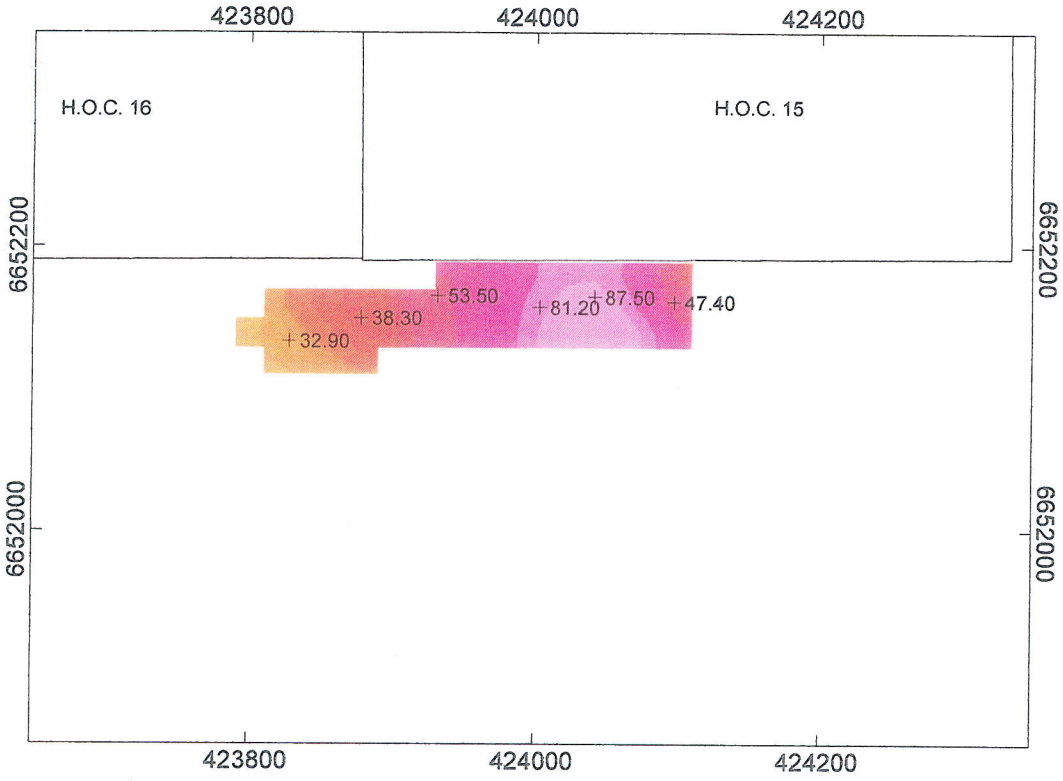
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
ICP MS Pb ppm, Eco Tech

December 28, 2007



ICP MS Zn ppm

14.87	16.71	18.22	19.41	20.87	22.11	23.75	25.75	30.23	34.29	38.29	45.52	76.13

Scale 1:5000

50 0 50 100

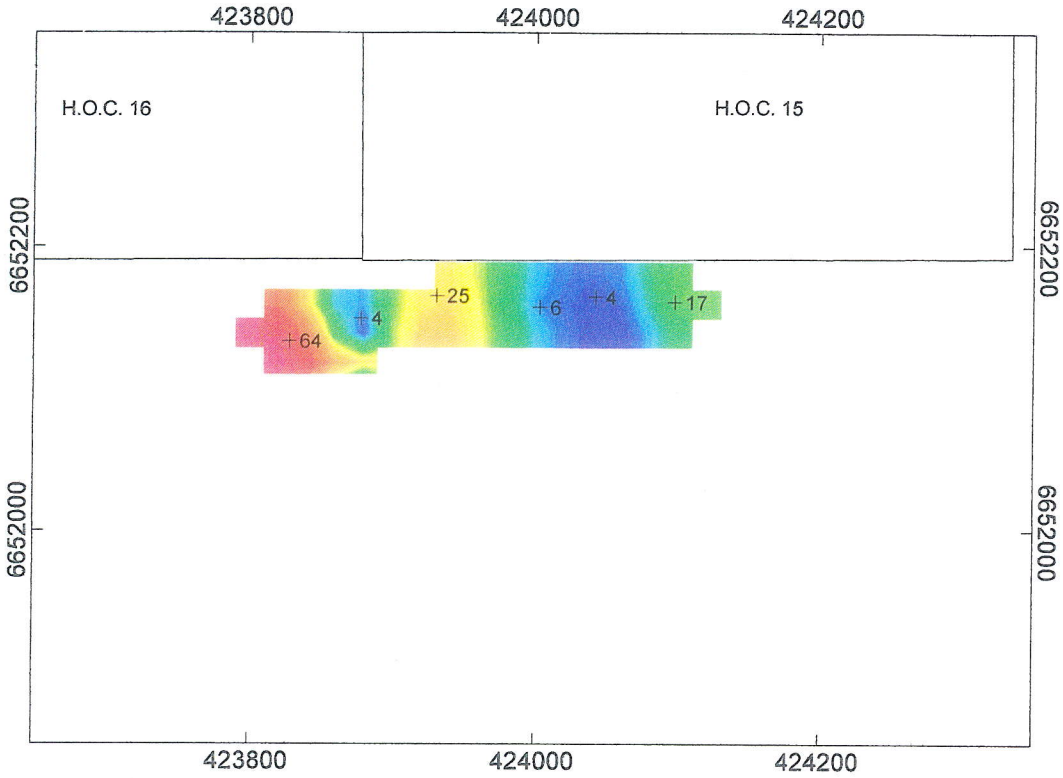
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
ICP MS Zn ppm, Eco Tech

December 28, 2007



MMI Ag ppb

5 6 7 7 8 9 10 12 14 16 18 19 21 23 25 30 33 42 47 57 71 160

Scale 1:5000

50 0 50 100

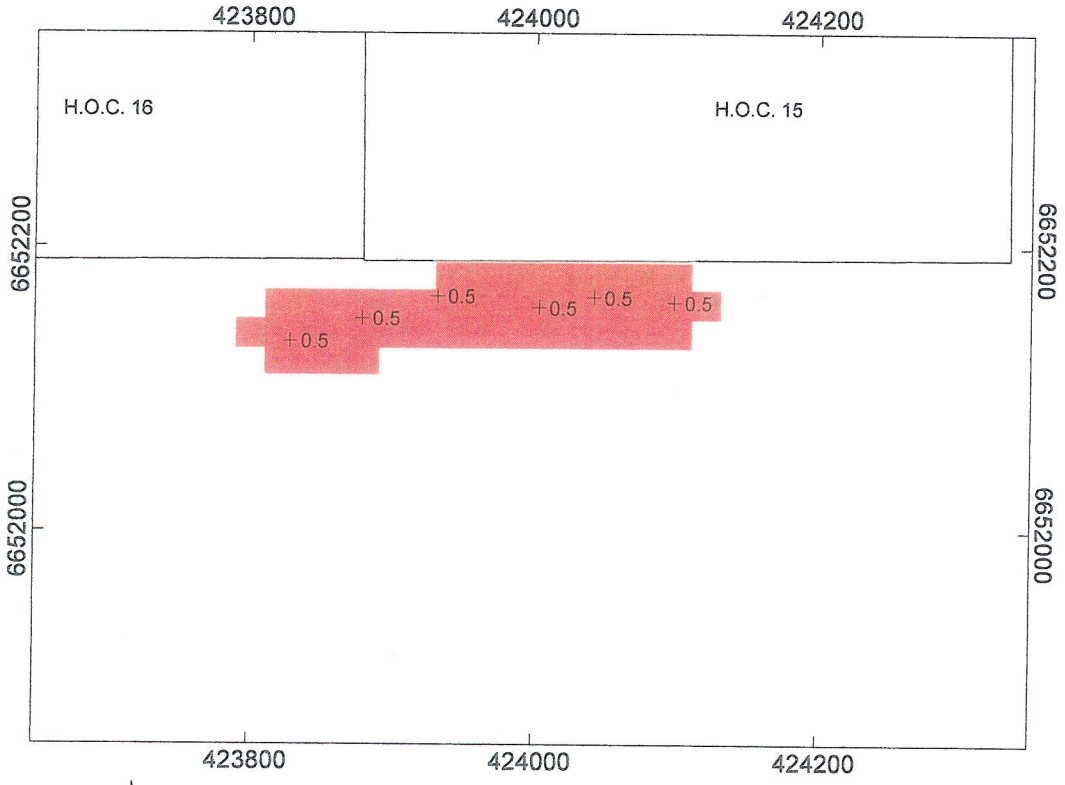
(metres)

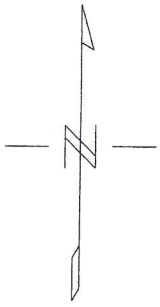
NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
MMI Ag ppb horizon 3

December 28, 2007





MMI Au ppb

0.03 0.05 0.06 0.07 0.09 0.11 0.16 0.19 0.21 0.26 0.34 0.39 0.43 0.46 0.50 0.50 0.50 0.51 0.90

Scale 1:5000

50 0 50 100

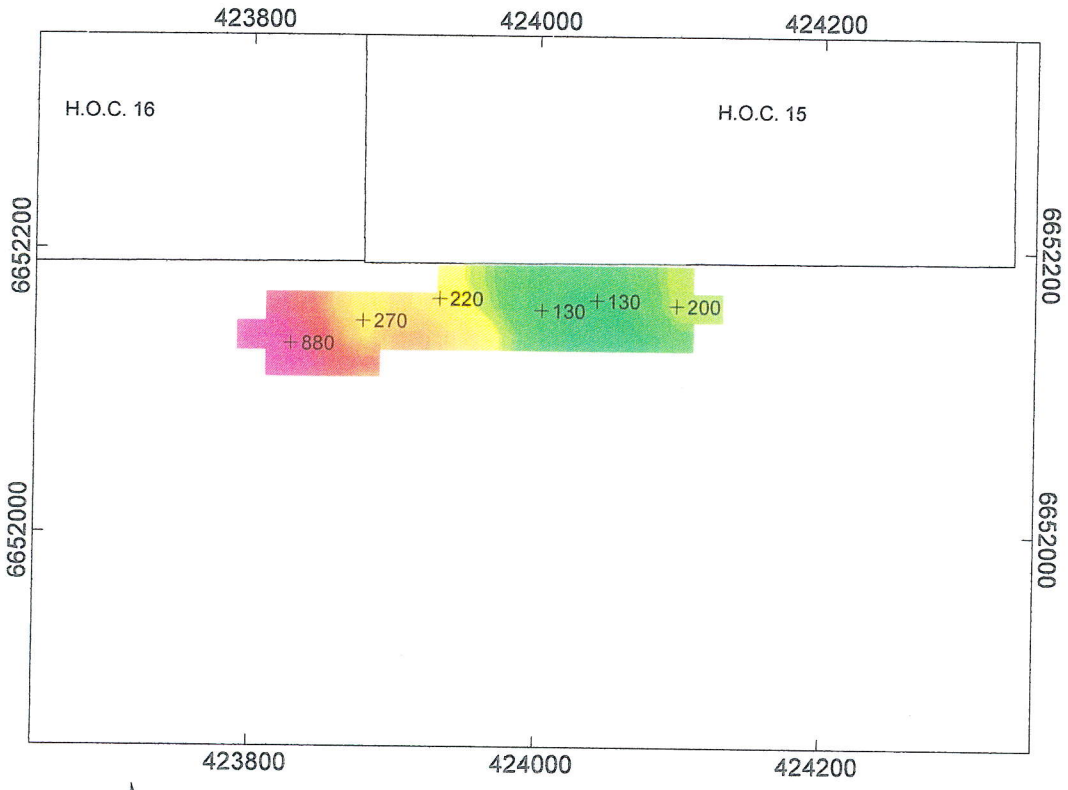
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
MMI Au ppb horizon 3

December 28, 2007



MMI Zn ppb

35 44 58 70 81 101 130 162 183 204 243 301 344 384 429 479 604 758 1011

Scale 1:5000

50 0 50 100

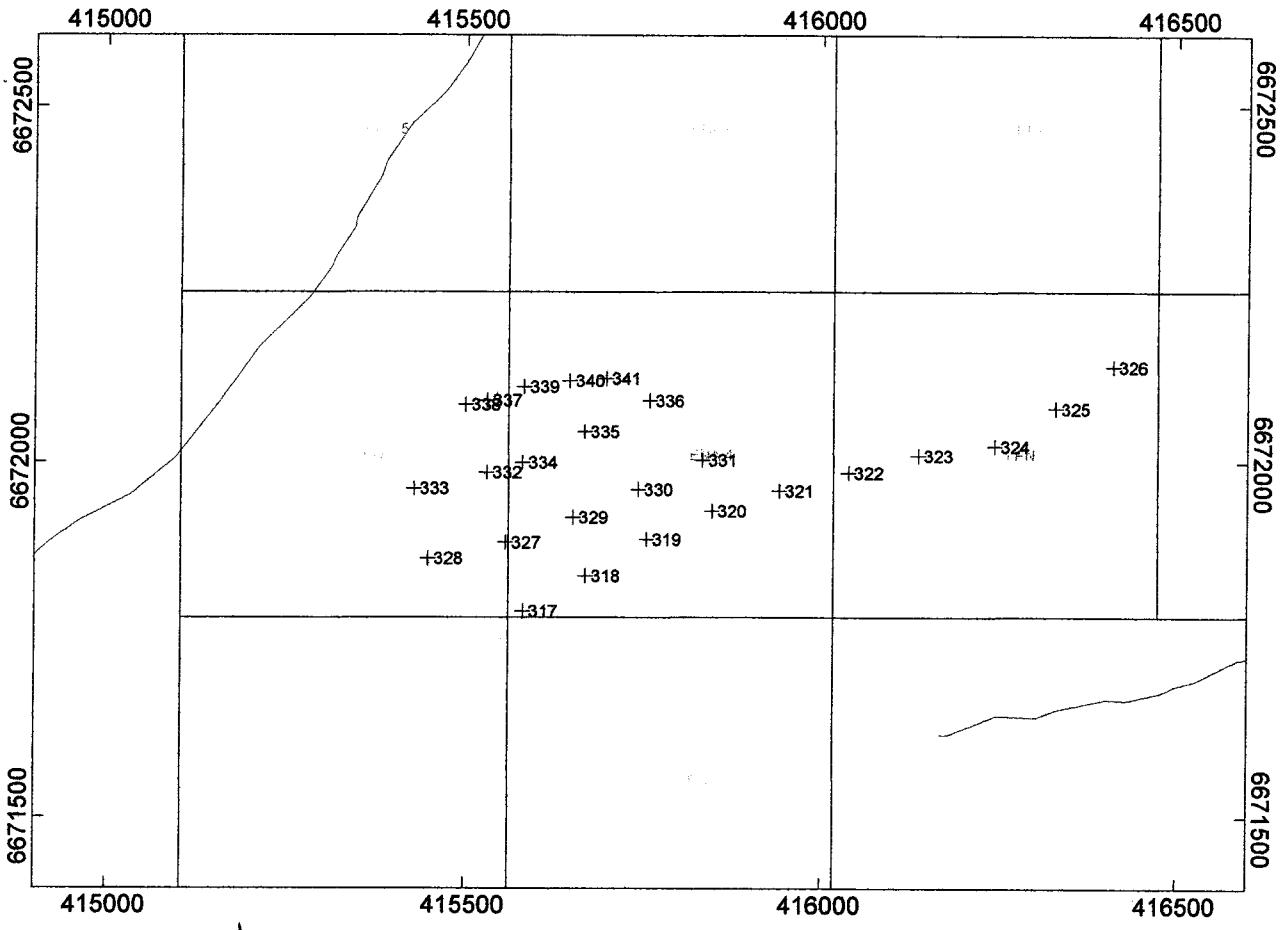
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

H.O.C. Claims (south) Rancheria Area
MMI Zn ppb horizon 1

December 28, 2007



Scale 1:10000

100 0 100 200

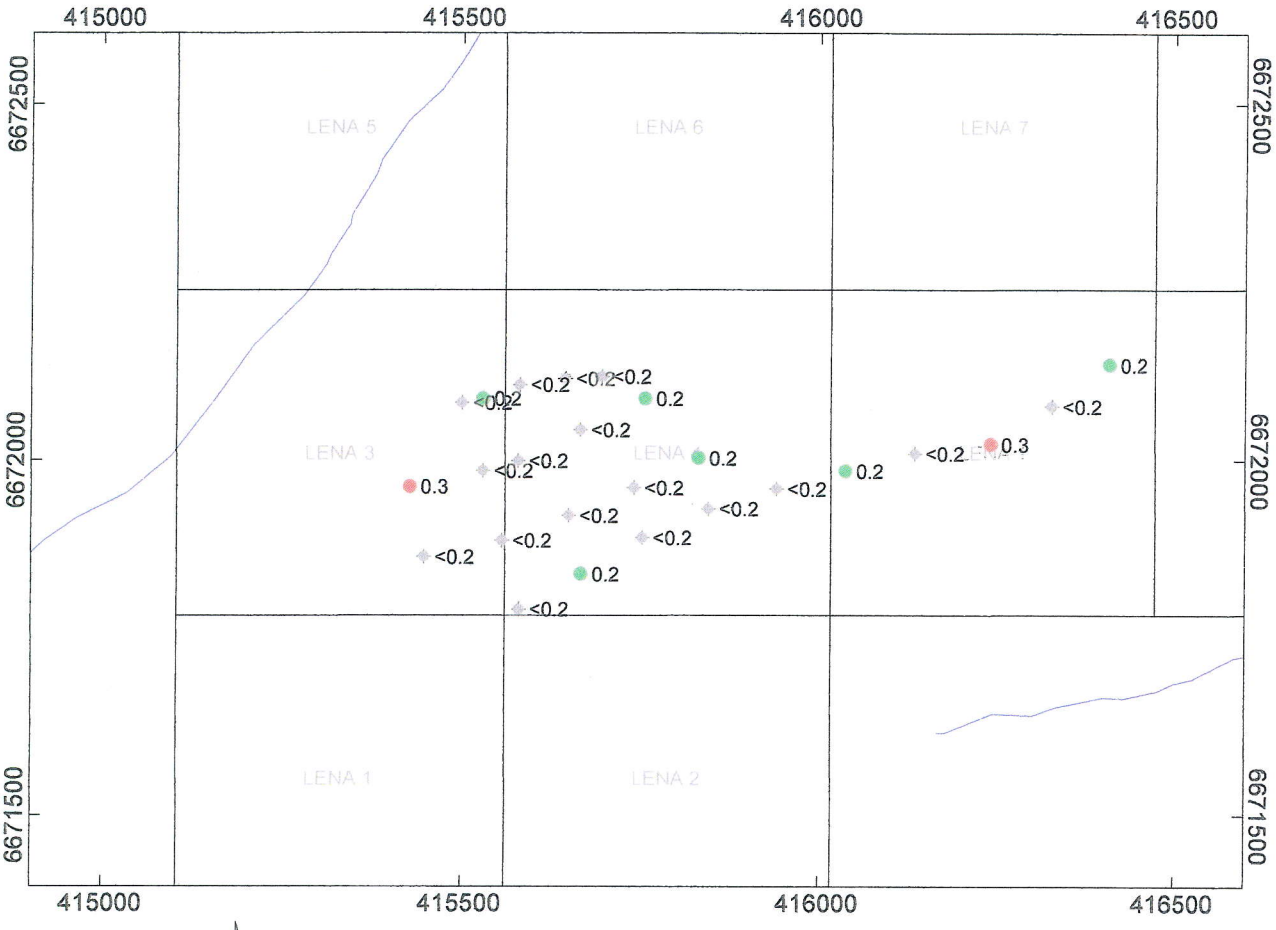
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

LENA Claims Rancheria Area
Sample Locations for MMI and ICP Soil Surveys

December 26, 2007



Ag
(ppm)

> 0.21
0.19 - 0.21
< 0.19

Scale 1:10000

100 0 100 200

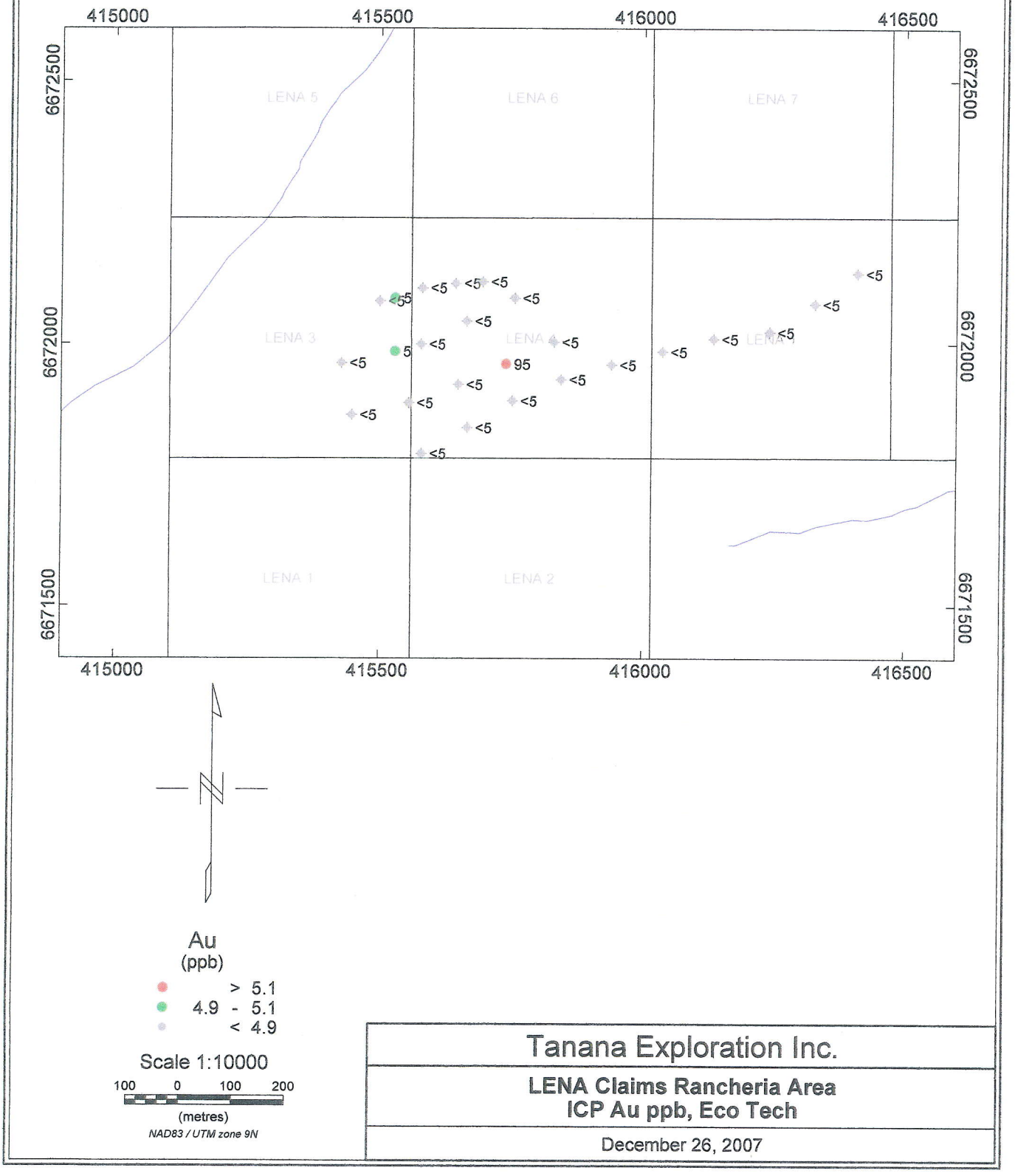
(metres)

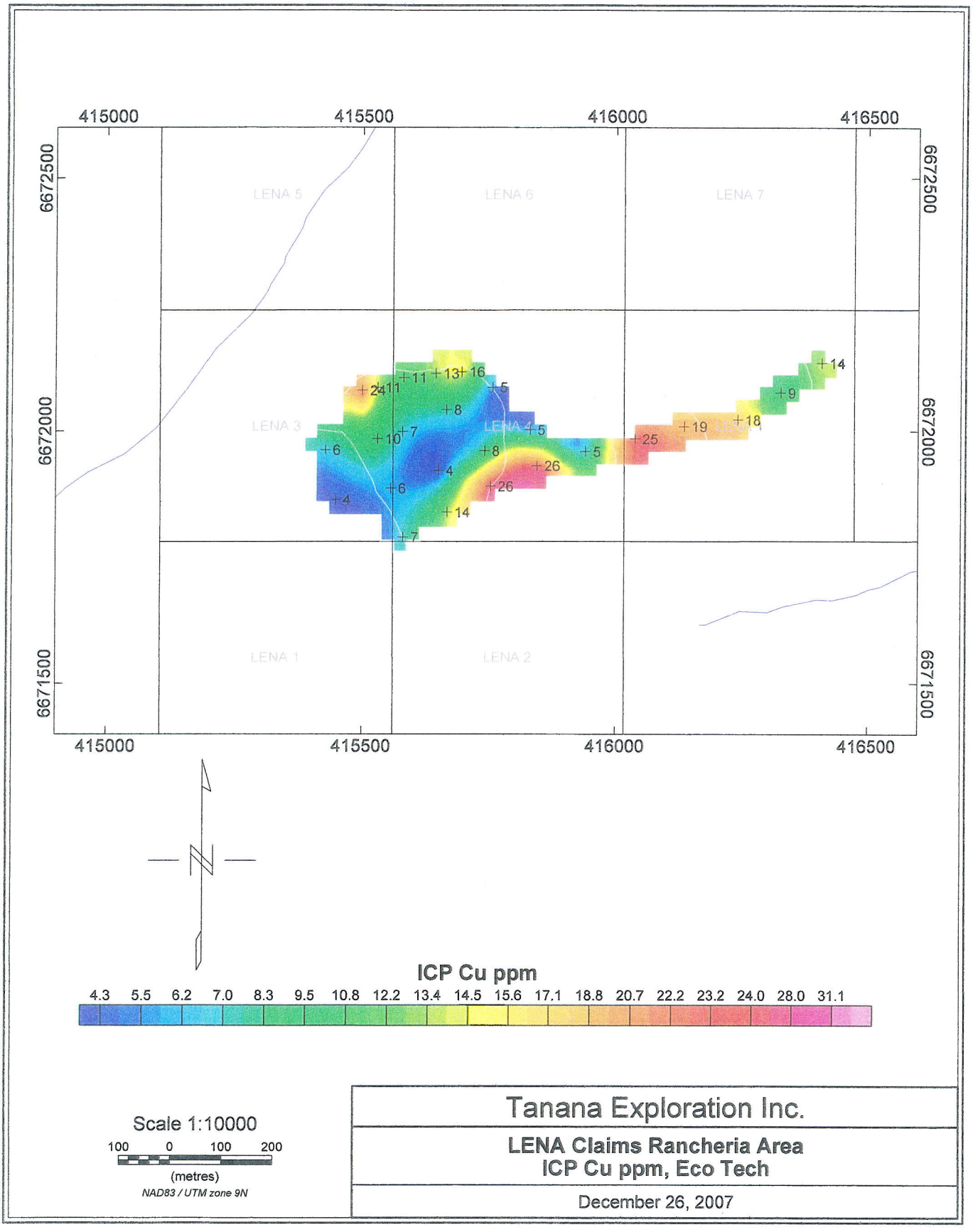
NAD83 / UTM zone 9N

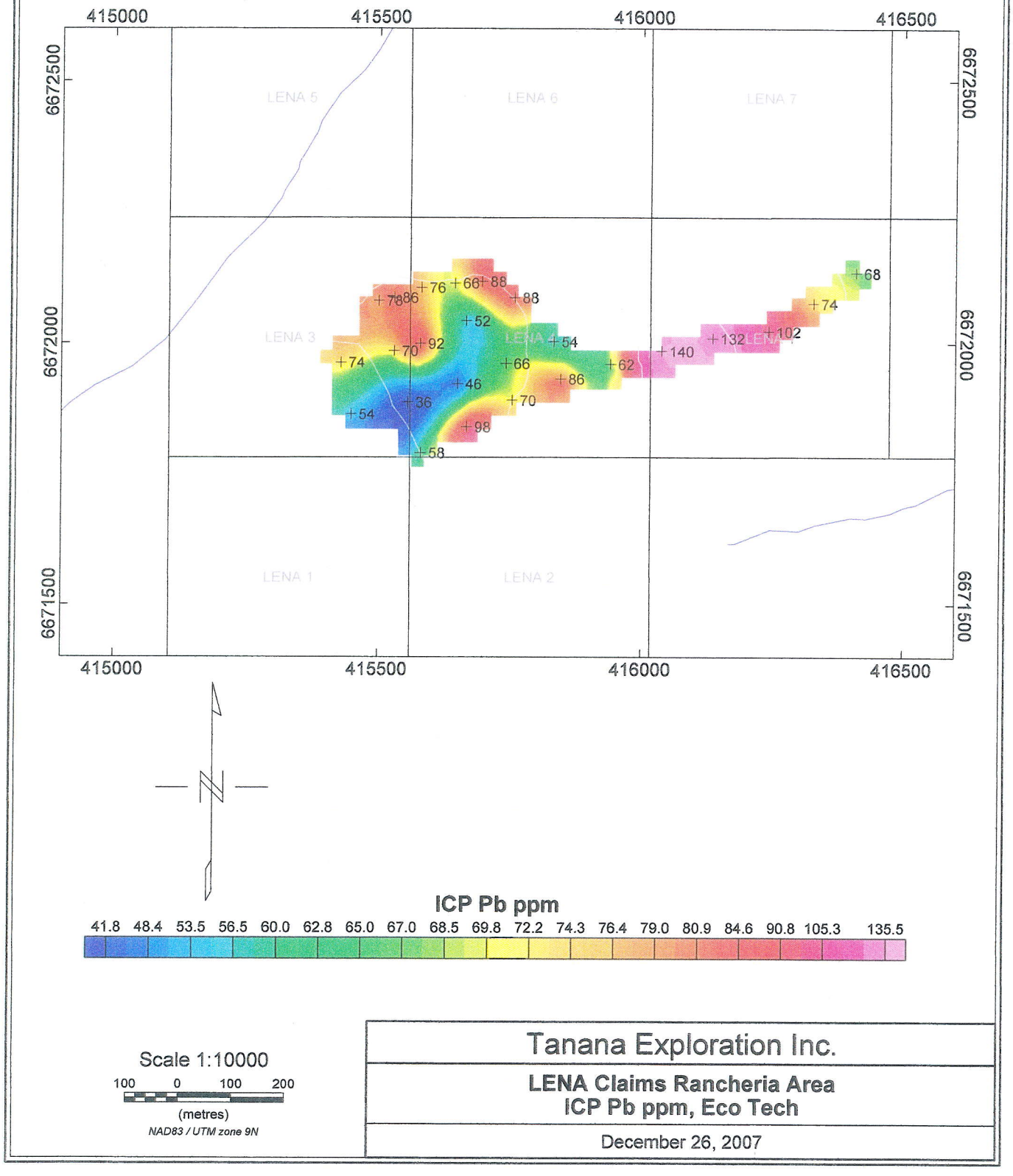
Tanana Exploration Inc.

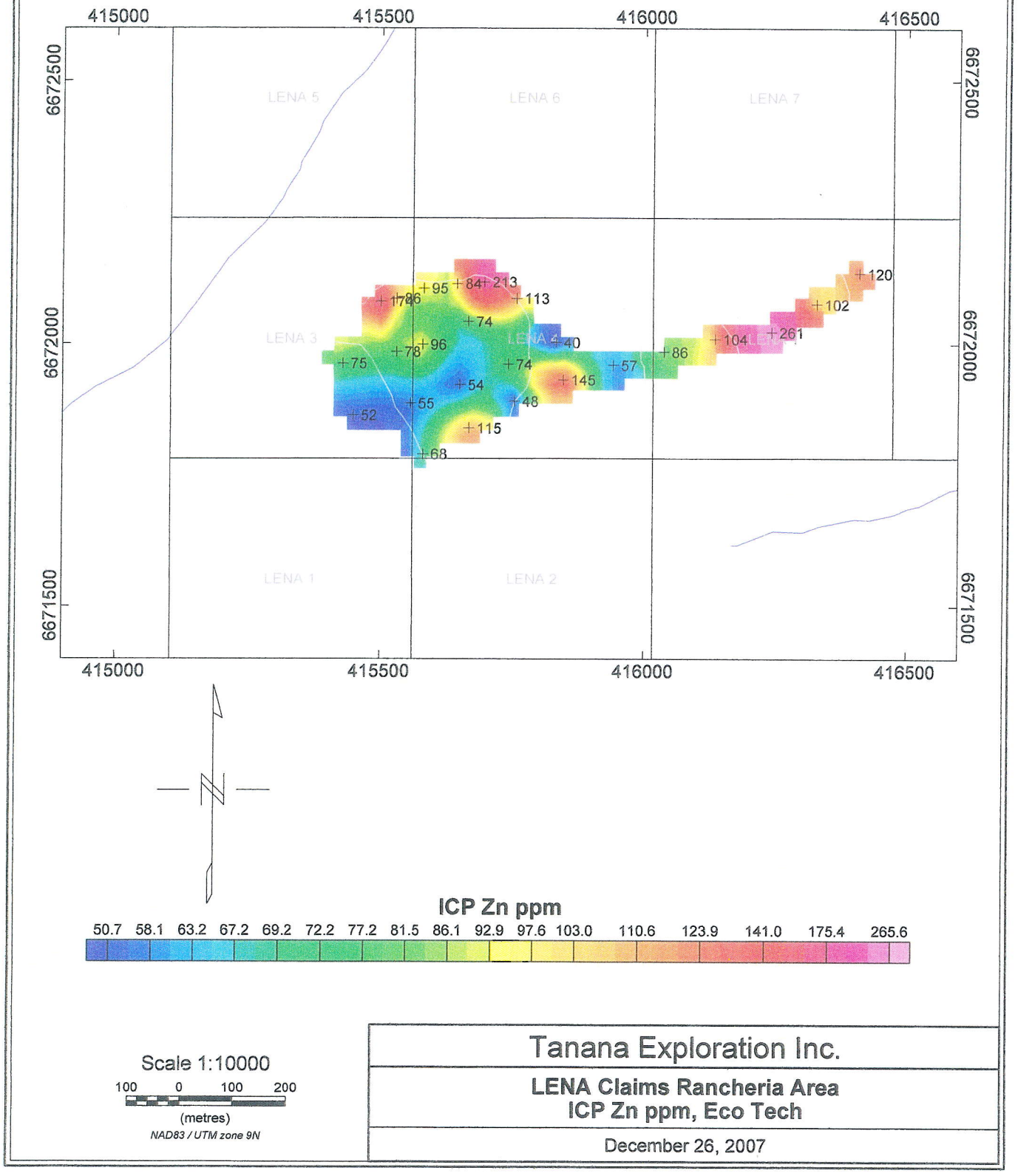
LENA Claims Rancheria Area
ICP Ag ppm, Eco Tech

December 26, 2007


415000
415500
416000
416500
6672500
6672000
6671500
LENA 5
LENA 6
LENA 7
LENA 3
LENA 4
LENA 1
LENA 2
<5
5
95
Au
(ppb)
> 5.1
4.9 - 5.1
< 4.9
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
LENA Claims Rancheria Area
ICP Au ppb, Eco Tech
December 26, 2007


415000
415500
416000
416500
6672500
6672000
6671500
LENA 5
LENA 6
LENA 7
LENA 3
LENA 4
LENA 1
LENA 2
+24
+11
+13
+16
+11
+5
+8
+10
+7
+6
+8
+5
+4
+26
+6
+26
+4
+14
+7
+14
+9
+18
+19
+25
+5
ICP Cu ppm
4.3 5.5 6.2 7.0 8.3 9.5 10.8 12.2 13.4 14.5 15.6 17.1 18.8 20.7 22.2 23.2 24.0 28.0 31.1
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
LENA Claims Rancheria Area
ICP Cu ppm, Eco Tech
December 26, 2007


415000
415500
416000
416500
6672500
6672000
6671500
LENA 5
LENA 6
LENA 7
LENA 3
LENA 4
LENA 1
LENA 2
+78
+86
+76
+66
+88
+88
+52
+70
+92
+74
+54
+66
+62
+46
+86
+36
+70
+54
+98
+58
+140
+132
+102
+74
+68
ICP Pb ppm
41.8 48.4 53.5 56.5 60.0 62.8 65.0 67.0 68.5 69.8 72.2 74.3 76.4 79.0 80.9 84.6 90.8 105.3 135.5
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
LENA Claims Rancheria Area
ICP Pb ppm, Eco Tech
December 26, 2007


415000
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LENA 5
LENA 6
LENA 7
LENA 3
LENA 4
LENA 1
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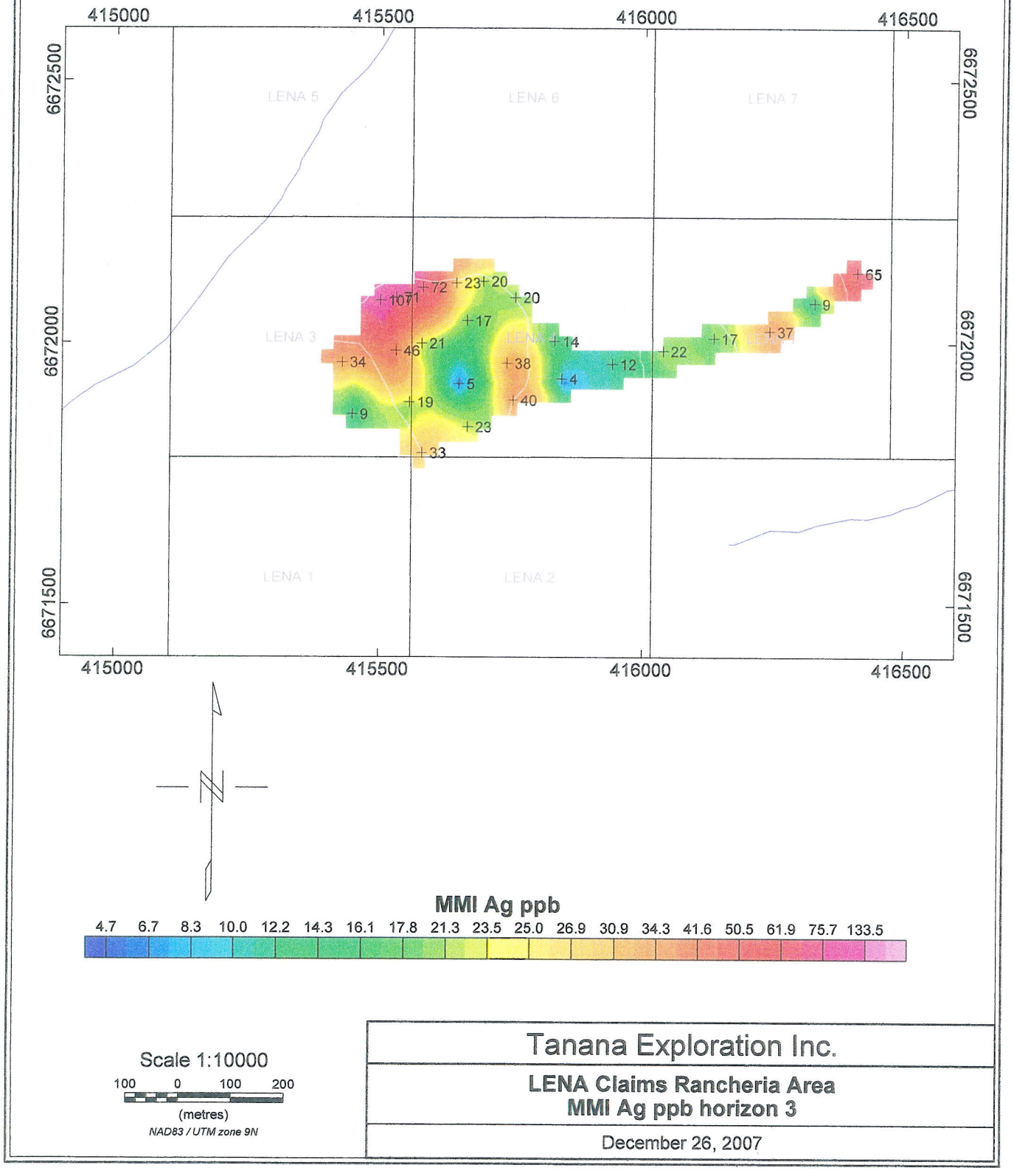
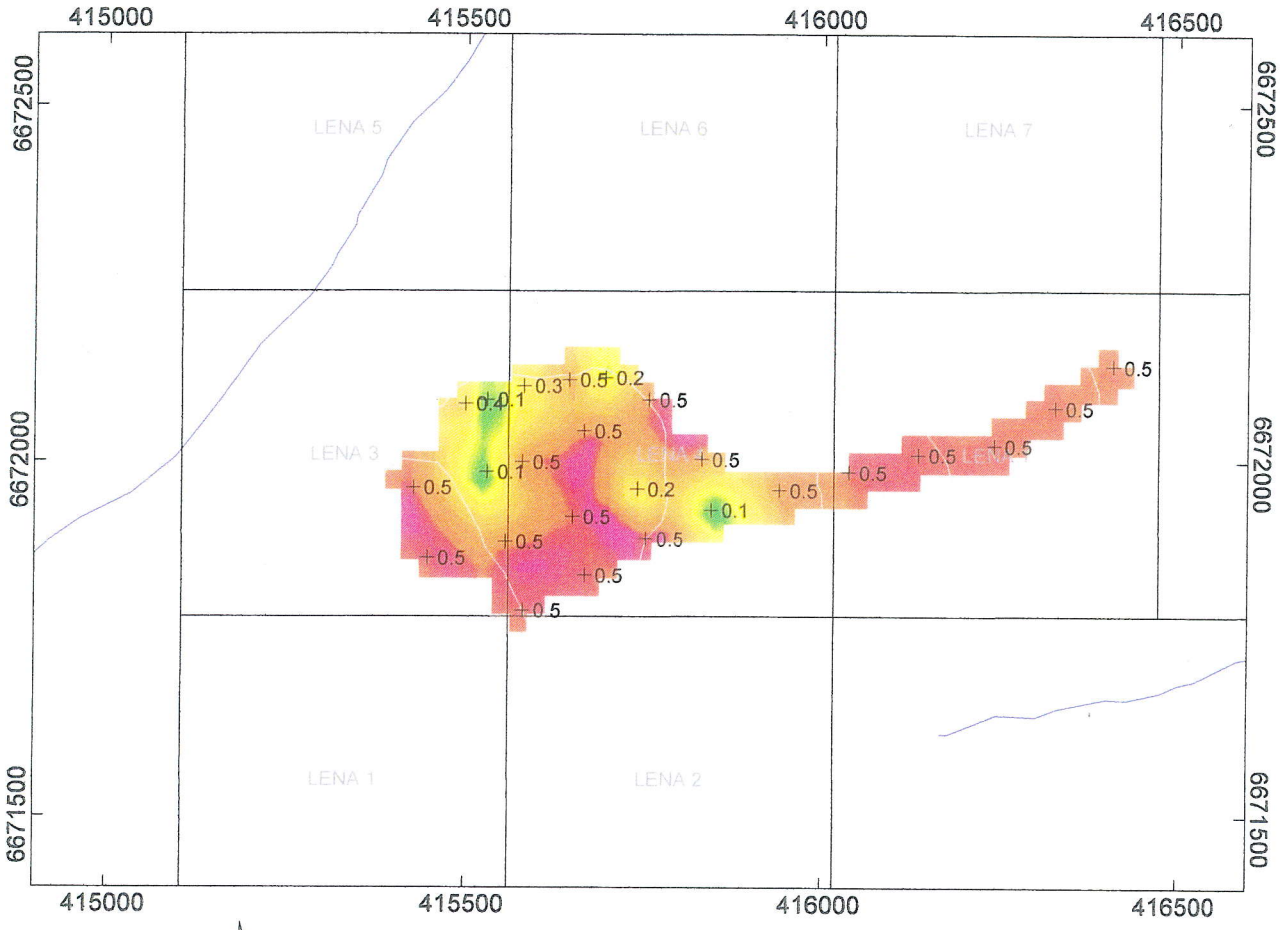
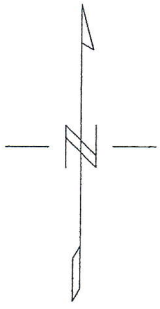
95
84
213
113
74
96
78
75
74
40
86
104
261
102
120
57
145
54
55
48
52
115
68
ICP Zn ppm
50.7 58.1 63.2 67.2 69.2 72.2 77.2 81.5 86.1 92.9 97.6 103.0 110.6 123.9 141.0 175.4 265.6
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
LENA Claims Rancheria Area
ICP Zn ppm, Eco Tech
December 26, 2007


415000
415500
416000
416500
6672500
6672000
6671500
LENA 5
LENA 6
LENA 7
LENA 3
LENA 4
LENA 1
LENA 2
107
72
23
20
20
17
46
21
14
34
38
12
22
17
37
65
9
5
4
19
40
9
23
33
MMI Ag ppb
4.7 6.7 8.3 10.0 12.2 14.3 16.1 17.8 21.3 23.5 25.0 26.9 30.9 34.3 41.6 50.5 61.9 75.7 133.5
Scale 1:10000
100 0 100 200
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
LENA Claims Rancheria Area
MMI Ag ppb horizon 3
December 26, 2007





MMI Au ppb

0.0 0.1 0.1 0.1 0.1 0.1 0.1 0.2 0.2 0.2 0.3 0.4 0.4 0.5 0.5 0.5 0.5 0.5 0.7

Scale 1:10000

100 0 100 200

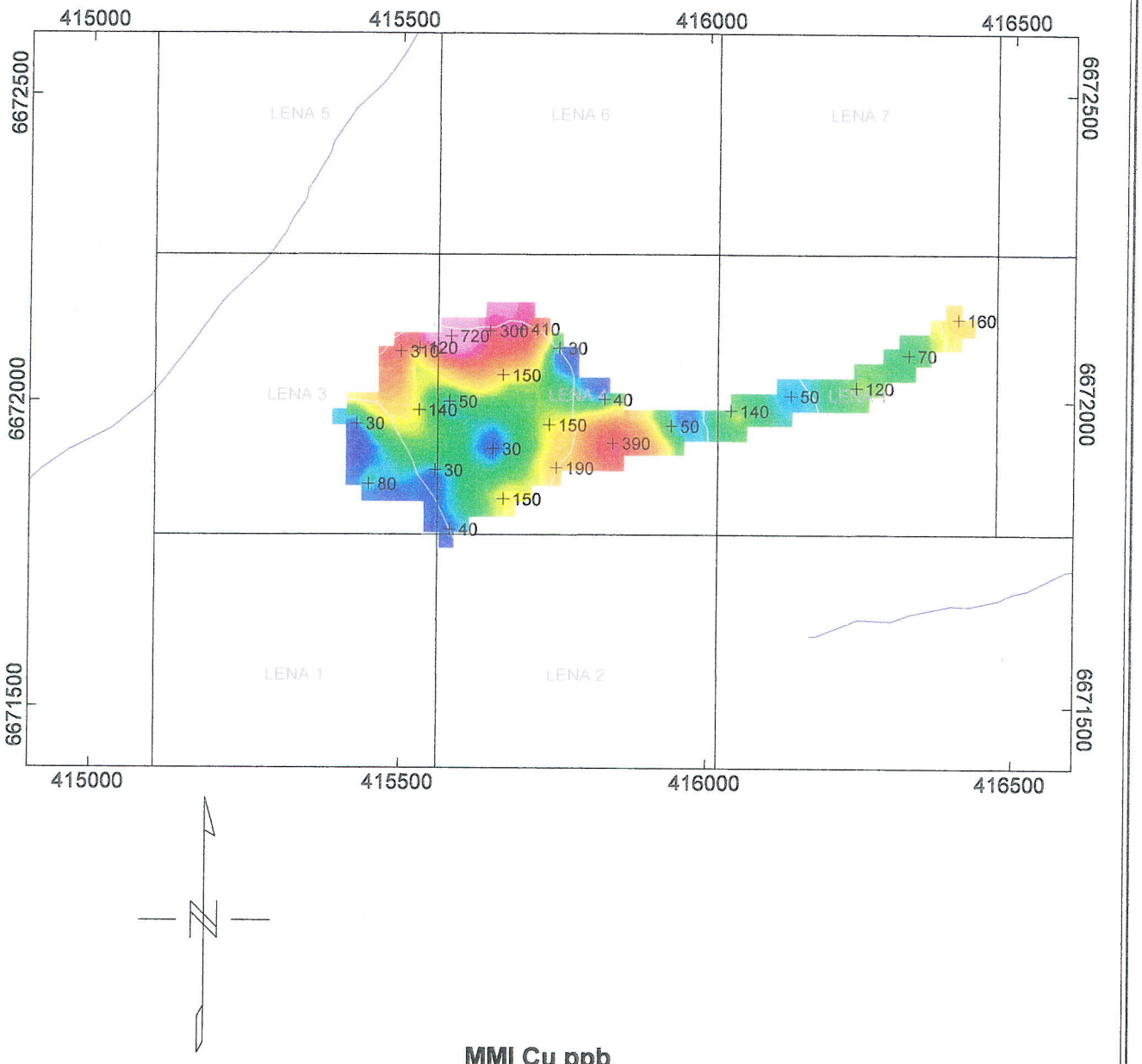
(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

LENA Claims Rancheria Area
MMI Au ppb horizon 3

December 26, 2007



MMI Cu ppb

34.5 52.5 57.0 63.4 72.3 83.6 93.2 105.1 124.1 144.4 176.0 204.3 274.7 337.5 389.8

Scale 1:10000

100 0 100 200

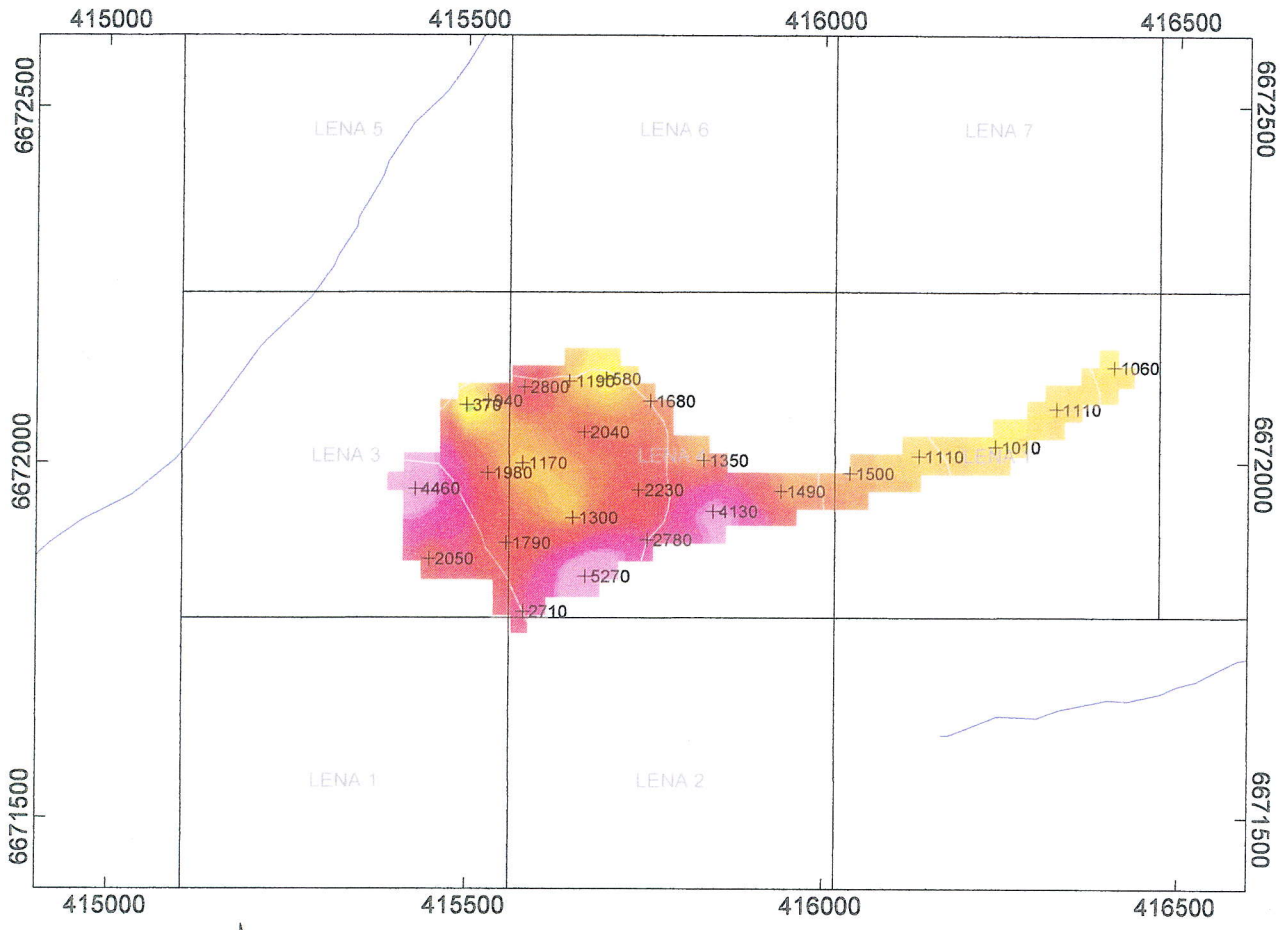
(metres)

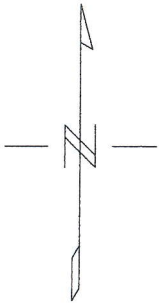
NAD83 / UTM zone 9N

Tanana Exploration Inc.

LENA Claims Rancheria Area
MMI Cu ppb horizon 4

December 26, 2007





MMI Pb ppb

77.2 128.6 222.1 337.8 396.3 461.6 659.1 882.3 1213.0 1573.3 1892.9 2497.9 3169.5

Scale 1:10000

100 0 100 200

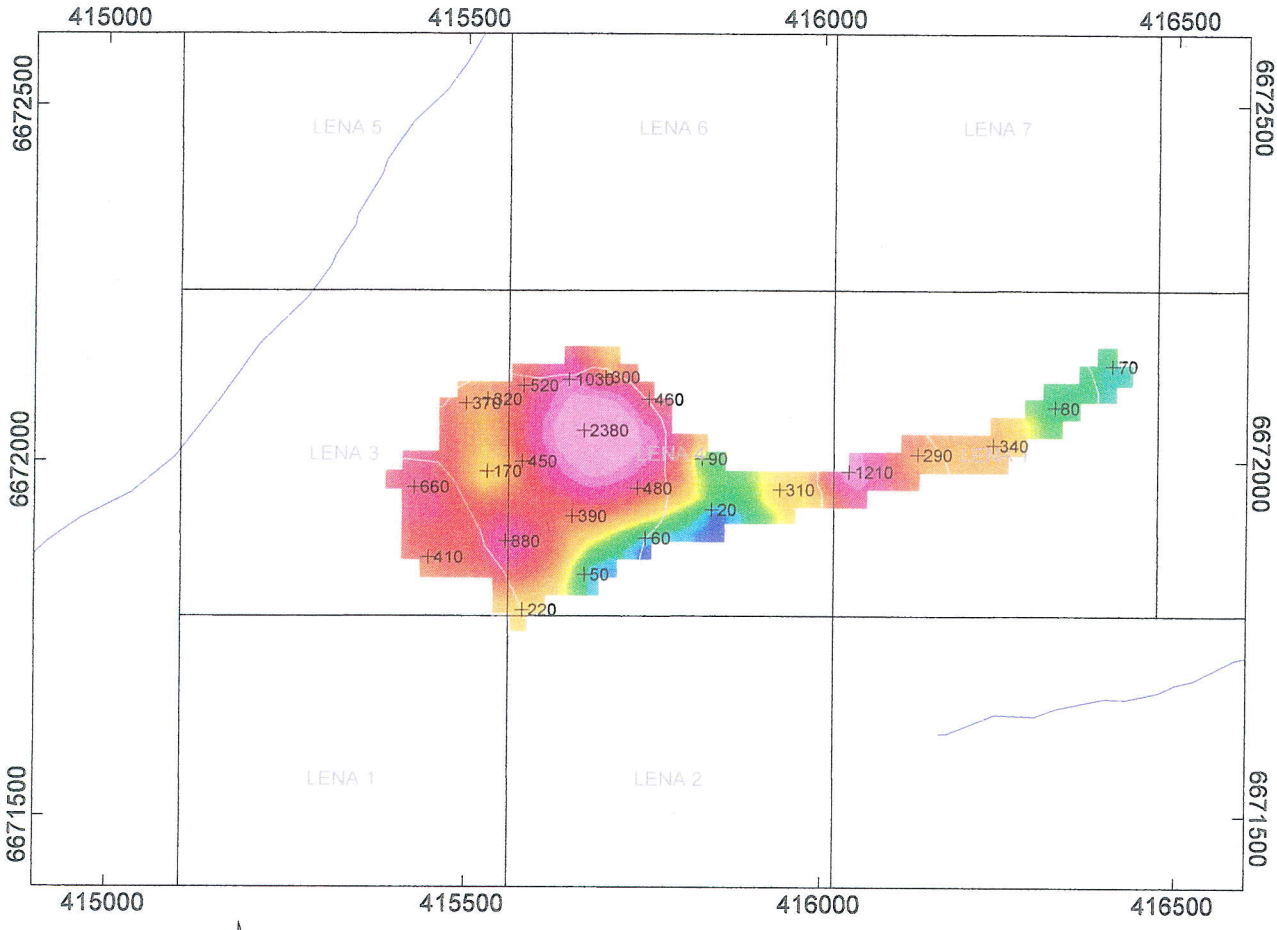
(metres)

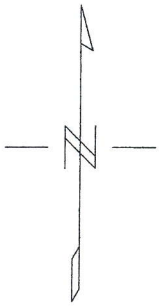
NAD83 / UTM zone 9N

Tanana Exploration Inc.

LENA Claims Rancheria Area
MMI Pb ppb horizon 1

December 26, 2007





MMI Zn ppb

31.1 44.7 57.5 76.1 86.9 99.4 121.8 164.2 202.9 237.0 306.1 378.3 475.1 588.0 880.4

Scale 1:10000

100 0 100 200

(metres)

NAD83 / UTM zone 9N

Tanana Exploration Inc.

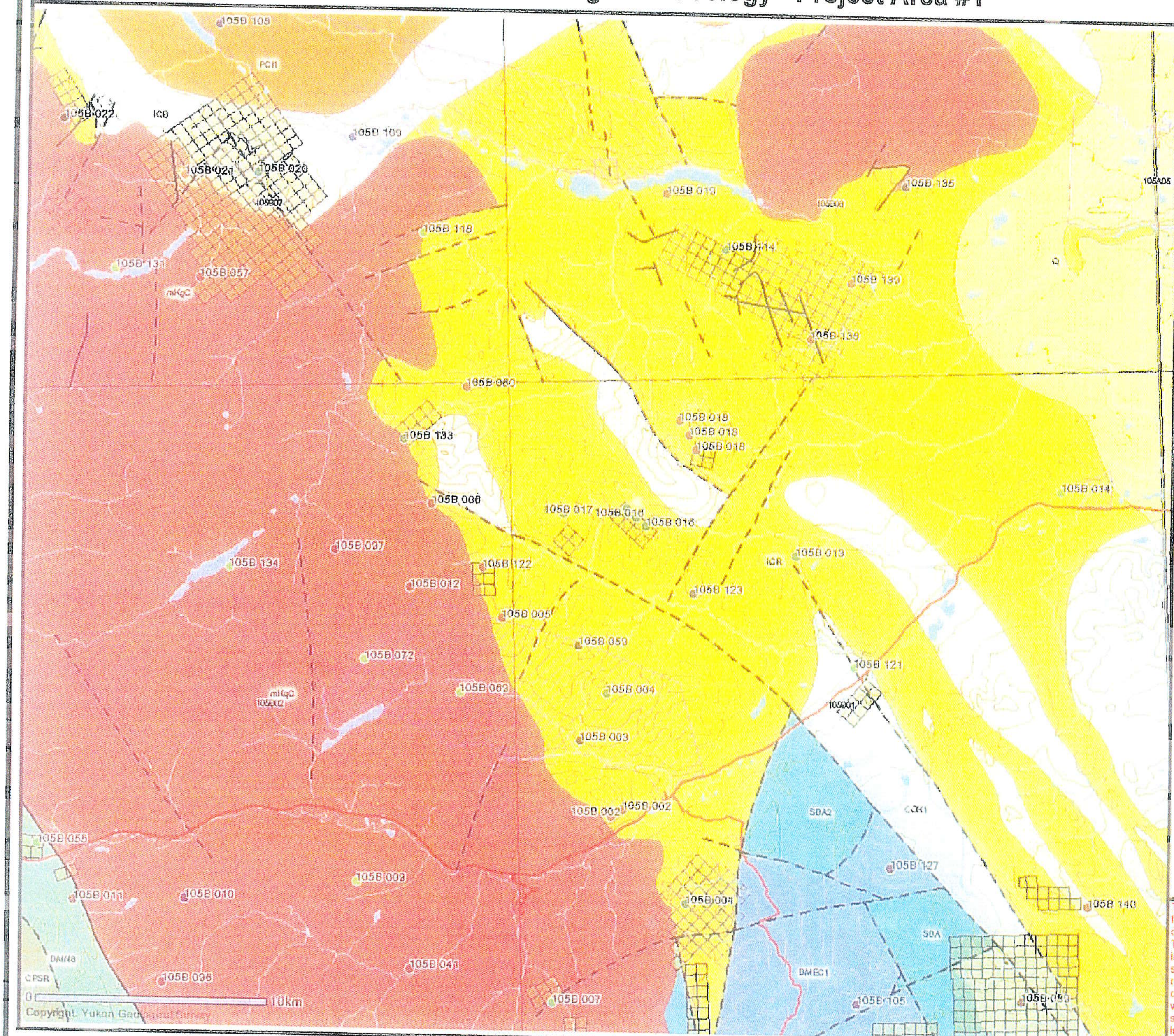
LENA Claims Rancheria Area
MMI Zn ppb horizon 1

December 26, 2007

APPENDIX D

GEOLOGY & MAGNETIC MAPS

Regional Geology - Project Area #1


105B 108
PCN
105B 022
ICB
105B 109
105B 021
105B 020
105B 131
105B 057
mKgC
105B 118
105B 013
105B 135
105B 114
105B 133
105B 138
105B 060
105B 133
105B 018
105B 018
105B 018
105B 014
105B 008
105B 017
105B 016
105B 016
105B 037
105B 134
105B 122
105B 012
105B 013
ICR
105B 123
105B 005
105B 053
105B 072
105B 121
105B 062
105B 004
mKgC
105B 003
105B 002
105B 002
SDA2
CSK1
105B 055
105B 127
105B 009
105B 011
105B 010
105B 006
105B 140
SDA
DMN8
105B 041
DMEC1
CPSR
105B 036
0
10km
105B 007
105B 105
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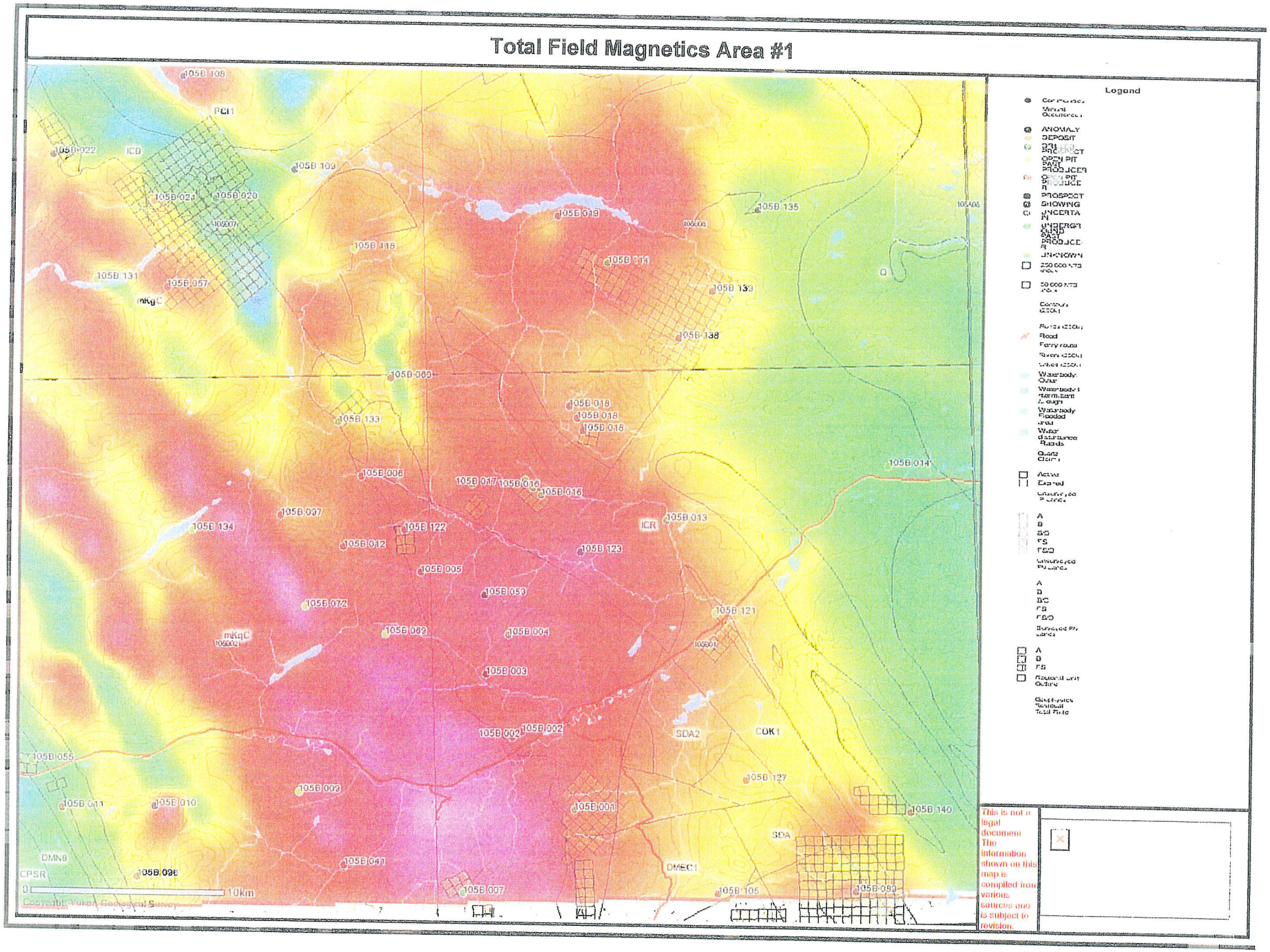
This is not a legal document. The information shown on this map is compiled from various sources and is subject to revision.


Total Field Magnetics Area #1
Legend
105B 105
105B 022
105B 021
105B 020
105B 103
105B 019
105B 135
105B 118
105B 114
105B 131
105B 057
105B 138
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105B 006
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105B 037
105B 134
105B 122
105B 013
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105B 003
105B 002
105B 055
105B 009
105B 011
105B 010
105B 001
105B 127
105B 140
105B 041
105B 007
105B 105
105B 090
ICD
ICR
SDA2
CDK1
SDA
DMEC1
DMN8
CPSR
mKqC
10km
This is not a legal document. The information shown on this map is compiled from various sources and is subject to revision.

APPENDIX E

STATEMENT OF QUALIFICATIONS

I, Wade Carrell, of 27 Tutshi Road; Whitehorse, in the Territory of the Yukon,
DO HEREBY CERTIFY:

1. THAT I am a Prospector working independently in Whitehorse, Yukon and that I am a Canadian citizen over the age of nineteen with no net income from mineral production.

2. THAT I have successfully completed the Yukon Chamber of Mines Basic Prospecting Course (1993) and the Advanced Prospecting Course (1994 and 1998).

3. THAT I have been engaged in mineral exploration and mining for 14 years in the Yukon and have work extensively on both hard-rock and placer projects for myself and in the past for 15053 Yukon Inc., 39231 Yukon Inc., Dooley Placer Ltd. and for Tanana Exploration Inc, all of Whitehorse and for Klondike Gold Corporation and CMC Metals Ltd. of Vancouver, B.C.

4. THAT this report is based in part on research that I have completed and discussed with Steve Traynor a geologist with the Yukon Geological Survey and with Scott Casselman a geologist with Aurora Geosciences Ltd.

5. THAT I have personally undertaken the exploration work outlined herein.

SIGNED at Whitehorse, Yukon Territory, this 31st day of December 2007.

Wade S. Carrell

Disclaimer:

This map is a compilation of data obtained from many sources. As such, the Mineral Resources Branch accepts no responsibility for errors, inaccuracies, or omissions. Where the map differs from the actual post locations on the ground, the ground location has precedence.

Category A Land - Contact First Nation for staking
Category B Land - Contact Mining Recorder's Office for Staking

For mining claim information, please contact the Mining Recorder's Office for the appropriate mining district:

Whitehorse District Office:
Rm 102 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-3190 Fax: (867) 667-5150

Dawson District Office:
Box 249
Dawson City, YT Y0B 1G0
Ph: (867) 993-5343 Fax: (867) 993-6747

Watson District Office:
Watson Lake, YT Y0A 1C0
Ph: (867) 536-7366 Fax: (867) 536-7942

Mayo District Office:
Box 10
Mayo, YT Y0B 1M0
Ph: (867) 996-2256 Fax: (867) 996-2617

Sources:

Mining claim locations obtained from staking sketches except for Global Positioning System (GPS) located claims.

1:50000 scale digital topography obtained from Natural Resources Canada National Topographic System data.

Survey data obtained from Natural Resources Canada Legal Surveys Division. For more information, please contact:

Natural Resources Canada Legal Surveys Division, Whitehorse
Rm 225 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-3950 Fax: (867) 393-6707

Lands information obtained from Energy, Mines and Resources Lands Branch. For more information, please contact:
Energy, Mines and Resources Lands Branch
Rm 320 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-5215 Fax: (867) 393-6285

Agricultural information obtained from Energy, Mines and Resources Agriculture Branch. For more information, please contact:
Energy, Mines and Resources Agriculture Branch
Rm 320 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-5838 Fax: (867) 393-6222

Interim Protected Land Claims information obtained from Indian and Northern Affairs Canada. For more information, please contact:
Indian and Northern Affairs Canada
Rm 415C - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-3888 Fax: (867) 667-3801

Other Resources:

For access to airphotos, Mining Assessment Reports, and geology publications:

Yukon Energy, Mines and Resources Library
Rm 335 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-3111 Fax: (867) 456-3888

Yukon Geological Survey
Rm 102 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 456-3800 Fax: (867) 667-3198

Or

2099 2nd Ave
Whitehorse, YT Y1A 2C8
Ph: (867) 667-8508 Fax: (867) 393-6232

Yukon Geological Survey Maps and Publications are available by emailing

or can be downloaded from

Online Resources:

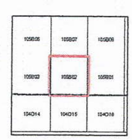
Mining Claims maps are also available online at the Yukon Mining Recorder Website:

Yukon Geological Survey Maps, Minfile, and Publications are also available at the Yukon Geological Survey website:

105B02

MINING CLAIMS

UTM Zone: UTM Zone 9
Datum: NAD 83
Mining District: Watson
Map Creation Date: Jul 20, 2007



Mining
Quartz Claim Arrows
Placer Baselines
Mining District Boundaries

Claim Status
Active Quartz Claim
Active Placer Claim
Expired Claim

Coal
Coal Exploration Licence
Coal Mining Lease
Expired Licence or Lease

Areas Withdrawn from Staking
First Nation Interim Protected Lands
Parks and Special Management Areas

Areas Not Withdrawn from Staking
Parks and Special Management Areas

First Nation Settlement Land Category
A
B
FS

First Nation Surveyed Lands Category
A
B
FS
Uncategorised

NRCan Legal Survey Cadastral
First Nations Community Lots
Special Access Right through FN Lands
Mineral Claims
Community Land Transfers (Order in Council)
Land Dispositions (Lots)
Easements

EMR Lands
Land Disposition
Land Application
Agricultural Disposition
Agricultural Application
Notation

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50K Mineral Index
Mineral Index

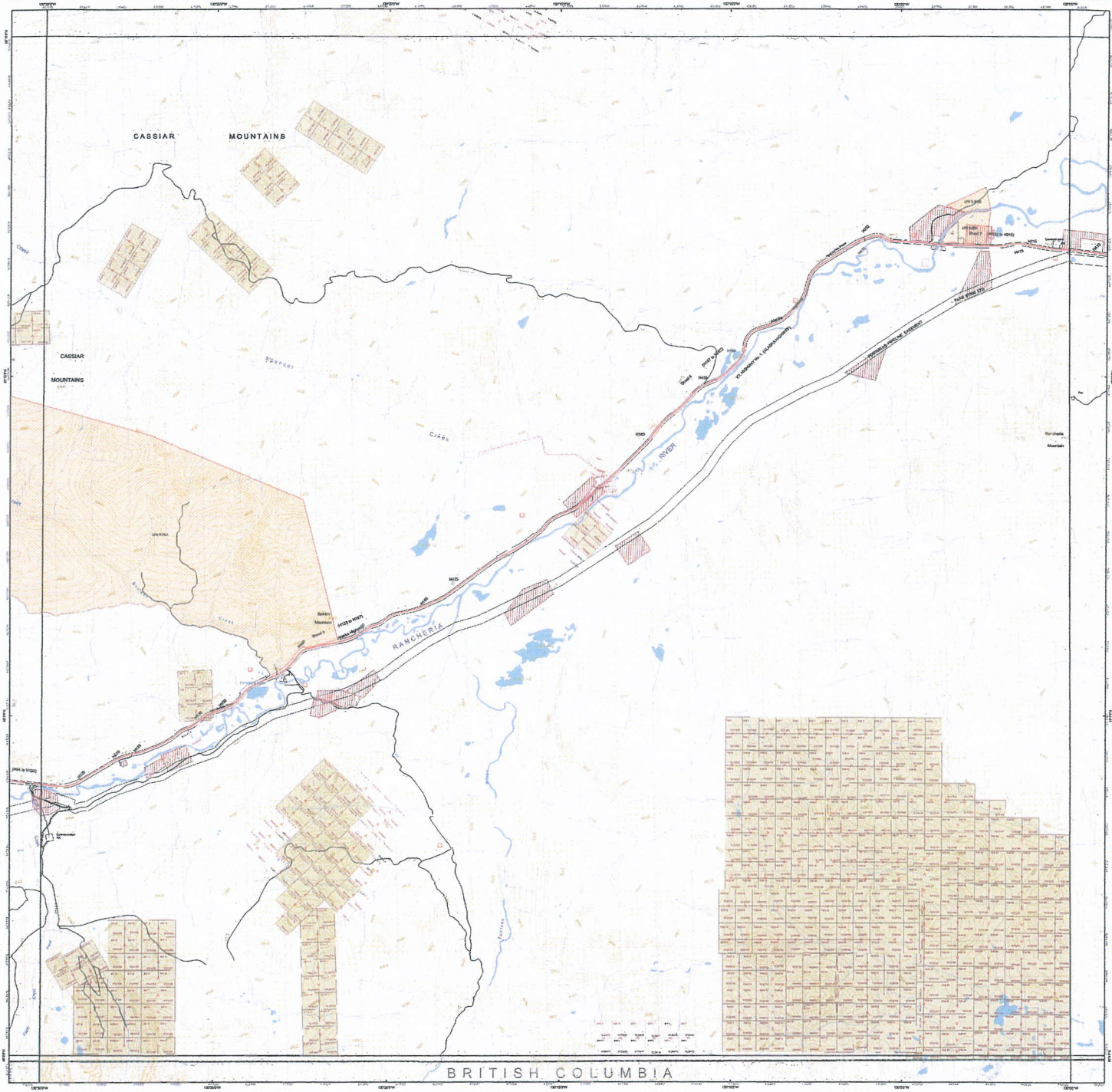
Base Map Features
Hydrographic
Watercourses
Waterbody
Intermittent waterbody
Underwater sand
Dry river bed

Topography
Contours

Transportation Routes
Highway
Main
Secondary
Street
Limited use road
Trail
Cut line
Railway
Bridge
Foot Bridge
Ferry route
Ford

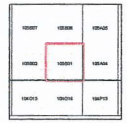
Yukon
Energy, Mines and Resources
Mineral Resources Branch

105B01



105B01
MINING CLAIMS

UTM Zone: UTM Zone 9
Datum: NAD 83
Mining District: Yukon
Map Creation Date: Sep 28, 2007



1:200 000 0 1:250 2000 3000 Feet
Meters

Mining
- Quartz Claim Annual
- Placer Baselines
- Mining District Boundaries

Claim Status
- Active Quartz Claim
- Active Placer Claim
- Expired Claim

Coal
- Coal Exploration Licence
- Coal Mining Lease
- Expired Licence or Lease

Areas Withdrawn from Staking
- First Nation Interim Protected Lands
- Parks and Special Management Areas

Areas Not Withdrawn from Staking
- Parks and Special Management Areas

First Nation Settlement Land Category
- A
- B
- FS

First Nation Surveyed Lands Category
- A
- B
- FS
- Unsurveyed

HKC-en Legal Survey Cadastral
- First Nations Community Lots
- Special Access Right through FN Lands
- Mineral Claims
- Community Land Transfers (Order in Council)
- Land Dispositions (Lots)
- Easements

EMR Lands
- Land Disposition
- Land Application
- Agricultural Disposition
- Agricultural Application
- Withdrawn

Mapsheet Index
- 1:50 Mineral Index
- Mineral Index

Base Map Features

Hydrographic
- Watercourse
- Waterbody
- Intermittent waterbody
- Underwater land
- Dry river bed

Topography
- Contours

Transportation Routes
- Highway
- Main
- Secondary
- Street
- Limited use road
- Trail
- Cut line
- Railway
- Bridge
- Foot Bridge
- Ferry Route
- Pond

Yukon
Energy, Mines and Resources
Mineral Resources Branch

Yukon
Energy, Mines and Resources

Claim Status Report

24 December 2007

	Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s
R	BERG 1 - 6	YC71769 - YC71774	2011/07/12	TANANA EXPLORATION INC.	100.00	105B02
R	BERG 7 - 8	YC29253 - YC29254	2010/08/30	TANANA EXPLORATION INC.	100.00	105B02
R	BERG 9 - 16	YC71775 - YC71782	2011/07/12	TANANA EXPLORATION INC.	100.00	105B02
R	LENA 1 - 2	YC71765 - YC71766	2013/07/12	TANANA EXPLORATION INC.	100.00	105B02
R	LENA 3 - 6	YC29157 - YC29160	2012/08/10	TANANA EXPLORATION INC.	100.00	105B02
R	LENA 7 - 8	YC71767 - YC71768	2013/07/12	TANANA EXPLORATION INC.	100.00	105B02

Criteria(s) used for search:

CLAIM NTS: 105B02 CLAIM STATUS: ACTIVE & PENDING REGULATION TYPE: QUARTZ

Total claims selected : 26

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).
P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.
F - Indicates Full Quartz fraction (25+ acres)
P - Indicates Partial Quartz fraction (<25 acres)
D - Indicates Placer Discovery
C - Indicates Placer Codiscovery
B - Indicates Placer Fraction

Yukon
Energy, Mines and Resources

Claim Status Report

24 December 2007

	Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s
R	H.O.C. 1 - 16	YC25212 - YC25227	2011/09/03	TANANA EXPLORATION INC.	100.00	105B01
R	H.O.C. 17 - 18	YC71761 - YC71762	2012/07/05	TANANA EXPLORATION INC.	100.00	105B01

Criteria(s) used for search:

CLAIM NAME: H.O.C. CLAIM NTS: 105B01 CLAIM STATUS: ACTIVE & PENDING REGULATION TYPE: QUARTZ

Total claims selected : 18

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).
P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.
F - Indicates Full Quartz fraction (25+ acres)
P - Indicates Partial Quartz fraction (<25 acres)
D - Indicates Placer Discovery
C - Indicates Placer Codiscovery
B - Indicates Placer Fraction

JUNE 19/07

IVAN & I STAKED HOC #17 & 18 NORTH OF POST #1 HOC #1 & 2 AT 2:PM

WE STAKED RIDGE #1 & #2 ON THE NORTH END OF TOOTSIE RIDGE AT 4:30 PM

JUNE 21/07 HOC SOILS

IVAN & I STARTED SOIL SAMPLING ON HOC #1 & 2 THE CLAIM COMMON LINE IS THE BASE LINE FOR THE GRID. SAMPLE #000 TAKEN AT POST #1 HOC #1

SAMPLE 000 IS SILTY SAND WITH WEATHERED GRANITIC & QUARTZ FOR ICP ANALYSIS

SAMPLE 100-NORTH TAKEN 100 METERS NORTH OF 000

SAMPLE #100-N IS SILTY SAND & GRAVEL - GRANITE COBBLES TO 20 CM " BOULDERS TO

FIELD

40 cm.
#100-N TAKEN FROM 60 CM FOR ICP.

SAMPLE #200-N TAKEN 200 METERS NORTH OF 000 ON CLAIM HOC #18

SAMPLE IS BROWN SILTY SAND & GRAVEL FROM 60cm IN PIT.

TOOK ROCK SAMPLE #200/R FROM SUB CROP AT BOTTOM OF PIT 200-N.

SAMPLE IS RUSTY QUARTZ WITH RUSTY SULFIDES IN FRACTURES.

ROCK SAMPLE #201/R TAKEN FROM OUTCROP 30 METERS WEST OF PIT 200-NORTH

GREY QUARTZITE WITH OXIDIZED

JUNE 21/07

SULFIDES ON THE FRACTURES.

PIT #100-S DUG 100 METERS SOUTH OF #000 ON CLAIM HOC #1

SAMPLE IS GREY SILT, SAND CLAY & GRAVEL FROM 60 CM.

PIT SAMPLE #200-S DUG 100 METERS SOUTH OF #100-S ON HOC #1
SAMPLE IS BROWN CLAY, SILT, SAND AND GRAVEL FROM 50 CM.

PIT SAMPLE #300-S DUG 300 METERS SOUTH OF POST #1 HOC #1
SAMPLE IS WET BROWN SAND, SILT & GRAVEL

PIT SAMPLE #400-S DUG 400 METERS SOUTH OF POST #1; HOC #1
SAMPLE IS BROWN - CLAY, SAND, SILT & GRAVEL

FIELD

JUNE 22/07 | HOC - SOILS

SAMPLE 200N/50E TAKEN 50 METERS EAST OF 200N/00 40 CM TO BOTTOM OF PIT.

SAMPLE IS RUSTY BROWN SILT, SAND & GRAVEL

SAMPLE #202/R TAKEN FROM OUTCROP 3 METERS SOUTH OF PIT 200N/50E.

SAMPLE IS GREY CHERT ON QUARTZITE WITH RUSTY LIMONITE ON THE FRACTURES AS PER LAST 2 ROCK SAMPLES.

OUT CROP STRIKES NORTHWEST 284° & DIPS 20° SOUTH.

SAMPLE 200N/100E TAKEN 100 METERS EAST OF 200N/00 40 CM TO BOTTOM OF PIT.

SAMPLE 200N/100E IS RUSTY BROWN SILT, SAND, CLAY & GRAVEL

ROCK SAMPLE 203/R TAKEN FROM OUTCROP 3 METERS SOUTH OF PIT.

SAMPLE IS GREY PHYLLITE WITH RUSTY LIMONITE ON THE FRACTURES

PIT SAMPLE 100N/025E TAKEN 60 CM DOWN.
SAMPLE IS RUSTY BROWN CLAY, SAND, SILT & GRAVEL.

PIT SAMPLE 100N/050E TAKEN 60 CM DOWN
SAMPLE IS BROWN GRAVEL, SAND & SILT.

JUNE 22/07

PIT SAMPLE 100N/075E TAKEN 60 CM DOWN.
SAMPLE IS TAN CLAY, SAND, SILT & GRAVEL

PIT SAMPLE 100N/100E TAKEN 60 CM DOWN.
SAMPLE IS BROWN SAND, SILT & GRAVEL

FIELD

JUNE 23/07 | HOC - SOILS

SAMPLE #0/050W TAKEN FROM
60 cm deep in pit LOCATED
50 METERS WEST OF POST #1 HOC #2
BROWN SAND, SILT & GRAVEL
COBBLES OF GRANITE, QUARTZ &
BASALT TO 20 cm.

PIT SAMPLE #0/100W TAKEN
FROM 60 cm. PIT LOCATED
100 METERS WEST OF POST #1
HOC #2.
TAN SAND, SILT & GRAVEL
COBBLES OF GRANITE & QUARTZ
TO 10 cm.

PIT SAMPLE #0/150W TAKEN
FROM 60 cm. LOCATED 150 m. W
OF POST #1 - HOC #2
TAN SAND, SILT & GRAVEL.

JUNE 23/07

PIT SAMPLE #0/200W TAKEN AT 40 CM LOCATED 200 METERS WEST OF POST #1-HOC #2.
SAMPLE IS TAN SAND, SILT & GRAVEL. COBBLES OF ROUNDED GRANITE TO 20 CM.

PIT SAMPLE #0/250W TAKEN AT 40 CM. LOCATED 250 METERS WEST OF POST #1-HOC #2.
SAMPLE IS BROWN SAND, SILT & GRAVEL. COBBLES OF ROUNDED GRANITE & ANGULAR PHYLITE.

PIT SAMPLE #0/300W TAKEN @ 60 CM LOCATED 300 METERS WEST OF HOC #2 POST #1.
SAMPLE IS BROWN SAND, SILT & GRAVEL. COBBLES OF ROUND GRANITE & ANGULAR QUARTZ IN PIT.

JUNE 23/07

PIT SAMPLE 4/00S/050W 60 CM. LOCATED 50 METERS WEST OF 4/00 SOUTH/00
SAMPLE IS BROWN SILT, SAND & GRAVEL. ROUND COBBLES & BOULDER GRANITE TO BOTTOM OF PIT.

PIT SAMPLE 4/00S/050E @ 60 CM LOCATED 50 METERS EAST OF 4/00S/00.
SAMPLE IS BROWN SAND, SILT & GRAVEL. ROUND GRANITE BOULDER TO BOTTOM OF PIT.

PIT SAMPLE 4/00S/100E @ 60 CM LOC: 100 M EAST OF 4/00S/00
SAMPLE IS BROWN SAND, SILT & GRAVEL WITH MINOR ORGANICS. ROUNDED GRANITE BOULDERS

FIELD

JUNE 23/07

PIT SAMPLE 4005/150E @ 60 CM. LOC: 150 M EAST OF 4005/00
SAMPLE IS BROWN SAND, SILT & GRAVEL WITH MINOR ORGANICS
ROUND GRANITE BOULDERS.

PIT SAMPLE 4005/200E @ 50 CM
LOC: 200 M. EAST OF 4005/00
SAMPLE IS BROWN SAND, SILT & GRAVEL WITH MINOR ORGANICS
ROUND GRANITE BOULDERS.

JUNE 24/07

PIT SAMPLE 16/000 @ 50 CM
LOC: 100 METERS NORTH OF POST #2 HOC #16
SAMPLE IS RUSTY BROWN - SAND, SILT & GRAVEL.
COBBLES OF GRANITE QUARTZ & SHALE TO BOTTOM OF PIT.

PIT SAMPLE 16/050E @ 50 CM
LOC: 50 METERS EAST OF 16/000
SAMPLE IS RUSTY BROWN SAND, SILT & GRAVEL.
COBBLES OF GRNT & SHALE.

PIT SAMPLE 16/100E @ 50 CM
LOC: 100 METERS EAST OF 16/000
SAMPLE IS BROWN SAND, SILT & GRAVEL.
COBBLES OF GRANITE TO BOTTOM OF PIT.

FIELD

JUNE 24/07

PIT SAMPLE 16/150E @ 55cm
LOC: 150 M EAST OF 16/000
SAMPLE IS RUSTY BROWN SAND, SILT & GRAVEL. COBBLES OF ROUNDED GRANITE, SHALE & QUARTZ TO BOTTOM OF PIT.

PIT SAMPLE 16/200 EAST@ 60cm
LOC; 200 M. EAST OF 16/000
SAMPLE IS GRAVEL WITH MINOR SILT & SAND
CLASTS OF GRANITE TO 3cm TO DEPTH.

PIT SAMPLE 16/050 WEST@ 55cm
LOC: 50 M. WEST OF 16/000
SAMPLE IS TAN BROWN SILT, SAND & GRAVEL.
GRANITE BOULDERS TO 40 cm
ANGULAR SHALE TO 10 cm TO BOTTOM OF PIT.

JUNE 28/07

STAKING ARK #1 - #8.

ARK #1 & #2: 0463231E/6716408N
ARK #3 & #4: 0463431E/6716808N
ARK #5 & 6: 0463631E/6717208N
ARK #7 & 8: 0463831E/6717608N
POST #2 7 & 8: 0464031E/6718008N

FIELD

July 10/07

Ivan & I mobilized to Mister Camp.

July 10/07 & 11/07

Ivan & I staked claims on the Lena & Beng Blocks 105 B/2.

Lena #1 & 2 Post #1
0416454 E / 6671775 N ✓

Lena #7 & 8 Post #1
0416454 E / 6672225 N. ✓

Post #2 Lena 7 & 8
0416454 E / 6672675 N. ✓

July 10/07 & 11/07

Beng #1 & 2 Post #1
0412354 E / 6678085 N ✓

Beng #3 & 4 Post #1
0412704 E / 6678335 N ✓

Beng #5 & 6 Post #1
0413064 E / 6678595 N. ✓

Beng #7 & 8 Post #1
0413424 E / 6678855 N ✓

Beng #9 & 10 Post #1
0414074 E / 6678825 N ✓

Beng #11 & 12 Post #1
0414434 E / 6679085 N ✓

Beng #13 & 14 Post #1
0414794 E / 6679345 N ✓

Beng #15 & 16 Post #1
0415154 E / 6679605 N ✓

FIELD

POST #2 BEING 15 & 16
0415514 E / 6679865 N

July 12/07

REGISTERED CLAIMS IN WATSON LAKE.

July 13/07

I VAN & I PROSPECTED THE MS CREEK AREA TO MEISTER RIVER.

FIELD

JULY 14/07

IVAN & I SOIL SAMPLED THE LENA CLAIMS.

SAMPLE # ~~L-01-S~~ 0317 TAKEN 10 METERS EAST OF POST #1 TANK #4 FOR ICP @ 40cm SAMPLE IS BROWN SILT, SAND, GRAVEL WITH ROUNDED COBBLES OF GRANITE TO BOTTOM OF PIT.

PIT SAMPLE # ~~L-02-S~~ 0318 TAKEN 100 m EAST OF ~~L-01-S~~ 0317 SAMPLE IS BROWN SILT, SAND & GRAVEL WITH MINOR ORGANICS. ROUNDED COBBLES OF GRANITE TO BOTTOM OF PIT.

PIT SAMPLE #0319 TAKEN 200 m EAST OF #0317 @ 50 cm FOR ICP. SAMPLE IS BROWN SAND, SILT, GRAVEL WITH MINOR ORGANICS.

JULY 14/07 LENA - SOILS

PIT SAMPLE #0320 TAKEN 300 m EAST OF 0317 @ 50 cm SAMPLE IS BROWN CLAY, SILT, SAND & GRAVEL WITH MINOR ORGANICS

PIT SAMPLE #0321 TAKEN 400 m E OF 0317 @ 50 cm. TAN SILT & SAND WITH MINOR ORGANICS.

PIT SAMPLE #0322 TAKEN 500 m E OF 0317 @ 50 cm DARK BROWN SAND, SILT & GRAVEL

PIT SAMPLE #0323 TAKEN @ 45cm 600 METERS EAST OF 0317 DARK BROWN SAND, SILT & GRAVEL

ROCK SAMPLE #01/07/~~LR~~ R-1 TAKEN FROM PIT #0323 SAMPLE IS RUSTY QUARTZ VEIN & SCHIST.

FIELD

ICP

July 14/07 Lena - Soils

Pit Sample #0324 taken @ 60cm
700 m E of #0317.
Sample is brown sand, silt & gravel with minor organics.

Pit Sample #0325 taken @ 45 cm
800 m East of 0317
Sample is dark brown sand, silt, gravel & minor organics.

Pit Sample #0326 taken @ 50 cm
900 m East of 0317
Sample is dark brown sand, silt, gravel & minor organics.

ICP

July 15/07 - Lena - Soils

Pit Sample #0327 taken @ 45cm
100m. North of #0317.
Sample is dark brown sand, silt & gravel.

Pit Sample #0328 taken @ 45cm.
100 m West of #0327
Sample is dark brown sand, silt & minor organics.

Pit Sample #0329 taken @ 45cm
100 m East of 0327
Sample is tan sand, silt & gravel

Pit Sample #0330 taken @ 45 cm
200 m. E of #0327
Sample is tan sand, silt & gravel.

Pit Sample #0331 taken @ 45 cm
300 m E of #0327
Sample is tan sand, silt, gravel & minor organics

FIELD

July 15/07 LENA - SOILS

PIT SAMPLE #0332 TAKEN @ 50 cm.
100 m NORTH OF #0327
SAMPLE IS TAN SAND, SILT, CLAY & GRAVEL.

PIT SAMPLE #0333 TAKEN @ 45 cm
100 m WEST OF #0332
SAMPLE IS TAN SAND, SILT & GRAVEL.

PIT SAMPLE #0334 TAKEN @ 45 cm
50 m EAST OF #0332
SAMPLE IS BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

PIT SAMPLE #0335 TAKEN @ 45 cm
150 m E OF 0332
SAMPLE IS TAN SAND, SILT, GRAVEL & MINOR ORGANICS.

PIT SAMPLE #0336 TAKEN @ 50 cm
250 m E OF 0332
SAMPLE IS BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

July 15/07 LENA - SOILS

PIT SAMPLE #0337 TAKEN @ 45 cm
100 m NORTH OF #0332
SAMPLE IS TAN SAND, SILT & GRAVEL.

PIT SAMPLE #0338 TAKEN @ 45 cm
30 m WEST OF #0337
SAMPLE IS TAN SAND, SILT & GRAVEL.

PIT SAMPLE #0339 TAKEN @ 60 cm
50 m EAST OF 0337
SAMPLE IS TAN SAND, SILT & GRAVEL.

PIT SAMPLE #0340 TAKEN @ 45 cm
100 m E OF #0337
SAMPLE IS TAN SAND, SILT & GRAVEL.

PIT SAMPLE #0341 TAKEN @ 45 cm
150 m E OF #0337
SAMPLE IS BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

FIELD

JULY 16/07 RANCHERIA REGION

RAIN DAY

RE SUPPLY IN WATSON LAKE

IVAN & I RESTAKED OPHIR #1 - #[redacted] ON RETURN TO SPENCER CREEK

#1 & 2	TIME:	4: PM
#3 & 4	"	: 4:30 PM
#5 & 6	"	: 5: PM
#7 & 8	"	: 5:30 PM
#9 & 10	"	: 6: PM

I.C.P.

JULY 17/07 BERG SOILS

PIT SAMPLE #0342 TAKEN @ 45 cm ON BERG #[redacted]9 100 m NE OF POST #1

SAMPLE IS DARK BROWN SAND, SILT, GRAVEL & MINOR ORGANICS

PIT SAMPLE #0343 TAKEN @ 45 cm ON BERG #8, 250 m W OF 0342.

SAMPLE IS DARK BROWN SAND, SILT & GRAVEL.

PIT SAMPLE #0344 TAKEN @ 45 cm ON BERG #8 70 m W OF 0343

SAMPLE IS BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

PIT SAMPLE #0345 TAKEN @ 45 cm ON BERG #8 50 m W. OF 0344

SAMPLE IS BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

FIELD

July 17/07 Berg - Soils

Pit Sample #0346 taken @ 45 cm 100 m W of 0344
Sample is Brown sand, silt & gravel

Pit Sample 0347 taken @ 45 cm 220 m W of 0346 near cat trench on Berg #6
Sample is Brown sand, silt, gravel & minor organics

Rock Sample #01/07/BR taken from float in cat trench 15 m E of #0347.
Sample is grey Qtz vein & biotite schist.

Rock Sample #01/07/BR-3 taken from float in cat trench 4/5 m E of #0347
Sample is grey Qtz vein from biotite schist.

July 17/07 Berg - Soils

Pit Sample #0348 taken @ 50 cm 50 m. North of #0343
Sample is Brown sand, silt, gravel & minor organics

Rock Sample #01/07/BR-4 taken from cat trench 31 m W of #0348
Sample is schist breccia with chalcopyrite, pyrite, Qtz & oxidized sulfides.

Pit Sample #0349 taken @ 50 cm 100 m N of #0348
Sample is Brown clay, silt, sand & gravel.

Pit Sample #0350 taken @ 50 cm. 225 m N. of #0349.
Sample is Brown clay, silt, sand, gravel & minor organics

FIELD

ICP

July 17/07 | BEng Soils

Pit sample #0351 taken @ 50cm
120m N of #0350
Sample is brown, sand, silt & gravel.

ICP

July 18/07 | BEng - Soils

Pit Sample #0352 taken @ 24cm
200m N of #0351
Sample is brown, sand, silt & gravel on schist bedrock

Pit Sample #0353 taken @ 24cm
50m N of #0352
Sample is brown, sand, silt & gravel on schist bedrock

Pit Sample #0354 taken @ 45cm
50m N of 0353
Sample is brown, sand, silt & gravel on schist bedrock.

Pit Sample #0355 taken @ 24cm
50m W of 0354
Sample is black, sand, silt, gravel & minor organics on schist bedrock.

Pit Sample #0356 taken @ 60cm
50m W of #0355
Sample is brown, sand, silt & gravel

FIELD

ICP

July 18/07 Beng - Soils

Pit Sample #0357 taken @ 45cm
50 m W of #0356
Sample is Rusty Brown, sand, silt, gravel & minor organics.

Pit Sample #0358 taken @ 50 cm
50 m W of #0357
Sample is Brown sand, silt, gravel & minor organics.

Pit Sample #0359 taken @ 45 cm
200 m South of #0358
Sample is Brown sand, silt, gravel & minor organics.

Pit Sample #0360 taken @ 45 cm
75 m E of #0359
Sample is Brown clay, sand, silt & gravel.

Pit Sample #0361 taken @ 45 cm
100 m E of 0360
Sample is Brown sand, silt & gravel.

ICP

July 18/07 Beng - Soils

Pit Sample #0362 taken @ 50 cm
100 m E of #0361
Brown sand, silt, gravel

Pit Sample #0363 taken @ 45 cm
100 m. E of #0362
Brown sand, silt, gravel.

Pit Sample #0364 taken @ 45 cm
100 m E of #0363
Brown sand, silt & gravel

Pit Sample #0365 taken @ 45 cm
100 m E of #0364
Rusty Brown sand, silt & gravel

Pit Sample #0366 taken @ 45 cm
100 m. E of #0365
Rusty Brown sand, silt & gravel

Pit Sample #0367 taken @ 45 cm
100 m E of #0366
Clay rich sand, silt & gravel

FIELD

ICP

JULY 18/07 BERG SOILS

PIT SAMPLE #0368 TAKEN @ 60 CM
100 M E OF #0366
RUSTY BROWN SAND, SILT & GRAVEL
TAKEN TO COMPARE TO CLAY RICH
#0367.

PIT SAMPLE #0369 TAKEN @ 45 CM
20 M WEST OF NE CAT TRENCH
ON BERG #8
RUSTY BROWN SAND, SILT & GRAVEL

PIT SAMPLE #0370 TAKEN @ 45 CM
60 M S OF #0369.
RUSTY BROWN SAND, SILT & GRAVEL

RANCHERIA REGION

JULY 19/07 OPHIR PROSPECT

IVAN & I PROSPECTED THE
OPHIR CAT TRENCHING
TOOK SAMPLE #01/07/R-5
FROM OUT CROP OF MANGANESE
OXIDE & GALENA.

01 07 R-6
SAMPLE #06/07/R FROM MnO2 &
GALENA IN CAT TRENCH ON OPHIR #7

01 07 R-7
SAMPLE #07/07/R FROM MnO2 SHALES
IN CAT TRENCH ON OPHIR #14

01 07 R-8
SAMPLE #08/07/R FROM FUCHITE &
LIMESTONE ON OPHIR #12

01 07 R9
SAMPLE #09/07/R FROM QTZ VEIN IN
FUCHITE & LIMESTONE ON OPHIR #12

01 07 R-10
SAMPLE #10/07/R FROM RED CALCITE
BRECCIA IN CAT TRENCH ON J-T #8

01 07 R-11
SAMPLE #11/07/R FROM YELLOW CALCITE
BRECCIA ON J-T #7

FIELD

SAMPLE RECORD 0318

Project Name LENA - SOILS

Sampler's Initials WSC

Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	667 1840 0415667
Lat./Long.	
Line #/Station #	LINE 1-S 0318
Elevation	(feet) 1507 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	(absent) weak moderate strong

VEGETATION

Species	GRASS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	MOSS

COMMENTS

Location: 100 METERS EAST OF POST #1 ; LENA #4

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL WITH MINOR ORGANICS

SAMPLE RECORD 0317

Project Name LENA - SOILS

Sampler's Initials WSC

Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	667 1791 0415579
Lat./Long.	
Line #/Station #	#1 SOUTH BASELINE 0317
Elevation	(feet) 1514 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	(absent) weak moderate strong

VEGETATION

Species	GRASS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	MOSS

COMMENTS

Location: 10 METERS EAST OF POST #1 LENA #4

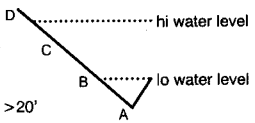
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

DARK BROWN SILT, SAND, & GRAVEL

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊60⌋ ~~(inches)~~ cm

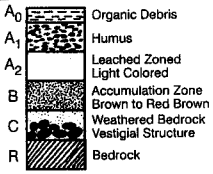
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

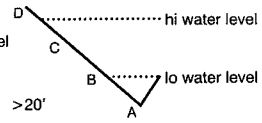
Slope Direction ⌊EAST⌋ Angle ⌊10⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊60⌋ ~~(inches)~~ cm

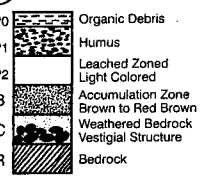
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊10⌋ °



SAMPLE RECORD 0320

Project Name LENA SOILS

Sampler's Initials WSG
Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6671932 0415844
Lat./Long.
Line #/Station # #1 S 0320-1-4
Elevation (feet) 1486 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species DWARF BIRCH

COMMENTS

Location: 300 METERS EAST OF POST #1 ; LENA #4

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN CLAY, SAND, SILT & GRAVEL

SAMPLE RECORD 0319

Project Name LENA T SOILS

Sampler's Initials WSG
Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6671892 0415752
Lat./Long.
Line #/Station # LINE #1 S 0319-1-4
Elevation (feet) 1500 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species GRASS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species MOSS

COMMENTS

Location: 200 METERS EAST OF POST #1 LENA #4

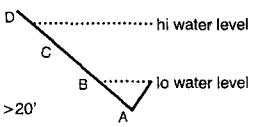
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL MINOR ORGANICS

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ CM

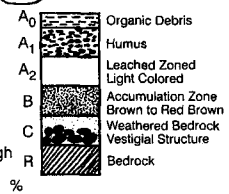
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

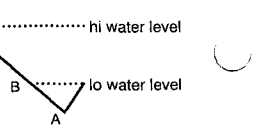
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ CM

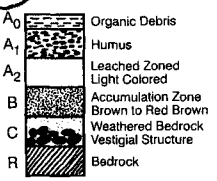
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction E Angle 10 °



SAMPLE RECORD 0322

Project Name LENA - SOILS

Sampler's Initials WSG

Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6671986 0411603 6

Lat./Long.

Line #/Station # #1 S 0322-1-4

Elevation (feet) 1456 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 500 M EAST OF POST # 1 LENA #4

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

DARK BROWN SAND, SILT, GRAVEL & MINOR ORGANICS

SAMPLE RECORD 0321

Project Name LENA - SOILS

Sampler's Initials WSG

Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # #1 S 0321-1-4

Elevation (feet) 1476 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF-BIRCH

COMMENTS

Location: 400 METERS EAST OF 0317

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

TAN SILT & SAND WITH MINOR ORGANICS

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

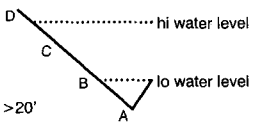
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 (inches) CM

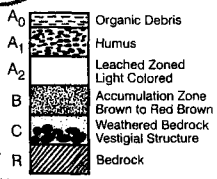
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

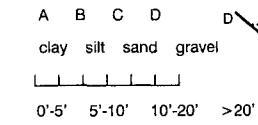
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color ⌊ ⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 (inches) CM

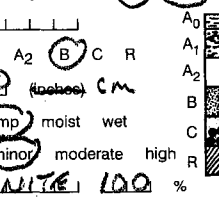
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction E Angle 10 °



SAMPLE RECORD 0324

Project Name: LENA-T. SOILS

Sampler's Initials: WSC

Date: 14 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6672023 / 0416240
Lat./Long.	
Line #/Station #	#1S / 0324-1-4
Elevation	(feet) / 1424 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	SPRUCE

COMMENTS

Location: 700 M EAST OF 0317

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

TAN SILT, SAND & GRAVEL

ORGANICS 5CM FROM TOP OF PIT

SAMPLE RECORD 0323

Project Name: LENA-T. SOILS

Sampler's Initials: WSC

Date: 14 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6672010 / 0416134
Lat./Long.	
Line #/Station #	#1S / 0323-1-4
Elevation	(feet) / 1438 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	DWARF-BIRCH

COMMENTS

Location: 600 M. EAST OF 0317

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

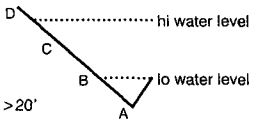
DARK BROWN SAND, SILT & GRAVEL

10 CM ORGANICS AT TOP OF PIT.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ CM

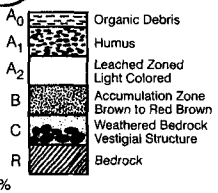
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

QUARTZ 10 %

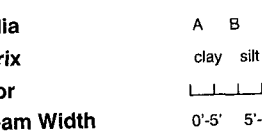
Slope Direction E Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 60 ~~(inches)~~ CM

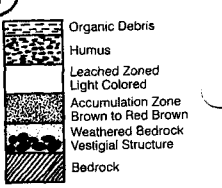
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 10°



SAMPLE RECORD 0326

Project Name LENA-SOILS

Sampler's Initials WSG

Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6672136	0416407
Lat./Long.		
Line #/Station #	#1S	0317-1-4
Elevation	(feet)	1396 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	SPRUCE

COMMENTS

Location: 900 m E of #0317

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

DARK BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.
GLACIAL ABLATION TILLS.

SAMPLE RECORD 0325

Project Name LENA-SOILS

Sampler's Initials WSG

Date 14 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6672077	0416326
Lat./Long.		
Line #/Station #	#1S	0325-1-4
Elevation	(feet)	1412 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	DWARF-BIRCH

COMMENTS

Location: 800 m EAST OF #0317

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

DARK BROWN, SAND, SILT, GRAVEL & MINOR ORGANICS

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

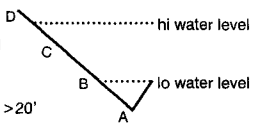
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ CM

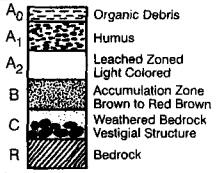
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

SCHIST 100 %

Slope Direction EAST Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

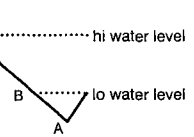
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 60 ~~(inches)~~ CM

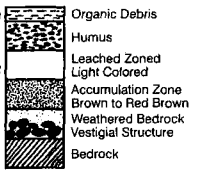
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 20 °



SAMPLE RECORD 0328

Project Name LENA-SOILS

Sampler's Initials WSG

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6671865 0415447
Lat./Long.	
Line #/Station #	#2 NORTH 0328-1-4
Elevation	(feet) 1533 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	

COMMENTS

Location: 100 METERS WEST OF #0327

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

DARK BROWN SAND, SILT & GRAVEL COBBLES & BOULDERS OF GRANITE ABLATION TILL

MINOR ORGANICS TO DEPTH 45CM PIT.

MnO_2 STAIN ON BOULDERS

SAMPLE RECORD 0327

Project Name LENA-SOILS

Sampler's Initials WSG

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6671887 0415555
Lat./Long.	
Line #/Station #	#2 NORTH 0327-1-4
Elevation	(feet) 1516 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	DWARF BIRCH

COMMENTS

Location: 100 METERS NORTH OF #0317

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

DARK BROWN SAND, SILT, GRAVEL & MINOR ORGANICS. ROUNDED COBBLES & BOULDERS OF GRANITE ORGANICS 2.5 CM @ TOP OF PIT GLACIAL ABLATION TILL.

MnO_2 STAIN ON BOULDERS & COBBLES.

SAMPLE RECORD

STREAM SEDIMENT

- **Media** A B C D
- **Matrix** clay silt sand gravel
- **Color** ⎵⎵⎵⎵⎵⎵⎵⎵
- **Stream Width** 0'-5' 5'-10' 10'-20' >20'
- **Stream Volume** dry damp stagnant slow moderate fast
- **Stream Gradient** flat shallow moderate steep
- **Organic Content** none minor moderate high
- **Surface Oxides** none FeO MnO Both Other
- **Outcrop** no bedrock bedrock within 100' flows on bedrock
- **Float Type(s)** ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵ %
- ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵ %

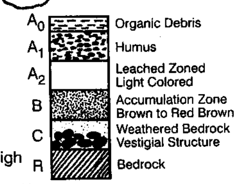
D — hi water level; C; B — lo water level; A

ROCK

- **Media** Grab Chip Channel Cuttings Core Sludge
- From ⎵⎵⎵⎵⎵ To ⎵⎵⎵⎵⎵
- **Source** Outcrop Float Dump Gossan Vein Fracture Fault
- **Lithology** ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵⎵⎵⎵⎵⎵
- **Color** ⎵⎵⎵⎵⎵⎵⎵⎵ Intensity
- **Alteration** ⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵ Lo Mod Hi
- **Mineralization** ⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵ Lo Mod Hi
- **Weathering** fresh weak moderate strong saprolite
- **Fracturing** none minor moderate high breccia

(SOIL)

- **Media** Residual Colluvial Alluvial (Till) Regolith Saprolite
- **Matrix** Humus Clay Loam (Silt) (Sand)
- **Color** BROWN
- **Horizon** A_0 A_1 A_2 (B) C R
- **Sample Depth** 45 ~~(inches)~~ CM
- **Moisture** dry (damp) moist wet
- **Organics** none (minor) moderate high
- **Float Type(s)** GRANITE 100 %
- ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵ %
- **Slope** Direction NE Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

- **Media** A B C D
- **Matrix** clay silt sand gravel
- **Color** ⎵⎵⎵⎵⎵⎵⎵⎵
- **Stream Width** 0'-5' 5'-10' 10'-20' >20'
- **Stream Volume** dry damp stagnant slow moderate fast
- **Stream Gradient** flat shallow moderate steep
- **Organic Content** none minor moderate high
- **Surface Oxides** none FeO MnO Both Other
- **Outcrop** no bedrock bedrock within 100' flows on bedrock
- **Float Type(s)** ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵ %
- ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵ %

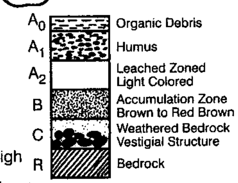
D — hi water level; C; B — lo water level; A

ROCK

- **Media** Grab Chip Channel Cuttings Core Sludge
- From ⎵⎵⎵⎵⎵ To ⎵⎵⎵⎵⎵
- **Source** Outcrop Float Dump Gossan Vein Fracture Fault
- **Lithology** ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵⎵⎵⎵⎵⎵
- **Color** ⎵⎵⎵⎵⎵⎵⎵⎵ Intensity
- **Alteration** ⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵ Lo Mod Hi
- **Mineralization** ⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵⎵ Lo Mod Hi
- **Weathering** fresh weak moderate strong saprolite
- **Fracturing** none minor moderate high breccia

(SOIL)

- **Media** Residual Colluvial Alluvial (Till) Regolith Saprolite
- **Matrix** Humus Clay Loam (Silt) (Sand)
- **Color** BROWN
- **Horizon** A_0 A_1 A_2 (B) C R
- **Sample Depth** 45 ~~(inches)~~ CM
- **Moisture** dry (damp) moist wet
- **Organics** none (minor) moderate high
- **Float Type(s)** GRANITE 100 %
- ⎵⎵⎵⎵⎵⎵⎵⎵ ⎵⎵⎵ %
- **Slope** Direction EAST Angle 20 °



SAMPLE RECORD 0329

Project Name LENA - SOILS

Sampler's Initials WSC

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6671923 0415649

Lat./Long.

Line #/Station # #2 NORTH 0329-1-4

Elevation (feet) 1507 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species SPRUCE

COMMENTS

Location: 100 M. EAST OF 0327

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL
TAN SAND, SILT, GRAVEL & MINOR ORG.
GRANITE COBBLES & BOULDERS
ORGANIC 7½ CM
ASH 10CM

SAMPLE RECORD 0330

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6671962 0415740

Lat./Long.

Line #/Station # #2 NORTH 0330-1-4

Elevation (feet) 1503 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 200 M EAST OF #0327

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

GLACIAL ABLATION TILL
TAN SAND, SILT & GRAVEL
ORG 7½ CM
GRANITE COBBLES & BOULDERS
MINOR ORGANICS TO 45 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

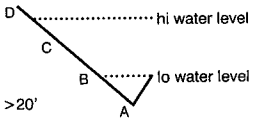
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ___ %

_____ ___ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ___ To ___

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

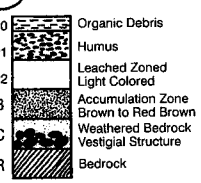
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

_____ ___ %

Slope Direction E Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

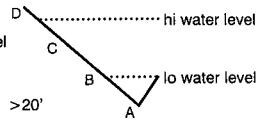
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ___ %

_____ ___ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ___ To ___

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

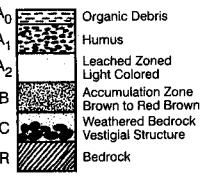
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 99 %

QTZ 1 %

Slope Direction EAST Angle 10°



SAMPLE RECORD 0332

Project Name LENA - SOILS

Sampler's Initials WSG

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6671986 0415528

Lat./Long.

Line #/Station # #3 NORTH 0332-1-4

Elevation (feet) 1517 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species LUPINS

COMMENTS

Location: 100m N. OF 0327

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

GLACIAL ABLATION TILL
BROWN SAND, SILT, CLAY & GRAVEL
GRANITE COBBLES & BOULDERS.
ORGANIC LAYER 2½ cm
DEPTH OF PIT 50cm.

SAMPLE RECORD 0331

Project Name LENA - SOILS

Sampler's Initials WSG

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6672004 0415830

Lat./Long.

Line #/Station # #2 NORTH 0331-1-4

Elevation (feet) 1489 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 300 M EAST OF 0327

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL
TAN SAND, SILT & GRAVEL
GRANITE COBBLES & BOULDERS
ORGANIC 15 cm
ASH @ 20 cm
MINOR ORGANICS TO 45 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

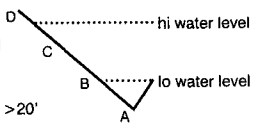
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

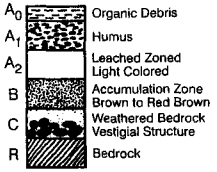
Sample Depth 45 ~~(inches)~~

Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 % _____ %

Slope Direction E Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

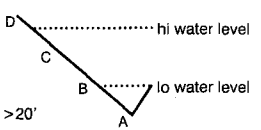
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

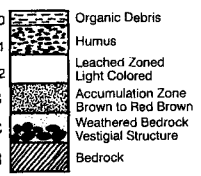
Sample Depth 50 ~~(inches)~~ cm

Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) GRANITE 100 % _____ %

Slope Direction NE Angle 10°



SAMPLE RECORD 0334

Project Name LENA - SOILS

Sampler's Initials WSC

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 667 041

Lat./Long.

Line #/Station # #3 NORTH 0334-1-4

Elevation (feet) 1513 (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50 m E OF # 0332

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL
BROWN SAND, SILT, GRAVEL & MINOR ORGANICS
GRANITE & QUARTZ COBBLES

ORGANIC LAYER 5cm

SAMPLE RECORD 0333

Project Name LENA - SOILS

Sampler's Initials WSC

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 667 1963 041 5427

Lat./Long.

Line #/Station # #3 NORTH 0333-1-4

Elevation (feet) 1527 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 100 m WEST OF # 0332

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

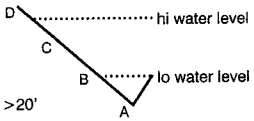
GLACIAL ABLATION TILL
TAN SAND, SILT & GRAVEL
GRANITE COBBLES & BOULDERS
DEPTH OF PIT 45 cm

ORGANIC LAYER 2.5 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

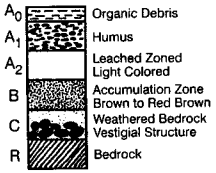
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

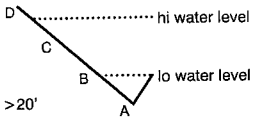
Slope Direction NORTH Angle 35°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

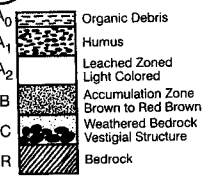
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 80 %

QTZ 20 %

Slope Direction NE Angle 15°



SAMPLE RECORD 0335

Project Name LENA SOILS

Sampler's Initials WSG

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6672043 0415665

Lat./Long.

Line #/Station # #3 NORTH 0335-1-4

Elevation (feet) 1501 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 150m E OF 0332

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL
TAN SAND, SILT, GRAVEL & MINOR ORGANICS
GRANITIC COBBLES & BOULDERS TO 50 CM

ORGANIC LAYER > 5 CM
DEPTH OF PIT 45CM

SAMPLE RECORD 0336

Project Name LENA

Sampler's Initials WSG

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6672087 0415756

Lat./Long.

Line #/Station # #3 NORTH 0336-1-4

Elevation (feet) 1494 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 250 E OF 0332

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL
BROWN SAND, SILT, GRAVEL & MINOR ORGANICS
GRANITE BOULDERS & COBBLES

ORGANICS 10 CM

DEPTH OF PIT 50 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

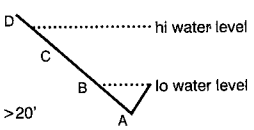
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ cm

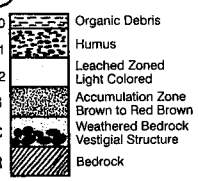
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 100 %

_____ %

Slope Direction NE Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

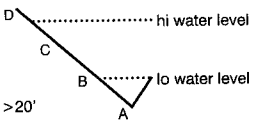
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

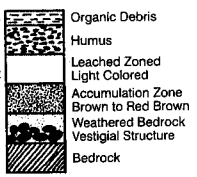
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 100 %

_____ %

Slope Direction NE Angle 15°



SAMPLE RECORD 0338

Project Name LENA T. SOILS

Sampler's Initials WSG

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6672081 0415499

Lat./Long.

Line #/Station # #4 NORTH 0338

Elevation (feet) 1500 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species LICHENS

COMMENTS

Location: 30 M WEST OF 0337

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL WITH GRANITE BOULDERS

TAN SAND, SILT & GRAVEL

ORGANIC LAYER 5 cm

DEPTH OF PIT 45 cm MINOR ORGANICS THROUGH-OUT

SAMPLE RECORD 0337

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6672087 0415528

Lat./Long.

Line #/Station # #34-N 0337-1-4

Elevation (feet) 1498 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 100 M NORTH OF 0332

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL WITH GRANITE BOULDERS 3m DEEP OVERLYING RUSTY SCHIST

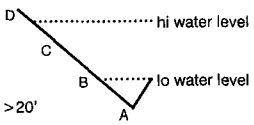
TAN SAND, SILT & GRAVEL WITH MINOR ORGANICS TO 45 cm.

ORGANIC LAYER 30 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ CM

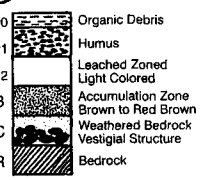
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

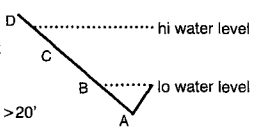
Slope Direction N Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ CM

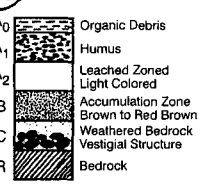
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANIT 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction NW Angle 45°



SAMPLE RECORD 0340

Project Name LENA - SOILS

Sampler's Initials WSC

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6672115 0415643

Lat./Long.

Line #/Station # #4 NORTH 0340-1-4

Elevation (feet) 1482 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species GRASS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species MOSS

COMMENTS

Location: 100 M EAST OF # 0337

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL TO 3 METERS ABOVE RUSTY SCHIST BEDROCK GRANITIE & SCHIST THROUGH-OUT

BROWN SAND, SILT, GRAVEL & MINOR ORGANICS TO 40 CM

ORGANIC LAYER 5 cm

DEPTH OF PIT 40 cm

SAMPLE RECORD 0339

Project Name LENA SOILS

Sampler's Initials WSC

Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6672106 0415580

Lat./Long.

Line #/Station # #4 NORTH 0339-1-4

Elevation (feet) 1493 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species ALDER WILLOW

COMMENTS

Location: 50 M EAST OF 0337

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ABLATION TILL TO 3 METERS OVER RUSTY SCHIST GRANITIE BOULDERS TO DEPTH,

TAN SAND, SILT, GRAVEL & MINOR ORGANICS

ORGANIC LAYER 2.5 cm

DEPTH 60 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

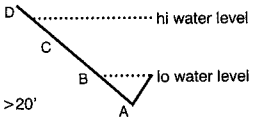
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 60 ~~(inches)~~ cm

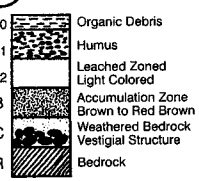
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

____ ____ %

Slope Direction NE Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

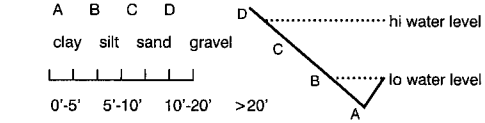
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

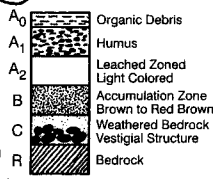
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 70 %

SCHIST 30 %

Slope Direction NE Angle 40°



SAMPLE RECORD 0342

Project Name BERG - SOILS

Sampler's Initials WSC
Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6679021 0414176
Lat./Long.
Line #/Station # #1 SOUTH 0342-1-4
Elevation (feet) 1487 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species DWARF BIRCH

COMMENTS

Location: SOUTH OF HIBBING BRETCHA ZONE BERG # 8

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
GLACIAL OUTWASH TILL
DARK BROWN SILT, SAND, GRAVEL WITH CLASTS OF SCHIST, QTZ & GRNT. SURFACE BOULDERS OF GRANITE, SCHIST & QTZ TO 1 METER,
ORGANIC: 5 cm
DEPTH: 45 cm

SAMPLE RECORD 0341

Project Name LENA - SOILS

Sampler's Initials WSC
Date 15 07 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6673118 0415694
Lat./Long.
Line #/Station # #4 NORTH 0341-1-4
Elevation (feet) 1486 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species GRASS

COMMENTS

Location: 150 M EAST OF 0337

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
ABLATION TILL WITH ANGULAR SCHIST LARGE ROUNDED GRANITIC BOULDERS ON SURFACE.

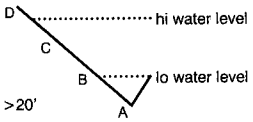
BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

ORGANIC 10 cm
DEPTH 45 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

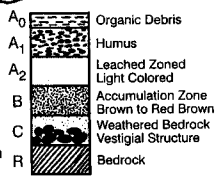
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊10⌋ %

SCHIST ⌊90⌋ %

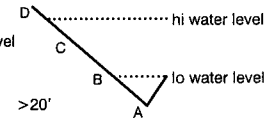
Slope Direction N Angle 45°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

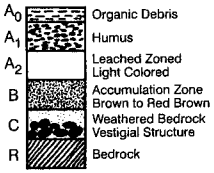
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊50⌋ %

SCHIST ⌊50⌋ %

Slope Direction N Angle 20°



SAMPLE RECORD 0344

Project Name BERG - SOILS

Sampler's Initials WSG
Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6678910 0413876
Lat./Long.
Line #/Station # #1 SOUTH 0344-1-4
Elevation (feet) 1519 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species DWARF BIRCH

COMMENTS

Location: 70 m WEST OF 0343
40 m SOUTH OF HIBBING BRECHA TRENCH

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL
BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.
SURFACE BOULDERS OF SCHIST TO 1 M.
COBBLES OF ANGULAR VUGGY QTZ, SCHIST BRECHA IN SOILS.

ORGANICS: 15 CM
DEPTH: 45 CM

SAMPLE RECORD 0343

Project Name BERG - SOILS

Sampler's Initials WSG
Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6678940 0413939
Lat./Long.
Line #/Station # #1 SOUTH 0343-1-4
Elevation (feet) 1512 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species DWARF BIRCH

COMMENTS

Location: 30 m SOUTH OF HIBBING BRECHA ZONE BERG #8

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

GLACIAL OUTWASH TILL
DARK BROWN SAND, SILT & GRAVEL WITH MINOR ORGANICS
SURFACE BOULDERS OF GRANITE & SCHIST TO 1 M.
VUGGY SCHIST/QTZ BRECHA COBBLES
ORGANICS: 5 CM

DEPTH: 45 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

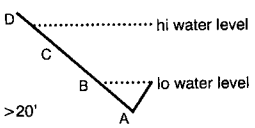
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~

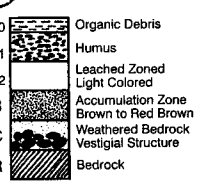
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

____ ____ %

Slope Direction N Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

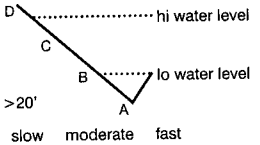
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~

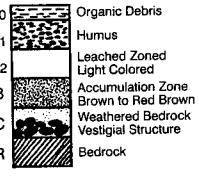
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 80 %

BRECCIA 20 %

Slope Direction N Angle 30°



SAMPLE RECORD 0345

Project Name BERG T SOILS

Sampler's Initials WSC

Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6678887 0413830

Lat./Long.

Line #/Station # #1 SOUTH 0345-1-4

Elevation (feet) 1519 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50 M WEST OF 0344

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL
SURFACE BOULDERS OF SCHIST TO 40 CM DARK BROWN SILT & GRAVEL CLASTS ARE BIOTITE SCHIST.
ORGANICS: 15 CM.
DEPTH: 45 CM.

SAMPLE RECORD 0346

Project Name BERG - SOILS

Sampler's Initials WSC

Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6678867 0413783

Lat./Long.

Line #/Station # #1 SOUTH 0346-1-4

Elevation (feet) 1524 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 100 M W OF 0344

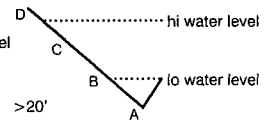
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL 1 M DEEP TO SCHIST BEDROCK.
DARK BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.
SURFACE BOULDERS OF SCHIST & GRANITE TO 1 METER.
ORGANICS: 5 CM
DEPTH: 45 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

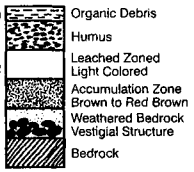
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHISTI 100 %

⌊ ⌋ ⌊ ⌋ %

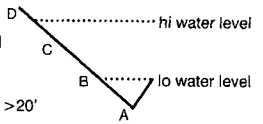
Slope Direction N Angle 30 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 (inches)

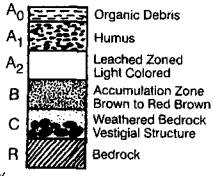
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction N Angle 15 °



SAMPLE RECORD 0348

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6678990 0413920

Lat./Long.

Line #/Station # #2 North 0348-1-4

Elevation (feet) 1496 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50 m North of 0343 ~~#~~

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

Outwash Till with surface boulders of granite, quartz & schist to >1 m.
Brown sand, silt, gravel & minor organics

Organics: 5 cm

Depth: 50 cm

SAMPLE RECORD 0347

Project Name Beng - Soils

Sampler's Initials WSG

Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6678809 0413587

Lat./Long.

Line #/Station # #1 South 0347-1-4

Elevation (feet) 1544 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species grass

COMMENTS

Location: 220 m W of 0346
near cat trenches

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

Outwash Till
Dark brown sand, silt, gravel
minor organics
surface boulders of schist > 40 cm

Organics: 15 cm

Depth: 45 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

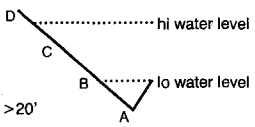
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

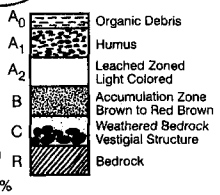
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction N Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

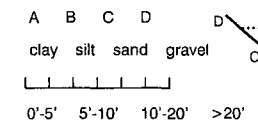
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ cm

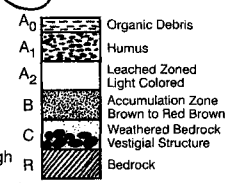
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction N Angle 30 °



SAMPLE RECORD 0350

Project Name BERG T. SOILS

Sampler's Initials WSG

Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6679265 0413740
Lat./Long.	
Line #/Station #	#2 NORTH 0350-1→4
Elevation	(feet) 1501 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	ALDER, WILLOW

COMMENTS

Location: 225 m NORTH OF 0349

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL COBBLES & BOULDERS OF SCHIST > 50 CM

BROWN CLAY, SILT, SAND, GRAVEL & MINOR ORGANICS

ORGANICS: 2 CM

DEPTH: 50 CM

SAMPLE RECORD 0349

Project Name BERG T. SOILS

Sampler's Initials WSG

Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	667 041
Lat./Long.	
Line #/Station #	#2 NORTH 0349-1-4
Elevation	(feet) 1488 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	DWARF BIRCH

COMMENTS

Location: 100 m NORTH OF 0348

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL

BROWN CLAY, SAND, SILT & GRAVEL

ANGULAR SCHIST & QTZ COBBLES.

ORGANICS: 2 CM

DEPTH: 50 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

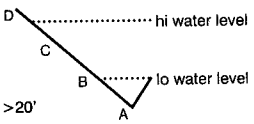
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial Till Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ cm

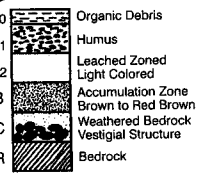
Moisture dry damp (moist) wet

Organics none (minor) moderate high

Float Type(s) SCHIST 90 %

QTZ 10 %

Slope Direction S-E Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

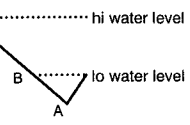
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ cm

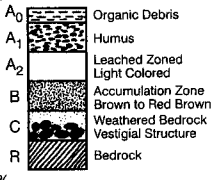
Moisture dry damp (moist) wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

_____ %

Slope Direction SE Angle 20°



SAMPLE RECORD 0352

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

NO SAMPLE

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0351

Project Name BERG - SOILS

Sampler's Initials WSG

Date 17 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679373 04 13685

Lat./Long.

Line #/Station # #2 NORTH 0351 - 1 > 4

Elevation (feet) 1506 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species BLUE BERRY

COMMENTS

Location: 120 M N OF 0350

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL 60 CM TO BEDROCK

BEDROCK IS BIOTITE (GARNET) SCHIST & QTZ GRANITE & SCHIST BOULDERS > 1 M.

ORGANIC: 10 CM

DEPTH: 50 CM.

DARK BROWN SAND, SILT & GRAVEL

MINOR ORGANICS

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

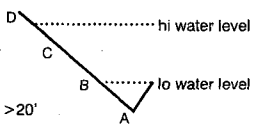
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 (inches)

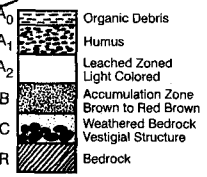
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction SE Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

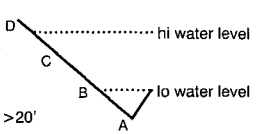
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial Till Regolith Saprolite

Matrix Humus Clay Loam Silt Sand

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Horizon A_0 A_1 A_2 B C R

Sample Depth ⌊_⌋⌊_⌋⌊_⌋ (inches)

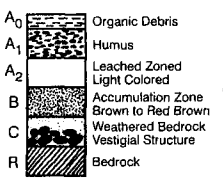
Moisture dry damp moist wet

Organics none minor moderate high

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Angle ⌊_⌋⌊_⌋ °



SAMPLE RECORD 0354

Project Name BERG - SOILS

Sampler's Initials GSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679658 0413588

Lat./Long.

Line #/Station # #2 NORTH 0354-1→4

Elevation (feet) 1516 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF-BIRCH

COMMENTS

Location: 300m NORTH OF #0351

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL 50cm TO SCHIST BEDROCK
BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.
ROUNDED GRANITE BOULDERS > 3m ON SURFACE.

ORGANICS: 15 cm
DEPTH: 215cm

SAMPLE RECORD 0353

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

SAMPLE

COMMENTS

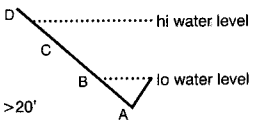
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial Till Regolith Saprolite

Matrix Humus Clay Loam Silt Sand

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Horizon A_0 A_1 A_2 B C R

Sample Depth ⌊_⌊_⌊_⌋ (inches)

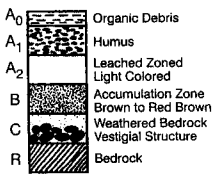
Moisture dry damp moist wet

Organics none minor moderate high

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

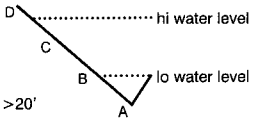
Slope Direction ⌊_⌊_⌊_⌋ Angle ⌊_⌊_⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊_45_⌋ ~~(inches)~~ CM

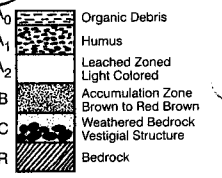
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE ⌊20⌋ %

SCHIST ⌊80⌋ %

Slope Direction ⌊NW⌋ Angle ⌊30⌋ °



SAMPLE RECORD 0356

Project Name BEMG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679640 0413489

Lat./Long.

Line #/Station # #3 WEST 0356 - 1 → 4

Elevation (feet) 1499 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF - BIRCH

COMMENTS

Location: 100 m W OF #0354

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUT WASH TILL

BROWN SAND, SILT, GRAVEL

MINOR ORGANICS

DEPTH: ~~60~~ 45 cm

ORG: 15 cm } ABOVE SAMPLES

CORRIE: 20 cm }

SAMPLE RECORD 0355

Project Name BEMG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679652 0413538

Lat./Long.

Line #/Station # #3 WEST 0355

Elevation (feet) 1507 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species NO SAMPLE

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50 m W OF 0354

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

NO SAMPLE

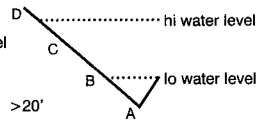
TOO SHALLOW

20 cm TO BEDROCK

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial Till Regolith Saprolite

Matrix Humus Clay Loam Silt Sand

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Horizon A_0 A_1 A_2 B C R

Sample Depth ⌊_⌋⌊_⌋⌊_⌋ (inches)

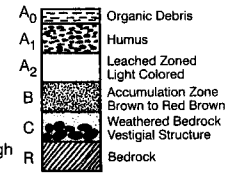
Moisture dry damp moist wet

Organics none minor moderate high

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

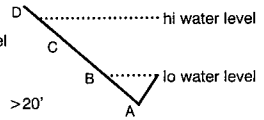
Slope Direction ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Angle ⌊_⌋⌊_⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊45⌋ ~~(inches)~~ CM

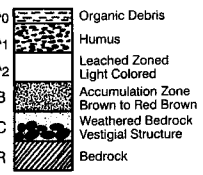
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊50⌋ %

SCHIST ⌊50⌋ %

Slope Direction ⌊N⌋ Angle ⌊15⌋ °



SAMPLE RECORD 0358

Project Name BERG - SOILS

Sampler's Initials WSC

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679612	0413391
Lat./Long.		
Line #/Station #	#3 WEST	0358-174
Elevation	(feet)	1496 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50m W OF #0357

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL WITH ROUNDED BOULDERS OF GRANITE & ANGULAR COBBLES OF SCHIST IN BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

ORG: ~~10~~ 5 cm

DEPTH: 50 cm

SAMPLE RECORD 0357

Project Name BERG - SOILS

Sampler's Initials WSC

Date (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679620	0413441
Lat./Long.		
Line #/Station #	#3 WEST	0357-174
Elevation	(feet)	1497 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50 m W OF #0356

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

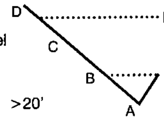
OUTWASH TILL WITH ROUNDED COBBLES & BOULDERS OF GRANITE & SCHIST, IN BROWN SAND, SILT, GRAVEL & MINOR ORGANICS

ORGANICS: 10 cm

DEPTH: 45

SAMPLE RECORD

STREAM SEDIMENT



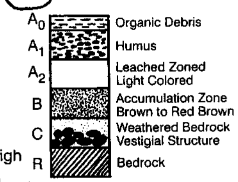
Media A B C D
Matrix clay silt sand gravel
Color |_|_|_|_|_|_|_|
Stream Width 0'-5' 5'-10' 10'-20' >20'
Stream Volume dry damp stagnant slow moderate fast
Stream Gradient flat shallow moderate steep
Organic Content none minor moderate high
Surface Oxides none FeO MnO Both Other
Outcrop no bedrock bedrock within 100' flows on bedrock
Float Type(s) |_|_|_|_|_|_|_| |_|_| %
|_|_|_|_|_|_|_| |_|_| %

ROCK

Media Grab Chip Channel Cuttings Core Sludge
From |_|_|_|_| To |_|_|_|_|
Source Outcrop Float Dump Gossan Vein Fracture Fault
Lithology |_|_|_|_|_|_|_| |_|_|_|_|_|_|_|
Color |_|_|_|_|_|_|_| Intensity
Alteration |_|_|_|_|_|_|_|_|_|_|_|_|_|_| Lo Mod Hi
Mineralization |_|_|_|_|_|_|_|_|_|_|_|_|_|_| Lo Mod Hi
Weathering fresh weak moderate strong saprolite
Fracturing none minor moderate high breccia

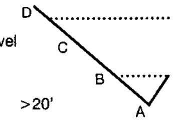
(SOIL)

Media Residual Colluvial Alluvial (Till) Regolith Saprolite
Matrix Humus Clay Loam (Silt) (Sand)
Color BROWN
Horizon A_0 A_1 A_2 (B) C R
Sample Depth 45 ~~(inches)~~ CM
Moisture dry (damp) moist wet
Organics none (minor) moderate high
Float Type(s) GRANIT 30 %
SCHIST 70 %
Slope Direction N Angle 20 °



SAMPLE RECORD

STREAM SEDIMENT



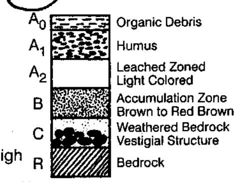
Media A B C D
Matrix clay silt sand gravel
Color |_|_|_|_|_|_|_|
Stream Width 0'-5' 5'-10' 10'-20' >20'
Stream Volume dry damp stagnant slow moderate fast
Stream Gradient flat shallow moderate steep
Organic Content none minor moderate high
Surface Oxides none FeO MnO Both Other
Outcrop no bedrock bedrock within 100' flows on bedrock
Float Type(s) |_|_|_|_|_|_|_| |_|_| %
|_|_|_|_|_|_|_| |_|_| %

ROCK

Media Grab Chip Channel Cuttings Core Sludge
From |_|_|_|_| To |_|_|_|_|
Source Outcrop Float Dump Gossan Vein Fracture Fault
Lithology |_|_|_|_|_|_|_| |_|_|_|_|_|_|_|
Color |_|_|_|_|_|_|_| Intensity
Alteration |_|_|_|_|_|_|_|_|_|_|_|_|_|_| Lo Mod Hi
Mineralization |_|_|_|_|_|_|_|_|_|_|_|_|_|_| Lo Mod Hi
Weathering fresh weak moderate strong saprolite
Fracturing none minor moderate high breccia

(SOIL)

Media Residual Colluvial Alluvial (Till) Regolith Saprolite
Matrix Humus Clay Loam (Silt) (Sand)
Color BROWN
Horizon A_0 A_1 A_2 (B) C R
Sample Depth 50 ~~(inches)~~ CM
Moisture dry (damp) moist wet
Organics none (minor) moderate high
Float Type(s) GRANIT 50 %
SCHIST 50 %
Slope Direction N Angle 20 °



SAMPLE RECORD 0360

Project Name BERG - SOILS

Sampler's Initials WSC

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679426 0413494

Lat./Long.

Line #/Station # #4 WEST 0360-1→4

Elevation (feet) 1533 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 75 m EAST OF #0359

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUTWASH TILL - ROUNDED COBBLES OF GRANITE & SCHIST IN BROWN CLAY, SAND, SILT & GRAVEL. MINOR ORGANICS.

ORG: 5 cm
DEPTH: 45 cm

SAMPLE RECORD 0359

Project Name BERG - SOILS

Sampler's Initials WSC

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679413 0413418

Lat./Long.

Line #/Station # #4 WEST 0359-1→4

Elevation (feet) 1536 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 200 m SOUTH OF #0358

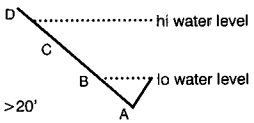
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUTWASH TILL ROUNDED BOULDERS & COBBLES OF BIOTITE SCHIST IN BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

ORG: 10 cm
DEPTH: 45 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color Brown

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊45⌋ ~~(inches)~~ cm

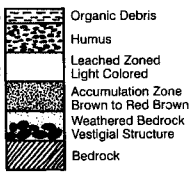
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST ⌊100⌋ %

⌊ ⌋ ⌊ ⌋ %

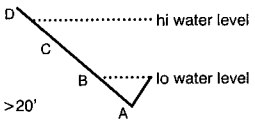
Slope Direction ⌊NE⌋ Angle ⌊10⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color Brown

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊45⌋ ~~(inches)~~ cm

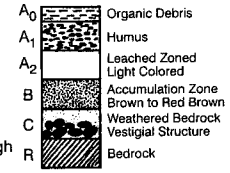
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ ⌊20⌋ %

SCHIST ⌊80⌋ %

Slope Direction ⌊NE⌋ Angle ⌊10⌋ °



SAMPLE RECORD 0362

Project Name: BERG - SOILS

Sampler's Initials: WSG

Date: 18 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679461	0413686
Lat./Long.		
Line #/Station #	#4 EAST	0362 - 1+74
Elevation	(feet)	1520 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	

COMMENTS

Location: 100 M E OF #0361

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL COBBLES OF ANGULAR SCHIST IN BROWN SAND, SILT, GRAVEL & MINOR ORGANICS TO 50 CM

ORG: 5CM
DEPTH: 50 CM

SAMPLE RECORD 0361

Project Name: BERG - SOILS

Sampler's Initials: WSG

Date: 18 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679460	0413586
Lat./Long.		
Line #/Station #	#4 EAST	0361 - 1+74
Elevation	(feet)	1529 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	GRASS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	

COMMENTS

Location: 100 M EAST OF #0360

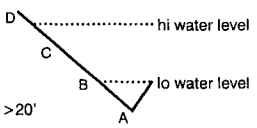
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL 45 CM TO BEDRO
BIOTITE SCHIST COBBLES IN DARK BROWN SAND, SILT & GRAVEL
MINOR ORGANICS.
ORGANICS: 5CM
DEPTH: 45 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 4/5 ~~(inches)~~ CM

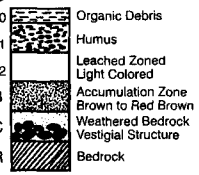
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCATTER 100 %

⌊ ⌋ ⌊ ⌋ %

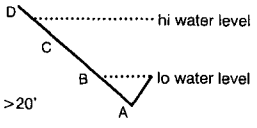
Slope Direction SOUTH Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ CM

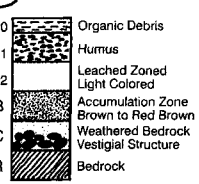
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCATTER 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction SE Angle 30 °



SAMPLE RECORD 0364

Project Name BERG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679479	0413888
Lat./Long.		
Line #/Station #	#4 EAST	0364-1-4
Elevation	(feet)	1488 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 100 M E OF #0363

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUTWASH TILL - COBBLES OF GRNT, QTZ & SCHIST IN BROWN SAND, SILT, GRAVEL & MINOR ORGANICS

Org: 5cm
DEPTH: 45cm

SAMPLE RECORD 0363

Project Name BERG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679467	0413787
Lat./Long.		
Line #/Station #	#4 EAST	0363-1→4
Elevation	(feet)	1505 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 100 M E OF #0362

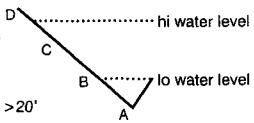
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUTWASH TILL COBBLES OF ROUNDED GRANITIC & ANGULAR SCHIST IN BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

Org: 5cm
DEPTH:

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ _____ %

_____ _____ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering *fresh weak moderate strong saprolite*

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~inches~~ cm

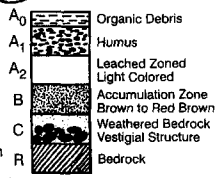
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ 50 %

SCHIST 50 %

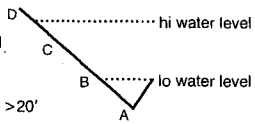
Slope Direction S E Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ _____ %

_____ _____ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering *fresh weak moderate strong saprolite*

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~inches~~ cm

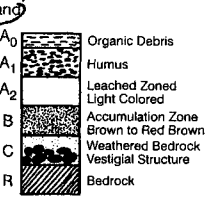
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 80 %

QTZ 20 %

Slope Direction S E Angle 25°



SAMPLE RECORD 0366

Project Name BERG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679490	0414088
Lat./Long.		
Line #/Station #	#4 EAST	0366-1→4
Elevation	(feet)	1458 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 100 M E OF #0365

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUTWASH TILL - ROUNDED COBBLES & CLASTS OF QTZ, GRNT, SCHIST IN RUSTY BROWN SAND, SILT, GRAVEL & MINOR ORGANICS

ORG: 5 CM
DEPTH: 45 CM

SAMPLE RECORD 0365

Project Name BERG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6679477	0413989
Lat./Long.		
Line #/Station #	#4 EAST	0365-1→4
Elevation	(feet)	1472 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 100 M E OF #0364

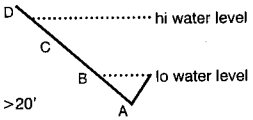
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUTWASH TILL - BOULDERS & COBBLES OF GRANITE & BIOTITE SCHIST IN RUSTY BROWN SAND, SILT, GRAVEL & MINOR ORGANICS

ORG: 5 CM
DEPTH: 45 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

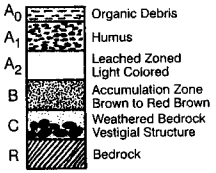
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUART ⌊50⌋ %

SCHIST ⌊50⌋ %

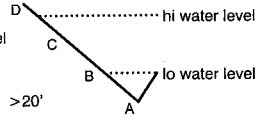
Slope Direction S E Angle 15°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

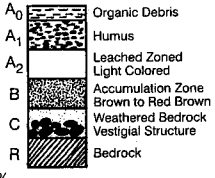
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST ⌊90⌋ %

QTZ ⌊10⌋ %

Slope Direction S E Angle 10°



SAMPLE RECORD 0368

Project Name BERG SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679539 0414176

Lat./Long.

Line #/Station # #4 EAST 0368-1→4

Elevation (feet) 1445 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF-BIRCH

COMMENTS

Location: 100 M SOUTHEAST OF #0366 RUSTY TILL

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL - COBBLES OF SCHIST IN RUSTY BROWN SAND, SILT, GRAVEL & MINOR ORGANICS TAKEN TO COMPARE WITH CLAY RICH SLUMP ON #0367

ORG: 15 CM

DEPTH: 60 CM

SAMPLE RECORD 0367

Project Name BERG T SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 667 041

Lat./Long.

Line #/Station # #4 EAST 0367-1→4

Elevation (feet) 1445 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 100 M. E OF #0366

CLAY SLUMP

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL - COBBLES OF ANGULAR SCHIST IN CLAY - BROWN SAND, SILT & GRAVEL

DOWN HILL SLUMP

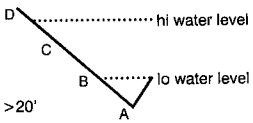
ORG: 5CM

DEPTH: 45CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ CM

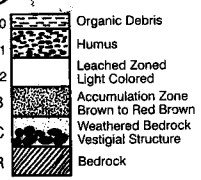
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

F ⌊ ⌋ ⌊ ⌋ %

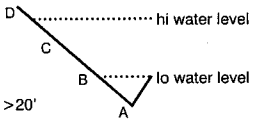
Slope Direction EAST Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 60 ~~(inches)~~ CM

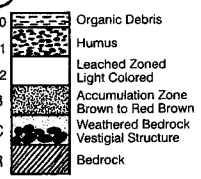
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 10°



SAMPLE RECORD 0370

Project Name BERG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679259 0413590

Lat./Long.

Line #/Station # #5 WEST 0370-1→4

Elevation (feet) 1518 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 60 M SOUTH OF # 0369

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL - ANGULAR COBBLES OF BIOTITE SCHIST IN RUSTY BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

ORG: 10 cm

DEPTH: 45 cm

SAMPLE RECORD 0369

Project Name BERG - SOILS

Sampler's Initials WSG

Date 18 07 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6679319 0413583

Lat./Long.

Line #/Station # #5 WEST 0369-1→4

Elevation (feet) 1517 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 20 m WEST OF NORTH EAST TRENCHING BERG # 8

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL - COBBLES & BOULDERS OF ANGULAR BIOTITE SCHIST IN RUSTY BROWN SAND, SIL GRAVEL & MINOR ORGANICS

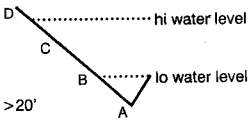
ORG: 5 cm

DEPTH: 45 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

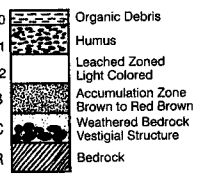
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

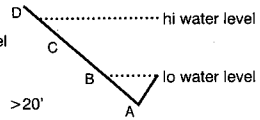
Slope Direction EAST Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ cm

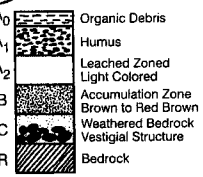
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 20°



SAMPLE RECORD 0202

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0201

Project Name HOC - Soils

Sampler's Initials WSC

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E 04

UTM/N/E 6655764 0423847

Lat./Long.

Line #/Station #

Elevation (feet) 1552 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup # 000

Contamination absent weak moderate strong

VEGETATION

Species Mosis

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: EASY SLOP 3 METERS EAST OF POST #1 HOC #1

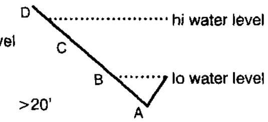
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

RUSTY - SAND & GRAVE - 20 CM
GRANIT & QUARTZ COBBLES - 10 CM
TAN SAND & CLAY TO BOTTOM
OF PIT 60 CM.

SAMPLE RECORD

STREAM SEDIMENT

Media	A B C D
Matrix	clay silt sand gravel
Color	
Stream Width	0'-5' 5'-10' 10'-20' >20'
Stream Volume	dry damp stagnant slow moderate fast
Stream Gradient	flat shallow moderate steep
Organic Content	none minor moderate high
Surface Oxides	none FeO MnO Both Other
Outcrop	no bedrock bedrock within 100' flows on bedrock
Float Type(s)	%
	%

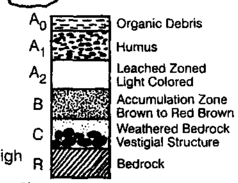


ROCK

Media	Grab Chip Channel Cuttings Core Sludge
	From To
Source	Outcrop Float Dump Gossan Vein Fracture Fault
Lithology	
Color	Intensity
Alteration	Lo Mod Hi
Mineralization	Lo Mod Hi
Weathering	fresh weak moderate strong saprolite
Fracturing	none minor moderate high breccia

SOIL

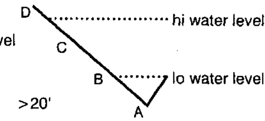
Media	Residual Colluvial Alluvial **Till** Regolith Saprolite
Matrix	Humus Clay Loam **Silt** **Sand**
Color	BROWN
Horizon	A_0 A_1 A_2 **B** C R
Sample Depth	10 CM ~~24~~ (inches)
Moisture	dry **damp** moist wet
Organics	none **minor** moderate high
Float Type(s)	GRANITE 80 %
	QUARTZ 20 %
Slope	Direction EAST Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media	A B C D
Matrix	clay silt sand gravel
Color	
Stream Width	0'-5' 5'-10' 10'-20' >20'
Stream Volume	dry damp stagnant slow moderate fast
Stream Gradient	flat shallow moderate steep
Organic Content	none minor moderate high
Surface Oxides	none FeO MnO Both Other
Outcrop	no bedrock bedrock within 100' flows on bedrock
Float Type(s)	%
	%

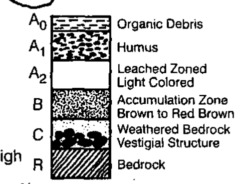


ROCK

Media	Grab Chip Channel Cuttings Core Sludge
	From To
Source	Outcrop Float Dump Gossan Vein Fracture Fault
Lithology	
Color	Intensity
Alteration	Lo Mod Hi
Mineralization	Lo Mod Hi
Weathering	fresh weak moderate strong saprolite
Fracturing	none minor moderate high breccia

SOIL

Media	Residual Colluvial Alluvial **Till** Regolith Saprolite
Matrix	Humus Clay Loam **Silt** **Sand**
Color	BROWN
Horizon	A_0 A_1 A_2 **B** C R
Sample Depth	20 ~~(inches)~~ CM
Moisture	dry **damp** moist wet
Organics	**none** minor moderate high
Float Type(s)	GRANITE 80 %
	QUARTZ 20 %
Slope	Direction EAST Angle 20°



SAMPLE RECORD 0204

Project Name Horn Sands

Sampler's Initials WSG

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0203

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

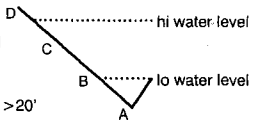
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ cm

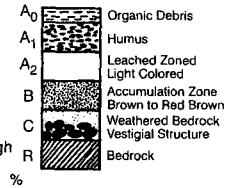
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZ 80 %

QUARTZ 20 %

Slope Direction EAST Angle 20 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

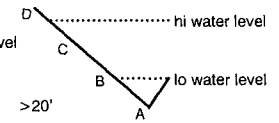
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 B C R

Sample Depth 40 ~~(inches)~~ cm

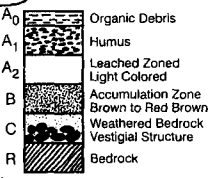
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZ 80 %

QUARTZ 20 %

Slope Direction EAST Angle 20 °



SAMPLE RECORD 0206

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0205

Project Name HOC - SOILS

Sampler's Initials WSG

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655857 0423855

Lat./Long.

Line #/Station #

Elevation (feet) 1551 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup # 100 -N

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 100 METERS NORTH OF 000 ON HOC #18

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

RUSTY - BROWN SILT, SAND & GRAVEL

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

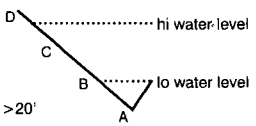
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ___ %

_____ ___ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

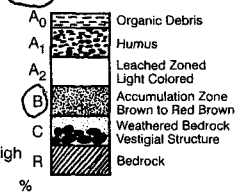
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

SHALE 10 %

Slope Direction EAST Angle 20 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

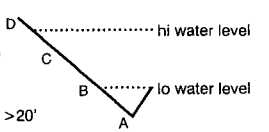
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ___ %

_____ ___ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

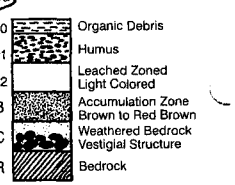
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

QUARTZ 10 %

Slope Direction EAST Angle 26 °



SAMPLE RECORD 0208

Project Name HOC - Soils

Sampler's Initials WSC

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0207

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

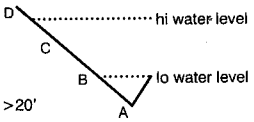
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊30⌋ ~~(inches)~~ CM

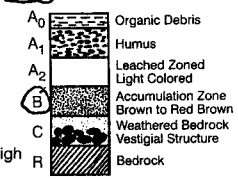
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE ⌊90⌋ %

QUARTZ ⌊10⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊20⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

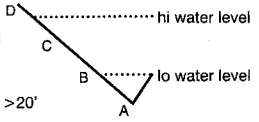
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊40⌋ ~~(inches)~~ CM

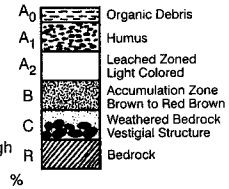
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE ⌊90⌋ %

SHALE ⌊10⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊20⌋ °



SAMPLE RECORD 0210

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0209

Project Name HOC - Soils

Sampler's Initials WSG

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655958 0423867

Lat./Long.

Line #/Station #

Elevation (feet) 1544 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup # 200 - N

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species ALDER

COMMENTS

Location: 100 METERS NORTH OF SAMPLE #100-N CLAIM HOC-18

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND & GRAVEL WITH GRANITIC & QUARTZ COBBLES & BOULDERS TO 60 CM

DEPTH OF PIT 50 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

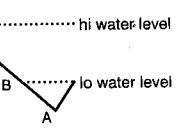
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊1.0⌋ ~~(inches)~~ CM

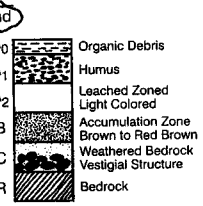
Moisture (dry) damp moist wet

Organics none minor moderate high

Float Type(s) QUARTZ ⌊90⌋ %

QUARTZITE ⌊10⌋ %

Slope Direction ⌊NORTH⌋ Angle ⌊3.0⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

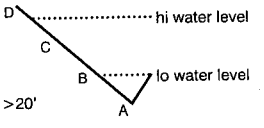
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊2.0⌋ ~~(inches)~~ CM

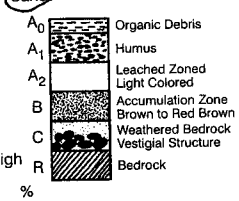
Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) ~~QUARTZ~~ ⌊90⌋ %

~~QUARTZITE~~ ⌊10⌋ %

Slope Direction ⌊NORTH⌋ Angle ⌊3.0⌋ °



SAMPLE RECORD 0212

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0211

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station #

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

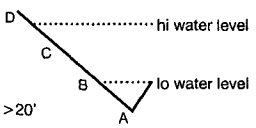
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ _____ %

_____ _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

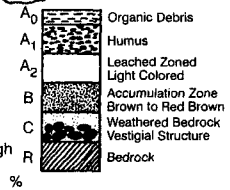
Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZ 90 %

QUARTZITE 10 %

Slope Direction NORTH Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

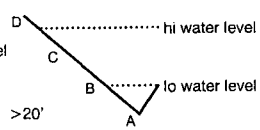
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ _____ %

_____ _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

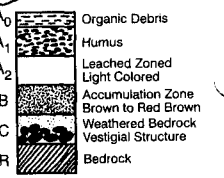
Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZ 90 %

QUARTZITE 10 %

Slope Direction NORTH Angle 30°



SAMPLE RECORD 0214

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 SOUTH 00-2

Elevation (feet) (meters)

Sample Type Rock Soil Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0213

Project Name HOC T. SOILS

Sampler's Initials WSC

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 665563 0423851

Lat./Long.

Line #/Station # 100-SOUTH 00-1

Elevation (feet) 4550 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection Single Site Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species WILLOW

COMMENTS

Location: 100 METERS SOUTH OF POST #1 - HOC #1

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

WET GREY SILT, SAND, CLAY & GRAVEL

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

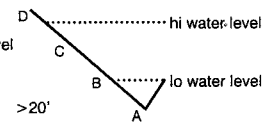
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial Till Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color GREY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

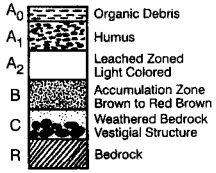
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) LIMESTONE ⌊80⌋ %

GRANITE ⌊20⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊20⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

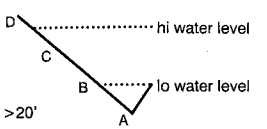
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color GREY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~(inches)~~ CM

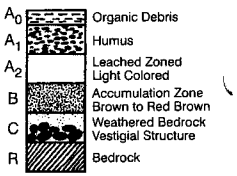
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) LIMESTONE ⌊80⌋ %

GRANITE ⌊20⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊20⌋ °



SAMPLE RECORD 0216

Project Name

Sampler's Initials WSG

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 SOUTH 00-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0215

Project Name HOG - SOILS

Sampler's Initials WSG

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 SOUTH 00-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

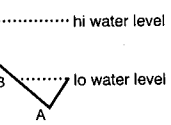
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color GRAY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

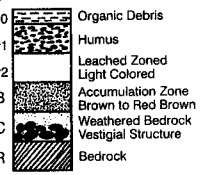
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) LIMESTONE 80 %

GRANITE 20 %

Slope Direction EAST Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

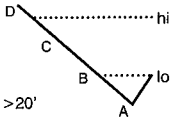
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color GRAY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

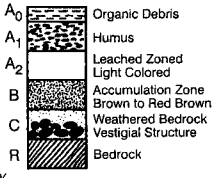
Moisture dry damp moist (wet)

Organics (none) minor moderate high

Float Type(s) LIMESTONE 80 %

GRANITE 20 %

Slope Direction EAST Angle 20°



SAMPLE RECORD 0218

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 200 SOUTH 00-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0217

Project Name HOC - SOILS

Sampler's Initials WSG

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655557 0423859

Lat./Long.

Line #/Station # 200 SOUTH 00-1

Elevation (feet) 1554 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species FLOWERS

COMMENTS

Location: 200 METER SOUTH OF POST #1 HOC #1

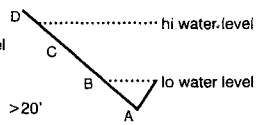
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SILT, SAND & CLAY WITH ORGANIC COMPONENT TO 50 CENTIMETERS. GRANITE BOULDERS & COBBLES

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

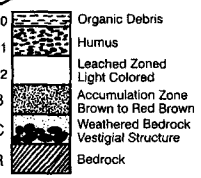
Sample Depth 10 ~~inches~~ CM

Moisture dry damp moist (wet)

Organics none minor moderate (high)

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

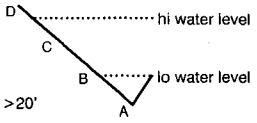


Slope Direction EAST Angle 15°

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

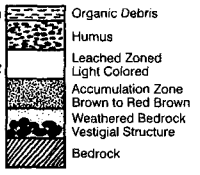
Sample Depth 20 ~~inches~~ CM

Moisture dry damp moist (wet)

Organics none minor (moderate) high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %



Slope Direction EAST Angle 15°

SAMPLE RECORD 0220

Project Name HOC - Soils

Sampler's Initials WSC

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 200 South 00-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0219

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 200 South 00-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak (moderate) strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

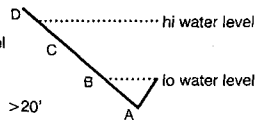
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

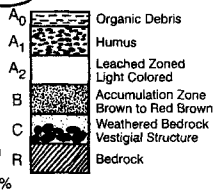
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 15°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

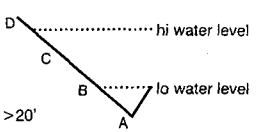
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

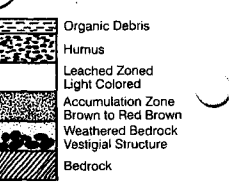
Moisture dry damp moist (wet)

Organics (none) minor moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 15°



SAMPLE RECORD 0222

Project Name

Sampler's Initials WSG

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 300 SOUTH 00-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0221

Project Name HOC - SOILS

Sampler's Initials WSG

Date 21 06 97 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655462 0423869

Lat./Long.

Line #/Station # 300 SOUTH 00-1

Elevation (feet) 1553 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species ALDER

COMMENTS

Location: 300 METERS SOUTH OF POST #1 HOC #1

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SILT, SAND & GRAVEL GRANITE COBBLES & BOULDERS TO 30 CENTIMETERS.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

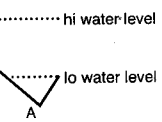
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

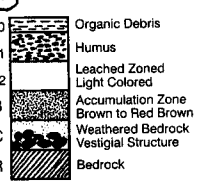
Moisture dry damp moist (wet)

Organics (none) minor moderate high

Float Type(s) GRANITE ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊10⌋°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

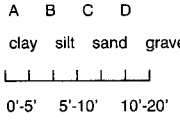
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~(inches)~~ CM

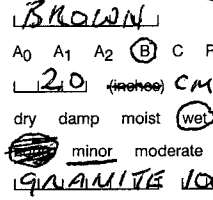
Moisture dry damp moist (wet)

Organics (~~none~~) minor moderate high

Float Type(s) GRANITE ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊10⌋°



SAMPLE RECORD 0224

Project Name

Sampler's Initials WSC

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 300 SOUTH 00-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0223

Project Name HOC - SOILS

Sampler's Initials WSC

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 300 SOUTH 00-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

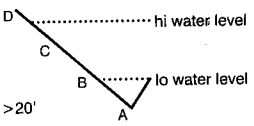
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

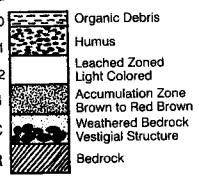
Moisture dry damp moist (wet)

Organics (none) minor moderate high

Float Type(s) GRANITE 100 %

_____ %

Slope Direction EAST Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

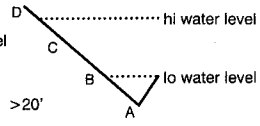
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

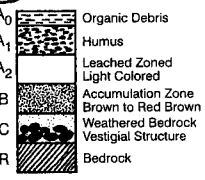
Moisture dry damp moist (wet)

Organics (none) minor moderate high

Float Type(s) GRANITE 100 %

_____ %

Slope Direction EAST Angle 10°



SAMPLE RECORD 0226

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400 SOUTH 00-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0225

Project Name HOC - SOILS

Sampler's Initials WSG

Date 21 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400 SOUTH 00-1

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species ALDERS

COMMENTS

Location: 400 METERS SOUTH OF POST #1 HOC #1

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

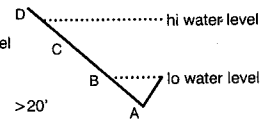
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

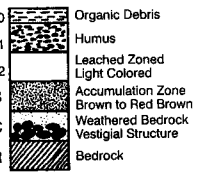
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

____ %

Slope Direction SOUTH Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

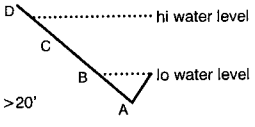
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 B C R

Sample Depth 20 ~~(inches)~~ cm

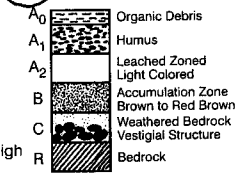
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

____ %

Slope Direction SOUTH Angle 30°



SAMPLE RECORD 0228

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400 SOUTH 00-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0227

Project Name HOC - SOILS

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400 SOUTH 00-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

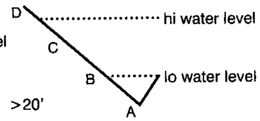
COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

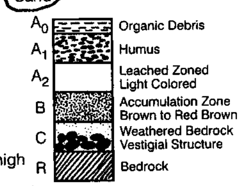


Media A B C D
Matrix clay silt sand gravel
Color
Stream Width 0'-5' 5'-10' 10'-20' >20'
Stream Volume dry damp stagnant slow moderate fast
Stream Gradient flat shallow moderate steep
Organic Content none minor moderate high
Surface Oxides none FeO MnO Both Other
Outcrop no bedrock bedrock within 100' flows on bedrock
Float Type(s) %
%

ROCK

Media Grab Chip Channel Cuttings Core Sludge
From To
Source Outcrop Float Dump Gossan Vein Fracture Fault
Lithology
Color Intensity
Alteration Lo Mod Hi
Mineralization Lo Mod Hi
Weathering fresh weak moderate strong saprolite
Fracturing none minor moderate high breccia

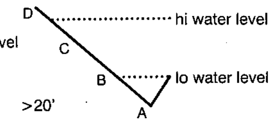
SOIL



Media Residual Colluvial Alluvial **(Till)** Regolith Saprolite
Matrix Humus Clay Loam **(Silt)** **(Sand)**
Color BROWN
Horizon A_0 A_1 A_2 **(B)** C R
Sample Depth 30 ~~(inches)~~ CM
Moisture **(dry)** damp moist wet
Organics none **(minor)** moderate high
Float Type(s) GRANITE 100 %
%
Slope Direction SOUTH Angle 30 °

SAMPLE RECORD

STREAM SEDIMENT

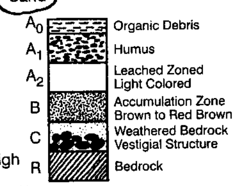


Media A B C D
Matrix clay silt sand gravel
Color
Stream Width 0'-5' 5'-10' 10'-20' >20'
Stream Volume dry damp stagnant slow moderate fast
Stream Gradient flat shallow moderate steep
Organic Content none minor moderate high
Surface Oxides none FeO MnO Both Other
Outcrop no bedrock bedrock within 100' flows on bedrock
Float Type(s) %
%

ROCK

Media Grab Chip Channel Cuttings Core Sludge
From To
Source Outcrop Float Dump Gossan Vein Fracture Fault
Lithology
Color Intensity
Alteration Lo Mod Hi
Mineralization Lo Mod Hi
Weathering fresh weak moderate strong saprolite
Fracturing none minor moderate high breccia

(SOIL)



Media Residual Colluvial Alluvial **(Till)** Regolith Saprolite
Matrix Humus **(Clay)** Loam **(Silt)** **(Sand)**
Color
Horizon A_0 A_1 A_2 **(B)** C R
Sample Depth 40 ~~(inches)~~ CM
Moisture **(dry)** damp moist wet
Organics **(none)** minor moderate high
Float Type(s) GRANITE 100 %
%
Slope Direction SOUTH Angle 30 °

SAMPLE RECORD 0230

Project Name HOC - SOILS

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 200 NORTH 100E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0229

Project Name HOC - SOILS

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655953 0423967

Lat./Long.

Line #/Station # 200 NORTH 100-E-1

Elevation (feet) 1515 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 100 METERS EAST OF 200N/00

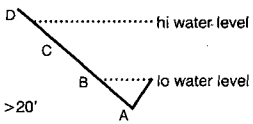
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

RUSTY BROWN CLAY, SAND, SILT & GRAVEL COBBLES OF GREY PHYLITE WITH OXIDIZED SULFIDES

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

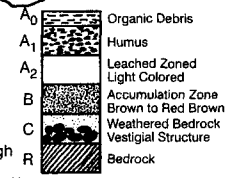
Moisture dry damp (moist) wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

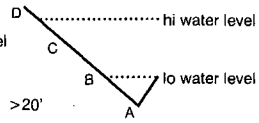
Slope Direction NORTH Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

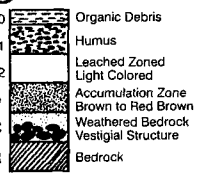
Moisture dry damp (moist) wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction NORTH Angle 30°



SAMPLE RECORD 0232

Project Name HOCT Soils

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 200 NORTH 100E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0231

Project Name HOCT Soils

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 200 NORTH 100E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

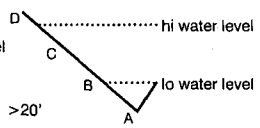
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ cm

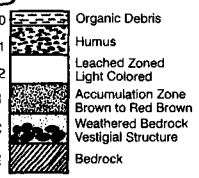
Moisture dry damp (moist) wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction NORTH Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

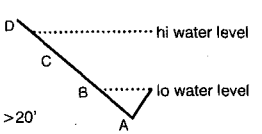
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

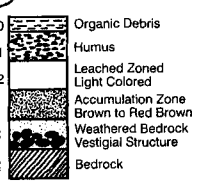
Moisture dry damp (moist) wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction NORTH Angle 30°



SAMPLE RECORD 0234

Project Name HOCT Soils

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 North 025 E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0233

Project Name HOCT Soils

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655857 0423897

Lat./Long.

Line #/Station # 100 North 025 E-1

Elevation (feet) 1549 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species Dwarf Birch

COMMENTS

Location: 25 Metens East of 100 North / 00

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

Rusty Brown Clay, Sand, Silt & gravel

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

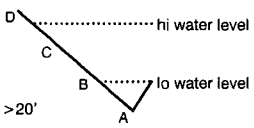
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ To ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Intensity

Alteration ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color ⌊RUSTY⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

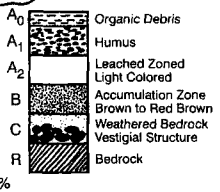
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊GRANITE⌋ ⌊90⌋ %

⌊QUARTZ⌋ ⌊10⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊10⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

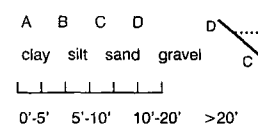
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ To ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Intensity

Alteration ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color ⌊RUSTY⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~(inches)~~

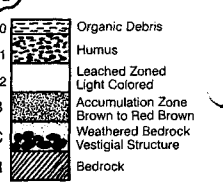
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊GRANITE⌋ ⌊90⌋ %

⌊QUARTZ⌋ ⌊10⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊10⌋ °



SAMPLE RECORD 0236

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 NORTH 025E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0235

Project Name HOG - SOILS

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 NORTH 025E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

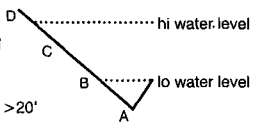
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

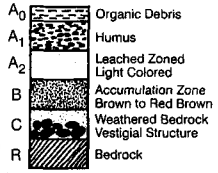
Sample Depth 30 ~~inches~~ CM

Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 % QUARTZ 10 %

Slope Direction EAST Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

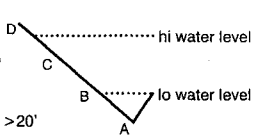
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

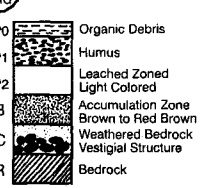
Sample Depth 40 ~~inches~~ CM

Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 % QUARTZ 10 %

Slope Direction EAST Angle 10°



SAMPLE RECORD 0238

Project Name HOG-SOILS

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 NORTH 050 E - 2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0237

Project Name HOG - SOILS

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 665587.0 04 23896

Lat./Long.

Line #/Station # 100 NORTH 050 E - 1

Elevation (feet) 1544 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50 METERS EAST OF 100N/00

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL BOULDERS & COBBLES OF GRANITE & QUARTZITE TO BOTTOM OF PIT

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

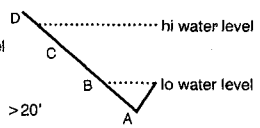
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

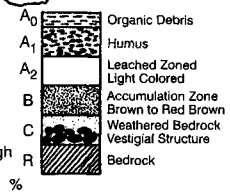
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE ⌊80⌋ %

QUARTZ ⌊20⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊15⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

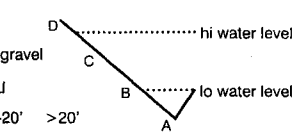
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 B C R

Sample Depth ⌊20⌋ ~~(inches)~~

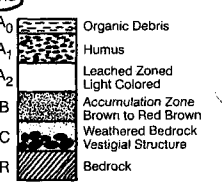
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE ⌊80⌋ %

QUARTZ ⌊20⌋ %

Slope Direction ⌊EAST⌋ Angle ⌊15⌋ °



SAMPLE RECORD 0240

Project Name HOC - SOILS

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 NORTH 050E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0239

Project Name HOC - SOILS

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 NORTH 050E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

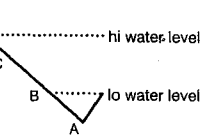
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

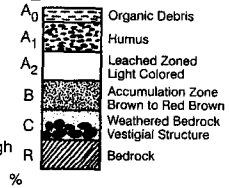
Sample Depth ⌊30⌋ ~~(inches)~~ CM

Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



Slope Direction ⌊EAST⌋ Angle ⌊15⌋°

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

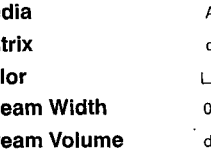
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

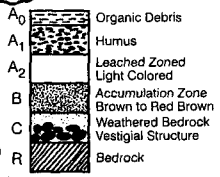
Sample Depth ⌊40⌋ ~~(inches)~~ CM

Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZITE ⌊80⌋ %

QUARTZ ⌊20⌋ %



Slope Direction ⌊EAST⌋ Angle ⌊15⌋°

SAMPLE RECORD 0242

Project Name HOC-SOILS

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 NORTH 075E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0241

Project Name HOC-SOILS

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 665586 / 0412393

Lat./Long.

Line #/Station # 100 NORTH 075E-1

Elevation (feet) 1535 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 75 METERS EAST OF 100N/00

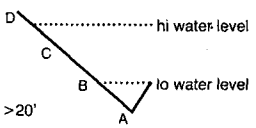
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

TAN SILT, SAND, CLAY & GRAVEL
GRANITE & QUARTZ COBBLES
TO 10 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

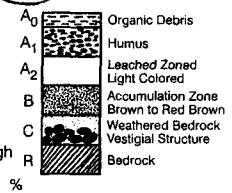
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

QUARTZ 10 %

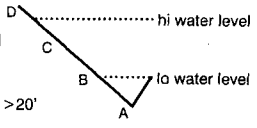
Slope Direction EAST Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

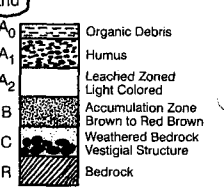
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

QUARTZ 10 %

Slope Direction EAST Angle 20°



SAMPLE RECORD 0244

Project Name HOCT Soils

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 North 075E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0243

Project Name HOCT Soils

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 North 075E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

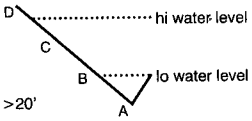
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ___ %

_____ ___ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

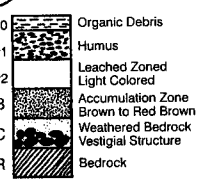
Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZITE 90 %

QUARTZ 10 %

Slope Direction EAST Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

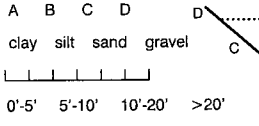
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ___ %

_____ ___ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

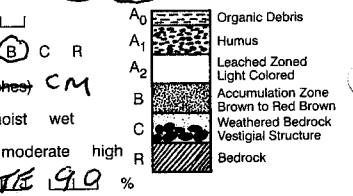
Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZITE 90 %

QUARTZ 10 %

Slope Direction EAST Angle 20°



SAMPLE RECORD 0246

Project Name HOCT SOILS

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100NORTH 100E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0245

Project Name HOCT SOILS

Sampler's Initials WSG

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655859 0423956

Lat./Long. /00

Line #/Station # 100NORTH [redacted]E-1

Elevation (feet) 1530 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 100 METERS EAST OF 100N/00

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL WITH COBBLES & BOULDERS OF GRANITE & QUARTZITE

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

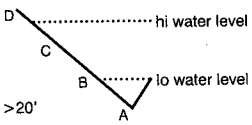
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

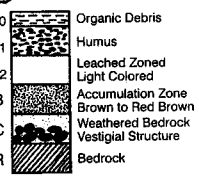
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ 50 %

GRANITE 50 %

Slope Direction EAST Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

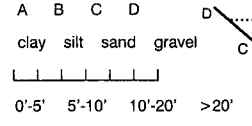
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

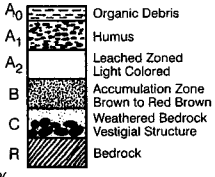
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 50 %

QUARTZ 50 %

Slope Direction EAST Angle 20°



SAMPLE RECORD 0248

Project Name HOC - Soils

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 North 100E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0247

Project Name HOC - Soils

Sampler's Initials WSC

Date 22 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 100 North 100E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

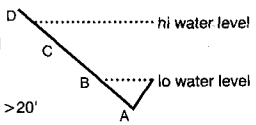
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Coluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊30⌋ ~~(inches)~~ CM

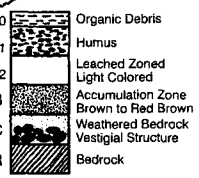
Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

Slope Direction ⌊ ⌋ Angle ⌊ ⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

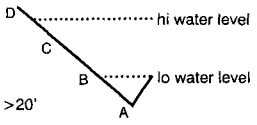
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊40⌋ ~~(inches)~~ CM

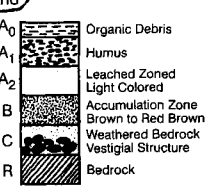
Moisture (dry) damp moist wet

Organics (none) minor moderate high

Float Type(s) GRANITE 50 %

QUARTZ 50 %

Slope Direction EAST Angle 20 °



SAMPLE RECORD 0250

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 050W-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0249

Project Name HOC-Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655769 0423797

Lat./Long.

Line #/Station # 000 050W-1

Elevation (feet) 1565 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species Dwarf Willow

COMMENTS

Location: 50 METERS WEST OF POST #1
HOC #2

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL WITH COBBLES OF GRANITE QUARTZ & BASALT.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

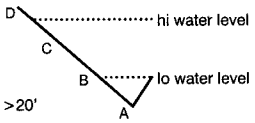
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

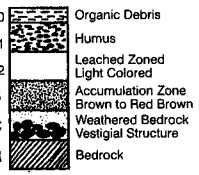
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

QUARTZ 10 %

Slope Direction EAST Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

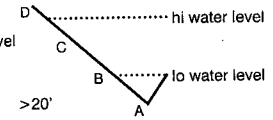
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~(inches)~~ CM

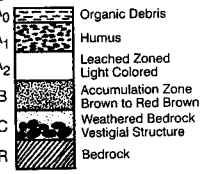
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊ ⌋ %

⌊ ⌋ %

Slope Direction EAST Angle 10°



SAMPLE RECORD 0252

Project Name HAC - Soils

Sampler's Initials WSG

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 050W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0251

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 050W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

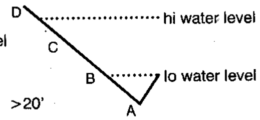
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media	A B C D
Matrix	clay silt sand gravel
Color	
Stream Width	0'-5' 5'-10' 10'-20' >20'
Stream Volume	dry damp stagnant slow moderate fast
Stream Gradient	flat shallow moderate steep
Organic Content	none minor moderate high
Surface Oxides	none FeO MnO Both Other
Outcrop	no bedrock bedrock within 100' flows on bedrock
Float Type(s)	%
	%

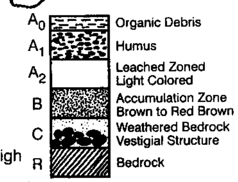


ROCK

Media	Grab Chip Channel Cuttings Core Sludge
	From To
Source	Outcrop Float Dump Gossan Vein Fracture Fault
Lithology	
Color	Intensity
Alteration	Lo Mod Hi
Mineralization	Lo Mod Hi
Weathering	fresh weak moderate strong saprolite
Fracturing	none minor moderate high breccia

SOIL (circled)

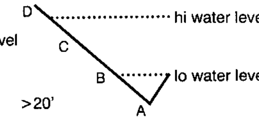
Media	Residual Colluvial Alluvial (Till) Regolith Saprolite
Matrix	Humus Clay Loam (Silt) (Sand)
Color	TAN
Horizon	A_0 A_1 A_2 (B) C R
Sample Depth	30 ~~(inches)~~ cm
Moisture	dry (damp) moist wet
Organics	none (minor) moderate high
Float Type(s)	%
	%
Slope	Direction EAST Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media	A B C D
Matrix	clay silt sand gravel
Color	
Stream Width	0'-5' 5'-10' 10'-20' >20'
Stream Volume	dry damp stagnant slow moderate fast
Stream Gradient	flat shallow moderate steep
Organic Content	none minor moderate high
Surface Oxides	none FeO MnO Both Other
Outcrop	no bedrock bedrock within 100' flows on bedrock
Float Type(s)	%
	%

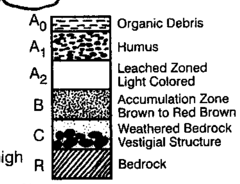


ROCK

Media	Grab Chip Channel Cuttings Core Sludge
	From To
Source	Outcrop Float Dump Gossan Vein Fracture Fault
Lithology	
Color	Intensity
Alteration	Lo Mod Hi
Mineralization	Lo Mod Hi
Weathering	fresh weak moderate strong saprolite
Fracturing	none minor moderate high breccia

SOIL (circled)

Media	Residual Colluvial Alluvial (Till) Regolith Saprolite
Matrix	Humus Clay Loam (Silt) (Sand)
Color	TAN
Horizon	A_0 A_1 A_2 (B) C R
Sample Depth	40 ~~(inches)~~ cm
Moisture	dry (damp) moist wet
Organics	(none) minor moderate high
Float Type(s)	GRANITE 90 %
	QUARTZ 10 %
Slope	Direction EAST Angle 10 °



SAMPLE RECORD 0254

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 / 100W-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0253

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655764 / 0423739

Lat./Long. / 100

Line #/Station # 000 / [redacted]W-1

Elevation (feet) 1566 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 100 METERS WEST OF POST #1 - HOC #2

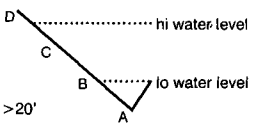
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

TAN SAND, SILT & GRAVEL WITH COBBLES OF ROUNDED GRANITE & ANGULAR QUARTZITE TO 6 CM.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

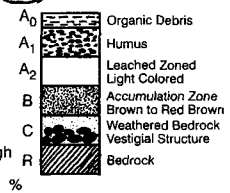
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ 50 %

QUARTZ 50 %

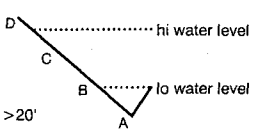
Slope Direction FLAT Angle 0 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

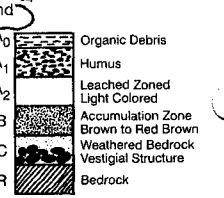
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌋ %

Slope Direction FLAT Angle 0 °



SAMPLE RECORD 0256

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 100W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0255

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 100W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

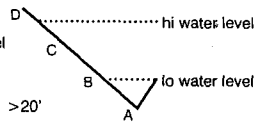
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ cm

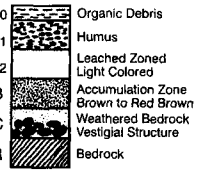
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %

Slope Direction FLAT Angle 0 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

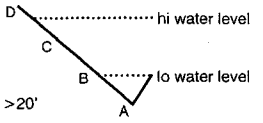
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

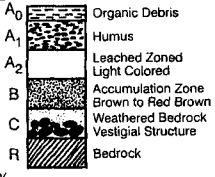
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ 50 %

QUARTZ 50 %

Slope Direction FLAT Angle 0 °



SAMPLE RECORD 0258

Project Name HOC - Soils

Sampler's Initials WSG
Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E
Lat./Long.
Line #/Station # 000 / 150W-2
Elevation (feet) (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination (absent) weak moderate strong

VEGETATION

Species
Organ
Circumference
Slope
Drainage
Outcrop
Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0257

Project Name HOC - Soils

Sampler's Initials WSG
Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6655768 / 0423691
Lat./Long.
Line #/Station # 000 / 150W-1
Elevation (feet) 1566 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent weak moderate strong

VEGETATION

Species Moss
Organ
Circumference
Slope
Drainage
Outcrop
Other Species

COMMENTS

Location: 150 METERS WEST OF POST #1 - HOC #2

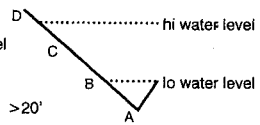
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN TO TAN SILT, SAND & GRAVEL ROUNDED GRANITE COBBLES & BOULDERS TO 30 CM ANGULAR QUARTZITE TO 10 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ _____ %

_____ _____ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

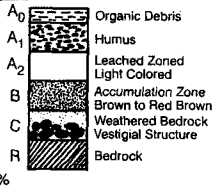
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ 50 %

QUARTZ 50 %

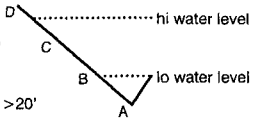
Slope Direction WEST Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ _____ %

_____ _____ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

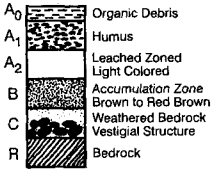
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUART 50 %

QTZ 50 %

Slope Direction WEST Angle 10 °



SAMPLE RECORD 0260

Project Name HOC-Soils

Sampler's Initials WSG

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 150W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0259

Project Name HOC-Soils

Sampler's Initials WSG

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 150W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

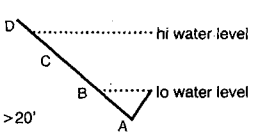
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

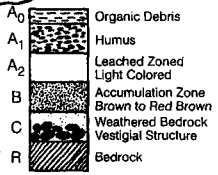
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRNT 50 %

QTZ 50 %

Slope Direction WEST Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

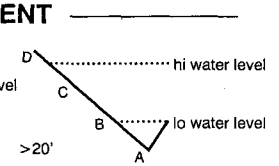
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

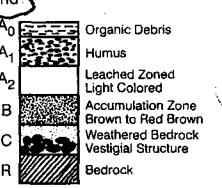
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRNT 50 %

QTZ 50 %

Slope Direction WEST Angle 10°



SAMPLE RECORD 0262

Project Name HOC T SOILS

Sampler's Initials WSG

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 200W-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0261

Project Name HOC T SOILS

Sampler's Initials WSG

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655777 0423641

Lat./Long.

Line #/Station # 000 200W-1

Elevation (feet) 1566 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 200 METERS WEST OF POST #1

HOC #2

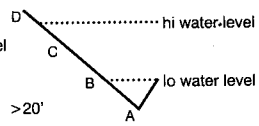
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN TO TAN SAND, SILT & GRAVEL. WELL ROUNDED QUART. & BASALT.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

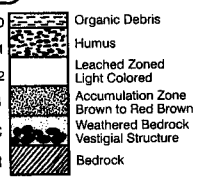
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

BASALT 10 %

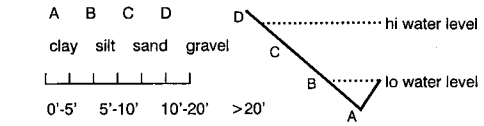
Slope Direction WEST Angle 15 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

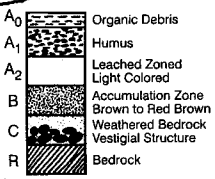
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 90 %

BASALT 10 %

Slope Direction WEST Angle 15 °



SAMPLE RECORD 0264

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 200W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0263

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 200W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

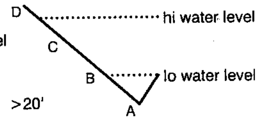
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media: A B C D



Matrix: clay silt sand gravel

Color: ________

Stream Width: 0'-5' 5'-10' 10'-20' >20'

Stream Volume: dry damp stagnant slow moderate fast

Stream Gradient: flat shallow moderate steep

Organic Content: none minor moderate high

Surface Oxides: none FeO MnO Both Other

Outcrop: no bedrock bedrock within 100' flows on bedrock

Float Type(s): ________ ___ %
________ ___ %

ROCK

Media: Grab Chip Channel Cuttings Core Sludge
From ______ To ______

Source: Outcrop Float Dump Gossan Vein Fracture Fault

Lithology: ________ ________

Color: ________ Intensity

Alteration: ________________ Lo Mod Hi

Mineralization: ________________ Lo Mod Hi

Weathering: fresh weak moderate strong saprolite

Fracturing: none minor moderate high breccia

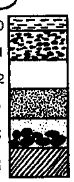
SOIL

Media: Residual Colluvial Alluvial **Till** Regolith Saprolite

Matrix: Humus Clay Loam **Silt Sand**

Color: TAN

Horizon: A_0 A_1 A_2 **B** C R



Sample Depth: 30 ~~(inches)~~ CM

Moisture: dry **damp** moist wet

Organics: none **minor** moderate high

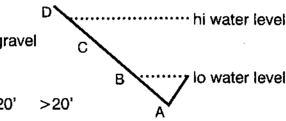
Float Type(s): GRANIT 90 %
BASALT 10 %

Slope: Direction WEST Angle 15 °

SAMPLE RECORD

STREAM SEDIMENT

Media: A B C D



Matrix: clay silt sand gravel

Color: ________

Stream Width: 0'-5' 5'-10' 10'-20' >20'

Stream Volume: dry damp stagnant slow moderate fast

Stream Gradient: flat shallow moderate steep

Organic Content: none minor moderate high

Surface Oxides: none FeO MnO Both Other

Outcrop: no bedrock bedrock within 100' flows on bedrock

Float Type(s): ________ ___ %
________ ___ %

ROCK

Media: Grab Chip Channel Cuttings Core Sludge
From ______ To ______

Source: Outcrop Float Dump Gossan Vein Fracture Fault

Lithology: ________ ________

Color: ________ Intensity

Alteration: ________________ Lo Mod Hi

Mineralization: ________________ Lo Mod Hi

Weathering: fresh weak moderate strong saprolite

Fracturing: none minor moderate high breccia

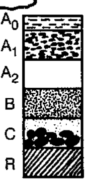
SOIL

Media: Residual Colluvial Alluvial **Till** Regolith Saprolite

Matrix: Humus Clay Loam **Silt Sand**

Color: TAN

Horizon: A_0 A_1 A_2 **B** C R



Sample Depth: 40 ~~(inches)~~ CM

Moisture: dry **damp** moist wet

Organics: **none** minor moderate high

Float Type(s): GRANIT 90 %
BASALT 10 %

Slope: Direction WEST Angle 15 °

SAMPLE RECORD 0268

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 250W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0267

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 250W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

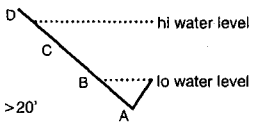
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

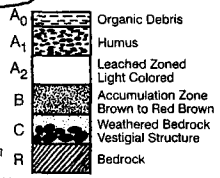
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) GRANT 80 %

PHYLITE 20 %

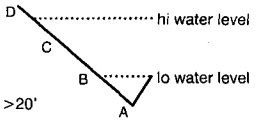
Slope Direction WEST Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

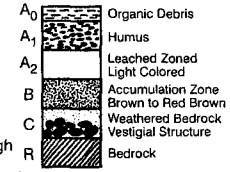
Moisture dry damp moist (wet)

Organics (none) minor moderate high

Float Type(s) GRANT 80 %

PHYLITE 20 %

Slope Direction WEST Angle 10°



SAMPLE RECORD 0270

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 300W-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0269

Project Name HOC

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655787 0423540

Lat./Long.

Line #/Station # 000 300W-1

Elevation (feet) 1561 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 300 METERS WEST OF POST #1 - HOC #2

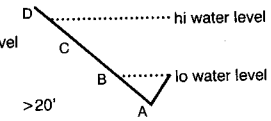
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN TO TAN SAND, SILT & GRAVEL. ROUNDED GRANITE COBBLES & BOULDERS. ANGULAR QUARTZ COBBLES.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color ⌊TAN⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

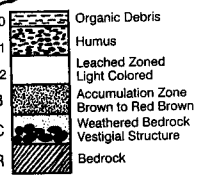
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊GRANITIC⌋ ⌊90⌋ %

⌊QUARTZ⌋ ⌊10⌋ %

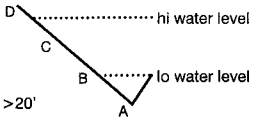
Slope Direction ⌊WEST⌋ Angle ⌊15⌋°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color ⌊TAN⌋

Horizon A_0 A_1 A_2 B C R

Sample Depth ⌊20⌋ ~~(inches)~~ CM

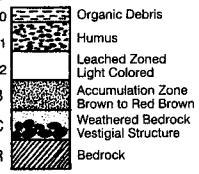
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊GRANT⌋ ⌊90⌋ %

⌊QTZ⌋ ⌊10⌋ %

Slope Direction ⌊WEST⌋ Angle ⌊15⌋°



SAMPLE RECORD 0272

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 300W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0271

Project Name HOC - Soils

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 000 300W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

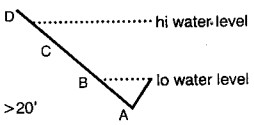
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

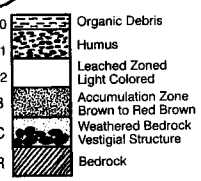
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) QUARTZ 90 %

QTZ 10 %

Slope Direction WEST Angle 15°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

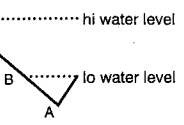
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

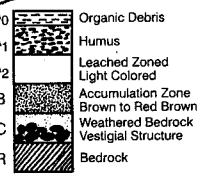
Moisture dry damp (moist) wet

Organics (none) minor moderate high

Float Type(s) QUARTZ 90 %

QTZ 10 %

Slope Direction WEST Angle 15°



SAMPLE RECORD 0274

Project Name HOCT SOILS

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400 SOUTH 050W-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0273

Project Name HOCT SOILS

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655363 0423802

Lat./Long.

Line #/Station # 400 SOUTH 050 WEST-1

Elevation (feet) 1560 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 50 METERS WEST OF 400S/00

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL
MINOR ORGANICS TO 60 CM.
BOULDERS & COBBLES OF GRANITE

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

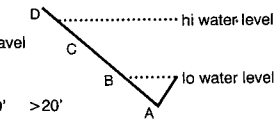
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 B C R

Sample Depth 10 ~~(inches)~~ CM

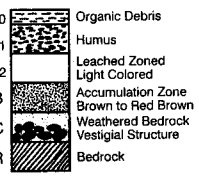
Moisture (dry) damp moist wet

Organics none minor (moderate) high

Float Type(s) GRANITE 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction SOUTH Angle 35°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

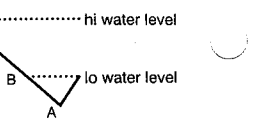
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

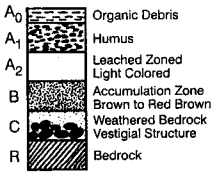
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction SOUTH Angle 35°



SAMPLE RECORD 0276

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 050W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0275

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 050W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

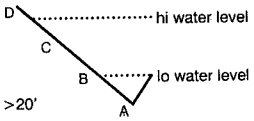
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

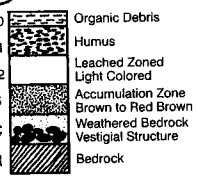
Sample Depth 30 ~~(inches)~~ CM

Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊_⌊_⌊_⌋ 100 % ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

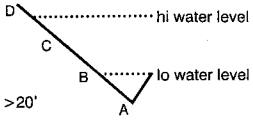
Slope Direction SOUTH Angle 35 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌊_⌊_⌋ To ⌊_⌊_⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌊_⌊_⌊_⌊_⌊_⌋

Color ⌊_⌊_⌊_⌊_⌊_⌊_⌋ Intensity

Alteration ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

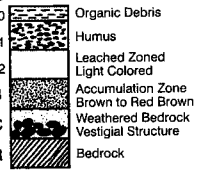
Sample Depth 40 ~~(inches)~~ CM

Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 % ⌊_⌊_⌊_⌊_⌊_⌊_⌋ ⌊_⌋ %

Slope Direction SOUTH Angle 35 °



SAMPLE RECORD 0278

Project Name HOC - SOILS

Sampler's Initials WSC

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 050E-2

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0277

Project Name HOC - SOILS

Sampler's Initials WSC

Date 23 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655370 0423909

Lat./Long.

Line #/Station # 400S 050E-1

Elevation ___(feet) 1549 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 50 METERS EAST OF LINE 400S/00

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SILT, SAND & GRAVEL
MINOR ORGANICS TO 30CM
ROUND BOULDERS OF GRANITE
TO BOTTOM OF PIT 60CM.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

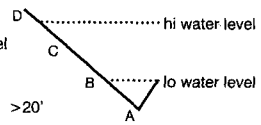
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~inches~~ CM

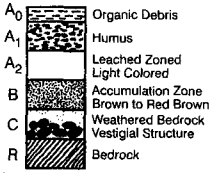
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊SE⌋ Angle ⌊35⌋°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

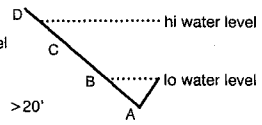
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~inches~~ CM

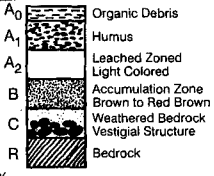
Moisture (dry) damp moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊SE⌋ Angle ⌊35⌋°



SAMPLE RECORD 0280

Project Name H.O.C.-Soils

Sampler's Initials WSC

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400 S 050 E-4

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0279

Project Name H.O.C.-Soils

Sampler's Initials WSC

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400 S 050 E-3

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

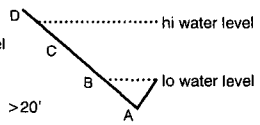
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ To ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Intensity

Alteration ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊ 30 ⌋ ~~(inches)~~ CM

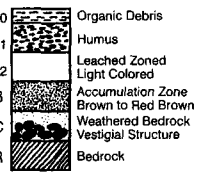
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊ 100 ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

Slope Direction ⌊ S E ⌋ Angle ⌊ 35 ⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

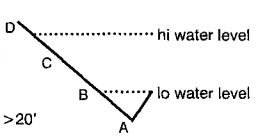
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ To ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Intensity

Alteration ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊ 40 ⌋ ~~(inches)~~ CM

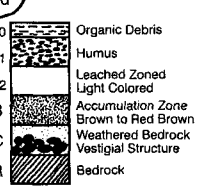
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊ 100 ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

Slope Direction ⌊ S E ⌋ Angle ⌊ 35 ⌋ °



SAMPLE RECORD 0282

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 4005 100E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0281

Project Name H.O.C. - SOILS

Sampler's Initials WSC

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655368 0423959

Lat./Long.

Line #/Station # 4005 100E-1

Elevation (feet) 1540 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 100 M. EAST OF 4005/00

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SILT, SAND & GRAVEL
BLACK OLD ORGANIC LAYER AT
BOTTOM OF PIT
ROUND GRANITE BOULDERS

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

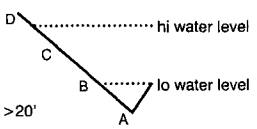
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

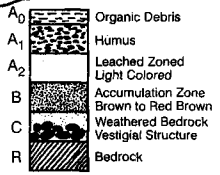
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction SOUTH Angle ⌊25⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

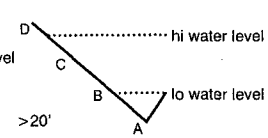
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~(inches)~~ CM

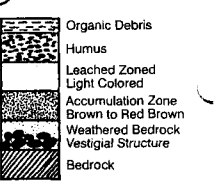
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZ ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction SOUTH Angle ⌊25⌋ °



SAMPLE RECORD 0284

Project Name HOC - Soils

Sampler's Initials WSG

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S / 100E-4

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0283

Project Name HOC - Soils

Sampler's Initials WSG

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S / 100E-3

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

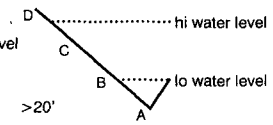
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

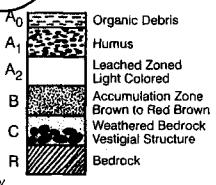
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction SOUTH Angle 25 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

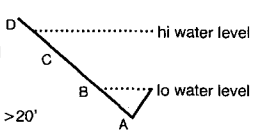
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

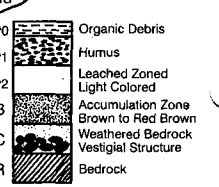
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction S Angle 25 °



SAMPLE RECORD 0286

Project Name H.O.C. - Soils

Sampler's Initials WSC

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 4005 150E-2

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0285

Project Name H.O.C. - Soils

Sampler's Initials WSC

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 665537.1 0424005

Lat./Long.

Line #/Station # 4005 150E-1

Elevation ___(feet) 1535 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 150 METERS EAST OF 4005/00

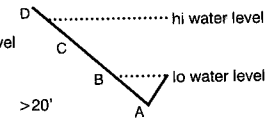
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL
MINOR ORGANICS
ROUND GRANITE BOULDERS

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

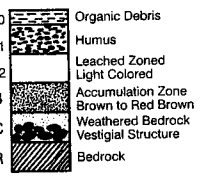
Sample Depth ⌊10 ~~(inches)~~ CM

Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 % ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

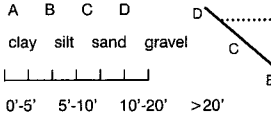
Slope Direction SOUTH Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

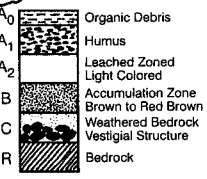
Sample Depth ⌊20 ~~(inches)~~ CM

Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 100 % ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction S Angle 10 °



SAMPLE RECORD 0288

Project Name HOC - Soils

Sampler's Initials WSG

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 150E-4

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0287

Project Name HOC - Soils

Sampler's Initials WSG

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 150E-3

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

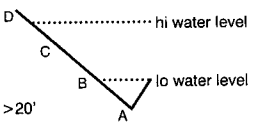
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊30⌋ ~~(inches)~~ CM

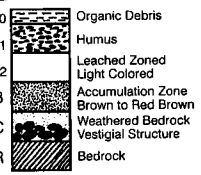
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊S⌋ Angle ⌊10⌋°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

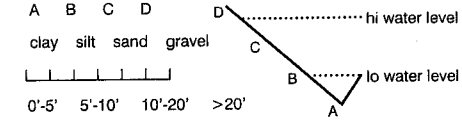
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊40⌋ ~~(inches)~~ CM

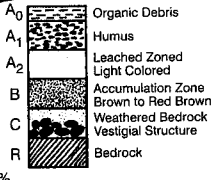
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊S⌋ Angle ⌊10⌋°



SAMPLE RECORD 0290

Project Name HOC - Soils

Sampler's Initials WSC

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 200E-2

Elevation ___(feet) ___(meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0289

Project Name HOC - Soils

Sampler's Initials WSC

Date ___ ___ ___ (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6655376 0424055

Lat./Long.

Line #/Station # 400S 200E-1

Elevation ___(feet) 1531 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species grass

COMMENTS

Location: 200 METERS EAST OF 400S/00

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SILT, SAND & GRAVEL
MINOR ORGANICS
ROUND GRANITE BOULDERS TO DEPTH 60CM.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

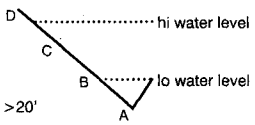
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

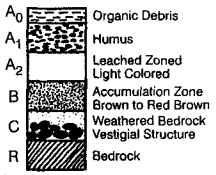
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction WEST Angle 15 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

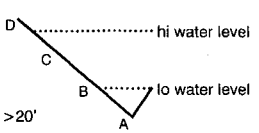
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~(inches)~~ CM

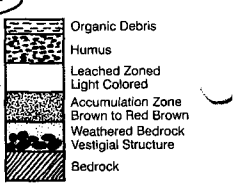
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRNT ⌊100⌋ %

⌊ ⌋ ⌊ ⌋ %

Slope Direction WEST Angle 15 °



SAMPLE RECORD 0292

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 200E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0291

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 400S 200E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

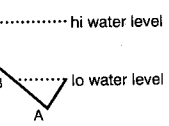
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color Brown

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊30⌋ ~~(inches)~~ cm

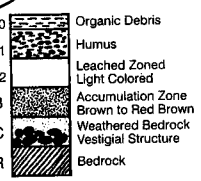
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) granit ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊W⌋ Angle ⌊15⌋°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

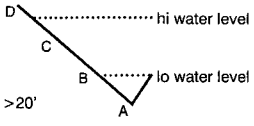
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color Brown

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊40⌋ ~~(inches)~~ cm

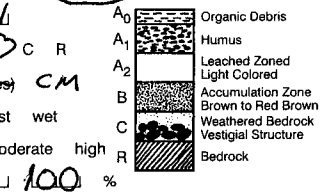
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) granit ⌊100⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊W⌋ Angle ⌊15⌋°



SAMPLE RECORD 0294

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 000-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0293

Project Name HOC - Soils

Sampler's Initials KSC

Date 24 06 97 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6652150 0423877

Lat./Long.

Line #/Station # 16 000-1

Elevation (feet) 1339 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species Black Spruce

COMMENTS

Location: 100 METERS NORTH OF POST #2 HOC #16

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

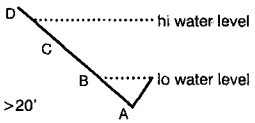
RUSTY BROWN SAND & SILT & GRAVEL.

COBBLES OF GRANITE, QTZ & SHALE.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ cm

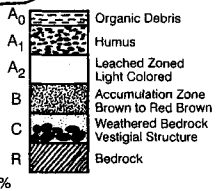
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 50 %

QTZ 50 %

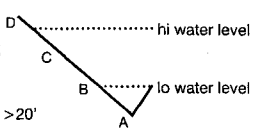
Slope Direction NORTH Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ cm

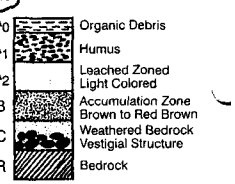
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 50 %

QTZ 50 %

Slope Direction N Angle 10 °



SAMPLE RECORD 0296

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 000-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0295

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 000-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

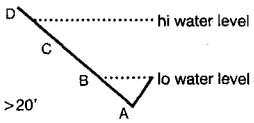
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color Rusty

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ cm

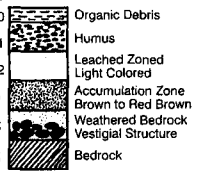
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

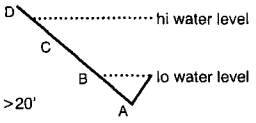
Slope Direction ⌊ N ⌋ Angle ⌊ 10 ⌋°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color Rusty

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

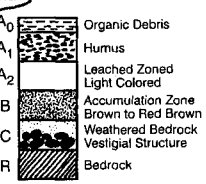
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) QMNT ⌊ 50 ⌋ %

QTZ ⌊ 50 ⌋ %

Slope Direction ⌊ N ⌋ Angle ⌊ 10 ⌋°



SAMPLE RECORD 0298

Project Name HOG - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 050E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0297

Project Name HOG - Soils

Sampler's Initials WSG

Date 24 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6652166 0423930

Lat./Long.

Line #/Station # 16 050E-1

Elevation (feet) 1333 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species SPRUCE

COMMENTS

Location: 50 METERS EAST OF 16/000

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

RUSTY BROWN SAND, SILT & GRAVEL TO 50 CM
GRANITE & QUARTZ RICH SHALE COBBLES

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

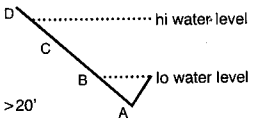
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

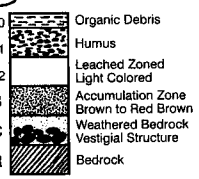
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANIT 50 %

SHALE 50 %

Slope Direction N Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

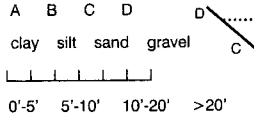
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

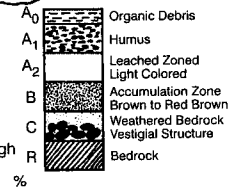
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANIT 50 %

SHALE 50 %

Slope Direction N Angle 20°



SAMPLE RECORD 0300

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 050E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0299

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 050E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

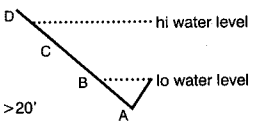
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊30⌋ ~~(inches)~~ CM

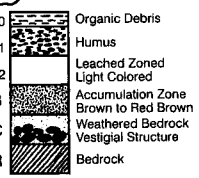
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANIT ⌊50⌋ %

SHALE ⌊50⌋ %

Slope Direction ⌊N⌋ Angle ⌊20⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

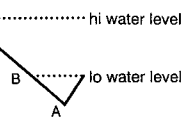
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊40⌋ ~~(inches)~~ CM

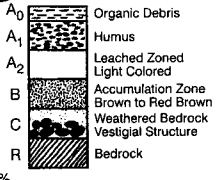
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANIT ⌊50⌋ %

SHALE ⌊50⌋ %

Slope Direction ⌊N⌋ Angle ⌊20⌋ °



SAMPLE RECORD 0302

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 / 100E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0301

Project Name HOC - Soils

Sampler's Initials WSG

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 / 100E-1

Elevation (feet) 1333 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species Spruce

COMMENTS

Location: 100 METERS EAST OF 16/000

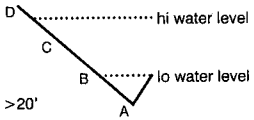
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

BROWN SAND, SILT & GRAVEL
MINOR ORGANICS WITH ROUNDED
GRANITE COBBLES & BOULDERS
TO BOTTOM OF PIT @ 50 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam Silt (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

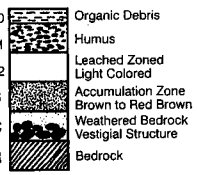
Moisture dry damp moist (wet)

Organics none minor (moderate) high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

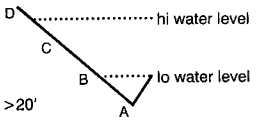
Slope Direction NE Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

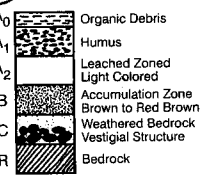
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction NE Angle 10°



SAMPLE RECORD 0304

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 100E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0303

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 100E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

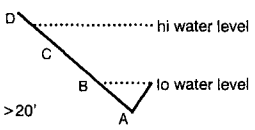
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ cm

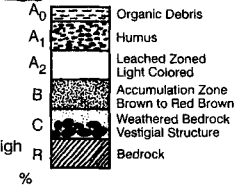
Moisture dry damp moist (wet)

Organics none (minor) moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

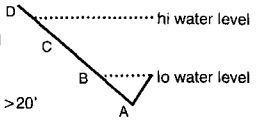
Slope Direction NE Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

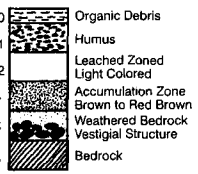
Moisture dry damp moist (wet)

Organics (none) minor moderate high

Float Type(s) GRANITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction NE Angle 10°



SAMPLE RECORD 0306

Project Name HOCT SOILS

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 150E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0305

Project Name HOCT SOILS

Sampler's Initials WSC

Date 24 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6652165 0424041

Lat./Long.

Line #/Station # 16 150E-1

Elevation (feet) 1330 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 150 METERS EAST OF 16/000

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

RUSTY BROWN SAND, SILT & GRAVEL TO 55 CM

COBBLES OF GRANITE & BLACK SHALE TO 8 CM.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

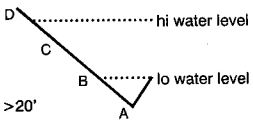
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ____ %

_____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

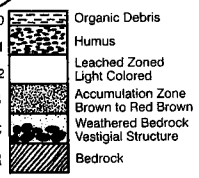
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 90 %

SHALE 10 %

Slope Direction NE Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

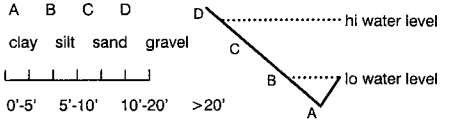
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ ____ %

_____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____ _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

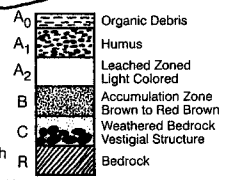
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 90 %

SHALE 10 %

Slope Direction NE Angle 10°



SAMPLE RECORD 0308

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 150E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0307

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 150E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

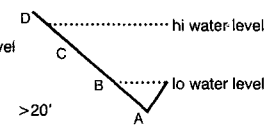
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊3.0⌋ ~~(inches)~~ cm

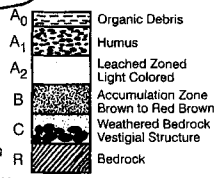
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) ⌊GRNT⌋ ⌊90⌋ %

⌊SHALE⌋ ⌊1.0⌋ %

Slope Direction ⌊NE⌋ Angle ⌊1.0⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

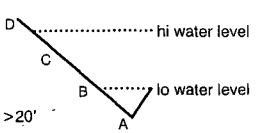
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊4.0⌋ ~~(inches)~~ cm

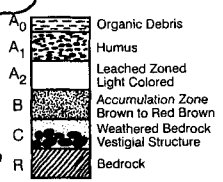
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) ⌊GRNT⌋ ⌊9.0⌋ %

⌊SHALE⌋ ⌊1.0⌋ %

Slope Direction ⌊NE⌋ Angle ⌊1.0⌋ °



SAMPLE RECORD 0310

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 200E-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0309

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6652162 0424097

Lat./Long.

Line #/Station # 16 200E-1

Elevation (feet) 1325 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species Dwarf Birch

COMMENTS

Location: 200 METERS EAST OF 16/000

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

RUSTY BROWN SAND, SILT & GRAVEL TO 60 cm
GRANITE CLASTS TO 3 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

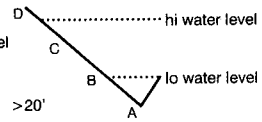
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊10⌋ ~~(inches)~~ CM

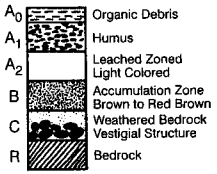
Moisture dry (damp) moist wet

Organics none minor (moderate) high

Float Type(s) GRANITE 10 10 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊NE⌋ Angle ⌊10⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

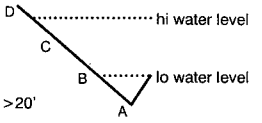
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊20⌋ ~~(inches)~~ CM

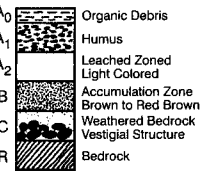
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 10 10 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction ⌊NE⌋ Angle ⌊10⌋ °



SAMPLE RECORD 0312

Project Name HOC + Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 200E-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0311

Project Name HOC + Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 200E-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination (absent) weak moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

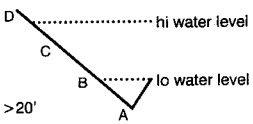
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

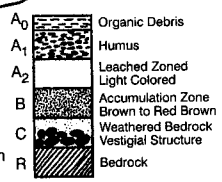
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) GRNT 100 %

⌊ ⌋ ⌊ ⌋ %

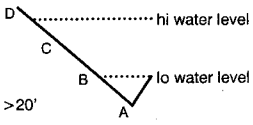
Slope Direction NE Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color ⌊ ⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

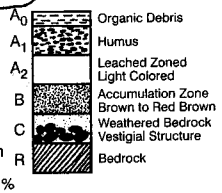
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) GRNT 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction NE Angle 10°



SAMPLE RECORD 0314

Project Name HOCT Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 050W-2

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0313

Project Name HOCT Soils

Sampler's Initials WSG

Date 24 06 07 (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E 6652134 0423827

Lat./Long.

Line #/Station # 16 050W-1

Elevation (feet) 1339 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 50 METERS WEST OF 16/000

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

RUSTY BROWN SILT, SAND & GRAVEL WITH MINOR ORGANICS
ROUNDED GRANITE BOULDERS
ANGULAR BLACK SHALE COBBLES
TO BOTTOM OF PIT @ 60 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

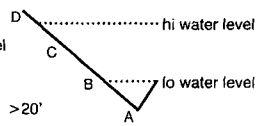
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 10 ~~(inches)~~ CM

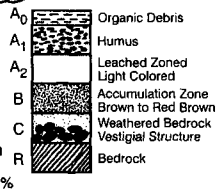
Moisture dry (damp) moist wet

Organics none minor (moderate) high

Float Type(s) GRANITE 50 %

SHALE 50 %

Slope Direction NE Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

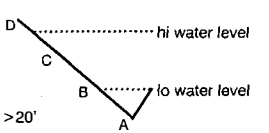
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 20 ~~(inches)~~ CM

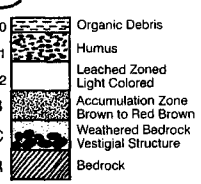
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 50 %

SHALE 50 %

Slope Direction NE Angle 20°



SAMPLE RECORD 0316

Project Name HOC - Soils

Sampler's Initials WSG

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 050W-4

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD 0315

Project Name HOC - Soils

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E

UTM/N/E

Lat./Long.

Line #/Station # 16 050W-3

Elevation (feet) (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

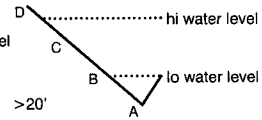
Location:

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

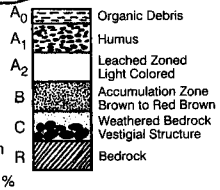
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 50 %

SHALE 50 %

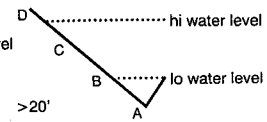
Slope Direction NE Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) Sand

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

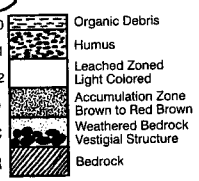
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) GRANT 50 %

SHALE 50 %

Slope Direction N 13 Angle 20°



PHASE – 1 B

RANCHERIA - REGIONAL REPORT

J.T., OPHIR & RIDGE

PREPARED FOR:
TANANA EXPLORATION INC.
27 TUTSHI ROAD
WHITEHORSE, YUKON
Y1A 3R4

BY:
WADE CARRELL
DECEMBER 31, 2007

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LIST OF FIGURES:

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CHAPTER ONE:

INTRODUCTION

This report outlines basic exploration work directed at appraising the regional mineral potential of the Rancheria area in south- eastern Yukon. The exploration work was carried out during the 2007- field season and is based on research completed by Wade Carrell, whose statement of qualifications is appended to this report. Personnel involved in the project were Wade Carrell and Ivan Elash. The budget for Phase 1 B of the project was $20,000.00 (see Appendix A for details).

PROJECT LOCATION:

The project area is centered on Spencer Creek in the Rancheria area of the southeast Yukon. It is located on the Wolf Lake map sheet and covers parts of NTS map sheets 105B/01 and 02 and is roughly located between 60° 00' to 60° 15' N Latitude by 130° 20' to 130° 35' W Longitude. Lying within the Watson Lake Mining District, the majority of the area (except for that claimed by the Liard First Nation) is vacant Crown Land (see figures 1 & 2 for target locations; Appendix D for regional geology and magnetic maps). Current NTS claim maps, claim status reports and field notes are in map pocket.

AREA ACCESS:

From Whitehorse, area access is best accomplished by road east on the Alaska Highway to the Rancheria area, a distance of approximately 270 km one way. Further

access to the various targets within the project area will utilize existing mining roads consisting of 4x4 and quad trails that leave the Alaska Highway to the north at Mile Post 692 and to the south at various points between Rancheria and Watson Lake. Roads provide direct access to the targets outlined below.

EXPLORATION MODELS:

The main target of exploration within the project area was focused on a variety of silver-lead-zinc mineral deposit types, principally represented by two main deposit types, consisting of carbonate replacements and polymetallic veins in faults and shear zones.

Anomalous results suggestive of other conceptual models (VMS) will also be evaluated.

TARGET DESCRIPTIONS:

Precious and base metal mineralization occurring within Paleozoic sedimentary rocks and Cretaceous plutonic rocks as veins and replacement lenses is well documented throughout the Rancheria area within and along the eastern margin of the Cassiar Batholith (see generalized Regional Geology, Appendix D). Numerous occurrences (30+) were discovered during two main periods of exploration in the late 1970's and the mid to late 1980's that dominately contain silver-rich galena, sphalerite, pyrite and chalcopyrite as well as lesser amounts of arsenopyrite, freibergite, tetrahedrite and pyrrhotite.

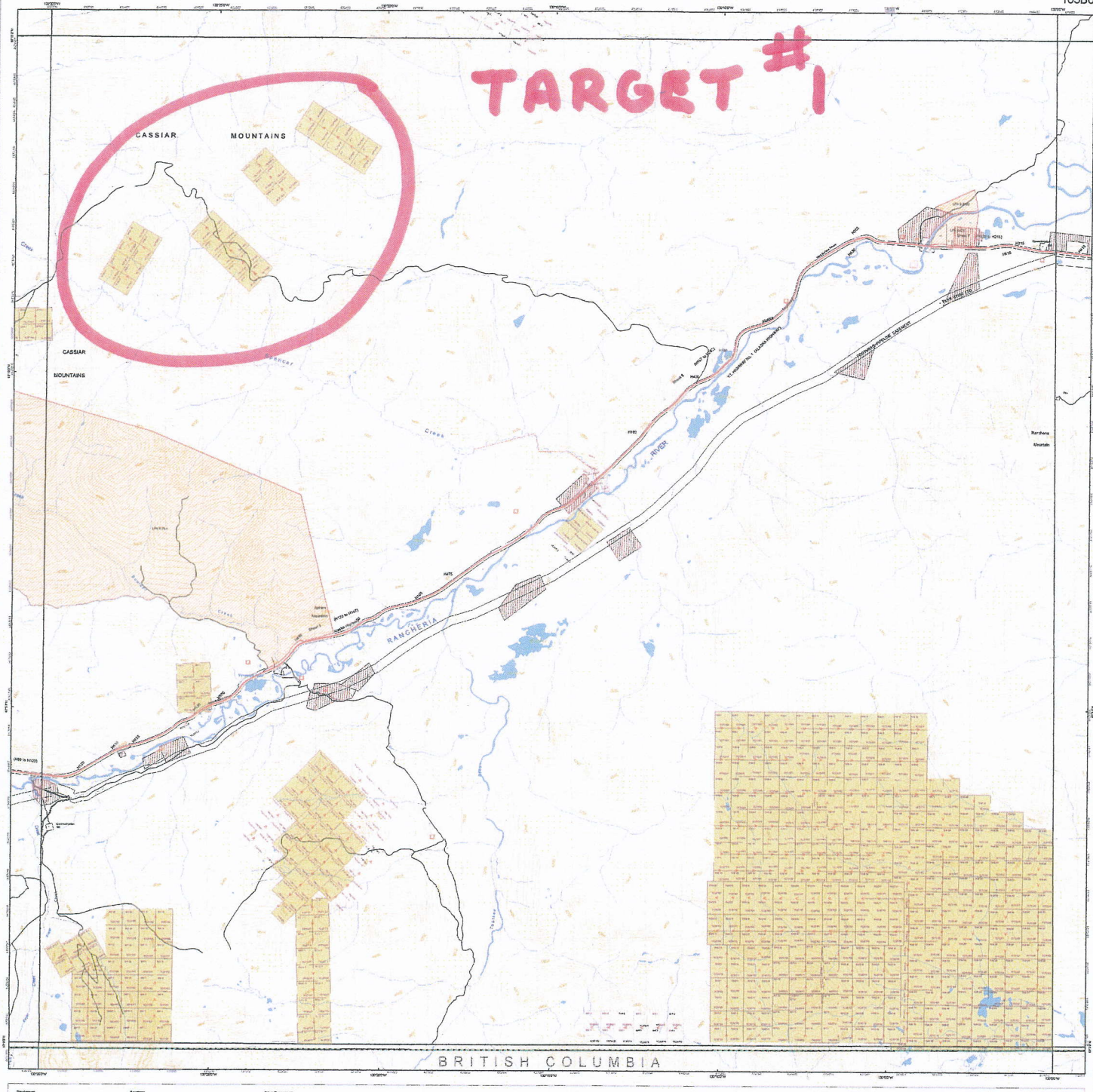
Mineralization appears to be structurally controlled by northeast-southwest jointing and to a lesser extent, by the lithological contact between limestone and phyliite. It is attributed to hydrothermal solutions migrating along the jointing and is readily identified in the field by the presence of iron and manganese gossans.

Research has identified several areas of interest within the regional, which are shown in Figures 1 & 2 and are described below.

TARGET AREA # 1: J. T. #1 – 10 and OPHIR #1 - 24; Located at approximately 60°10'N to 60°15'N Latitude between 130°35'W to 130°30'W Longitude near the border between map sheets 105B-01, 02 and 08 in the headwaters area of Spencer Creek. This target area is underlain by Paleozoic limestone, phyllite and schist, 4 to 10 kilometers east of the contact with the Cassiar Granite Batholith. A total of ten showings, including two drilled prospects have previously been identified in this area. Lenses of massive galena and polymetallic veins containing sphalerite, galena, chalcopyrite and siderite occur in and near northeast trending faults. Mineralization has been previously exposed over hundreds of meters of strike length, which at times is present in widths of up to 6 meters. Historic reports of massive galena-sphalerite veins (133 oz/t silver, 57% lead & 3.5 g/t gold across 18 inches), in the area have apparently never been followed up (Minfile Occurrences 105B 016, 017 & 018). Propsecting in conjuction with soil/till sampling was carried out in an attempt to relocate the high-grade veins as well as possibly other previously unrecognized occurrences. In July and August, 2007 claims were staked to secure and enlarge the Ophir #1 - #24(Minfile # 105B 016 & 017) and J.T. #1 - #10(Minfile # 105B 018) claim blocks. Work done on these claims has extended previous anomalies to the North and East. Seven days were spent prospecting and sampling the J.T. and Ophir claims.

TARGET AREA #2: RIDGE #1 & 2; Located at approximately 60° 1' N Latitude and 130° 34' W Longitude on NTS map sheet 105B/02, twelve kilometers south of the Alaska Highway, near Rancheria, Yukon. This target lays within the Cassiar Granite Batholith four kilometers west of the Dale (Minfile # 105B007) an open pit silver past producer. In early 2007 Ridge #1 and 2 were staked to cover an extension of the Dale Fault. Exploration work in August revealed a continuation of gold and silver bearing veins within the fault zone on Ridge #1 (4km west of the open pit). Preliminary mapping and prospecting has shown that the fault continues for several kilometers to the east and west across vacant Crown Land. Sampling of vein material across the fault structure on Ridge #1 returned values of 8.28 g/t gold and 57 g/t silver over one meter. Six days were spent prospecting the Ridge claims.

105B01



Disclaimer:

This map is a compilation of data obtained from many sources. While every effort has been made, the author(s) assume no responsibility for errors, inaccuracies, or omissions. Where there are differences between the actual locations on the ground, the ground location has precedence.

Category A Land - Contact First Nation for staking
Category B Land - Contact Mining Recorder's Office for staking

For mining claim information, please contact the Mining Recorder's Office for the appropriate mining district:

Whitehorse District Office
Rm 102 - 302 Hanson St
Whitehorse, YT Y1A 2R3
Ph: (867) 667-5189 Fax: (867) 667-8100
email: whitehorse.mining@gov.yk.ca

Dawson District Office
Box 349
Dawson City, YT Y0B 1G0
Ph: (867) 993-5345 Fax: (867) 993-6267
email: dawson.mining@gov.yk.ca

Watson District Office
Box 780
Watson Lake, YT Y0A 1C0
Ph: (867) 536-7236 Fax: (867) 536-7540
email: watson.mining@gov.yk.ca

Mayo District Office:
Box 10
Mayo, YT Y0B 1M0
Ph: (867) 996-2256 Fax: (867) 996-2617
email: mayo.mining@gov.yk.ca

Sources:

Mining claim locations obtained from staking sketches except for Quartz Recording System (QRS) located claims

1:50000 scale digital topography obtained from Natural Resources Canada's Atlantic Topographic System data.

Survey data obtained from Natural Resources Canada's Legal Surveys Division. For more information, please contact:

National Resources Canada Legal Surveys Division, Whitehorse
Rm 225 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-3958 Fax: (867) 393-6797

Lands information obtained from Energy, Mines and Resources Lands Branch. For more information, please contact:

Energy, Mines and Resources Lands Branch
Rm 320 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-8269 Fax: (867) 393-6239
email: lands.energy@gov.yk.ca

Agricultural information obtained from Energy, Mines and Resources Agriculture Branch. For more information, please contact:

Energy, Mines and Resources Agriculture Branch
Rm 320 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-5838 Fax: (867) 393-6222
email: agriculture.energy@gov.yk.ca

Interim Protected Land claims information obtained from Indian and Northern Affairs Canada. For more information, please contact:

Indian and Northern Affairs Canada
Rm 345 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-3960 Fax: (867) 667-3961

Other Resources:

For access to assessor, mining assessment reports, and mining inspectors:

Yukon Energy, Mines and Resources Library
Rm 320 - 300 Main St
Whitehorse, YT Y1A 2B5
Ph: (867) 667-5811 Fax: (867) 456-3898
Em @: library.energy@gov.yk.ca

Yukon Geological Survey
Rm 102 - 302 Hanson St
Whitehorse, YT Y1A 2R3
Ph: (867) 456-3838 Fax: (867) 667-8100

Or:

3ard Floor Arc
Whitehorse, YT Y1A 3V6
Ph: (867) 667-8523 Fax: (867) 393-6263

Yukon Geological Survey Maps and Publications are available by emailing:
geology.publications@gov.yk.ca

or can be downloaded from:
www.geology.gov.yk.ca

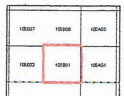
Online Resources:

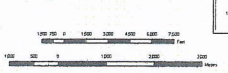
Mining Claims maps are also available online at the Yukon Mining Recorder Website:
www.mining.gov.yk.ca

Yukon Geological Survey Maps, Articles, and Publications are also available at the Yukon Geological Survey website:
www.geology.gov.yk.ca

105B01
MINING CLAIMS

UTM Zone: UTM Zone 9
Datum: NAD 83
Mining District: Watson
Map Creation Date: Sep 28, 2007





Mining
- Quartz Claim Annex
- Placer Baseline
- Mining District Boundaries

Claim Status
- Active Quartz Claim
- Active Placer Claim
- Expired Claim

Coal
- Coal Exploration Licence
- Coal Mining Lease
- Expired Licence or Lease

Areas Withdrawn from Staking
- First Nation Interim Protected Lands
- Parks and Special Management Areas

Areas Not Withdrawn from Staking
- Parks and Special Management Areas

First Nation Settlement Land Category
- A
- B
- FN
- Unclassified

First Nation Surveyed Lands Category
- A
- B
- FN
- Unclassified

Kwanlin Legal Survey Cadastral
- First Nations Community Lots
- Special Access Right-of-way's FN Lands
- Mineral Claims
- Community Land Transfers (Offer in Council)
- Land Dispositions (Lots)
- Easements

EMR Lands
- Land Disposition
- Land Application
- Agricultural Disposition
- Agricultural Application
- Withdrawn

Mapsheet Index
- 1:50K Mineral Index
- Mineral Index

Base Map Features

Hydrographic
- Watercourses
- Waterbody
- Intermittent waterbody
- Underwater land
- Dry river bed

Topography
- Contours

Transportation Routes
- Highway
- Main
- Secondary
- Street
- Limited use road
- Trail
- Cat line
- Railway
- Bridge
- Foot Bridge
- Ferry route
- Ford

Yukon
Energy, Mines and Resources
Mineral Resources Branch

105B02

Disclaimer:

This map is a compilation of data obtained from many sources. The Yukon Government and its employees take no responsibility for errors, inaccuracies, or omissions. Where the map differs from the actual land locations on the ground, the ground location has precedence.

Category A Land - Contact First Nation for staking
Category B Land - Contact Mining Recorder's Office for staking

For mining claim information, please contact the Mining Recorder's Office for the appropriate mining district:

Whitehorse District Office
Box 2703 (K-804)
Whitehorse, YT Y1A 2C6
Ph: (867) 667-5189 Fax: (867) 393-6181
email: whitehorse.mining@gov.yk.ca

Dawson District Office
Box 291
Dawson City, YT Y0B 1G0
Ph: (867) 993-5349 Fax: (867) 993-5767
email: dawson.mining@gov.yk.ca

Watson District Office
Box 10
Watson Lake, YT Y0A 1C0
Ph: (867) 536-7398 Fax: (867) 536-7582
email: watson.mining@gov.yk.ca

Mayo District Office
Box 10
Mayo, YT Y0B 1M0
Ph: (867) 996-2926 Fax: (867) 996-2947
email: mayo.mining@gov.yk.ca

Sources:

Mining claim locations obtained from staking sketches except for Grand Prix Mining System (GPS) marker stakes.

1:50000 scale digital topography obtained from Natural Resources Canada's NTDB Topographic System data.

Survey data obtained from Natural Resources Canada Legal Surveys Division. For more information, please contact:

Natural Resources Canada Legal Surveys Division, Whitehorse
Box 2703 - 300 Main St
Whitehorse, YT Y1A 2B6
Ph: (867) 667-3888 Fax: (867) 393-6797

Base mapping courtesy of Digital Chart of the World, ESRI, 1998. All rights reserved.

Land information obtained from: Energy, Mines and Resources Lands Branch. For more information, please contact:

Energy, Mines and Resources Lands Branch
Box 2703 - 300 Main St
Whitehorse, YT Y1A 2B6
Ph: (867) 667-8215 Fax: (867) 393-6239
email: lands.mining@gov.yk.ca

Agricultural information obtained from: Energy, Mines and Resources Agriculture Branch. For more information, please contact:

Energy, Mines and Resources Agriculture Branch
Box 2703 - 300 Main St
Whitehorse, YT Y1A 2B6
Ph: (867) 667-8215 Fax: (867) 393-6222

Interim Protected Land Claims information obtained from Indian and Northern Affairs Canada. For more information, please contact:

Indian and Northern Affairs Canada
300 Main St, Suite 345
Whitehorse, YT Y1A 2B5
Ph: (867) 667-8855 Fax: (867) 667-3891

Other Resources:

For access to previous Mining Assessment Reports, and geology publications:

Yukon Energy, Mines and Resources Library
Box 2703 - 300 Main St
Whitehorse, YT Y1A 2B6
Ph: (867) 667-5811 Fax: (867) 456-3898
Email: info@geology.gov.yk.ca

Yukon Geological Survey
Box 2703 - 300 Main St
Whitehorse, YT Y1A 2B6
Ph: (867) 456-3958 Fax: (867) 667-3136

Or

GEOLOGICAL
Box 4319
Whitehorse, YT Y1A 2T9
Ph: (867) 667-4358 Fax: (867) 667-4231

Yukon Geological Survey Maps and Publications are available by emailing:
mail.mining@gov.yk.ca

or can be downloaded from:
www.geology.gov.yk.ca

Online Resources:

Mining Claims maps are also available online at the Yukon Geological Survey website:
www.yukongeology.com

Yukon Geological Survey Maps, Memos, and Publications are also available at the Yukon Geological Survey website:
www.geology.gov.yk.ca

105B02
MINING CLAIMS

UTM Zone: UTM Zone 9
Datum: NAD 83
Mining District: Yukon
Map Creation Date: Jul 20, 2007

105B08	105B07	105B06
105B09	105B02	105B01
105A14	105A15	105A16

Mining
- Quartz Claim Arrows
- Placer Baselines
- Mining District Boundaries

Claim Status
- Active Quartz Claim
- Active Placer Claim
- Expired Claim

Coal
- Coal Exploration Licence
- Coal Mining Lease
- Expired Licence or Lease

Areas Withdrawn from Staking
- First Nation Interim Protected Lands
- Parks and Special Management Areas

Areas Not Withdrawn from Staking
- Parks and Special Management Areas

First Nation Settlement Land Category
- A
- B
- FS

First Nation Surveyed Lands Category
- A
- B
- FS
- Unsurveyed

NWCan Legal Survey Cadastral
- First Nations Community Lots
- Special Access Right through FN Lands
- Mineral Claims
- Community Land Transfers (Crown Council)
- Land Dispositions (Lots)
- Easements

Shift Lands
- Land Disposition
- Land Application
- Agricultural Disposition
- Agricultural Application
- Mission

Shapefile Index
- 1M Mineral Index
- Mineral Index

Base Map Features
Hydrographic
- Waterbodies
- Waterbody
- Intermittent waterbody
- Underwater land
- Dry river bed

Topography
- Contours

Transportation Routes
- Highway
- Main
- Secondary
- Street
- Limited use road
- Trail
- Cut line
- Railway
- Bridge
- Foot Bridge
- Ferry route
- Pond

Yukon
Energy, Mines and Resources
Mineral Resources Branch

PROJECT RATIONALE:

An abundance of under-explored high-grade silver-lead-zinc targets are known to exist within this region, which is easily accessible directly from the Alaska Highway, in an area that has not seen any significant exploration activity for nearly 20 years. During two previous periods of historic exploration in this region, work was highly concentrated on a few specific occurrences. Little or no follow-up work on targets identified peripheral to these occurrences on the extensive claim holding of a small number of companies which blanketed the area was carried out and many of these claims were held afterwards by payments in lieu of work for extended periods of time. Numerous historic assessment reports that have been incorporated into the MINFILE database are available on line and for viewing in the library at the Elijah Smith building. Research of these reports has lead to the identification of the targets described in this regional reconnaissance report.

DISCRIPTION AND TYPE OF WORK:

A regional exploration program for various types of Ag, Au, Cu, Pb & Zn mineralization was undertaken in the previously described target areas during the 2007 field season. The project relied heavily on ongoing detailed research and a program of targeted geochemical soil/till sampling surveys and prospecting to vector targets for a follow-up program and ground geophysics in 2008. Sampling was initiated as soon as local conditions permitted within the areas described above (claim map sheets in the map pocket at the end of this report).

Targeted geochemical sampling of soil & till was carried out in the priority areas described above using techniques employed by the Yukon Geological Survey. Sample pits were hand dug with pick and spade to an average depth of 60 cm. One sample was taken from the bottom of each pit, placed in Kraft paper sample bags (300 gram sample), dried and later shipped for standard ICP analysis. Four samples at 10cm intervals were taken with a plastic trowel (cleaned between samples), placed in Ziploc plastic sandwich

bags (300 gram sample), each marked as to sample site and interval. Samples were double bagged and later shipped for MMI multi element leach analysis (orientation survey to determine correct sample depth). The sample locations and line spacing varied from one property to another in order to cover known structures and lithologies (sample location maps in Appendix C). Prospecting and sampling was carried out in conjunction with soil/till sampling and any mineralized float or outcrop discovered was prospected and sampled immediately.

Upon completion of the initial phase, 135 till samples were sent to SGS Mineral Services in Toronto, for mobile metal ion / multi-element leach analysis, 44 rock and 36 till samples were sent to Acme Analytical Lab in Vancouver and or Echo Tech Lab in Kelowna, for standard ICP multi-element analysis. Follow-up and investigation of anomalies detected during the initial exploration phase will be undertaken on a priority basis after compilation of the analytical results and the collected geological data.

Phase 1 reconnaissance and sampling took 26 man/days and $ 19,352.33 was spent to complete this work (Activity Log Cost Breakdown for each property is presented as Appendix A).

Conclusions:

J.T. #1 – 10: Two days were spent sampling the J.T. claims. The rock and till sampling survey conducted in August confirmed extensive mineralization in previously known structural linears (values to 2.1 g/t silver in soils and 17 g/t silver across 6 meters of rock chips). Rock and soil samples sent for ICP analysis confirmed historic values. Cat trenching by former operators has exposed metallic sulfides in widths up to 6 meters. Wide spaced MMI till sampling to the east has extended the geochemical soil anomalies two kilometers.

OPHIR #1 – 24: Five days were spent prospecting and sampling the Ophir claims. The rock and till sampling survey conducted in August confirmed extensive mineralization in previously known structural linears (values to 133 oz/t silver, 3.5 g/t

gold & 57% lead across 18 inches). The rock and soil samples sent for ICP analysis confirmed historical values (942 g/t silver, 9.6% lead & 3.6% zinc across I meter). Cat trenching by former operators (across the fault structures) has exposed sulfide mineralization (veins & lenses to 2 meters wide).The MMI soil samples returned anomalies on all grids. However it must be noted that the grids covered a small part of three claim blocks separated by at least one kilometer to the northeast or southwest. The wide spaced sample grids were set out as an orientation survey to test for geochemical anomalies between strong, well mineralized fault linears.

RIDGE #1 – 2: Six days were spent in August prospecting and sampling rocks only from a fault zone (Dale Fault) that cuts across Tootsie Ridge. Fifteen samples of altered granite and quartz vein material were sent for ICP analysis. The highest sample (R14-R) was taken from galena rich quartz vein (30cm vein) in outcrop, 50m above the collapsed portal on Ridge #1. This sample ran 8.28g/ton gold and 57g/ton silver. The Main Vein on Ridge #1 claim is filling a vertical structure in the granite that is widening with depth.

RECOMMENDATIONS:

All three properties surveyed merit more work next season. Chip sampling of all cat trenching on J.T. and Ophir must be done. An extensive MMI sampling program for J.T. and Ophir, initial soil sampling survey of Ridge and hand or excavator trenching on Ridge #1 are recommended. A magnetometer survey is recommended for all of the above properties.

Budgeting for Phase 2 assumes collection of possibly 500 till and 100 rock samples as well as ground geophysics. Anomalies should be followed up in priority order.

ENVIRONMENT/RESOURCES

No special environmental/resource concerns are known for any of these areas. The Department of Indian and Northern Affairs has implemented land use regulations in the Yukon Quartz Mining Act. Under these regulations, approval of a land use permit will be required prior to commencing any exploration activity that exceeds the Class 1 threshold (Class 1 activities are exempt). The work currently completed will not exceed the Class 1 threshold and thus activities in these areas will adhere to the operating conditions setout in Schedule III of the Yukon Quartz Mining Land Use Regulations and follow reclamation techniques setout in DIAND's Handbook to Reclamation Techniques in the Yukon for camp sites and control of erosion associated with trenching. First Nation land tenure and title rights will be respected on any claimed land adjacent to the project areas and any environmental concerns will be addressed through strict adherence to the Operating Conditions of the Mining Land Use Regulations for Class I, II, III and IV Programs. In addition any camp areas were properly maintained by following guidelines for no-trace camping and all garbage was properly handled and removed from the areas during and upon completion of each project. Of utmost importance was the maintenance of water quality standards in the areas by ensuring that creek banks were not disturbed and/or eroded and that wash and human waste disposal areas will not contaminate any ground water sources.

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.

REGIONAL RESOURCES LTD, Dec/84. Assessment Report #091589 by M.A. Stammers.

YUKON GEOLOGICAL SURVEY WEBSITE – MAP GALLERY

APPENDIX A

ACTIVITY LOG / COST BREAKDOWNS

2007

J. T. CLAIMS
ACTIVITY LOG COST BREAKDOWN

PERSONNEL: WADE CARRELL, IVAN ELASH

DATE	PERSONNEL WC	IE	ACTIVITY DESCRIPTION
AUG 21/07	X	X	Prospecting and till sampling on J.T. #1-10
AUG 22/07	X	X	Prospecting and till sampling on J.T. #1-10
SEP 01/07	X	X	Ship MMI samples to SGS Canada Lab; Toronto
SEP 02/07	X	X	Ship ICP samples to Acme Analytical Lab; Vancouver

J. T. COST BREAKDOWN

7 ROCK SAMPLES	ICP ANALYSIS @ $22.60 per sample = $158.20
11 TILL SAMPLES	ICP ANALYSIS @ $15.10 per sample = $166.10
44 TILL SAMPLES	MMI ANALYSIS @$35.00 per sample = $1540.00
6 DAYS LABOUR	LABOUR @ $300.00 per man/day = $1800.00
2 QUADS	TWO QUADS @ $50.00/quad/day = $200.00
GASOLINE	GASOLINE - 4 TANKS @ $25.0/tank = $100.00
LIVING ALLOWANCE	TWO DAYS FOOD @ $70.0/day = $140.00
SHIPPING SAMPLES	SAMPLES to Toronto via Greyhound = $111.09
SHIPPING SAMPLES	SAMPLES to Vancouver via Greyhound = $57.00
TOTAL COST	$4,272.39

2007

OPHIR CLAIMS
ACTIVITY LOG COST BREAKDOWN

PERSONNEL: WADE CARRELL, IVAN ELASH

DATE	PERSONNEL WC	PERSONNEL IE	ACTIVITY DESCRIPTION
JULY 19/07	X	X	Prospecting and rock sampling on Ophir #1-10
JULY 20/07	X	X	Prospecting and rock sampling on Ophir #1-10
AUG 23/07	X	X	Prospecting and rock sampling on Ophir #1-10
AUG 26/07	X	X	Prospecting and till sampling on Ophir #1-10
AUG 27/07	X	X	Prospecting and till sampling on Ophir #11-24
SEP 01/07	X	X	Ship MMI samples to SGS Canada Lab; Toronto
SEP 02/07	X	X	Ship ICP samples to Acme Analytical Lab; Vancouver

OPHIR COST BREAKDOWN

22 ROCK SAMPLES	ICP ANALYSIS @ $22.60 per sample = $497.20
25 TILL SAMPLES	ICP ANALYSIS @ $15.10 per sample = $377.50
91 TILL SAMPLES	MMI ANALYSIS @ $35.00 per sample= $3185.00
12 DAYS LABOUR	LABOUR @ $300.00 /man /day = $3600.00
2 QUADS	2 QUADS @ $50.00 /quad /day = $500.00
GASOLINE	GASOLINE - 10 TANKS @ $25.00 /tank = $250.00
LIVING ALLOWANCE	FIVE DAYS FOOD @ $70.00 /day = $350.00
SHIPPING SAMPLES	SAMPLES to Toronto via Greyhound = $111.09
SHIPPING SAMPLES	SAMPLES to Vancouver via Greyhound = $57.00
TOTAL COST	$8,927.79

2007

RIDGE CLAIMS
ACTIVITY LOG COST BREAKDOWN

PERSONNEL: WADE CARRELL, IVAN ELASH

DATE	PERSONNEL WC	IE	ACTIVITY DESCRIPTION
AUG 13/07	X	X	Prospecting & rock sampling on Ridge #1 & 2
AUG 14/07	X	X	Prospecting & rock sampling on Ridge #1 & 2
AUG 15/07	X	X	Prospecting & rock sampling on Ridge #1 & 2
AUG 16/07	X	X	Prospecting & rock sampling on Ridge #1 & 2
AUG 17/07	X	X	Prospecting & rock sampling on Ridge #1 & 2
AUG 18/07	X	X	Prospecting & rock sampling on Ridge #1 & 2
SEPT 2/07	X		Ship ICP samples to Acme Analytical Lab; Vancouver

RIDGE COST BREAKDOWN

15 ROCK SAMPLES	ICP ANALYSIS @ $22.60 per sample = $339.00
12 DAYS LABOUR	LABOUR @ $300.00 per man/day = $3,600.00
RANCHERIA MOTEL	6 DAYS @ $80.00 per day = $480.00
TRUCK & TRAILER	6 DAYS @ $60.00 per day = $360.00
2 QUADS	6 DAYS @ $50.00 per quad/day = $600.00
GASOLINE	GASOLINE @ $25.00 per tank x 12 = $300.00
LIVING ALLOWANCE	6 DAYS FOOD @ $70.00 per day = $420.00
SHIPPING SAMPLES	SAMPLES TO VANCOUVER VIA GREYHOUND = $ 53.15
TOTAL COST	$6,152.15

APPENDIX B

CERTIFICATES OF ANALYSIS

ICP AND MMI SPREAD SHEETS

ACME ANALYTICAL LABORATORIES LTD.
852 E. Hastings St. Vancouver BC V6A 1R6 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Tanana Exploration Inc.**
27 Tutshi Road
Whitehorse YT Y1A 3R4 Canada

Submitted By: W. Carrell
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: October 10, 2007
Report Date: December 18, 2007
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN07001899.1

CLIENT JOB INFORMATION

Project: RANCHERIA
Shipment ID:
P.O. Number
Number of Samples: 39

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	39	Dry at 60C sieve 100g to -80 mesh		
Split Reject	39	Reject sample split/packet		
1DX	39	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed

ADDITIONAL COMMENTS

Invoice To: Tanana Exploration Inc.
27 Tutshi Road
Whitehorse YT Y1A 3R4
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

ACME ANALYTICAL LABORATORIES LTD.
852 E. Hastings St. Vancouver BC V6A 1R6 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Tanana Exploration Inc.**
27 Tutshi Road
Whitehorse YT Y1A 3R4 Canada

Project: RANCHERIA
Report Date: December 18, 2007

CERTIFICATE OF ANALYSIS VAN07001899.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
0371	Soil	0.1	6.6	51.7	20	0.3	9.0	4.3	3075	1.51	12.7	0.3	4.6	2.3	1261	<0.1	1.8	0.8	3	27.64	0.020
0372	Soil	0.4	16.3	190.0	126	2.1	27.0	9.3	1213	1.93	21.9	0.5	3.2	2.1	728	0.6	4.3	0.3	26	17.76	0.031
0373	Soil	0.3	17.9	61.3	46	0.2	29.8	9.9	960	1.77	16.6	0.3	12.5	2.5	714	0.2	1.4	0.6	24	23.14	0.034
0374	Soil	0.4	17.7	273.1	140	0.4	28.0	10.6	1053	3.17	22.2	0.8	23.8	3.6	294	0.6	1.3	0.6	31	7.86	0.061
0375	Soil	0.3	27.0	139.8	150	0.6	55.3	20.8	1669	3.63	24.6	0.6	5.5	7.7	175	0.4	1.6	0.6	31	4.91	0.059
0376	Soil	0.6	27.6	290.2	795	1.4	59.1	14.8	1979	4.55	41.9	1.2	25.0	7.4	21	2.4	1.6	0.7	30	0.27	0.094
0377	Soil	0.7	34.8	290.6	371	0.3	50.5	17.8	1459	4.75	63.5	1.1	4.9	11.7	7	0.9	1.4	0.5	30	0.05	0.055
0378	Soil	0.4	10.1	58.1	144	0.1	16.9	6.2	482	1.44	8.8	0.4	1.5	3.3	859	0.2	0.7	0.2	18	22.88	0.038
0379	Soil	0.2	11.4	36.0	62	<0.1	17.3	7.5	380	1.76	10.3	0.4	1.0	3.3	866	0.2	0.7	0.2	11	13.47	0.043
0380	Soil	0.2	3.2	11.7	18	<0.1	5.7	3.5	185	0.80	2.3	0.5	<0.5	2.0	2465	<0.1	0.2	0.1	7	30.57	0.041
0381	Soil	0.2	6.6	29.8	31	0.1	10.1	5.8	679	1.50	5.8	0.4	2.8	4.1	1594	0.1	0.5	0.3	8	25.76	0.040
0382	Soil	0.4	34.9	26.3	88	<0.1	57.0	23.9	617	5.45	4.5	1.0	<0.5	17.4	22	<0.1	0.4	0.6	12	0.13	0.023
0383	Soil	0.2	19.8	47.8	130	0.4	31.8	9.8	171	3.96	30.0	0.8	1.0	10.3	52	<0.1	0.6	0.5	10	0.37	0.056
0384	Soil	0.5	17.7	44.6	91	<0.1	30.5	14.6	679	5.04	13.6	0.9	<0.5	12.9	10	0.1	0.6	0.6	16	0.09	0.052
0385	Soil	0.2	23.1	53.5	96	<0.1	54.6	19.0	1302	5.25	12.6	1.6	<0.5	15.6	27	<0.1	0.4	0.7	11	0.19	0.038
0386	Soil	0.6	35.5	43.5	91	<0.1	66.1	23.4	405	5.85	19.1	2.7	<0.5	18.7	26	<0.1	0.7	0.8	13	0.17	0.037
0387	Soil	0.2	40.0	32.0	89	<0.1	53.4	19.6	448	4.87	15.0	0.9	1.4	17.7	28	<0.1	0.4	0.6	13	0.13	0.025
0388	Soil	0.2	24.9	25.4	98	<0.1	38.2	15.7	338	4.54	8.1	1.1	0.8	13.4	33	<0.1	0.3	0.4	11	0.19	0.035
0389	Soil	0.4	110.4	58.4	107	0.3	123.9	62.4	521	8.38	24.9	2.1	1.1	24.9	141	<0.1	1.4	1.8	9	1.30	0.054
0390	Soil	0.2	38.3	46.6	172	0.1	52.8	19.2	246	4.93	13.3	0.8	0.7	14.8	30	0.2	0.7	0.7	11	0.30	0.043
0391	Soil	0.5	83.1	142.7	76	0.3	95.9	59.5	2897	6.62	17.2	1.7	0.8	17.1	27	0.2	0.4	2.5	10	0.14	0.049
0392	Soil	0.3	44.4	56.0	110	<0.1	53.9	22.3	981	4.81	19.4	1.1	1.6	15.3	56	0.1	0.4	1.1	19	0.24	0.015
0393	Soil	0.4	36.5	30.3	91	0.1	56.4	27.2	569	5.39	21.4	0.8	1.3	14.5	85	<0.1	0.5	0.8	11	0.73	0.033
0394	Soil	0.5	31.0	27.7	89	0.1	42.4	21.2	731	4.85	16.5	1.4	1.4	12.8	30	<0.1	0.5	0.7	12	0.17	0.033
0395	Soil	8.9	44.9	44.7	67	<0.1	59.0	35.3	1522	8.13	19.6	2.3	7.4	13.5	17	<0.1	0.6	6.4	19	0.10	0.047
0396	Soil	0.3	49.6	28.1	101	0.1	72.4	29.0	361	5.24	37.5	0.9	1.0	17.8	89	<0.1	0.5	0.6	11	0.80	0.058
0397	Soil	1.9	54.7	379.2	511	2.6	99.7	46.8	2815	8.80	208.5	1.9	11.6	7.8	59	1.8	10.0	0.3	76	0.45	0.262
0398	Soil	0.6	21.8	88.8	108	<0.1	13.2	6.1	384	1.99	16.5	2.9	2.8	32.2	12	0.4	0.7	0.2	15	0.12	0.047
0399	Soil	0.5	37.1	80.1	101	0.5	71.0	26.6	2527	5.30	64.4	1.1	3.3	10.3	53	0.3	2.1	1.0	30	0.55	0.130
0400	Soil	0.5	34.5	54.4	116	0.3	47.5	19.1	828	4.80	25.4	1.2	3.4	11.6	39	0.3	1.5	0.5	19	0.79	0.083

ACME ANALYTICAL LABORATORIES LTD.
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Client: **Tanana Exploration Inc.**
27 Tutshi Road
Whitehorse YT Y1A 3R4 Canada

Project: RANCHERIA
Report Date: December 18, 2007

CERTIFICATE OF ANALYSIS VAN07001899.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
0371	Soil	15	3	0.16	111	0.002	<1	0.16	0.001	0.01	0.1	0.01	1.4	<0.1	<0.05	<1	<0.5
0372	Soil	8	29	0.71	74	0.028	2	0.73	0.005	0.04	0.1	0.03	2.4	<0.1	<0.05	2	<0.5
0373	Soil	9	20	0.53	95	0.025	<1	0.76	0.005	0.04	0.2	0.01	2.5	<0.1	<0.05	2	<0.5
0374	Soil	18	30	1.23	76	0.026	<1	1.33	0.006	0.06	0.1	0.02	3.1	0.1	0.07	4	<0.5
0375	Soil	19	54	0.90	91	0.042	<1	1.45	0.005	0.12	0.1	0.01	4.4	0.2	<0.05	5	<0.5
0376	Soil	32	38	0.61	112	0.011	<1	1.73	0.004	0.06	0.2	0.05	4.9	0.1	<0.05	4	<0.5
0377	Soil	34	38	0.49	91	0.007	<1	1.50	0.002	0.06	0.2	0.02	5.4	<0.1	<0.05	5	<0.5
0378	Soil	10	17	0.55	56	0.023	1	0.65	0.005	0.04	0.2	0.01	1.8	<0.1	<0.05	2	<0.5
0379	Soil	15	11	0.38	39	0.009	<1	0.59	0.003	0.02	0.1	<0.01	1.7	<0.1	0.07	2	<0.5
0380	Soil	9	7	0.32	22	0.007	<1	0.30	0.002	0.02	<0.1	<0.01	1.1	<0.1	0.10	<1	<0.5
0381	Soil	12	7	0.31	71	0.011	<1	0.36	0.003	0.03	<0.1	<0.01	1.5	<0.1	<0.05	<1	<0.5
0382	Soil	50	27	0.83	34	0.001	4	2.20	0.004	0.04	<0.1	<0.01	1.9	<0.1	<0.05	5	<0.5
0383	Soil	29	17	0.46	38	0.001	<1	1.36	0.003	0.03	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5
0384	Soil	42	23	0.50	46	0.003	<1	1.71	0.003	0.03	<0.1	0.02	1.5	<0.1	<0.05	5	0.5
0385	Soil	43	23	0.63	40	0.002	<1	1.87	0.006	0.05	0.1	0.01	3.2	<0.1	<0.05	4	<0.5
0386	Soil	38	22	0.69	43	0.003	<1	1.61	0.004	0.05	0.2	<0.01	3.0	<0.1	<0.05	4	<0.5
0387	Soil	44	23	0.75	31	0.004	<1	1.74	0.006	0.04	0.3	0.02	4.0	<0.1	<0.05	5	<0.5
0388	Soil	40	27	0.83	18	0.003	<1	1.83	0.002	0.03	<0.1	<0.01	2.3	<0.1	<0.05	5	<0.5
0389	Soil	38	21	0.81	19	0.001	<1	1.58	0.002	0.02	<0.1	<0.01	2.9	<0.1	0.06	4	<0.5
0390	Soil	40	25	0.78	30	0.002	<1	1.76	0.003	0.05	0.2	0.02	2.3	<0.1	<0.05	5	<0.5
0391	Soil	42	24	0.61	13	0.002	<1	1.59	0.002	0.01	<0.1	0.03	4.8	<0.1	<0.05	4	<0.5
0392	Soil	36	29	0.72	99	0.007	<1	1.81	0.011	0.10	0.2	0.01	3.4	<0.1	<0.05	5	<0.5
0393	Soil	33	22	0.70	48	0.002	<1	1.64	0.005	0.06	0.2	0.01	3.8	<0.1	<0.05	4	<0.5
0394	Soil	39	25	0.70	49	0.002	<1	1.77	0.003	0.05	0.2	0.02	3.2	<0.1	<0.05	5	<0.5
0395	Soil	49	24	0.36	116	0.010	<1	1.48	0.004	0.03	4.4	0.03	5.7	<0.1	<0.05	4	0.8
0396	Soil	40	23	0.78	32	0.005	<1	1.65	0.005	0.07	<0.1	0.01	2.5	<0.1	<0.05	5	0.5
0397	Soil	76	54	0.82	271	0.039	5	1.75	0.004	0.22	0.4	0.02	11.9	0.5	<0.05	5	<0.5
0398	Soil	32	14	0.30	47	0.007	<1	1.14	0.002	0.14	0.1	<0.01	1.5	0.1	<0.05	4	<0.5
0399	Soil	35	31	0.54	90	0.013	<1	1.17	0.003	0.06	0.3	0.03	4.3	<0.1	<0.05	3	<0.5
0400	Soil	33	27	0.43	74	0.009	<1	1.11	0.005	0.09	0.2	0.02	3.7	<0.1	<0.05	3	<0.5

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Project: RANCHERIA
Report Date: December 18, 2007

CERTIFICATE OF ANALYSIS VAN07001899.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
0401	Soil	1.4	36.7	36.0	73	0.2	38.2	11.5	818	3.18	14.1	1.6	1.9	19.3	46	0.2	2.1	0.2	22	0.39	0.052
0402	Soil	0.7	70.3	96.9	102	<0.1	88.0	43.9	2389	7.15	5.5	2.3	0.5	26.6	18	0.2	0.8	1.7	19	0.08	0.064
0403	Soil	0.4	35.2	73.0	78	<0.1	54.8	24.4	1134	5.18	6.2	1.0	<0.5	16.8	24	0.2	0.3	1.2	16	0.15	0.074
0404	Soil	0.6	22.4	376.0	520	1.1	242.0	31.7	3067	10.01	402.7	1.7	6.8	2.7	72	1.1	5.6	0.3	19	1.30	0.431
0405	Soil	0.4	41.1	246.4	224	0.6	51.2	20.1	494	3.98	415.6	1.0	24.6	11.7	59	0.3	6.5	0.4	11	1.33	0.076
0406	Soil	0.7	88.0	2235	7201	5.6	43.7	14.6	3477	4.40	370.8	1.4	39.2	2.4	90	13.9	11.1	0.3	16	1.88	0.131
0407	Soil	0.3	112.6	42.1	129	0.1	45.9	18.7	428	3.83	39.6	1.4	2.9	20.9	58	0.2	1.9	0.3	12	1.48	0.055
R001-S	Soil	3.1	24.6	450.2	1754	0.9	9.9	9.5	2533	3.00	12.6	13.1	5.7	8.3	48	3.6	0.6	0.5	36	0.31	0.145
R002-S	Soil	0.3	14.0	26.8	106	<0.1	13.0	7.8	443	2.03	2.0	2.8	1.1	14.0	26	0.2	0.2	0.2	42	0.36	0.122

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27 Tutshi Road
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Project: RANCHERIA
Report Date: December 18, 2007

CERTIFICATE OF ANALYSIS VAN07001899.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
0401	Soil	41	29	0.40	127	0.003	2	1.39	0.003	0.12	<0.1	<0.01	2.9	0.2	<0.05	4	<0.5
0402	Soil	65	39	0.95	41	0.006	<1	2.43	0.003	0.03	<0.1	0.01	4.6	<0.1	<0.05	7	<0.5
0403	Soil	47	32	0.73	39	0.007	<1	1.93	0.002	0.02	<0.1	0.02	1.9	<0.1	<0.05	5	<0.5
0404	Soil	40	21	0.22	128	0.009	<1	0.88	0.004	0.02	2.2	0.06	7.6	<0.1	<0.05	2	<0.5
0405	Soil	35	16	0.31	39	0.003	1	0.99	0.003	0.05	0.3	0.02	3.4	0.2	<0.05	2	<0.5
0406	Soil	20	18	0.22	87	0.008	2	0.68	0.003	0.04	0.4	0.06	4.2	<0.1	0.08	2	0.7
0407	Soil	53	20	0.52	41	0.002	<1	1.16	0.005	0.04	<0.1	0.01	2.6	0.1	<0.05	3	<0.5
R001-S	Soil	54	14	0.34	147	0.029	1	1.46	0.005	0.20	0.3	0.04	2.3	0.3	0.07	6	<0.5
R002-S	Soil	34	16	0.52	97	0.089	<1	1.13	0.008	0.22	0.2	<0.01	2.4	0.2	<0.05	5	<0.5

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Whitehorse YT Y1A 3R4 Canada

Project: RANCHERIA
Report Date: December 18, 2007

QUALITY CONTROL REPORT VAN07001899.1

	Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
0374	Soil	0.4	17.7	273.1	140	0.4	28.0	10.6	1053	3.17	22.2	0.8	23.8	3.6	294	0.6	1.3	0.6	31	7.86	0.061
REP 0374	QC	0.4	17.7	259.3	136	0.4	28.7	10.7	1053	3.16	21.5	0.9	3.5	3.4	274	0.5	1.3	0.5	32	7.19	0.059
0396	Soil	0.3	49.6	28.1	101	0.1	72.4	29.0	361	5.24	37.5	0.9	1.0	17.8	89	<0.1	0.5	0.6	11	0.80	0.058
REP 0396	QC	0.3	51.3	28.0	98	<0.1	71.7	30.3	367	5.27	37.2	0.9	1.3	18.1	90	<0.1	0.6	0.6	11	0.85	0.061
Reference Materials																					
STD DS7	Standard	19.9	117.9	65.2	391	0.8	57.3	9.6	710	2.59	46.6	4.4	58.3	4.1	69	6.0	5.2	4.1	93	0.99	0.070
STD DS7	Standard	21.4	114.3	71.5	401	0.8	59.3	9.7	629	2.35	48.1	5.2	70.9	4.9	78	5.8	6.1	4.6	89	0.97	0.072
STD DS7 Expected		20.92	109	70.6	411	0.89	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	5.86	4.51	86	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001

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Project: RANCHERIA
Report Date: December 18, 2007

QUALITY CONTROL REPORT

VAN07001899.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																	
0374	Soil	18	30	1.23	76	0.026	<1	1.33	0.006	0.06	0.1	0.02	3.1	0.1	0.07	4	<0.5
REP 0374	QC	20	30	1.23	79	0.029	2	1.35	0.007	0.07	0.1	0.02	3.0	0.2	0.06	4	<0.5
0396	Soil	40	23	0.78	32	0.005	<1	1.65	0.005	0.07	<0.1	0.01	2.5	<0.1	<0.05	5	0.5
REP 0396	QC	39	22	0.83	31	0.004	<1	1.72	0.006	0.06	<0.1	<0.01	2.6	<0.1	<0.05	5	<0.5
Reference Materials																	
STD DS7	Standard	12	211	1.07	423	0.134	34	1.09	0.100	0.54	3.6	0.18	2.9	4.3	0.23	5	2.8
STD DS7	Standard	14	209	1.02	366	0.137	36	1.01	0.092	0.45	3.7	0.19	2.7	4.1	0.19	5	3.1
STD DS7 Expected		12.7	163	1.05	370.3	0.124	38.6	0.959	0.073	0.44	3.8	0.2	2.5	4.19	0.21	4.6	3.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5

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Client: **Tanana Exploration Inc.**
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Submitted By: W. Carrell
Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.
Received: October 10, 2007
Report Date: November 29, 2007
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN07001900.1

CLIENT JOB INFORMATION

Project: RANCHERIA
Shipment ID:
P.O. Number
Number of Samples: 33

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	33	Crush, split and pulverize rock to 150 mesh		
1DX	33	1:1:1 Aqua Regia digestion ICP-MS analysis	30	Completed

ADDITIONAL COMMENTS

Invoice To: Tanana Exploration Inc.
27 Tutshi Road
Whitehorse YT Y1A 3R4
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
Raymond Chan

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.

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Project: RANCHERIA
Report Date: November 29, 2007

CERTIFICATE OF ANALYSIS VAN07001900.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
R01-R	Rock	4.0	42.1	6.6	70	0.2	12.4	3.1	343	3.49	3.6	4.1	2.7	11.1	13	<0.1	<0.1	0.4	167	0.32	0.167
R02-R	Rock	2.3	6.3	8.0	4957	0.2	3.2	3.6	2773	1.77	4.3	4.5	3.6	8.9	7	17.3	<0.1	<0.1	3	0.16	0.047
R03-R	Rock	1.4	2.1	2.8	137	<0.1	1.7	1.0	>10000	6.40	0.6	1.6	2.4	3.3	42	0.3	<0.1	<0.1	7	0.41	0.013
R04-R	Rock	0.5	11.3	5.0	95	<0.1	2.4	3.1	347	2.03	<0.5	5.0	2.8	11.5	15	0.2	<0.1	1.7	50	0.18	0.070
R05-R	Rock	14.1	298.8	1333	4230	9.3	2.7	6.9	>10000	4.44	19.7	4.6	643.7	1.9	10	17.7	1.0	3.2	5	0.03	0.005
R06-R	Rock	8.6	120.5	525.3	1038	9.6	2.0	7.6	7752	6.55	25.1	15.5	16.3	1.0	33	4.6	0.2	14.0	8	0.02	0.011
R07-R	Rock	0.9	103.9	951.5	1189	2.7	1.7	5.3	4954	3.45	2.5	7.8	6.5	5.8	90	8.8	0.2	0.7	4	4.51	0.032
R08-R	Rock	0.3	9.4	119.2	808	0.8	1.6	4.1	2191	1.99	0.6	2.9	2.3	5.9	155	3.3	0.7	0.3	4	4.20	0.064
R09-R	Rock	0.5	7.3	34.8	1128	1.1	1.4	3.2	587	1.72	<0.5	5.3	1.7	10.2	30	1.5	0.7	<0.1	4	2.13	0.059
R10-R	Rock	18.9	4.1	16.4	40	0.6	1.1	1.5	213	1.42	<0.5	2.4	1.8	9.5	22	0.1	<0.1	19.4	9	0.18	0.047
R11-R	Rock	0.3	2.4	6.6	60	<0.1	1.3	2.6	302	1.32	<0.5	4.9	0.8	17.1	10	0.2	<0.1	0.2	5	0.53	0.061
R12-R	Rock	0.2	4.2	7.9	50	<0.1	2.3	3.2	338	1.58	<0.5	2.2	1.5	16.8	14	0.2	0.1	0.3	13	0.16	0.052
R13-R	Rock	1.9	8.2	111.6	818	0.5	2.1	4.1	>10000	9.94	7.7	4.4	2.9	6.5	43	2.1	0.5	0.2	4	0.14	0.026
R14-R	Rock	4.8	294.3	>10000	>10000	57.3	3.4	8.7	>10000	4.18	34.6	0.5	8284	2.0	3	75.9	11.8	52.2	<2	0.04	0.004
R15-R	Rock	11.9	5.1	1908	138	4.0	1.4	0.9	320	0.79	7.2	0.5	6.8	1.3	4	0.3	0.7	3.0	3	0.01	0.004
R16-R	Rock	1.7	4.2	309.6	288	0.8	6.3	1.8	>10000	37.55	3.6	9.9	80.4	2.5	1110	0.7	0.3	1.1	2	1.70	0.006
R17-R	Rock	1.7	1.3	30.0	66	0.4	7.3	2.5	>10000	29.38	0.8	0.5	111.5	2.5	707	<0.1	<0.1	1.0	2	0.76	0.006
R18-R	Rock	3.3	1.0	32.2	127	1.0	3.9	1.2	>10000	27.16	55.7	2.2	134.8	2.1	574	0.5	3.0	0.8	20	5.47	0.076
R19-R	Rock	0.4	39.4	36.8	204	0.2	111.2	46.8	552	2.50	98.9	0.2	12.3	1.8	118	0.4	0.6	<0.1	48	1.53	0.161
R20-R	Rock	1.3	59.2	3131	4135	17.1	17.4	11.3	>10000	14.48	238.5	1.4	42.2	8.5	71	25.3	7.6	0.1	24	0.17	0.046
R21-R	Rock	1.7	196.1	5112	4521	15.6	26.4	14.8	6326	12.62	470.8	0.9	61.3	9.9	16	18.7	7.1	0.2	14	0.05	0.033
R22-R	Rock	1.7	3.4	62.9	387	8.3	5.9	1.5	>10000	27.26	189.6	2.5	13.3	1.4	308	1.7	5.5	<0.1	27	8.01	0.052
R23-R	Rock	1.0	149.9	225.4	219	1.0	138.0	41.9	281	5.07	77.8	0.7	3.0	12.5	13	0.8	10.3	1.6	7	0.24	0.157
R24-R	Rock	1.4	444.3	160.9	115	8.1	236.1	181.6	1239	7.61	241.4	0.5	10.9	1.6	7	0.8	15.4	1.3	4	0.06	0.046
R25-R	Rock	2.4	172.9	8.5	151	0.5	79.4	27.9	349	7.37	45.9	1.3	0.9	13.7	36	0.6	1.7	0.6	23	0.20	0.128
R26-R	Rock	1.7	65.7	1426	1521	11.4	57.0	14.0	585	11.72	1616	1.5	378.4	0.8	29	8.3	49.5	0.3	3	0.05	0.099
R27-R	Rock	8.0	5965	4.5	44	5.1	55.1	115.0	428	7.34	21.2	0.3	41.3	<0.1	22	0.1	0.3	4.8	90	0.69	0.152
R28-R	Rock	0.7	12.4	18.3	56	0.4	4.3	1.2	251	0.45	15.1	0.2	2.1	4.1	6	0.3	0.6	<0.1	2	0.03	0.015
R29-R	Rock	0.6	20.8	19.3	14	0.4	7.8	6.2	206	0.63	8.4	0.1	1.0	3.9	3	<0.1	0.3	0.2	3	0.02	0.012
R30-R	Rock	2.4	3.3	36.8	106	0.6	13.4	10.1	1036	2.26	18.5	1.9	0.7	21.8	7	0.5	0.4	<0.1	3	0.03	0.028

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Client: **Tanana Exploration Inc.**
27 Tutshi Road
Whitehorse YT Y1A 3R4 Canada

Project: RANCHERIA
Report Date: November 29, 2007

CERTIFICATE OF ANALYSIS VAN07001900.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
R01-R	Rock	18	70	0.89	78	0.158	2	1.59	0.028	0.77	0.1	0.02	5.8	0.5	0.08	9	1.9
R02-R	Rock	15	6	0.03	54	0.002	6	0.30	0.006	0.23	0.2	0.03	0.9	0.2	0.33	<1	0.9
R03-R	Rock	7	10	0.14	11	0.002	3	0.39	0.004	0.11	0.1	0.02	0.7	0.1	<0.05	2	<0.5
R04-R	Rock	17	12	0.54	114	0.188	<1	1.09	0.075	0.76	22.0	0.02	4.1	0.5	<0.05	7	<0.5
R05-R	Rock	6	9	0.07	43	<0.001	1	0.29	0.002	0.10	0.2	0.02	0.4	0.1	1.27	2	0.8
R06-R	Rock	4	10	0.02	185	0.002	1	0.16	0.005	0.07	0.5	0.02	0.6	<0.1	<0.05	1	0.7
R07-R	Rock	13	7	0.20	427	0.001	8	0.63	0.003	0.16	<0.1	0.02	0.9	<0.1	0.06	1	0.6
R08-R	Rock	10	5	0.39	34	<0.001	9	0.94	0.004	0.20	<0.1	0.02	1.4	0.1	<0.05	2	<0.5
R09-R	Rock	28	5	0.05	79	<0.001	13	0.36	0.019	0.23	<0.1	0.01	1.4	0.2	<0.05	<1	0.8
R10-R	Rock	16	7	0.16	91	0.018	3	0.52	0.033	0.26	0.3	0.02	0.6	0.2	0.12	2	0.8
R11-R	Rock	36	5	0.02	81	0.002	12	0.36	0.036	0.22	<0.1	0.02	1.2	0.1	<0.05	1	0.6
R12-R	Rock	29	6	0.16	122	0.018	2	0.61	0.038	0.21	0.7	0.02	1.4	0.2	<0.05	2	0.7
R13-R	Rock	13	6	0.12	97	0.001	3	0.32	0.004	0.19	<0.1	0.02	1.1	0.2	0.44	2	0.7
R14-R	Rock	3	11	0.09	15	<0.001	2	0.12	0.004	0.08	0.1	0.04	0.3	0.1	2.80	<1	2.3
R15-R	Rock	4	18	0.01	33	<0.001	<1	0.13	0.003	0.08	0.2	0.03	0.1	<0.1	0.18	<1	0.8
R16-R	Rock	<1	4	0.19	4	<0.001	<1	0.04	0.006	0.09	<0.1	0.02	1.1	<0.1	<0.05	2	1.0
R17-R	Rock	<1	2	0.13	3	<0.001	1	0.05	0.005	0.10	<0.1	0.02	1.4	<0.1	<0.05	2	0.8
R18-R	Rock	1	3	0.09	286	<0.001	<1	0.06	0.009	0.10	0.5	0.02	0.7	<0.1	<0.05	1	0.8
R19-R	Rock	7	146	0.93	26	0.177	<1	1.15	0.023	0.20	0.2	<0.01	3.5	<0.1	<0.05	3	0.6
R20-R	Rock	26	6	0.05	288	0.003	1	0.27	0.003	0.20	0.2	<0.01	3.4	0.2	<0.05	2	1.1
R21-R	Rock	20	13	0.03	40	0.002	1	0.51	0.002	0.23	0.1	<0.01	3.7	0.3	<0.05	2	1.2
R22-R	Rock	7	3	0.24	2937	<0.001	<1	0.20	0.003	0.04	0.7	<0.01	1.3	<0.1	<0.05	3	1.4
R23-R	Rock	30	17	0.07	58	0.003	3	0.51	0.004	0.32	0.1	<0.01	1.9	0.1	<0.05	1	<0.5
R24-R	Rock	6	18	0.02	60	<0.001	3	0.06	0.004	0.05	1.1	<0.01	1.0	<0.1	<0.05	<1	<0.5
R25-R	Rock	19	14	0.57	29	0.004	3	1.63	0.046	0.12	0.1	<0.01	3.1	0.1	0.05	5	0.6
R26-R	Rock	2	9	0.02	11	0.002	3	0.08	0.003	0.03	1.6	<0.01	2.1	<0.1	0.07	<1	<0.5
R27-R	Rock	2	144	2.70	29	0.118	1	2.16	0.027	0.08	25.0	0.07	2.0	<0.1	3.25	9	5.8
R28-R	Rock	27	11	<0.01	8	<0.001	3	0.06	0.004	0.05	0.1	<0.01	0.7	<0.1	<0.05	<1	<0.5
R29-R	Rock	6	17	0.02	6	<0.001	1	0.09	0.003	0.04	0.2	<0.01	0.4	<0.1	<0.05	<1	<0.5
R30-R	Rock	50	8	0.18	80	<0.001	4	0.66	0.002	0.20	<0.1	<0.01	0.9	0.1	<0.05	2	<0.5

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Client: **Tanana Exploration Inc.**
27 Tutshi Road
Whitehorse YT Y1A 3R4 Canada

Project: RANCHERIA
Report Date: November 29, 2007

CERTIFICATE OF ANALYSIS

VAN07001900.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
R31-R	Rock	0.5	141.2	81.4	81	1.3	231.2	154.6	675	5.95	197.8	0.7	14.6	1.9	8	0.3	6.6	1.6	12	0.11	0.088
R32-R	Rock	0.5	5.5	45.9	86	0.4	151.3	11.7	983	3.66	261.7	0.4	5.3	0.7	1073	0.4	4.9	<0.1	4	23.36	0.089
R33-I	Rock	0.5	228.1	6.5	50	0.6	13.3	13.1	400	3.12	4.8	0.2	19.7	0.5	48	0.1	0.7	<0.1	122	1.23	0.106

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27 Tutshi Road
Whitehorse YT Y1A 3R4 Canada

Project: RANCHERIA
Report Date: November 29, 2007

CERTIFICATE OF ANALYSIS VAN07001900.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
R31-R	Rock	7	18	0.03	21	<0.001	<1	0.14	0.001	0.07	0.1	<0.01	1.4	<0.1	0.81	<1	0.8
R32-R	Rock	6	13	2.81	9	<0.001	<1	0.04	0.003	0.02	0.1	<0.01	3.2	<0.1	<0.05	<1	<0.5
R33-I	Rock	2	26	0.90	177	0.136	1	1.94	0.162	0.43	0.2	<0.01	4.8	<0.1	<0.05	6	<0.5

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Client: **Tanana Exploration Inc.**
27 Tutshi Road
Whitehorse YT Y1A 3R4 Canada

Project: RANCHERIA
Report Date: November 29, 2007

QUALITY CONTROL REPORT VAN07001900.1

Method		1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Pulp Duplicates																					
R07-R	Rock	0.9	103.9	951.5	1189	2.7	1.7	5.3	4954	3.45	2.5	7.8	6.5	5.8	90	8.8	0.2	0.7	4	4.51	0.032
REP R07-R	QC	0.9	106.7	923.0	1194	3.0	2.0	5.4	4762	3.45	2.4	8.1	5.6	5.5	89	9.0	0.2	0.8	4	4.58	0.033
Reference Materials																					
STD DS7	Standard	20.4	101.3	64.6	410	1.2	52.8	9.2	638	2.41	49.7	4.9	61.4	4.4	71	6.4	5.7	4.2	81	0.95	0.077
STD DS7	Standard	20.5	104.9	64.0	399	1.4	52.8	9.5	602	2.36	49.3	4.6	76.4	4.3	70	6.5	6.0	4.2	80	0.96	0.072
STD DS7	Standard	19.7	111.8	63.2	384	1.1	54.0	9.5	621	2.33	45.6	4.6	64.7	4.5	75	5.6	5.7	4.4	84	0.98	0.070
STD DS7	Standard	20.7	108.2	67.6	385	1.1	53.2	9.5	637	2.39	47.0	4.9	65.1	4.5	77	6.2	5.9	4.5	87	0.99	0.075
STD DS7 Expected		20.92	109	70.6	411	0.89	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	5.86	4.51	86	0.93	0.08
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank	<0.1	1.0	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	0.6	4.1	2.8	47	<0.1	4.2	4.5	570	1.86	<0.5	2.0	2.5	4.2	61	<0.1	<0.1	<0.1	38	0.48	0.071
G1	Prep Blank	0.1	2.3	2.7	42	<0.1	3.9	4.1	541	1.79	0.6	2.5	12.1	4.0	59	<0.1	<0.1	<0.1	37	0.47	0.071

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CERTIFICATE OF ASSAY AK 2007-7200

Tanana Exploration
27 Tutshi Road
Whitehorse, YK
Y1A 4R4

21-Aug-07

No. of samples received: 13
Sample Type: Rock
Project: Rancheria
Submitted by: W. Carrell

ET #.	Tag #	Ag (g/t)	Ag (oz/t)	Pb (%)	Zn (%)
5	01/07/R-5	187	5.453	6.54	2.80
6	01/07/R-6	942	27.472	9.66	3.69
7	01/07/R-7				1.72
11	01/07/R-11				1.11
13	01/07/R-13				2.97
QC DATA:					
Repeats:					
5	01/07/R-5	189	5.512	6.62	2.78
Standard:					
Pb113		22.4	0.653	1.12	1.43

JJ/nl
XLS/06

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

21-Aug-07

ECO TECH LABORATORY LTD.
10041 Dallas Drive
KAMLOOPS, B.C.
V2C 6T4

Phone: 250-573-5700
Fax : 250-573-4557

ICP CERTIFICATE OF ANALYSIS AW 2007- 7200

Tanana Exploration
27 Tutshi Road
Whitehorse, YK
Y1A 4R4

No. of samples received: 13
Sample Type: Rock
Project: Rancheria
Submitted by: W. Carrell

Values in ppm unless otherwise reported

Et #	Tag #	Au ppb	Ag ppm	Al %	As ppm	Ba 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	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Sr ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
1	01/07/R-1	<5	<0.2	0.31	1.9	13.5	0.06	0.11	0.03	4.5	229.5	15.47	0.77	1.2	2	0.05	2.9	0.96	153	3.89	0.047	13.7	103.60	5.79	0.03	0.08	0.6	0.1	81.7	<0.02	1.0	0.010	0.04	0.2	3	0.1	11
2	01/07/R-2	5	<0.2	1.75	1.9	28.0	0.19	0.21	0.06	11.6	94.7	22.81	3.37	8.3	1	0.15	21.2	1.31	272	1.47	0.039	29.6	947.50	6.82	0.03	0.05	2.3	0.7	28.6	0.02	13.1	0.021	0.20	1.4	25	0.1	91
3	01/07/R-3	<5	<0.2	0.01	0.5	1.5	<0.02	0.00	0.01	0.5	205.1	4.92	0.21	0.1	1	0.01	<0.5	0.00	29	4.56	0.024	4.9	4.50	1.83	<0.02	0.04	<0.1	<0.1	1.7	0.00	0.1	<0.001	0.02	<0.1	<2	0.1	2
4	01/07/R-4	80	5.2	0.97	1550.0	11.7	7.21	13.28	2.99	39.7	45.7	107.90	5.59	5.5	3	0.04	19.3	0.84	>10000	1.37	0.023	33.9	397.20	3819.00	1.04	3.49	3.2	1.8	629.5	0.20	4.3	0.001	0.13	1.2	12	0.2	1147
5	01/07/R-5	100	>30	0.08	1114.0	4.9	1.10	0.15	67.51	2.6	157.7	345.00	7.20	2.4	207	0.06	0.7	0.01	>10000	3.39	0.026	6.5	118.40	>10000	0.62	130.30	1.7	0.2	41.9	0.27	0.9	<0.001	0.12	1.7	2	0.1	>100(
6	01/07/R-6	515	>30	0.04	64.2	4.0	0.54	0.09	106.50	1.6	23.6	1273.00	29.58	4.5	89	0.04	0.5	0.04	>10000	0.88	0.028	5.1	274.90	>10000	1.28	988.10	1.4	0.5	35.9	0.18	1.9	<0.001	0.12	0.6	<2	0.1	>100(
7	01/07/R-7	25	8.2	0.02	225.2	12.7	0.13	0.02	39.61	6.0	114.6	72.10	4.82	0.6	27	0.01	2.0	0.01	>10000	2.97	0.026	17.1	57.59	4635.00	<0.02	11.13	1.8	0.3	11.6	0.03	0.5	<0.001	0.07	1.2	<2	0.1	>100(
8	01/07/R-8	5	0.2	0.06	186.9	26.0	0.02	25.11	0.13	31.3	56.6	11.84	3.12	1.1	4	0.04	14.7	0.93	966	0.86	0.025	356.6	1558.00	29.42	<0.02	1.53	3.7	1.1	911.3	0.07	1.4	0.001	0.03	0.8	7	0.1	57
9	01/07/R-9	<5	2.5	0.01	19.2	1.4	0.50	1.99	1.13	7.5	167.9	8.44	0.56	0.1	3	<0.01	0.7	0.02	89	3.90	0.022	22.4	73.94	1470.00	<0.02	1.81	0.2	0.3	53.9	0.11	0.1	<0.001	0.02	0.1	<2	0.1	105
10	01/07/R-10	<5	0.3	<0.01	1.1	0.6	1.32	0.01	0.03	0.8	183.5	8.91	0.31	0.1	1	<0.01	<0.5	<0.01	24	4.16	0.020	5.9	5.63	29.52	<0.02	0.24	<0.1	<0.1	1.2	0.17	0.1	<0.001	0.01	0.1	<2	<0.1	11
11	01/07/R-11	10	4.3	0.16	31.9	42.0	0.21	2.10	34.81	7.5	133.4	27.86	8.44	1.4	23	0.10	2.3	0.03	>10000	4.26	0.032	23.2	167.80	2314.00	<0.02	3.13	2.8	0.7	141.2	0.04	7.4	<0.001	0.12	2.3	3	0.1	>100(
12	01/07/R-12	5	<0.2	0.09	9.4	12.0	0.03	19.75	0.18	2.2	9.0	1.76	1.74	0.5	3	0.07	3.9	8.80	846	0.31	0.035	11.4	146.80	8.58	<0.02	0.28	5.0	0.4	618.8	0.13	0.6	<0.001	0.04	0.1	4	<0.1	52
13	01/07/R-13	35	4.3	0.11	22.5	12.3	1.36	0.28	77.60	5.4	70.4	70.95	11.39	1.8	47	0.08	0.3	0.39	>10000	2.08	0.029	12.1	268.90	1794.00	0.95	3.48	2.2	0.2	25.7	0.09	4.8	<0.001	0.11	0.4	2	<0.1	>100(
QC DATA:																																					
Repeat:																																					
1	01/07/R-1	10	<0.2	0.31	1.8	12.8	0.05	0.11	0.04	4.2	218.5	15.72	0.77	1.2	2	0.04	2.7	0.09	150	3.66	0.045	13.1	96.55	6.39	0.03	0.09	0.6	0.1	77.8	<0.02	1.0	0.009	0.04	0.2	4	0.1	11
6	01/07/R-6	460																																			
Resplit:																																					
1	01/07/R-1	<5	<0.2	0.28	1.7	12.1	0.06	0.10	0.04	4.5	226.9	15.04	0.77	1.2	2	0.05	2.7	0.10	144	3.53	0.045	14.3	95.34	6.11	0.02	0.08	0.5	0.1	75.4	<0.02	1.0	0.009	0.04	0.2	3	0.1	10
Standard:																																					
Pb113			11.3	0.21	60.6	50.1	1.13	1.32	44.66	1.9	5.4	2379.00	0.88	1.2	69	0.13	2.5	0.11	1544	67.32	0.029	1.6	78.90	5476.00	0.64	11.65	0.4	0.4	75.7	0.42	0.3	0.006	0.08	0.3	6	0.1	7079
OXD57		415																																			

JJ/nl
df/MSR7200

ECO TECH LABORATORY LTD.
Jutta Jealouse
B.C. Certified Assayer

Certificate of Analysis

Work Order: 096197

To: **Tanana Explorations Inc.**
Attn: Wade Carrell
27 Tutshi Rd.
WHITEHORSE
YUKON Y1A 3R4

Date: Nov 14, 2007

P.O. No.	:	Project: Rancheria Region
Project No.	:	DEFAULT
No. Of Samples		61
Date Submitted		Oct 10, 2007
Report Comprises		Pages 1 to 11 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 61 Soils

Certified By :

Russ Calow, B.Sc., C.Chem.
Vice President Global Geochemistry

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0371-1	36	2	<10	0.2	240	<1	440	8	33	7
0371-2	71	2	<10	0.3	220	<1	490	6	26	<5
0371-3	150	2	<10	1.1	210	<1	390	3	29	<5
0371-4	177	2	<10	1.8	200	<1	390	3	26	<5
0372-1	213	7	<10	0.3	270	<1	590	13	<5	<5
0372-2	212	6	<10	0.4	220	<1	640	16	<5	<5
0372-3	457	10	<10	0.4	560	<1	630	7	<5	<5
0372-4	710	8	<10	0.7	580	<1	650	9	<5	<5
0373-1	146	13	<10	0.8	560	<1	780	7	<5	8
0373-2	154	10	<10	1.4	430	<1	550	6	<5	6
0373-3	148	11	<10	1.3	590	<1	730	6	<5	8
0374-1	189	12	<10	0.7	310	<1	710	36	<5	<5
0374-2	130	23	<10	0.6	270	<1	740	22	<5	<5
0374-3	197	14	<10	0.6	300	<1	750	20	<5	<5
0374-4	173	11	<10	0.9	400	<1	1000	17	<5	<5
0375-1	185	8	<10	0.6	140	<1	630	15	<5	6
0375-2	329	8	<10	1.7	370	<1	750	10	<5	<5
0375-3	239	7	<10	1.8	430	<1	760	12	<5	9
0375-4	191	6	<10	1.0	340	<1	660	10	<5	13
0376-1	97	>300	<10	0.1	970	<1	190	231	178	23
0376-2	128	>300	40	1.0	950	<1	170	307	1190	15
0376-3	530	217	10	4.0	980	<1	300	607	1630	<5
0376-4	429	238	30	3.1	990	<1	250	442	770	12
0377-1	110	179	80	0.3	1000	1	160	34	1270	49
0377-2	273	185	120	0.6	1410	2	120	32	2580	35
0377-3	90	212	70	0.8	1380	1	120	42	2590	13
0377-4	88	191	90	1.1	1200	1	120	54	2450	19
0378-1	40	6	<10	<0.1	430	<1	500	10	25	7
0378-2	45	6	<10	0.1	510	<1	450	6	15	<5
0378-3	55	9	<10	0.2	530	<1	430	5	10	<5
0378-4	67	6	<10	0.2	460	<1	400	7	11	<5
0379-1	42	4	<10	<0.1	270	<1	460	6	16	5
0379-2	82	8	<10	0.2	450	<1	610	4	7	<5
0379-3	76	9	<10	0.1	250	<1	530	8	<5	<5
0379-4	61	8	<10	0.2	330	<1	610	6	5	<5
0380-1	51	5	<10	<0.1	290	<1	540	3	9	<5
0380-2	55	6	<10	<0.1	360	<1	400	2	10	<5
0380-3	43	4	<10	0.1	260	<1	350	2	10	<5
0380-4	27	2	<10	<0.1	180	<1	280	1	9	<5
0381-1	65	4	<10	0.2	470	<1	510	4	10	<5
0381-2	89	6	<10	0.4	780	<1	480	4	10	<5
0381-3	75	5	<10	0.7	980	<1	390	3	11	<5
0381-4	92	5	<10	1.6	1340	<1	390	2	10	<5
0382-1	4	159	<10	<0.1	390	1	290	5	45	78
0382-2	10	130	20	<0.1	190	3	150	3	173	135
0382-3	14	125	10	<0.1	250	2	140	2	227	129
0382-4	8	88	<10	<0.1	240	2	130	1	242	94
0383-1	31	32	<10	<0.1	240	<1	710	14	20	10

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0383-2	44	26	<10	<0.1	270	<1	720	9	7	6
0383-3	71	24	<10	<0.1	280	<1	610	4	7	<5
0383-4	159	14	<10	0.3	230	<1	630	3	7	10
0384-1	9	292	<10	<0.1	240	1	10	6	18	92
0384-2	15	>300	<10	<0.1	280	1	<10	11	36	126
0384-3	16	>300	10	<0.1	290	1	<10	10	51	120
0384-4	14	>300	20	<0.1	440	2	10	9	107	191
0385-1	14	90	20	<0.1	370	<1	280	2	138	28
0385-2	31	50	<10	<0.1	50	<1	370	3	61	20
0386-1	8	77	<10	<0.1	260	<1	570	11	37	50
0386-2	6	58	20	<0.1	250	1	320	1	84	58
0386-3	7	56	40	<0.1	390	1	320	<1	131	41
0386-4	4	44	20	<0.1	220	<1	290	<1	125	41
*Dup 0371-1	34	2	<10	<0.1	150	<1	430	9	30	7
*Dup 0374-2	143	23	<10	0.5	210	<1	630	22	<5	<5
*Dup 0377-2	218	190	110	0.6	1250	2	130	36	2330	39
*Dup 0380-2	54	6	<10	<0.1	430	<1	410	2	23	<5
*Dup 0383-2	51	28	<10	<0.1	310	<1	710	8	11	9
*Dup 0386-4	5	44	20	<0.1	230	<1	310	<1	122	38
*Std MMISRM14	17	46	10	38.9	90	<1	270	8	19	46
*Std MMISRM14	16	45	10	39.0	80	<1	280	7	20	43
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0371-1	*<100*	*180*	*7*	*3.4*	*1.8*	*6*	*10*	*8*	*<5*	*3*
0371-2	<100	180	8	3.8	2.3	6	12	9	<5	3
0371-3	<100	180	10	4.3	3.5	5	18	17	<5	3
0371-4	<100	170	11	4.9	3.8	5	20	17	<5	3
0372-1	<100	200	4	2.2	<0.5	5	3	<1	<5	12
0372-2	<100	180	4	2.4	0.5	7	3	<1	<5	11
0372-3	<100	320	4	2.2	<0.5	5	4	<1	<5	12
0372-4	<100	340	5	2.4	1.0	5	6	<1	<5	10
0373-1	<100	650	4	2.2	0.7	4	5	<1	<5	15
0373-2	<100	670	4	2.4	<0.5	3	3	<1	<5	13
0373-3	<100	730	5	2.6	0.7	4	5	<1	<5	15
0374-1	<100	280	7	4.2	0.5	5	5	<1	<5	26
0374-2	<100	170	6	3.9	0.6	5	5	<1	<5	27
0374-3	<100	220	6	3.6	0.6	6	5	<1	<5	25
0374-4	<100	200	7	3.9	0.9	6	7	<1	<5	30
0375-1	<100	190	5	3.1	0.5	5	4	<1	<5	25
0375-2	<100	240	3	2.0	<0.5	4	2	<1	<5	26
0375-3	<100	280	3	2.2	<0.5	4	3	<1	<5	27
0375-4	<100	260	3	2.1	<0.5	4	3	<1	<5	29
0376-1	<100	140	68	36.8	10.7	56	49	34	<5	16
0376-2	<100	170	172	89.1	36.6	72	161	235	<5	13
0376-3	<100	320	331	182	79.5	23	337	861	<5	22
0376-4	<100	380	245	146	55.9	58	232	401	<5	17
0377-1	<100	150	89	37.1	23.7	75	102	373	8	26
0377-2	<100	200	249	119	66.8	105	287	937	<5	22
0377-3	<100	180	278	139	73.7	60	315	1030	<5	19
0377-4	<100	240	251	123	70.9	73	301	965	<5	19
0378-1	<100	170	7	3.1	1.6	4	9	11	<5	8
0378-2	<100	110	6	2.7	1.7	4	9	11	<5	7
0378-3	<100	190	5	2.1	1.5	4	7	9	<5	7
0378-4	<100	130	5	2.2	1.4	4	7	7	<5	7
0379-1	<100	130	6	2.5	1.6	5	9	10	<5	3
0379-2	<100	180	5	2.2	1.3	4	8	6	<5	5
0379-3	<100	260	5	2.8	0.8	4	6	<1	<5	6
0379-4	<100	150	5	2.3	1.2	4	7	4	<5	6
0380-1	<100	80	3	1.3	0.9	4	5	5	<5	4
0380-2	<100	50	3	1.4	1.1	4	6	7	<5	3
0380-3	<100	50	3	1.3	1.0	3	5	6	<5	3
0380-4	<100	30	3	1.1	0.9	2	5	6	<5	2
0381-1	<100	90	6	2.6	1.8	4	10	10	<5	7
0381-2	<100	100	6	2.4	1.9	3	10	11	<5	6
0381-3	<100	80	5	2.0	1.6	3	9	10	<5	6
0381-4	<100	80	4	1.8	1.5	3	8	10	<5	8
0382-1	<100	30	12	8.9	2.0	97	10	19	7	5
0382-2	<100	90	28	16.1	5.6	182	24	57	7	1
0382-3	<100	90	30	15.1	6.6	102	28	76	7	1
0382-4	<100	100	33	17.7	7.9	70	32	85	6	1
0383-1	<100	110	30	21.7	5.2	13	22	10	<5	7

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0383-2	<100	200	12	8.2	2.5	11	10	5	<5	5
0383-3	<100	200	18	11.9	3.7	10	16	7	<5	3
0383-4	<100	350	30	20.7	5.7	8	24	9	<5	2
0384-1	<100	80	5	4.1	0.5	243	3	9	13	2
0384-2	<100	120	14	10.9	1.6	155	8	17	9	2
0384-3	<100	140	18	12.6	2.2	154	12	21	8	1
0384-4	<100	160	18	11.1	3.4	240	16	41	20	2
0385-1	<100	110	58	31.5	14.3	45	63	85	5	4
0385-2	<100	180	61	46.6	11.9	31	49	40	<5	5
0386-1	<100	70	20	16.1	2.8	22	15	15	8	16
0386-2	<100	90	25	16.8	4.3	105	21	32	6	3
0386-3	<100	90	48	32.0	7.8	72	36	47	<5	2
0386-4	<100	100	52	33.8	8.3	70	40	53	<5	2
*Dup 0371-1	<100	180	6	3.1	1.7	6	9	8	<5	3
*Dup 0374-2	<100	170	6	3.8	0.7	5	5	<1	<5	28
*Dup 0377-2	<100	200	217	105	59.3	108	250	718	<5	23
*Dup 0380-2	<100	50	4	1.6	1.2	4	6	11	<5	3
*Dup 0383-2	<100	210	13	8.7	2.5	12	11	7	<5	5
*Dup 0386-4	<100	100	51	33.9	8.1	64	38	54	<5	2
*Std MMISRM14	<100	680	2	0.6	0.9	3	4	5	<5	38
*Std MMISRM14	<100	690	2	0.7	0.8	3	4	5	<5	40
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0371-1	<5	0.5	25	127	80	<1	4	<1	14	<1
0371-2	<5	<0.5	29	168	60	<1	4	<1	16	<1
0371-3	<5	<0.5	61	110	80	<1	9	<1	15	<1
0371-4	<5	<0.5	61	87	60	<1	10	<1	15	<1
0372-1	<5	<0.5	1	525	150	<1	<1	<1	16	<1
0372-2	<5	<0.5	2	464	210	<1	<1	<1	35	<1
0372-3	<5	<0.5	1	261	210	<1	<1	<1	9	<1
0372-4	<5	<0.5	6	255	400	<1	<1	<1	12	<1
0373-1	<5	<0.5	2	350	160	<1	<1	<1	6	<1
0373-2	<5	<0.5	<1	291	220	<1	<1	<1	<5	<1
0373-3	<5	<0.5	1	401	250	<1	<1	<1	<5	<1
0374-1	<5	<0.5	<1	311	810	<1	<1	<1	16	<1
0374-2	<5	<0.5	1	284	630	<1	<1	<1	15	<1
0374-3	<5	<0.5	1	244	640	<1	<1	<1	18	<1
0374-4	<5	<0.5	2	218	790	<1	<1	<1	12	<1
0375-1	<5	<0.5	<1	304	360	<1	<1	<1	9	<1
0375-2	<5	<0.5	<1	136	1120	<1	<1	<1	7	<1
0375-3	<5	<0.5	<1	128	600	<1	<1	<1	13	<1
0375-4	<5	<0.5	<1	188	450	<1	<1	<1	15	<1
0376-1	<5	<0.5	112	221	14600	<1	21	<1	65	<1
0376-2	<5	1.3	403	502	18700	<1	83	<1	142	2
0376-3	<5	<0.5	970	1440	6720	<1	225	<1	142	<1
0376-4	<5	0.9	608	1410	8900	<1	134	<1	140	1
0377-1	<5	6.3	376	158	16500	<1	94	<1	220	2
0377-2	<5	6.7	1030	277	26800	<1	250	<1	200	3
0377-3	<5	3.7	1170	394	19300	<1	276	<1	186	2
0377-4	<5	3.5	1130	385	28200	<1	263	<1	214	3
0378-1	<5	<0.5	18	172	170	<1	3	<1	17	<1
0378-2	<5	<0.5	23	92	150	<1	4	<1	12	<1
0378-3	<5	<0.5	19	77	270	<1	3	<1	14	<1
0378-4	<5	<0.5	19	79	510	<1	3	<1	13	<1
0379-1	<5	<0.5	25	122	130	<1	4	<1	8	<1
0379-2	<5	<0.5	17	152	140	<1	3	<1	6	<1
0379-3	<5	<0.5	5	255	90	<1	<1	<1	5	<1
0379-4	<5	<0.5	14	185	90	<1	2	<1	7	<1
0380-1	<5	<0.5	14	106	30	<1	2	<1	5	<1
0380-2	<5	<0.5	18	67	50	<1	3	<1	11	<1
0380-3	<5	<0.5	15	57	40	<1	3	<1	7	<1
0380-4	<5	<0.5	18	37	30	<1	3	<1	<5	<1
0381-1	<5	<0.5	27	100	80	<1	5	<1	7	<1
0381-2	<5	<0.5	31	90	460	<1	5	<1	10	<1
0381-3	<5	<0.5	28	59	170	<1	5	<1	11	<1
0381-4	<5	<0.5	26	55	170	<1	4	<1	12	<1
0382-1	<5	0.9	27	149	3760	<1	6	<1	42	<1
0382-2	<5	0.7	82	171	970	<1	19	<1	133	<1
0382-3	<5	<0.5	101	154	760	<1	24	<1	103	<1
0382-4	<5	0.6	115	123	370	<1	27	<1	106	<1
0383-1	<5	<0.5	27	561	360	<1	4	<1	28	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0383-2	*<5*	*<0.5*	*14*	*414*	*840*	*<1*	*2*	*<1*	*33*	*<1*
0383-3	<5	<0.5	21	247	410	<1	3	<1	34	<1
0383-4	<5	<0.5	26	223	150	<1	4	<1	37	<1
0384-1	*<5*	*2.4*	*8*	*136*	*1210*	*<1*	*2*	*<1*	*89*	*<1*
0384-2	<5	2.1	19	183	3190	<1	4	<1	77	<1
0384-3	<5	2.4	28	170	3400	<1	6	<1	84	<1
0384-4	<5	2.9	49	208	2930	<1	12	<1	121	1
0385-1	<5	0.5	176	70	1300	<1	36	<1	89	<1
0385-2	<5	<0.5	89	110	110	<1	16	<1	64	<1
0386-1	<5	<0.5	29	192	1000	<1	6	<1	49	<1
0386-2	<5	1.1	55	167	670	<1	11	<1	118	<1
0386-3	<5	0.9	88	158	560	<1	18	<1	97	<1
0386-4	<5	<0.5	94	151	260	<1	19	<1	96	<1
*Dup 0371-1	<5	<0.5	24	122	100	<1	4	<1	14	<1
*Dup 0374-2	<5	<0.5	2	274	610	<1	<1	<1	16	<1
*Dup 0377-2	<5	7.0	906	246	25500	<1	219	<1	207	3
*Dup 0380-2	<5	<0.5	22	70	60	<1	4	<1	10	<1
*Dup 0383-2	<5	<0.5	14	394	1190	<1	2	<1	34	<1
*Dup 0386-4	<5	<0.5	92	148	260	<1	19	<1	93	<1
*Std MMISRM14	36	<0.5	16	269	110	44	3	<1	256	<1
*Std MMISRM14	36	<0.5	15	264	100	42	3	<1	257	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0371-1	*<5*	*9*	*<1*	*1200*	*<1*	*1*	*<10*	*5.4*	*14*	*<0.5*
0371-2	<5	10	<1	1390	<1	2	<10	4.3	9	<0.5
0371-3	5	18	<1	1290	<1	2	<10	6.1	7	<0.5
0371-4	*5*	*18*	*<1*	*1320*	*<1*	*2*	*<10*	*6.1*	*<3*	*<0.5*
0372-1	<5	<1	<1	2700	<1	<1	<10	1.0	<3	<0.5
0372-2	<5	2	<1	2450	<1	<1	<10	1.4	<3	<0.5
0372-3	*<5*	*1*	*<1*	*3140*	*<1*	*<1*	*<10*	*1.1*	*<3*	*<0.5*
0372-4	<5	3	<1	2910	<1	<1	<10	1.7	<3	<0.5
0373-1	<5	2	<1	4260	<1	<1	<10	0.8	<3	<0.5
0373-2	*<5*	*<1*	*<1*	*3540*	*<1*	*<1*	*<10*	*0.6*	*<3*	*<0.5*
0373-3	<5	2	<1	4200	<1	<1	<10	0.7	<3	<0.5
0374-1	<5	1	<1	3280	<1	<1	<10	1.2	<3	<0.5
0374-2	<5	2	<1	3310	<1	<1	<10	1.6	<3	<0.5
0374-3	<5	2	<1	3140	<1	<1	<10	1.4	<3	<0.5
0374-4	<5	2	<1	3660	<1	1	<10	2.0	<3	<0.5
0375-1	<5	1	<1	2440	<1	<1	<10	1.5	<3	<0.5
0375-2	<5	<1	<1	3180	<1	<1	<10	0.6	<3	<0.5
0375-3	5	<1	<1	3360	<1	<1	<10	0.8	<3	<0.5
0375-4	<5	<1	<1	3110	<1	<1	<10	0.7	<3	<0.5
0376-1	70	34	<1	710	<1	10	<10	96.8	75	<0.5
0376-2	198	114	1	550	<1	27	<10	205	343	<0.5
0376-3	294	248	<1	1200	<1	54	<10	181	51	<0.5
0376-4	238	168	<1	760	<1	39	<10	186	259	<0.5
0377-1	87	83	1	360	<1	17	<10	136	1670	<0.5
0377-2	239	237	2	360	<1	45	<10	152	1720	0.5
0377-3	300	265	<1	380	<1	49	<10	135	974	0.6
0377-4	324	254	1	370	<1	46	<10	148	900	0.6
0378-1	<5	6	<1	1490	<1	1	<10	3.0	10	<0.5
0378-2	<5	7	<1	1490	<1	1	<10	2.7	7	<0.5
0378-3	<5	5	<1	1530	<1	<1	<10	2.4	5	<0.5
0378-4	<5	6	<1	1460	<1	<1	<10	2.6	6	<0.5
0379-1	<5	7	<1	1590	<1	1	<10	4.0	10	<0.5
0379-2	<5	6	<1	3340	<1	<1	<10	2.3	<3	<0.5
0379-3	<5	3	<1	2940	<1	<1	<10	1.7	<3	<0.5
0379-4	<5	5	<1	2930	<1	<1	<10	2.7	<3	<0.5
0380-1	<5	4	<1	3290	<1	<1	<10	1.8	4	<0.5
0380-2	<5	5	<1	2760	<1	<1	<10	2.4	5	<0.5
0380-3	<5	4	<1	2430	<1	<1	<10	2.1	<3	<0.5
0380-4	<5	5	<1	1910	<1	<1	<10	1.9	<3	<0.5
0381-1	5	8	<1	2860	<1	1	<10	2.7	8	<0.5
0381-2	<5	9	<1	2850	<1	1	<10	2.9	<3	<0.5
0381-3	<5	8	<1	2540	<1	<1	<10	2.9	5	<0.5
0381-4	<5	7	<1	2620	<1	<1	<10	3.2	<3	<0.5
0382-1	8	7	<1	2430	<1	2	<10	46.4	248	<0.5
0382-2	18	21	<1	580	<1	4	<10	163	180	<0.5
0382-3	17	24	<1	720	<1	5	<10	142	136	<0.5
0382-4	17	28	<1	770	<1	6	<10	136	71	<0.5
0383-1	<5	12	<1	5380	<1	4	<10	9.9	<3	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0383-2	<5	6	<1	5920	<1	2	<10	7.7	<3	<0.5
0383-3	<5	9	<1	5080	<1	3	<10	14.8	<3	<0.5
0383-4	7	12	<1	5700	<1	4	<10	29.1	<3	<0.5
0384-1	12	2	<1	160	<1	<1	<10	66.3	528	<0.5
0384-2	12	5	<1	60	<1	2	<10	72.9	468	<0.5
0384-3	14	8	<1	30	<1	2	<10	78.8	498	<0.5
0384-4	22	12	<1	70	<1	3	<10	149	669	<0.5
0385-1	11	47	<1	1840	<1	10	<10	69.2	162	<0.5
0385-2	16	30	<1	2090	<1	9	<10	67.5	15	<0.5
0386-1	6	9	<1	3980	<1	3	<10	20.1	39	<0.5
0386-2	8	15	<1	2090	<1	4	<10	96.8	277	<0.5
0386-3	12	26	<1	2330	<1	7	<10	93.6	228	<0.5
0386-4	11	27	<1	2000	<1	7	<10	125	106	<0.5
*Dup 0371-1	<5	7	<1	1260	<1	1	<10	5.3	21	<0.5
*Dup 0374-2	<5	2	<1	2910	<1	<1	<10	1.6	<3	<0.5
*Dup 0377-2	230	210	2	390	<1	40	<10	156	1910	0.5
*Dup 0380-2	<5	6	<1	2710	<1	<1	<10	3.2	6	<0.5
*Dup 0383-2	<5	6	<1	5810	<1	2	<10	7.7	<3	<0.5
*Dup 0386-4	13	27	<1	2150	<1	7	<10	115	102	<0.5
*Std MMISRM14	6	4	<1	530	<1	<1	<10	19.8	<3	<0.5
*Std MMISRM14	8	4	<1	550	<1	<1	<10	19.1	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0371-1	2	2	42	3	170	<5
0371-2	2	1	48	3	60	5
0371-3	2	1	57	3	30	9
0371-4	2	1	68	4	30	11
0372-1	1	<1	28	2	180	<5
0372-2	2	<1	31	2	250	<5
0372-3	1	<1	30	2	80	<5
0372-4	1	<1	37	2	160	<5
0373-1	<1	<1	29	1	30	<5
0373-2	<1	<1	26	1	20	<5
0373-3	<1	<1	31	1	30	<5
0374-1	8	<1	48	3	230	<5
0374-2	8	<1	42	3	60	<5
0374-3	8	<1	42	3	90	<5
0374-4	6	<1	53	3	110	<5
0375-1	2	<1	36	3	100	<5
0375-2	<1	<1	24	2	60	<5
0375-3	<1	<1	27	2	70	<5
0375-4	1	<1	24	2	90	<5
0376-1	15	<1	385	27	4440	21
0376-2	35	2	1140	63	7370	78
0376-3	40	2	2540	134	16200	67
0376-4	40	2	1870	114	15500	80
0377-1	15	2	430	24	740	83
0377-2	21	3	1450	86	790	84
0377-3	20	2	1690	104	930	55
0377-4	22	2	1490	90	1130	64
0378-1	1	<1	44	2	90	<5
0378-2	<1	<1	42	2	40	<5
0378-3	1	<1	32	1	60	5
0378-4	<1	<1	35	1	180	5
0379-1	<1	<1	38	2	50	<5
0379-2	3	<1	35	1	30	<5
0379-3	4	<1	36	2	40	<5
0379-4	3	<1	33	2	40	<5
0380-1	<1	<1	22	<1	30	<5
0380-2	<1	<1	21	<1	30	<5
0380-3	<1	<1	19	<1	20	<5
0380-4	<1	<1	18	<1	20	<5
0381-1	<1	<1	40	2	40	<5
0381-2	1	<1	38	2	30	<5
0381-3	1	<1	33	1	30	<5
0381-4	1	<1	29	1	30	<5
0382-1	6	<1	91	8	60	18
0382-2	12	<1	140	13	110	51
0382-3	11	<1	127	12	70	56
0382-4	11	1	142	15	50	62
0383-1	12	<1	249	17	40	<5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0383-2	10	<1	98	6	30	<5
0383-3	12	<1	140	9	30	6
0383-4	15	<1	274	17	40	9
0384-1	8	<1	29	4	90	38
0384-2	8	<1	96	10	130	42
0384-3	8	<1	122	10	120	52
0384-4	13	<1	116	10	230	94
0385-1	18	<1	264	23	80	25
0385-2	17	<1	456	41	50	21
0386-1	46	<1	168	13	60	8
0386-2	38	<1	145	14	70	22
0386-3	49	<1	264	27	80	25
0386-4	50	<1	296	28	60	24
*Dup 0371-1	2	<1	39	2	170	5
*Dup 0374-2	8	<1	41	3	70	<5
*Dup 0377-2	21	2	1290	74	780	93
*Dup 0380-2	<1	<1	23	1	30	<5
*Dup 0383-2	10	<1	98	7	50	<5
*Dup 0386-4	50	<1	298	28	60	23
*Std MMISRM14	31	<1	10	<1	320	13
*Std MMISRM14	31	<1	10	<1	320	13
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

Certificate of Analysis

Work Order: 096198

To: **Tanana Explorations Inc.**
Attn: Wade Carrell
27 Tutshi Rd.
WHITEHORSE
YUKON Y1A 3R4

Date: Nov 14, 2007

P.O. No.	:	Project: Rancheria Region
Project No.	:	DEFAULT
No. Of Samples		74
Date Submitted		Oct 10, 2007
Report Comprises		Pages 1 to 11 (Inclusive of Cover Sheet)

Distribution of unused material:

Discard after 90 days: 74 Soils

Certified By :

Russ Calow, B.Sc., C.Chem.
Vice President Global Geochemistry

ISO 17025 Accredited for Specific Tests. SCC No. 456

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0387-1	*4*	*248*	*70*	*<0.1*	*1490*	*7*	*60*	*5*	*259*	*443*
0387-2	6	167	80	<0.1	660	5	160	3	744	299
0387-3	3	136	60	0.1	680	3	280	2	592	125
0387-4	6	98	40	0.2	450	2	360	3	382	73
0388-1	19	15	<10	0.1	300	<1	530	4	34	29
0388-2	25	19	<10	<0.1	280	<1	500	3	37	27
0388-3	*23*	*18*	*<10*	*<0.1*	*260*	*<1*	*490*	*3*	*27*	*21*
0388-4	64	17	<10	<0.1	220	<1	440	2	22	14
0389-1	237	8	<10	0.2	80	<1	510	4	8	36
0389-2	31	7	<10	<0.1	60	<1	380	1	9	71
0389-3	24	8	<10	<0.1	50	<1	340	<1	8	91
0389-4	26	9	<10	<0.1	40	<1	310	<1	7	86
0390-1	28	18	10	0.1	320	<1	610	10	37	56
0390-2	29	19	20	0.2	200	<1	570	14	55	95
0391-1	24	158	<10	<0.1	170	<1	230	3	219	94
0391-2	20	94	<10	<0.1	50	2	120	2	274	88
0391-3	52	47	10	0.2	30	2	180	2	71	77
0392-1	27	17	<10	0.2	660	<1	590	4	13	12
0392-2	28	15	<10	0.3	890	<1	650	2	9	7
0392-3	29	14	<10	0.3	820	<1	640	2	10	6
0392-4	22	14	<10	0.2	670	<1	630	2	11	6
0393-1	20	38	10	0.1	440	<1	500	3	135	13
0393-2	46	14	<10	0.2	200	<1	650	2	42	10
0393-3	25	8	<10	0.2	210	<1	590	1	6	22
0394-1	7	>300	<10	<0.1	210	<1	10	8	80	87
0394-2	24	200	20	0.1	620	<1	110	6	533	66
0394-3	27	104	<10	0.2	360	<1	610	4	163	16
0395-1	4	128	<10	<0.1	270	2	220	1	133	69
0395-2	12	234	20	<0.1	110	4	80	1	464	104
0395-3	6	150	20	0.1	270	6	100	2	466	53
0396-1	6	299	<10	<0.1	300	1	320	9	87	90
0396-2	7	277	100	<0.1	440	7	90	8	1180	156
0396-3	23	13	10	0.2	170	<1	470	2	20	40
0396-4	21	14	<10	0.3	180	<1	540	2	14	37
0397-1	1070	173	10	1.1	3990	<1	880	46	3330	13
0397-2	1950	36	10	1.8	1400	<1	620	241	346	7
0397-3	1840	31	10	1.9	890	<1	480	267	218	7
0397-4	1560	29	<10	1.3	1690	<1	850	47	294	7
0398-1	4	>300	<10	<0.1	3310	<1	120	65	20	44
0398-2	14	>300	<10	<0.1	5020	<1	240	72	84	82
0398-3	16	>300	<10	<0.1	2690	<1	180	73	1350	53
0398-4	18	>300	<10	<0.1	2200	<1	210	49	604	41
0399-1	125	9	<10	0.5	330	<1	640	10	5	11
0399-2	113	16	<10	0.5	250	<1	540	4	14	15
0399-3	117	13	<10	0.5	220	<1	560	4	5	8
0399-4	162	10	<10	0.6	170	<1	600	5	<5	<5
0400-1	57	6	<10	0.4	180	<1	480	4	<5	13
0400-2	74	6	<10	0.4	240	<1	600	8	<5	33

Element	Ag	Al	As	Au	Ba	Bi	Ca	Cd	Ce	Co
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	10	0.1	10	1	10	1	5	5
Units	PPB	PPM	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB
0401-1	72	10	<10	0.3	850	<1	550	5	<5	9
0401-2	77	10	<10	0.3	830	<1	490	7	<5	<5
0401-3	79	15	<10	0.6	1100	<1	600	9	<5	8
0401-4	*100*	*15*	*<10*	*0.5*	*590*	*<1*	*460*	*5*	*<5*	*5*
0402-1	7	>300	30	<0.1	500	1	10	3	116	58
0402-2	3	>300	30	<0.1	730	2	<10	7	1110	102
0402-3	2	>300	<10	<0.1	320	3	<10	8	2270	191
0402-4	2	249	20	<0.1	450	4	10	6	1920	203
0403-1	<1	>300	<10	<0.1	380	<1	30	6	15	119
0403-2	9	>300	30	<0.1	350	5	50	12	714	164
0403-3	8	256	30	<0.1	380	5	150	10	913	141
0404-1	3	251	60	<0.1	720	<1	70	72	17	177
0404-2	8	199	310	<0.1	320	<1	60	45	97	137
0404-3	22	172	500	0.2	300	<1	220	66	230	99
0404-4	44	77	70	0.8	300	<1	540	55	117	35
0405-1	185	8	<10	0.9	170	<1	720	15	28	7
0405-2	357	5	20	7.1	150	<1	680	18	<5	7
0405-3	257	6	20	8.8	190	<1	670	11	<5	6
0405-4	271	7	20	8.3	160	<1	630	9	<5	<5
0406-1	1920	6	50	41.7	270	<1	570	434	12	19
0406-2	2260	4	40	32.8	270	<1	480	357	11	7
0406-3	1170	7	30	20.0	320	<1	590	204	16	12
0406-4	725	9	20	13.9	300	<1	680	140	12	<5
0407-1	62	28	<10	0.3	220	<1	710	16	32	<5
0407-2	105	6	<10	0.6	280	<1	700	5	<5	7
0407-3	83	6	<10	0.8	300	<1	590	5	<5	12
*Dup 0387-1	3	207	60	<0.1	920	6	60	5	204	388
*Dup 0390-1	24	14	10	0.1	270	<1	450	8	31	44
*Dup 0394-1	7	294	<10	<0.1	190	<1	20	8	72	87
*Dup 0397-3	1790	30	<10	1.8	700	<1	390	198	201	6
*Dup 0401-1	74	11	<10	0.3	1170	<1	710	5	<5	8
*Dup 0404-2	9	193	230	<0.1	430	1	70	48	107	145
*Dup 0407-2	102	6	<10	0.8	280	<1	680	5	<5	8
*Std MMISRM14	20	60	20	47.5	80	<1	310	9	16	54
*Std MMISRM14	19	48	10	45.2	80	<1	320	8	14	44
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5
*Blk BLANK	<1	<1	<10	<0.1	<10	<1	<10	<1	<5	<5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0387-1	*<100*	*150*	*30*	*21.9*	*6.2*	*379*	*26*	*95*	*38*	*5*
0387-2	<100	250	112	77.4	24.8	232	97	246	28	6
0387-3	<100	270	299	226	57.8	194	237	463	21	8
0387-4	<100	280	594	506	91.9	150	413	584	12	7
0388-1	<100	300	30	22.8	6.2	27	27	30	14	12
0388-2	<100	350	47	37.1	9.8	32	42	48	15	12
0388-3	<100	380	40	30.4	8.0	28	36	36	13	12
0388-4	<100	300	32	24.2	6.5	28	28	28	12	11
0389-1	<100	300	8	6.6	1.2	8	6	4	13	11
0389-2	<100	300	4	2.9	0.8	8	3	3	11	7
0389-3	<100	390	5	3.5	0.8	10	4	3	10	5
0389-4	<100	310	5	4.9	0.8	10	5	3	10	5
0390-1	<100	510	15	11.4	3.4	38	15	17	11	6
0390-2	<100	710	18	15.5	3.6	45	17	21	16	5
0391-1	<100	90	124	79.1	21.0	39	96	98	<5	4
0391-2	<100	220	211	180	39.9	67	184	422	<5	2
0391-3	<100	310	229	241	37.0	59	183	205	<5	4
0392-1	<100	190	19	12.6	4.5	8	20	15	<5	9
0392-2	<100	250	17	10.4	3.3	5	17	9	<5	7
0392-3	<100	400	17	11.8	3.4	6	17	9	<5	8
0392-4	<100	420	9	6.8	1.8	5	9	4	<5	9
0393-1	<100	140	303	227	49.3	38	247	300	<5	16
0393-2	<100	220	93	68.2	14.4	14	76	49	<5	10
0393-3	<100	330	13	8.9	2.0	8	10	4	6	4
0394-1	<100	50	59	39.8	6.4	62	29	28	6	<1
0394-2	<100	160	288	211	48.0	77	211	518	19	2
0394-3	<100	150	148	115	21.7	32	102	121	<5	12
0395-1	<100	50	41	25.8	9.6	125	35	54	7	6
0395-2	<100	300	159	111	48.9	204	141	158	<5	1
0395-3	<100	310	337	254	102	128	290	444	<5	2
0396-1	<100	170	68	53.9	7.6	125	36	34	8	7
0396-2	<100	280	183	125	35.3	389	152	407	77	2
0396-3	<100	220	14	11.4	2.3	17	11	11	<5	3
0396-4	<100	240	8	7.0	1.4	12	6	6	8	4
0397-1	<100	220	415	232	160	18	604	1810	<5	91
0397-2	<100	240	77	37.8	32.9	9	116	153	9	69
0397-3	<100	370	88	42.1	36.8	8	130	137	6	52
0397-4	<100	130	39	19.7	18.0	7	62	77	16	99
0398-1	<100	10	10	10.2	<0.5	46	3	14	7	43
0398-2	<100	30	116	61.5	8.1	10	50	45	5	59
0398-3	<100	50	168	73.3	34.6	11	175	643	<5	42
0398-4	<100	60	99	44.6	21.1	17	104	369	<5	40
0399-1	<100	320	7	4.1	1.3	5	7	1	<5	6
0399-2	<100	330	13	7.4	2.2	5	12	3	<5	4
0399-3	<100	320	8	4.5	1.3	5	7	1	<5	3
0399-4	<100	290	7	4.2	1.4	4	8	<1	<5	3
0400-1	<100	270	6	4.1	<0.5	5	4	<1	<5	3
0400-2	<100	340	8	4.7	0.8	5	6	<1	<5	5

Element	Cr	Cu	Dy	Er	Eu	Fe	Gd	La	Li	Mg
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	100	10	1	0.5	0.5	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPM	PPB	PPB	PPB	PPM
0401-1	*<100*	*360*	*6*	*3.7*	*0.6*	*4*	*4*	*<1*	*7*	*11*
0401-2	<100	430	4	2.6	<0.5	3	2	<1	9	14
0401-3	<100	560	8	4.6	0.7	4	5	<1	11	17
0401-4	*<100*	*640*	*8*	*5.0*	*0.8*	*3*	*6*	*<1*	*<5*	*15*
0402-1	<100	130	18	9.7	2.9	208	13	31	16	1
0402-2	<100	200	80	37.3	20.5	128	86	209	17	1
0402-3	*100*	*260*	*176*	*96.2*	*46.7*	*144*	*193*	*501*	*8*	*<1*
0402-4	100	370	208	128	54.6	219	230	767	12	3
0403-1	<100	40	7	7.2	<0.5	103	2	9	10	5
0403-2	100	140	65	35.2	17.4	327	77	227	8	2
0403-3	<100	160	69	38.2	20.6	245	90	346	10	3
0404-1	<100	260	47	35.1	3.2	214	14	6	6	9
0404-2	<100	190	39	22.7	7.4	285	28	24	<5	4
0404-3	<100	100	75	38.5	22.1	282	74	60	9	4
0404-4	<100	80	62	29.3	28.1	49	85	60	<5	7
0405-1	<100	340	18	9.3	4.7	6	23	13	<5	2
0405-2	<100	350	7	4.6	0.8	4	6	<1	<5	2
0405-3	<100	250	5	3.2	0.7	4	5	<1	5	3
0405-4	<100	260	5	3.0	<0.5	4	4	<1	<5	3
0406-1	<100	2190	5	3.5	1.6	6	7	9	<5	3
0406-2	<100	1310	9	5.7	2.2	5	10	9	<5	3
0406-3	<100	980	8	5.3	2.5	6	11	10	<5	4
0406-4	<100	600	5	2.9	1.4	7	6	7	<5	6
0407-1	<100	130	35	21.0	7.5	11	37	26	<5	1
0407-2	<100	220	11	6.9	1.6	5	10	1	<5	2
0407-3	<100	430	6	4.6	0.7	5	5	<1	6	2
*Dup 0387-1	<100	130	22	15.4	4.5	304	20	60	37	4
*Dup 0390-1	<100	360	12	8.6	2.5	32	12	13	10	4
*Dup 0394-1	<100	50	51	35.5	5.5	57	25	23	<5	<1
*Dup 0397-3	<100	250	73	36.4	30.7	6	107	111	<5	54
*Dup 0401-1	<100	340	7	3.8	1.1	4	6	1	8	13
*Dup 0404-2	<100	230	42	22.9	10.1	271	36	26	6	4
*Dup 0407-2	<100	250	9	6.8	1.0	5	7	<1	<5	3
*Std MMISRM14	<100	790	2	1.0	1.1	4	5	2	<5	55
*Std MMISRM14	<100	680	2	0.8	0.9	4	4	4	<5	42
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1
*Blk BLANK	<100	<10	<1	<0.5	<0.5	<1	<1	<1	<5	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0387-1	<5	5.8	108	260	3240	<1	27	<1	122	1
0387-2	<5	1.7	340	398	1530	<1	80	<1	152	2
0387-3	<5	1.4	641	435	1220	<1	145	<1	150	1
0387-4	<5	0.8	784	562	830	<1	167	<1	122	1
0388-1	<5	<0.5	50	158	130	<1	10	<1	30	<1
0388-2	<5	<0.5	81	216	160	<1	15	<1	39	<1
0388-3	<5	<0.5	64	184	420	<1	12	<1	37	<1
0388-4	<5	<0.5	51	153	5650	<1	9	<1	40	<1
0389-1	<5	<0.5	8	152	1780	<1	1	<1	62	<1
0389-2	<5	<0.5	6	126	30	<1	1	<1	80	<1
0389-3	<5	<0.5	6	146	20	<1	1	<1	90	<1
0389-4	<5	<0.5	6	133	50	<1	1	<1	84	<1
0390-1	<5	<0.5	33	255	260	<1	6	<1	42	<1
0390-2	<5	<0.5	37	313	230	<1	7	<1	47	1
0391-1	<5	<0.5	197	397	3700	<1	39	<1	74	<1
0391-2	<5	<0.5	526	190	1130	<1	122	<1	64	<1
0391-3	<5	<0.5	303	223	650	<1	59	<1	59	<1
0392-1	<5	<0.5	37	100	150	<1	6	<1	30	<1
0392-2	<5	<0.5	26	83	110	<1	4	<1	26	<1
0392-3	<5	<0.5	24	108	90	<1	4	<1	36	<1
0392-4	<5	<0.5	12	98	90	<1	2	<1	35	<1
0393-1	<5	<0.5	449	196	280	<1	87	<1	62	<1
0393-2	<5	<0.5	107	208	60	<1	18	<1	26	<1
0393-3	<5	<0.5	11	159	20	<1	2	<1	33	<1
0394-1	<5	2.3	56	174	840	<1	11	<1	31	<1
0394-2	<5	0.6	531	181	770	<1	132	<1	81	1
0394-3	<5	<0.5	171	330	440	<1	36	<1	57	<1
0395-1	<5	<0.5	83	184	1150	<1	18	<1	81	<1
0395-2	<5	<0.5	311	227	730	<1	65	<1	88	<1
0395-3	<5	1.9	600	124	460	<1	133	<1	106	<1
0396-1	<5	1.4	66	237	2440	<1	13	<1	37	<1
0396-2	5	13.1	495	280	2530	<1	118	<1	107	2
0396-3	<5	<0.5	18	118	40	<1	3	<1	42	<1
0396-4	<5	<0.5	11	117	40	<1	2	<1	42	<1
0397-1	<5	0.5	2130	1700	860	<1	430	<1	85	<1
0397-2	<5	<0.5	311	299	5960	<1	52	<1	254	2
0397-3	<5	<0.5	318	319	3870	<1	50	<1	303	2
0397-4	<5	0.6	168	151	1090	<1	27	<1	138	<1
0398-1	<5	<0.5	9	134	750	<1	2	<1	60	<1
0398-2	<5	<0.5	51	217	450	<1	11	<1	54	<1
0398-3	<5	<0.5	486	241	2260	<1	131	<1	72	<1
0398-4	<5	2.7	244	202	3200	<1	63	<1	94	<1
0399-1	<5	<0.5	4	258	40	<1	<1	<1	12	<1
0399-2	<5	<0.5	10	292	80	<1	1	<1	12	<1
0399-3	<5	<0.5	6	227	50	<1	<1	<1	15	<1
0399-4	<5	<0.5	6	155	50	<1	<1	<1	18	<1
0400-1	<5	0.9	<1	257	40	<1	<1	<1	26	<1
0400-2	<5	0.5	<1	288	70	<1	<1	<1	26	<1

Element	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Pt	Rb	Sb
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	0.5	1	5	10	1	1	1	5	1
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0401-1	*<5*	*<0.5*	*3*	*161*	*60*	*<1*	*<1*	*<1*	*15*	*<1*
0401-2	<5	<0.5	<1	92	60	<1	<1	<1	13	<1
0401-3	<5	<0.5	<1	118	100	<1	<1	<1	20	<1
0401-4	*<5*	*<0.5*	*<1*	*181*	*80*	*<1*	*<1*	*<1*	*12*	*<1*
0402-1	<5	4.5	43	92	2090	<1	9	<1	109	1
0402-2	<5	3.1	329	98	1480	<1	76	<1	105	1
0402-3	<5	1.4	762	103	2500	<1	181	<1	67	<1
0402-4	<5	3.3	909	203	1250	<1	225	<1	119	2
0403-1	<5	2.3	7	112	630	<1	2	<1	22	<1
0403-2	<5	5.0	341	207	3800	<1	78	<1	108	1
0403-3	<5	3.5	435	195	1960	<1	106	<1	122	1
0404-1	<5	1.9	14	625	3360	<1	2	<1	53	2
0404-2	<5	2.9	57	815	47600	<1	11	<1	71	12
0404-3	<5	1.3	164	1510	50000	<1	31	<1	112	7
0404-4	<5	<0.5	179	1390	1850	<1	30	<1	78	1
0405-1	<5	<0.5	40	240	360	<1	6	<1	20	<1
0405-2	<5	<0.5	1	138	2760	<1	<1	<1	16	<1
0405-3	<5	<0.5	1	95	1760	<1	<1	<1	20	<1
0405-4	<5	<0.5	<1	93	1990	<1	<1	<1	14	<1
0406-1	<5	<0.5	20	327	2760	<1	4	<1	39	1
0406-2	<5	<0.5	22	233	1210	<1	4	<1	52	<1
0406-3	<5	<0.5	26	421	780	<1	4	<1	38	<1
0406-4	<5	<0.5	16	384	610	<1	3	<1	23	<1
0407-1	<5	<0.5	70	300	110	<1	12	<1	20	<1
0407-2	<5	<0.5	4	179	100	<1	<1	<1	15	<1
0407-3	<5	<0.5	2	101	180	<1	<1	<1	27	<1
*Dup 0387-1	<5	5.9	73	213	2690	<1	18	<1	106	1
*Dup 0390-1	<5	<0.5	27	192	350	<1	5	<1	31	<1
*Dup 0394-1	<5	1.6	51	157	870	<1	10	<1	28	<1
*Dup 0397-3	<5	<0.5	273	273	4270	<1	43	<1	217	2
*Dup 0401-1	<5	<0.5	5	138	60	<1	<1	<1	12	<1
*Dup 0404-2	<5	2.9	75	649	38000	<1	14	<1	64	11
*Dup 0407-2	<5	<0.5	2	194	100	<1	<1	<1	13	<1
*Std MMISRM14	43	<0.5	15	317	130	53	3	<1	324	1
*Std MMISRM14	35	<0.5	13	263	130	47	2	<1	294	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1
*Blk BLANK	<5	<0.5	<1	<5	<10	<1	<1	<1	<5	<1

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0387-1	39	23	1	730	<1	5	<10	211	1390	0.6
0387-2	75	85	<1	1630	<1	17	<10	402	453	0.6
0387-3	132	170	<1	3130	<1	44	<10	379	339	0.6
0387-4	188	239	<1	3770	1	78	<10	274	162	<0.5
0388-1	10	16	<1	6970	<1	5	<10	44.6	32	<0.5
0388-2	11	26	<1	7070	<1	7	<10	50.1	37	<0.5
0388-3	10	21	<1	6960	<1	6	<10	46.4	34	<0.5
0388-4	8	17	<1	6090	<1	5	<10	42.7	40	<0.5
0389-1	5	3	<1	4850	<1	1	<10	14.0	10	<0.5
0389-2	<5	2	<1	3740	<1	<1	<10	14.0	5	<0.5
0389-3	<5	2	<1	3040	<1	<1	<10	16.7	4	<0.5
0389-4	<5	2	<1	3280	<1	<1	<10	17.2	<3	<0.5
0390-1	7	11	<1	3530	<1	2	<10	50.0	34	<0.5
0390-2	10	11	<1	3340	<1	3	<10	48.7	45	<0.5
0391-1	54	66	<1	740	<1	18	<10	93.5	83	<0.5
0391-2	61	134	<1	390	<1	32	<10	121	51	<0.5
0391-3	42	102	<1	1060	<1	32	<10	72.5	30	<0.5
0392-1	<5	13	<1	6540	<1	3	<10	20.4	8	<0.5
0392-2	7	10	<1	9300	<1	3	<10	18.5	<3	<0.5
0392-3	8	9	<1	9690	<1	3	<10	17.1	5	<0.5
0392-4	<5	5	<1	10600	<1	1	<10	11.4	<3	<0.5
0393-1	51	144	<1	5860	<1	43	<10	88.8	37	<0.5
0393-2	44	41	<1	7360	<1	13	<10	58.0	4	<0.5
0393-3	12	5	<1	6620	<1	2	<10	13.8	5	<0.5
0394-1	31	18	<1	210	<1	8	<10	40.5	373	<0.5
0394-2	141	141	<1	530	<1	41	<10	175	151	0.6
0394-3	35	56	<1	6250	<1	20	<10	29.1	11	<0.5
0395-1	18	25	<1	970	<1	6	<10	125	161	<0.5
0395-2	77	103	<1	220	<1	26	<10	298	60	<0.5
0395-3	145	189	<1	280	<1	53	<10	230	476	<0.5
0396-1	22	21	<1	2770	<1	8	<10	65.5	252	<0.5
0396-2	86	120	3	370	1	27	<10	308	2770	0.5
0396-3	8	6	<1	4910	<1	2	<10	22.7	27	<0.5
0396-4	7	4	<1	5660	<1	1	<10	18.2	12	<0.5
0397-1	140	456	<1	8190	<1	77	<10	24.3	8	0.7
0397-2	9	84	<1	5510	<1	14	<10	3.2	7	0.6
0397-3	13	92	<1	4090	<1	17	<10	4.3	7	0.6
0397-4	6	46	<1	7700	<1	8	<10	1.9	5	<0.5
0398-1	5	2	<1	1040	<1	<1	<10	26.0	8	1.2
0398-2	14	20	<1	2010	<1	15	<10	42.5	3	1.5
0398-3	22	111	<1	1440	<1	30	<10	127	15	1.3
0398-4	35	65	<1	1510	<1	18	<10	838	34	0.7
0399-1	<5	3	<1	3630	<1	1	<10	6.9	6	<0.5
0399-2	<5	5	<1	3720	<1	2	<10	7.3	<3	<0.5
0399-3	<5	3	<1	4080	<1	1	<10	5.4	<3	<0.5
0399-4	<5	4	<1	3950	<1	1	<10	4.5	<3	<0.5
0400-1	7	<1	<1	1810	<1	<1	<10	5.2	<3	<0.5
0400-2	8	2	<1	2050	<1	<1	<10	6.7	4	<0.5

Element	Sc	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	5	1	1	10	1	1	10	0.5	3	0.5
Units	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB	PPB
0401-1	5	1	<1	5660	<1	<1	<10	7.8	<3	<0.5
0401-2	<5	<1	<1	5750	<1	<1	<10	2.8	<3	<0.5
0401-3	8	1	<1	6650	<1	1	<10	8.1	<3	<0.5
0401-4	5	1	<1	6360	<1	1	<10	1.7	5	<0.5
0402-1	24	11	<1	120	<1	3	<10	117	930	<0.5
0402-2	57	80	<1	30	<1	15	<10	263	754	<0.5
0402-3	106	180	<1	<10	<1	33	<10	314	275	<0.5
0402-4	129	208	<1	50	<1	38	<10	386	692	<0.5
0403-1	9	2	<1	540	<1	<1	<10	20.0	316	<0.5
0403-2	32	77	<1	210	<1	12	<10	212	1150	<0.5
0403-3	32	92	<1	480	<1	14	<10	211	851	<0.5
0404-1	60	6	<1	500	<1	5	<10	27.0	389	<0.5
0404-2	93	20	<1	190	<1	6	<10	69.8	643	<0.5
0404-3	192	56	<1	340	<1	12	<10	81.8	342	<0.5
0404-4	27	64	<1	1020	<1	12	<10	7.3	80	<0.5
0405-1	8	15	<1	2640	<1	3	<10	4.8	6	<0.5
0405-2	5	2	<1	3970	<1	1	<10	1.7	<3	<0.5
0405-3	<5	2	<1	3700	<1	<1	<10	1.7	<3	<0.5
0405-4	<5	1	<1	3670	<1	<1	<10	1.4	<3	<0.5
0406-1	8	6	2	1550	<1	<1	<10	7.7	4	<0.5
0406-2	31	7	2	1400	<1	1	<10	6.9	6	<0.5
0406-3	26	8	<1	1850	<1	1	<10	9.1	5	<0.5
0406-4	12	5	<1	2150	<1	<1	<10	6.6	7	<0.5
0407-1	6	25	<1	1470	<1	6	<10	11.6	10	<0.5
0407-2	9	4	<1	2320	<1	1	<10	5.3	5	<0.5
0407-3	10	2	<1	2250	<1	<1	<10	5.5	5	<0.5
*Dup 0387-1	33	16	<1	630	<1	3	<10	179	1490	<0.5
*Dup 0390-1	8	8	<1	2570	<1	2	<10	40.6	36	<0.5
*Dup 0394-1	29	16	<1	170	<1	6	<10	35.7	248	<0.5
*Dup 0397-3	9	76	<1	3510	<1	13	<10	3.1	8	<0.5
*Dup 0401-1	7	3	<1	6040	<1	1	<10	9.5	4	<0.5
*Dup 0404-2	87	27	<1	320	<1	7	<10	59.9	667	<0.5
*Dup 0407-2	11	2	<1	2460	<1	1	<10	4.5	4	<0.5
*Std MMISRM14	11	5	<1	500	<1	<1	<10	22.4	<3	<0.5
*Std MMISRM14	<5	4	<1	600	<1	<1	<10	17.9	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5
*Blk BLANK	<5	<1	<1	<10	<1	<1	<10	<0.5	<3	<0.5

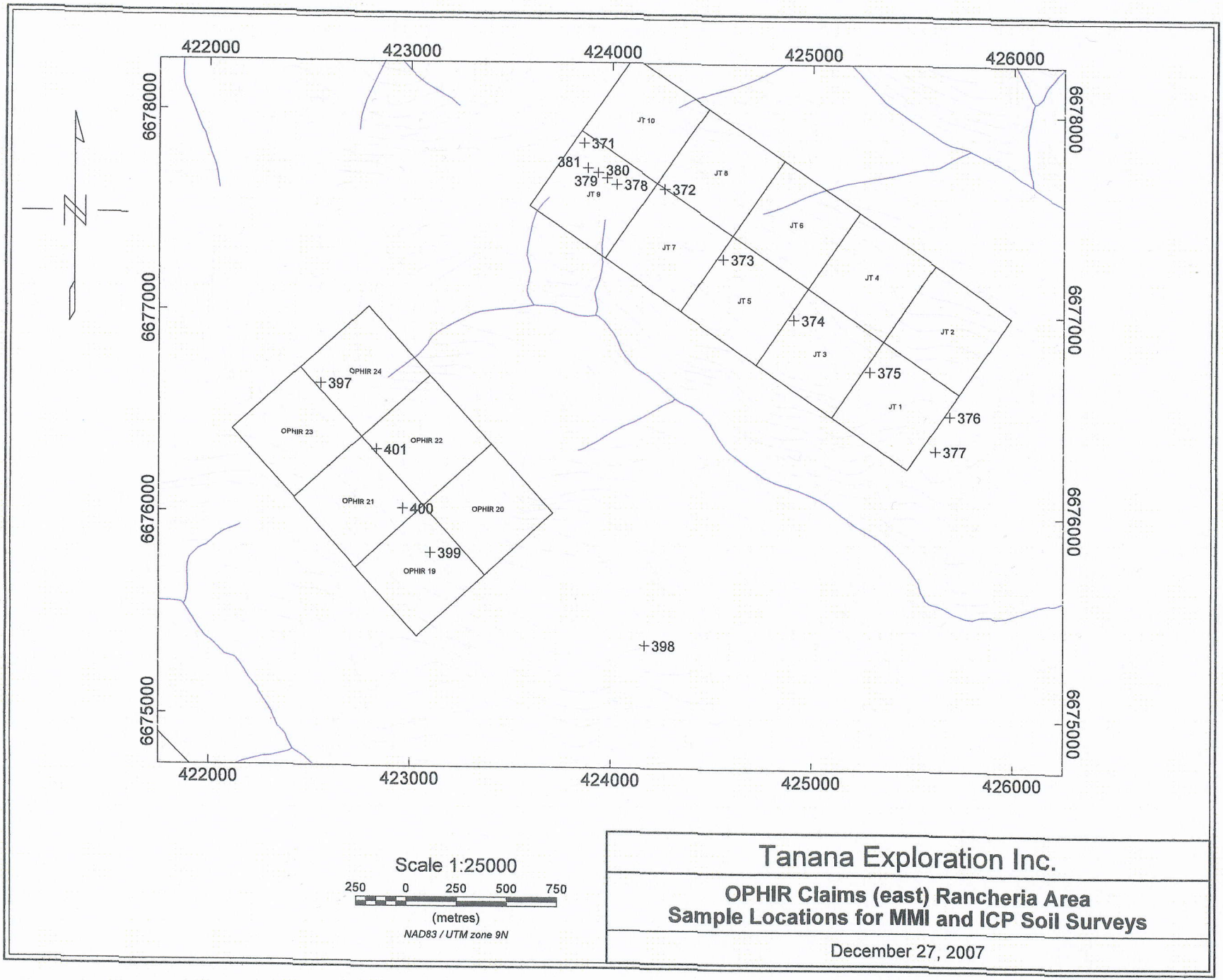
Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0387-1	19	5	201	21	200	69
0387-2	31	6	587	72	150	101
0387-3	42	5	2180	207	120	99
0387-4	45	6	5360	460	110	85
0388-1	28	1	257	23	90	18
0388-2	33	1	422	36	70	21
0388-3	39	1	347	30	70	19
0388-4	36	1	275	24	60	19
0389-1	5	1	85	7	100	6
0389-2	3	1	37	3	50	<5
0389-3	4	1	46	3	40	6
0389-4	3	1	58	5	40	<5
0390-1	11	1	108	12	200	19
0390-2	8	1	155	18	310	22
0391-1	21	2	811	66	100	24
0391-2	22	2	1870	190	50	41
0391-3	23	3	3120	276	50	25
0392-1	35	1	157	10	40	<5
0392-2	23	1	134	8	<20	<5
0392-3	24	1	162	10	20	<5
0392-4	18	<1	83	6	30	<5
0393-1	14	3	2860	191	80	36
0393-2	8	2	912	62	20	17
0393-3	3	1	120	8	<20	5
0394-1	16	1	347	32	40	69
0394-2	60	3	2650	200	80	77
0394-3	63	2	1590	105	30	25
0395-1	12	2	241	22	90	15
0395-2	28	2	773	109	60	31
0395-3	43	4	2530	239	50	65
0396-1	15	1	582	48	250	32
0396-2	23	3	1310	107	260	160
0396-3	4	1	148	11	30	11
0396-4	4	<1	84	6	50	8
0397-1	10	3	4010	152	1520	16
0397-2	14	2	529	24	8530	7
0397-3	16	2	578	26	9820	8
0397-4	7	1	287	12	1540	<5
0398-1	1	<1	58	9	220	<5
0398-2	9	1	904	32	610	<5
0398-3	30	1	1390	42	690	<5
0398-4	61	1	666	28	590	8
0399-1	4	1	49	3	90	<5
0399-2	9	1	74	5	<20	<5
0399-3	8	<1	50	3	<20	<5
0399-4	6	1	51	3	<20	<5
0400-1	9	1	42	3	<20	<5
0400-2	7	1	49	4	40	<5

Element	U	W	Y	Yb	Zn	Zr
Method	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5	MMI-M5
Det.Lim.	1	1	5	1	20	5
Units	PPB	PPB	PPB	PPB	PPB	PPB
0401-1	26	1	37	3	30	<5
0401-2	27	1	23	2	50	<5
0401-3	30	1	44	3	80	<5
0401-4	24	<1	51	3	30	<5
0402-1	9	2	69	7	130	91
0402-2	15	2	303	31	250	162
0402-3	22	2	736	94	150	169
0402-4	29	2	990	135	180	190
0403-1	3	1	48	7	220	17
0403-2	17	2	316	31	100	99
0403-3	16	2	333	35	100	93
0404-1	10	2	276	28	2330	39
0404-2	23	3	177	17	2960	83
0404-3	36	7	384	30	3730	130
0404-4	12	3	415	20	910	39
0405-1	9	1	141	7	70	6
0405-2	3	1	53	4	290	<5
0405-3	3	<1	39	2	130	<5
0405-4	4	<1	34	2	70	<5
0406-1	12	1	48	4	24200	5
0406-2	11	4	79	5	23000	10
0406-3	14	2	70	5	25000	7
0406-4	12	1	37	3	24600	<5
0407-1	11	<1	257	16	400	<5
0407-2	2	<1	88	5	160	<5
0407-3	2	<1	52	4	110	6
*Dup 0387-1	15	5	139	15	210	63
*Dup 0390-1	8	<1	82	9	180	17
*Dup 0394-1	14	<1	298	30	70	50
*Dup 0397-3	12	<1	495	22	6580	6
*Dup 0401-1	25	<1	43	2	60	<5
*Dup 0404-2	18	2	194	17	2590	71
*Dup 0407-2	2	<1	79	6	120	<5
*Std MMISRM14	40	<1	12	<1	310	14
*Std MMISRM14	32	<1	11	<1	300	12
*Blk BLANK	<1	<1	<5	<1	<20	<5
*Blk BLANK	<1	<1	<5	<1	<20	<5

APPENDIX C

SAMPLE LOCATION MAPS

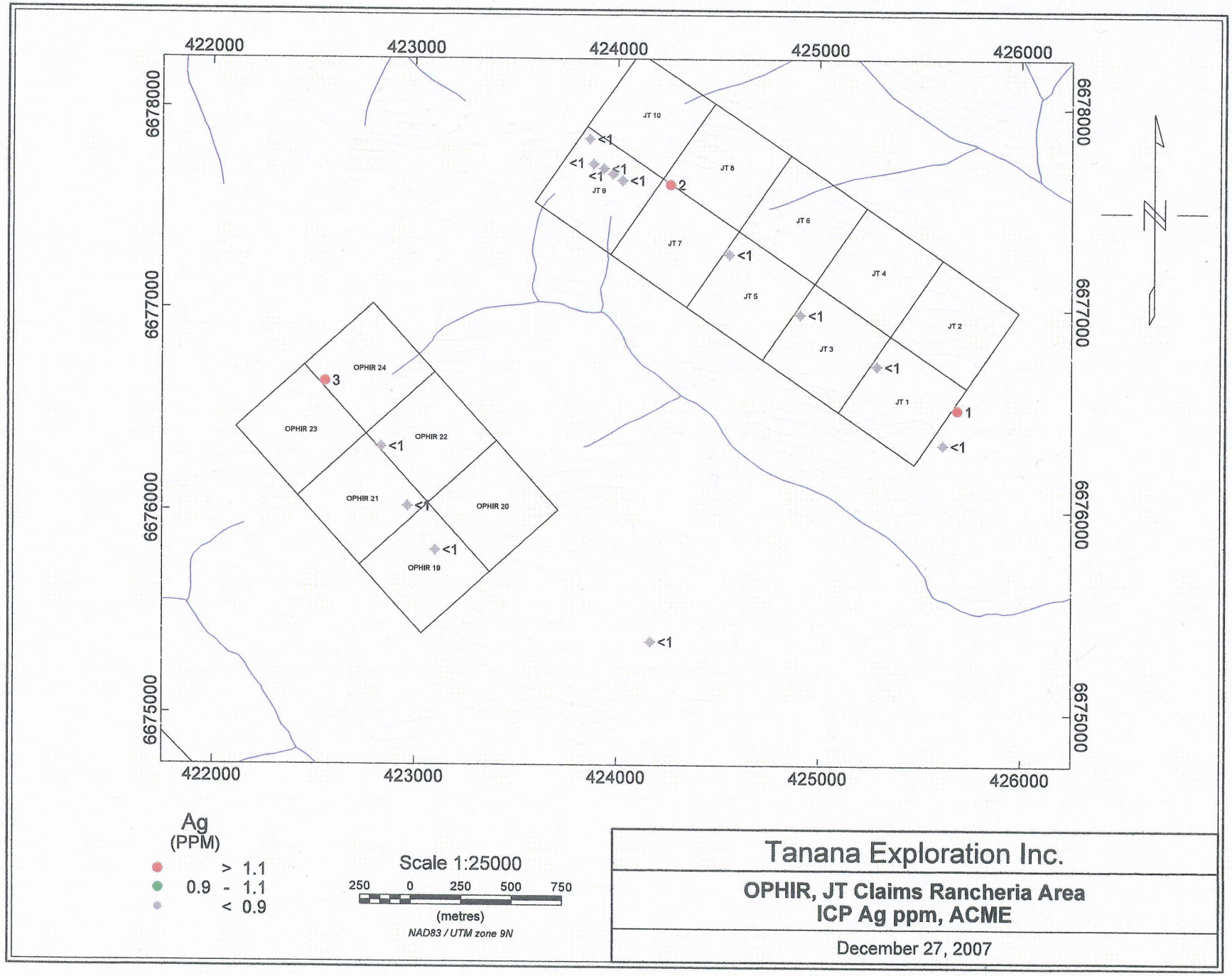
COLOR COMPILATION MAPS



Tanana Exploration Inc.

OPHIR Claims (east) Rancheria Area
Sample Locations for MMI and ICP Soil Surveys

December 27, 2007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OPHIR 23
OPHIR 22
OPHIR 21
OPHIR 20
OPHIR 19
<1
1
2
3
N
Ag
(PPM)
> 1.1
0.9 - 1.1
< 0.9
Scale 1:25000
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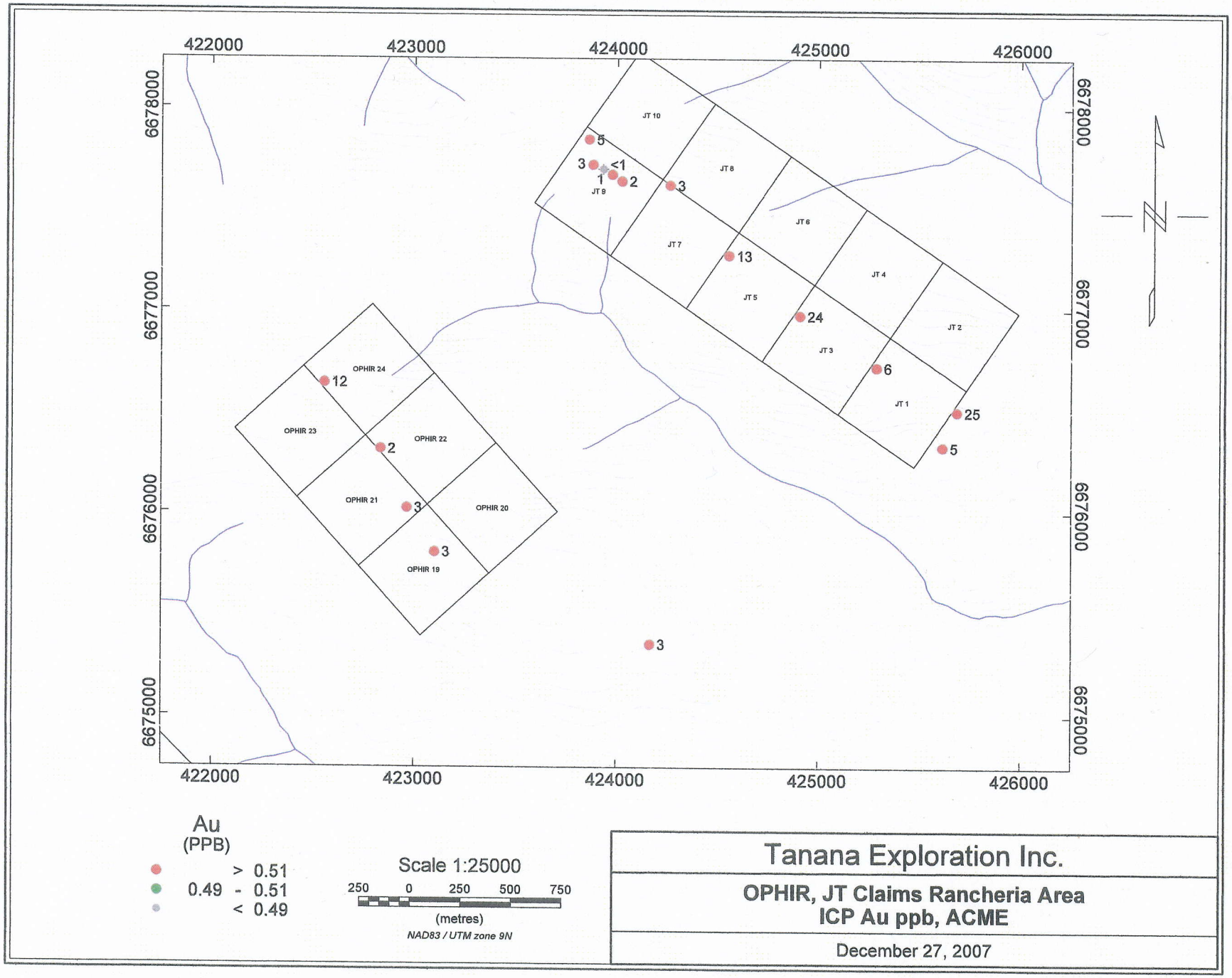
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
ICP Ag ppm, ACME
December 27, 2007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JT 4
JT 3
JT 2
JT 1
OPHIR 24
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OPHIR 22
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OPHIR 19
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3
Au
(PPB)
> 0.51
0.49 - 0.51
< 0.49
Scale 1:25000
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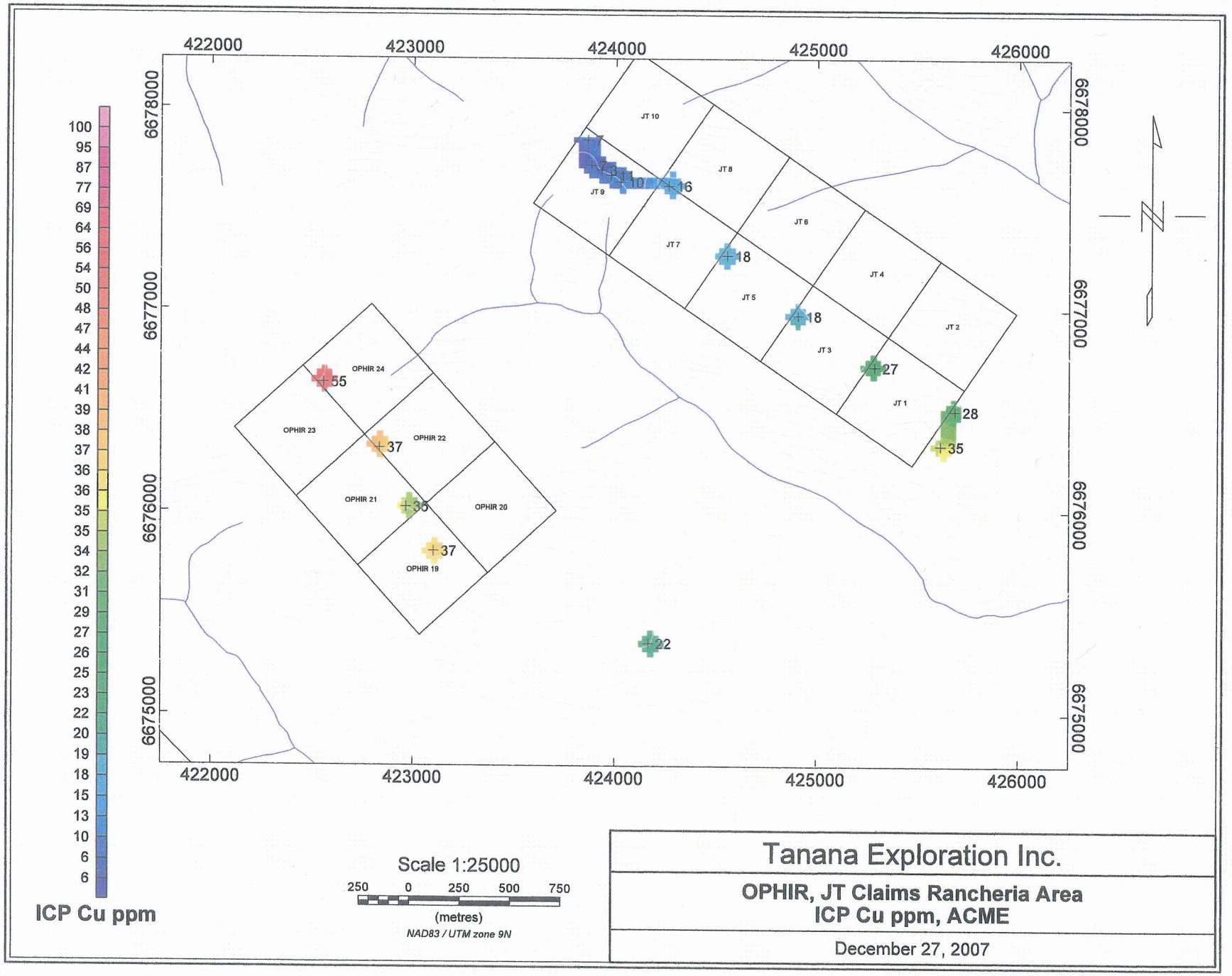
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
ICP Au ppb, ACME
December 27, 2007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JT 1
OPHIR 24
OPHIR 23
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OPHIR 21
OPHIR 20
OPHIR 19
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23
22
20
19
18
15
13
10
6
6
ICP Cu ppm
Scale 1:25000
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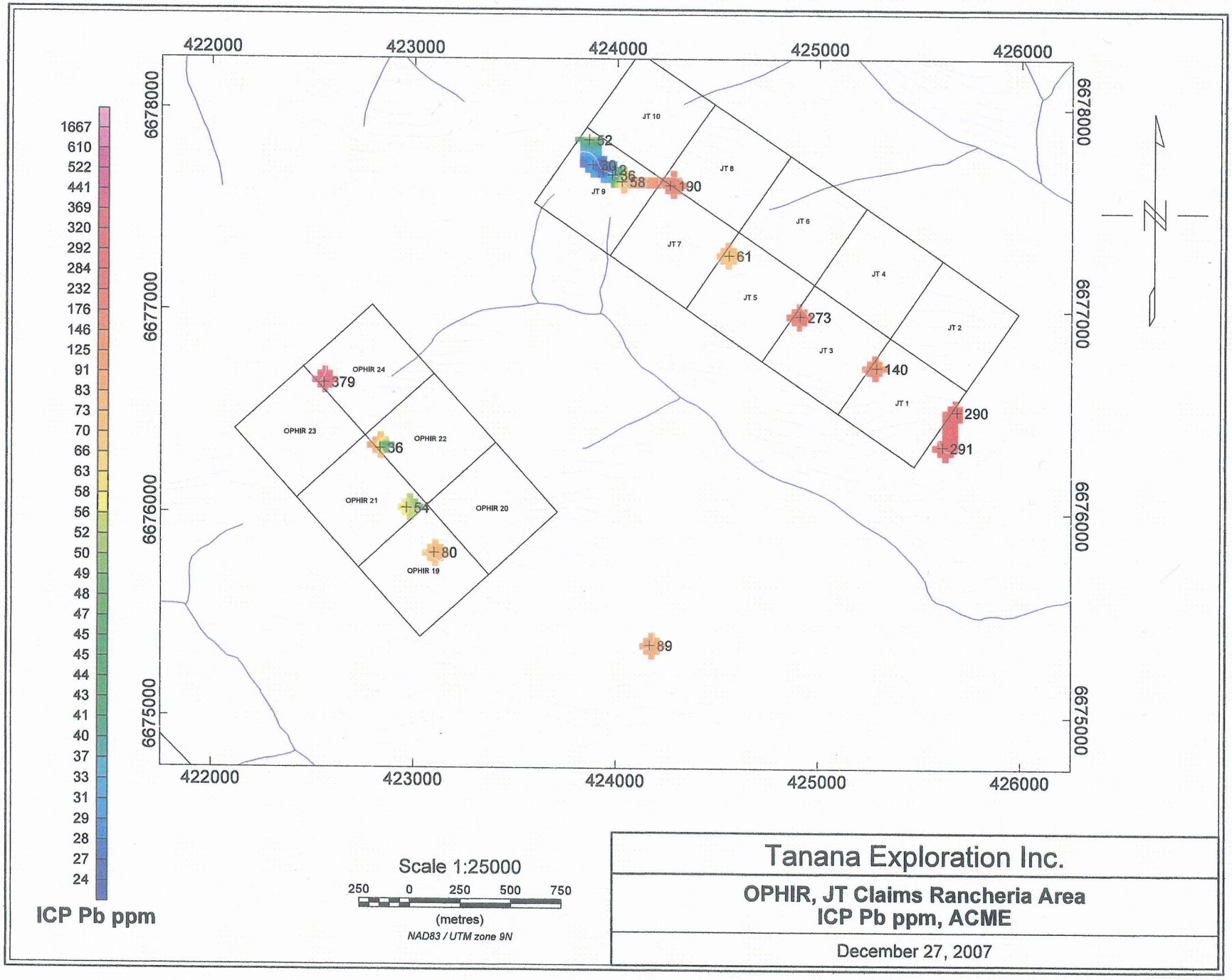
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
ICP Cu ppm, ACME
December 27, 2007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OPHIR 24
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OPHIR 22
OPHIR 21
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284
232
176
146
125
91
83
73
70
66
63
58
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52
50
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47
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45
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43
41
40
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33
31
29
28
27
24
ICP Pb ppm
Scale 1:25000
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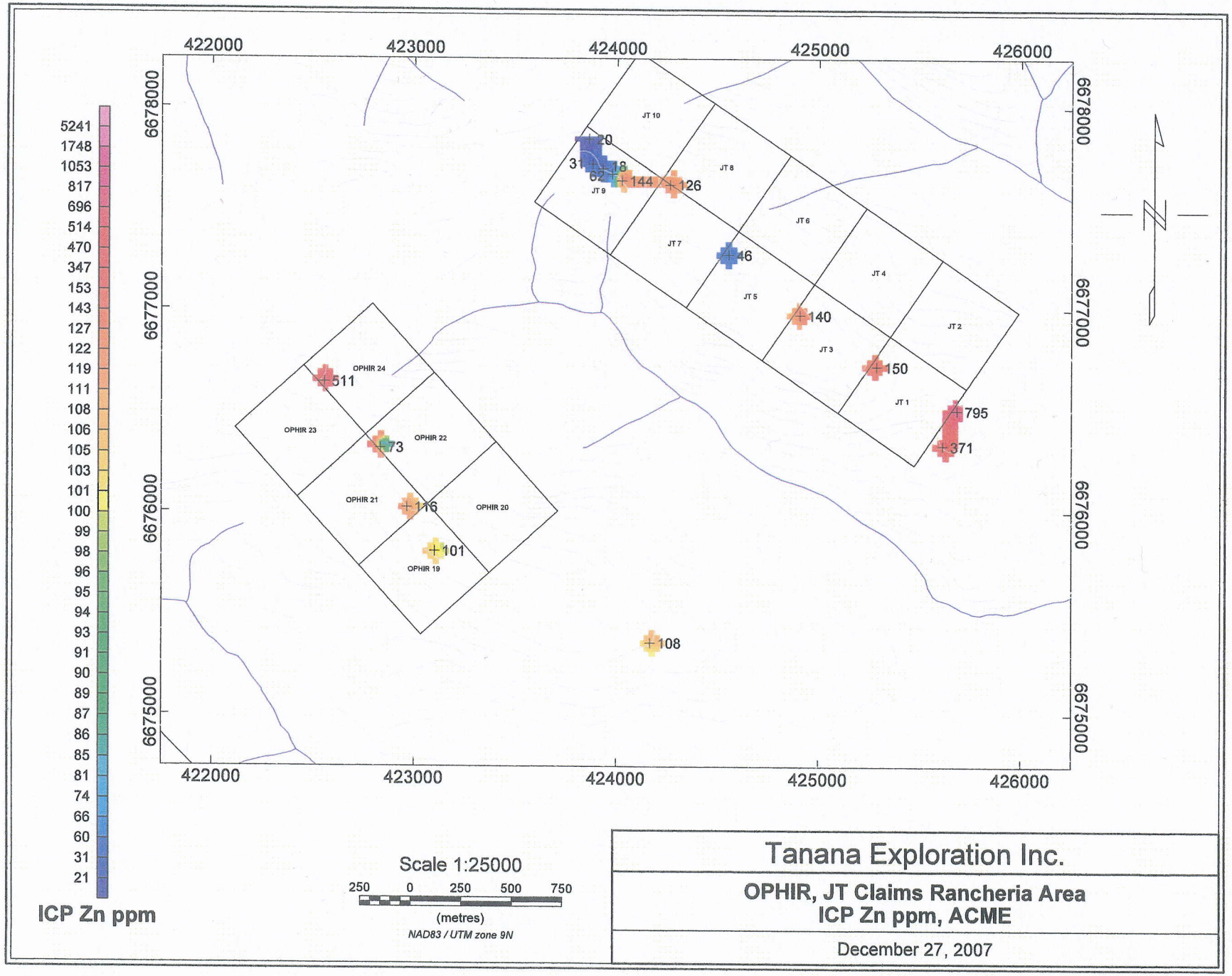
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
ICP Pb ppm, ACME
December 27, 2007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JT 4
JT 3
JT 2
JT 1
OPHIR 24
OPHIR 23
OPHIR 22
OPHIR 21
OPHIR 20
OPHIR 19
20
31
62
18
144
126
46
140
150
795
371
511
73
116
101
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1053
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100
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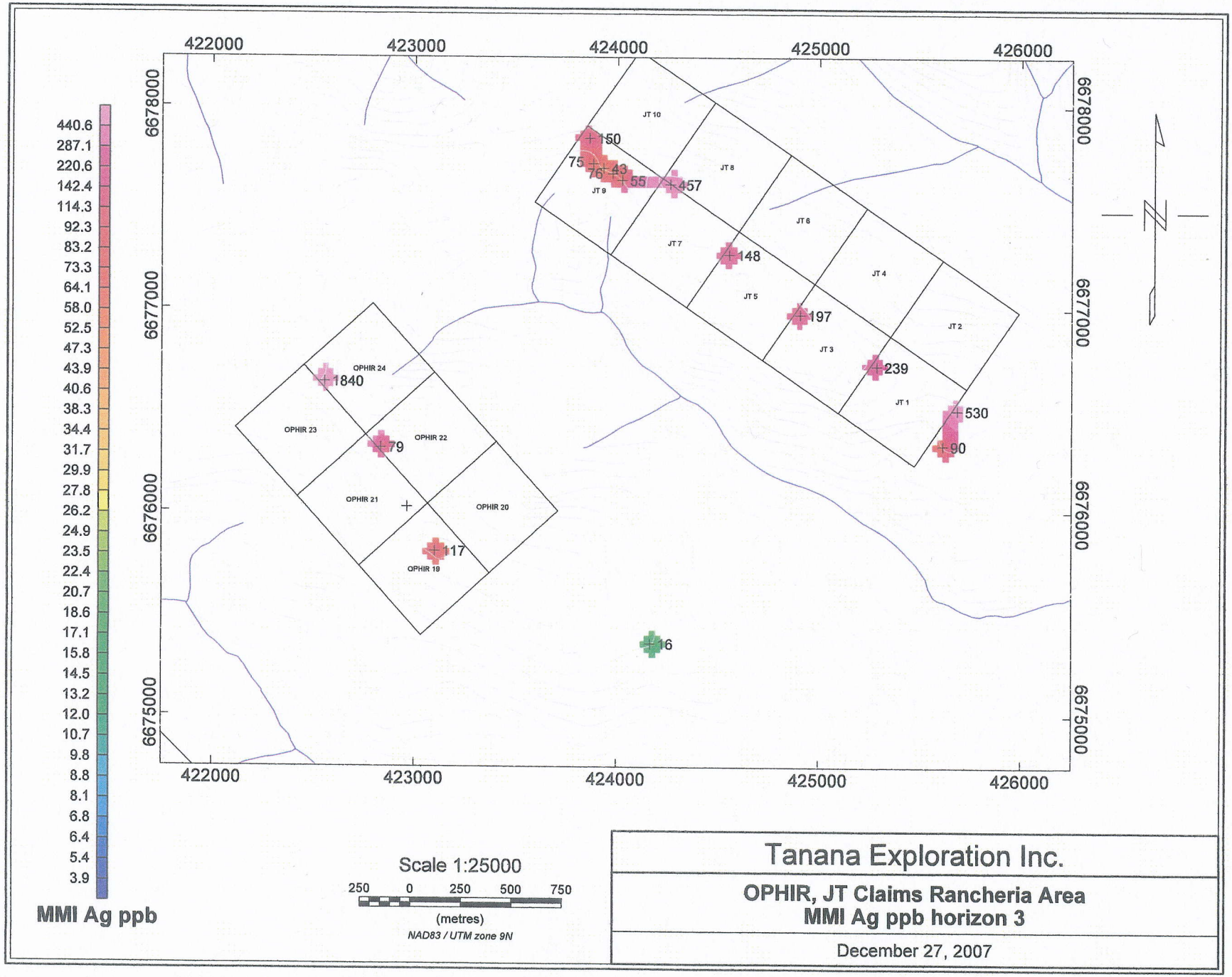
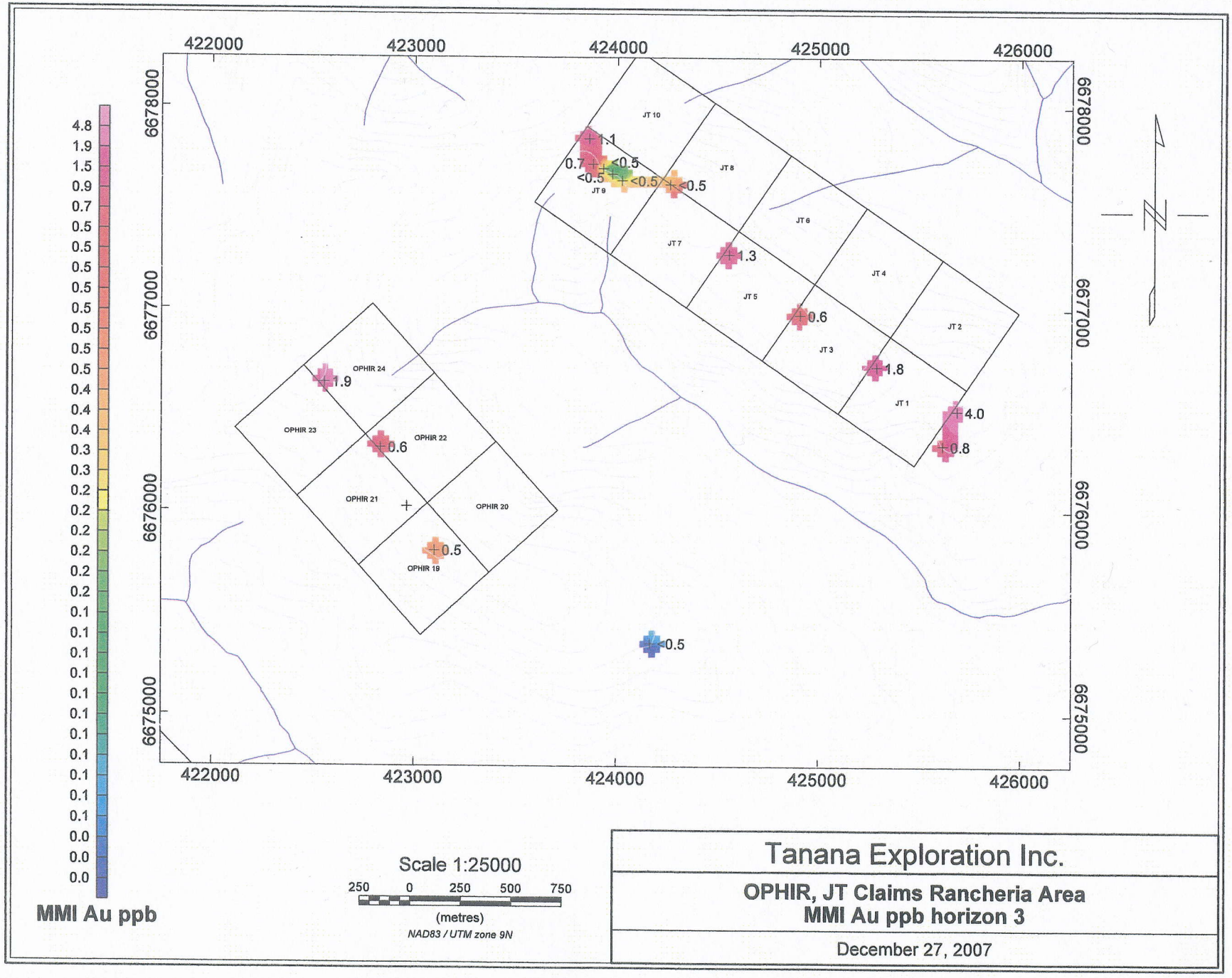
98
96
95
94
93
91
90
89
87
86
85
81
74
66
60
31
21
ICP Zn ppm
Scale 1:25000
250 0 250 500 750
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
ICP Zn ppm, ACME
December 27, 2007



Tanana Exploration Inc.

OPHIR, JT Claims Rancheria Area
MMI Ag ppb horizon 3

December 27, 2007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6675000
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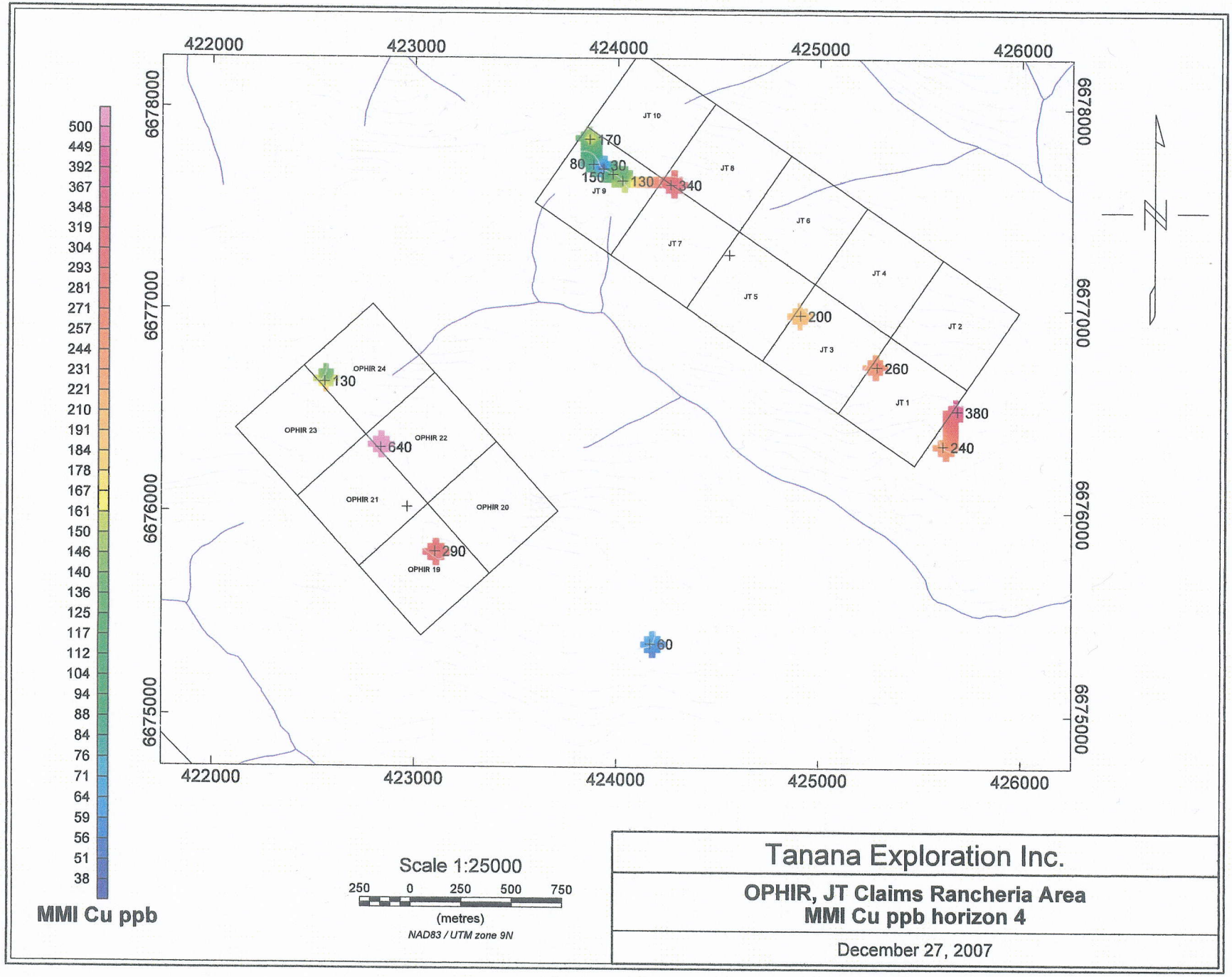
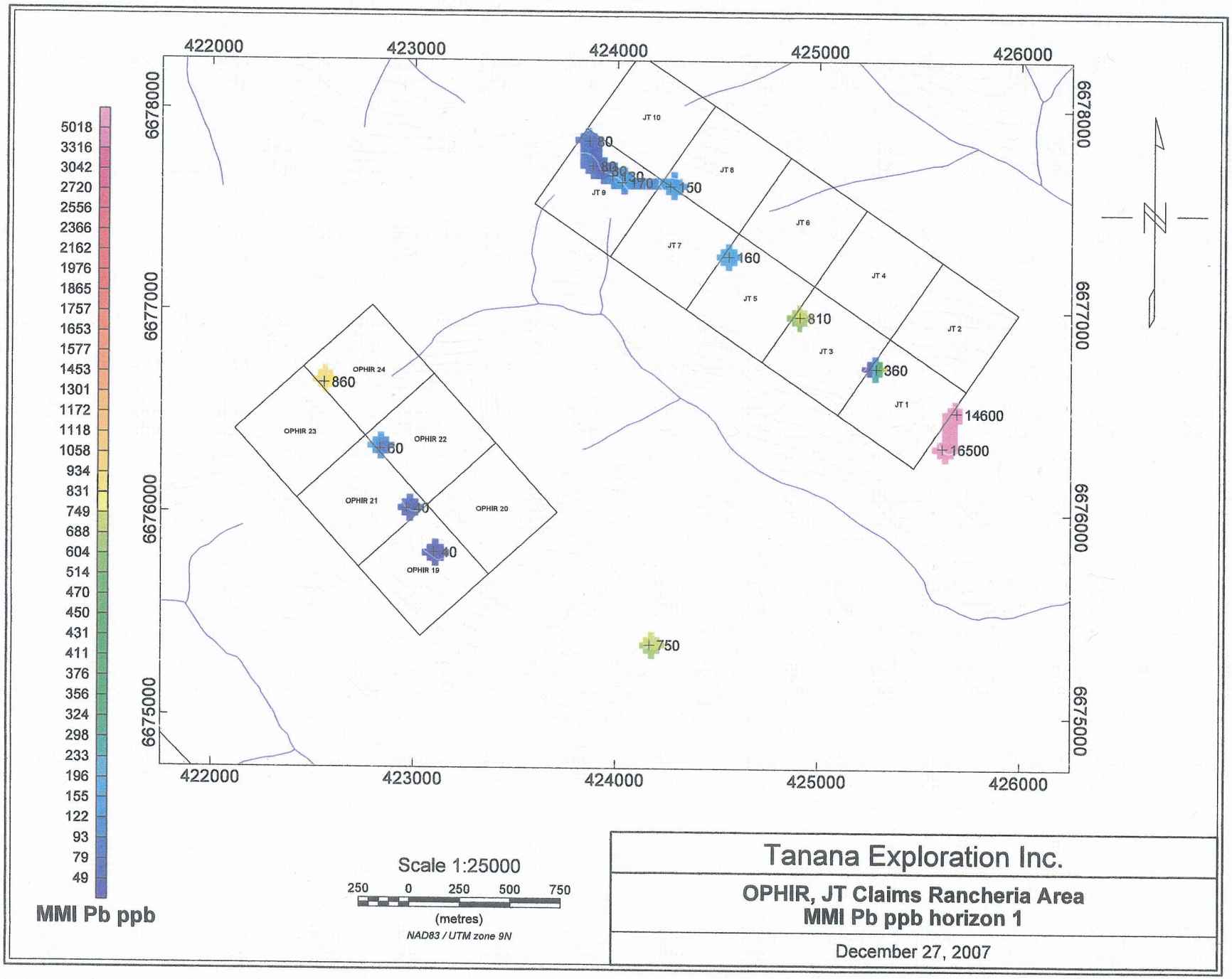
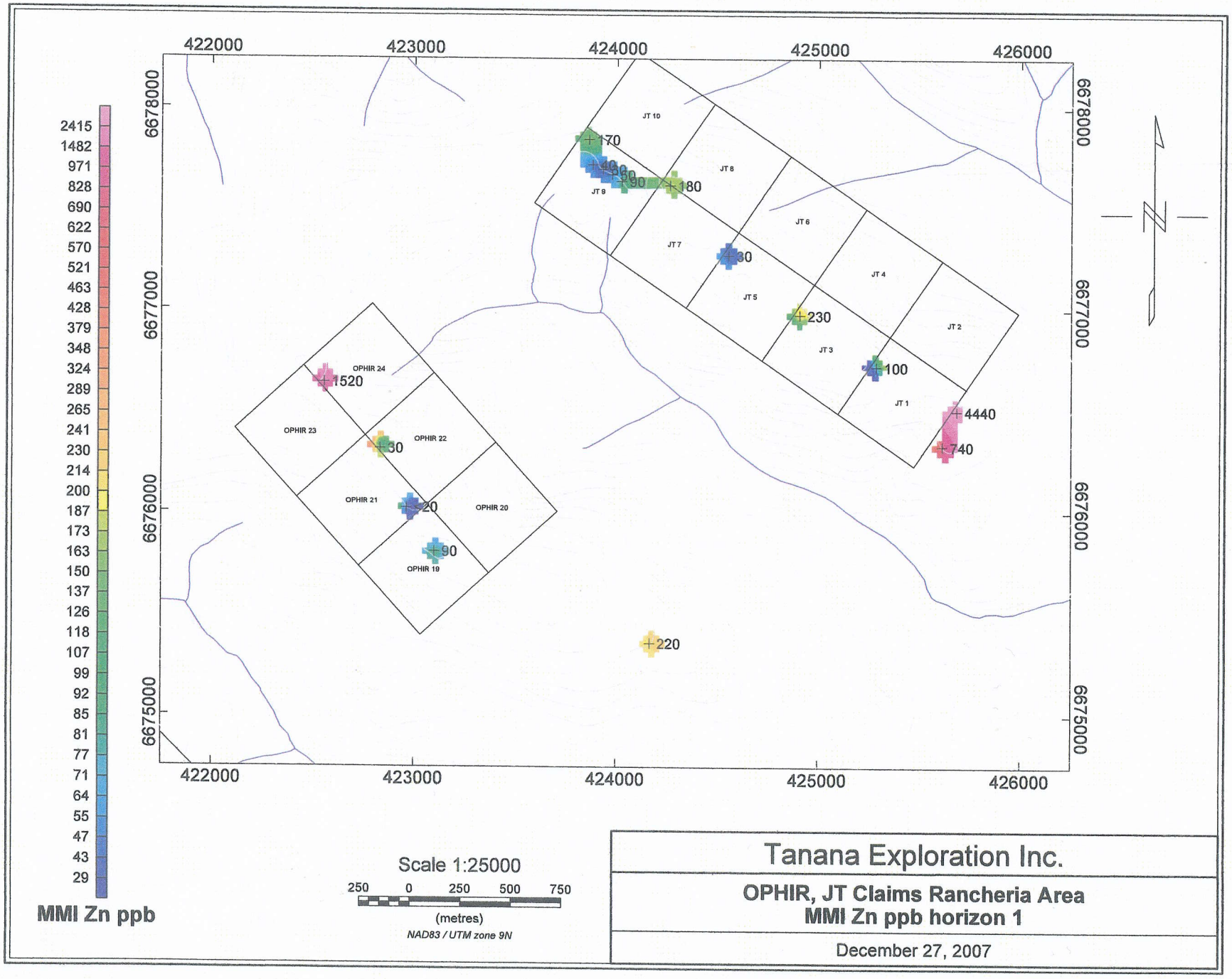
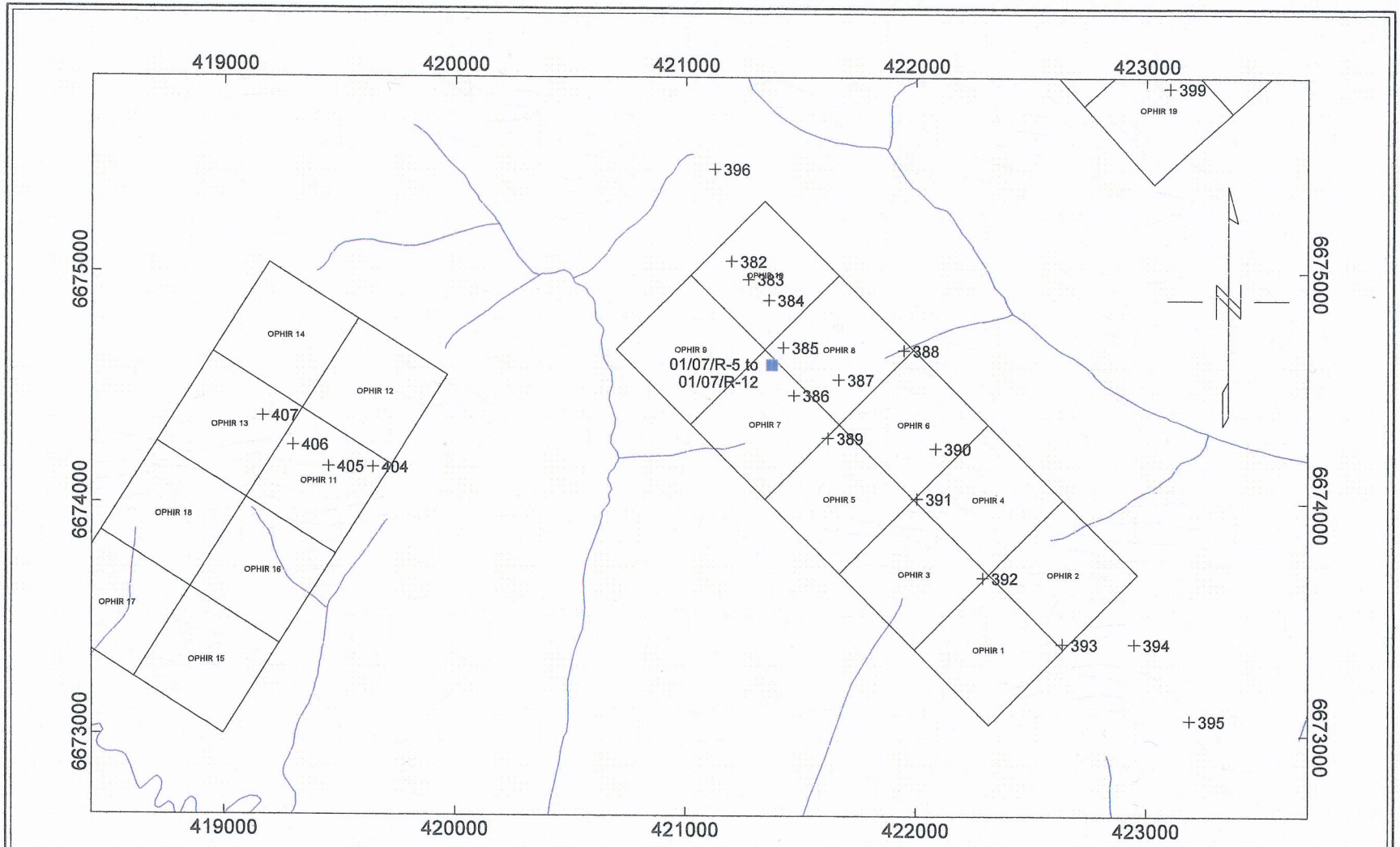
JT 9
JT 8
JT 7
JT 6
JT 5
JT 4
JT 3
JT 2
JT 1
OPHIR 24
OPHIR 23
OPHIR 22
OPHIR 21
OPHIR 20
OPHIR 19
1.1
0.7
<0.5
<0.5
<0.5
<0.5
<0.5
1.3
0.6
1.8
4.0
0.8
1.9
0.6
0.5
<0.5
4.8
1.9
1.5
0.9
0.7
0.5
0.4
0.3
0.2
0.1
0.0
MMI Au ppb
Scale 1:25000
250 0 250 500 750
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
MMI Au ppb horizon 3
December 27, 2007


422000
423000
424000
425000
426000
6678000
6677000
6676000
6675000
JT 10
JT 9
JT 8
JT 7
JT 6
JT 5
JT 4
JT 3
JT 2
JT 1
OPHIR 24
OPHIR 23
OPHIR 22
OPHIR 21
OPHIR 20
OPHIR 19
170
80
30
150
130
340
200
260
380
240
130
640
290
60
500
449
392
367
348
319
304
293
281
271
257
244
231
221
210
191
184
178
167
161
150
146
140
136
125
117
112
104
94
88
84
76
71
64
59
56
51
38
MMI Cu ppb
Scale 1:25000
250 0 250 500 750
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
MMI Cu ppb horizon 4
December 27, 2007


422000
423000
424000
425000
426000
6678000
6677000
6676000
6675000
JT 10
JT 9
JT 8
JT 7
JT 6
JT 5
JT 4
JT 3
JT 2
JT 1
80
80
130
170
150
160
810
360
14600
16500
OPHIR 24
860
OPHIR 23
OPHIR 22
60
OPHIR 21
40
OPHIR 20
40
OPHIR 19
750
5018
3316
3042
2720
2556
2366
2162
1976
1865
1757
1653
1577
1453
1301
1172
1118
1058
934
831
749
688
604
514
470
450
431
411
376
356
324
298
233
196
155
122
93
79
49
MMI Pb ppb
Scale 1:25000
250 0 250 500 750
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
MMI Pb ppb horizon 1
December 27, 2007


422000
423000
424000
425000
426000
6678000
6677000
6676000
6675000
JT 10
JT 9
JT 8
JT 7
JT 6
JT 5
JT 4
JT 3
JT 2
JT 1
OPHIR 24
OPHIR 23
OPHIR 22
OPHIR 21
OPHIR 20
OPHIR 19
70
40
50
90
180
30
230
100
4440
740
1520
30
20
90
220
2415
1482
971
828
690
622
570
521
463
428
379
348
324
289
265
241
230
214
200
187
173
163
150
137
126
118
107
99
92
85
81
77
71
64
55
47
43
29
MMI Zn ppb
Scale 1:25000
250 0 250 500 750
(metres)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR, JT Claims Rancheria Area
MMI Zn ppb horizon 1
December 27, 2007



Blue square - rock sample location
Black plus - soils sample location

Scale 1:25000

250 0 250 500 750

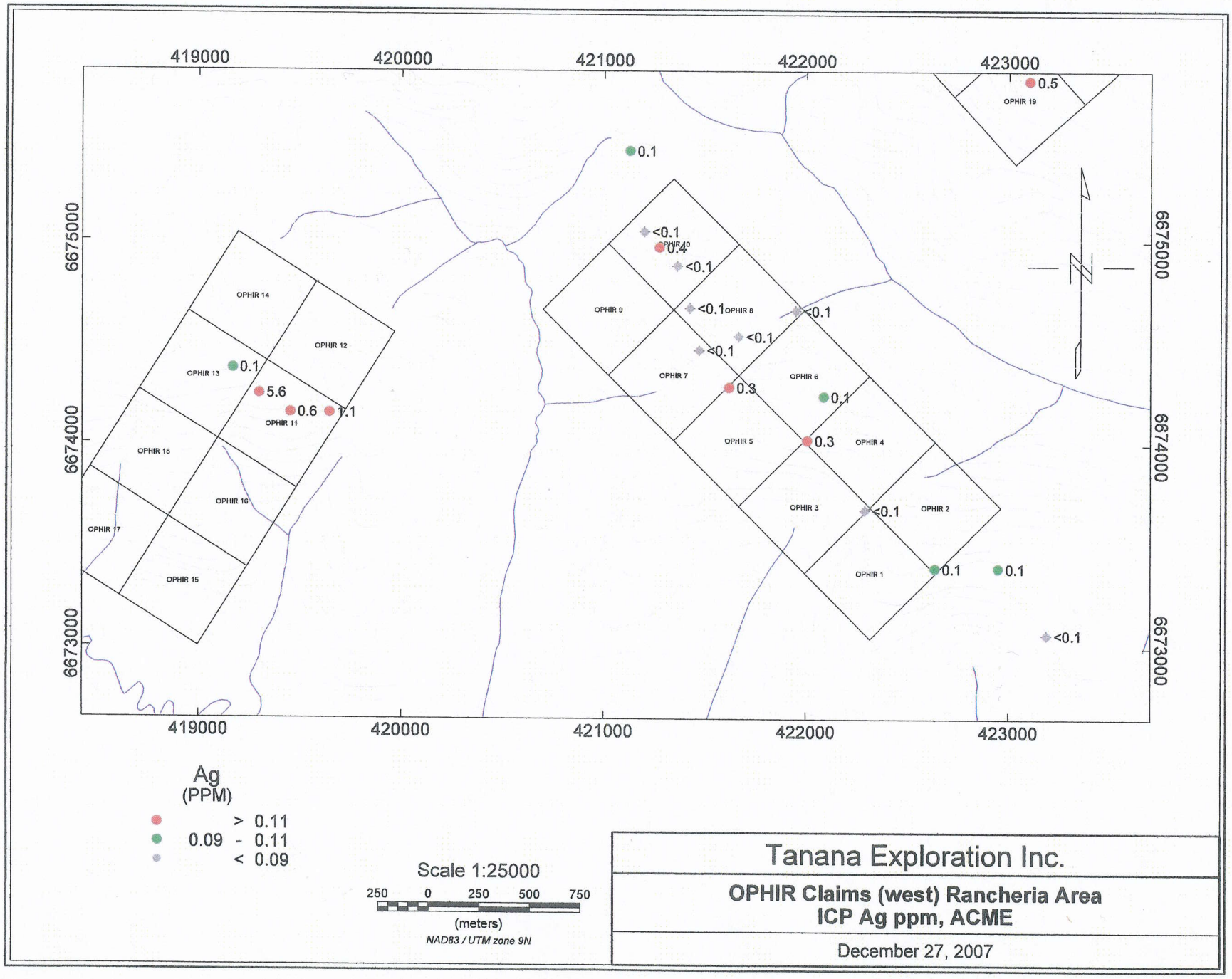
(meters)

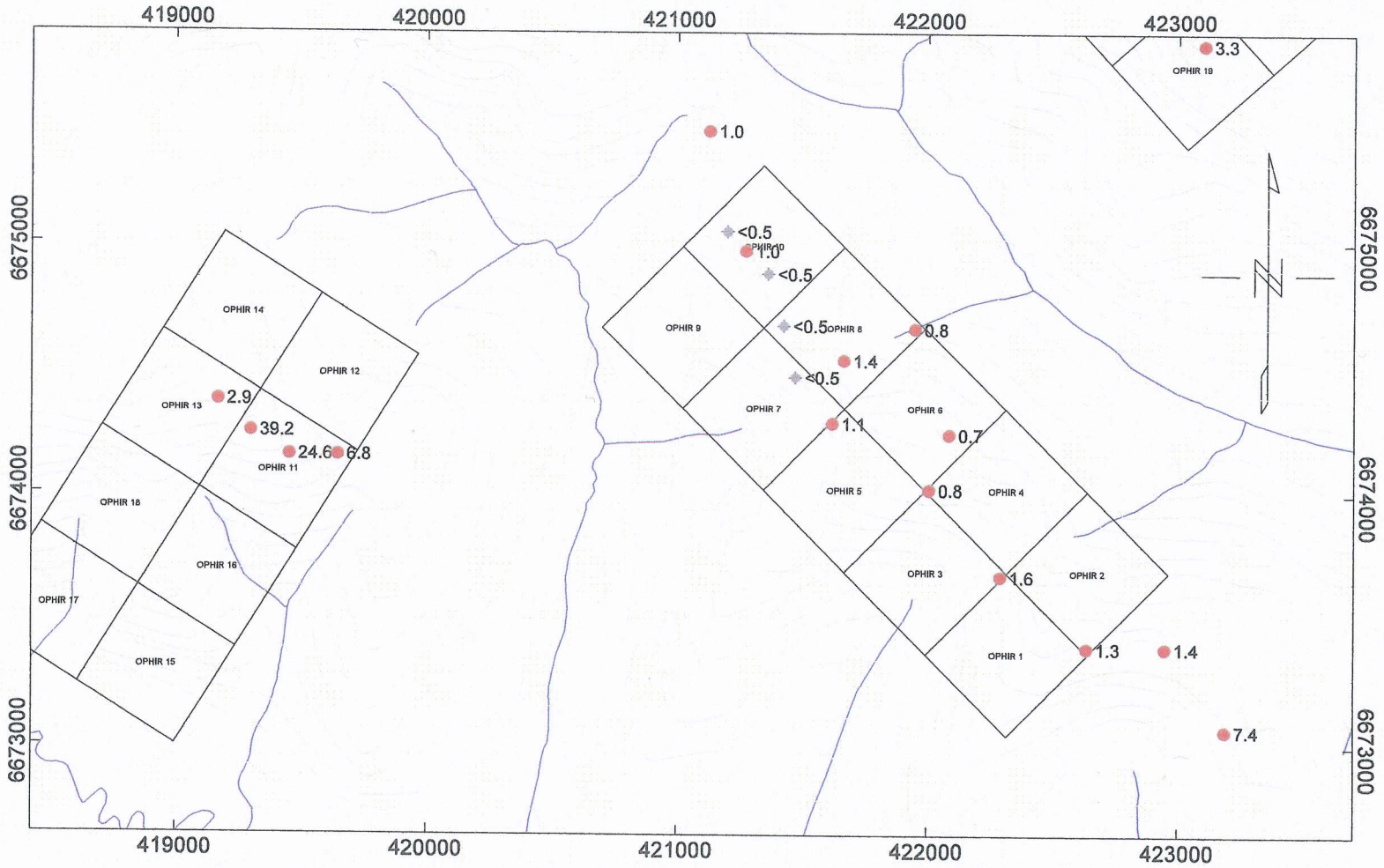
NAD83 / UTM zone 9N

Tanana Exploration Inc.

OPHIR Claims (west) Rancheria Area
Soil Sample Locations for MMI and ICP Surveys
Rock Sample Locations

January 6, 2008

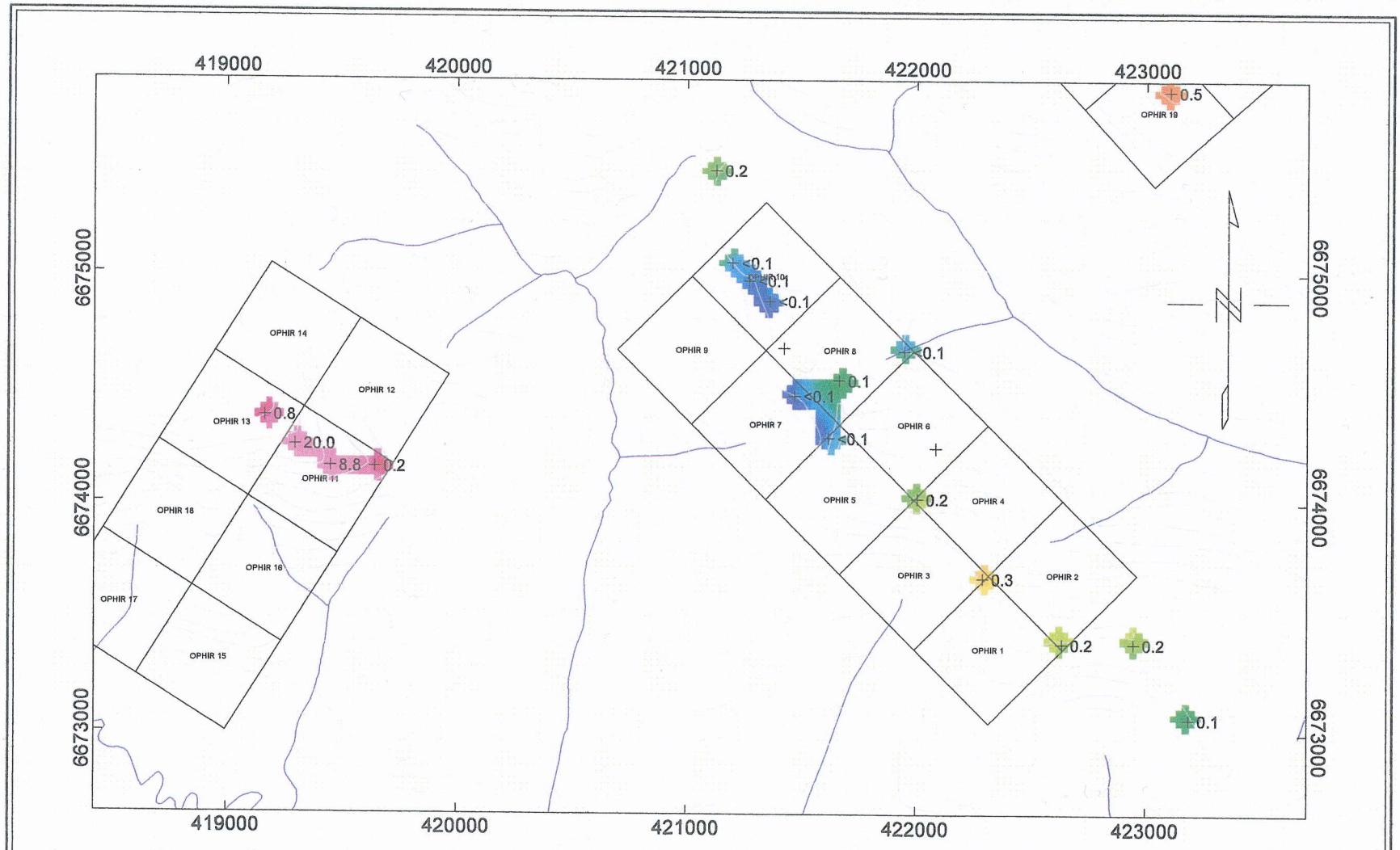

419000
420000
421000
422000
423000
6675000
6674000
6673000
OPHIR 19
0.5
0.1
OPHIR 10
<0.1
0.4
<0.1
OPHIR 9
<0.1
OPHIR 8
<0.1
<0.1
<0.1
OPHIR 7
OPHIR 6
0.3
0.1
OPHIR 5
0.3
OPHIR 4
OPHIR 3
<0.1
OPHIR 2
OPHIR 1
0.1
0.1
<0.1
OPHIR 14
OPHIR 12
OPHIR 13
0.1
5.6
0.6
1.1
OPHIR 11
OPHIR 18
OPHIR 16
OPHIR 17
OPHIR 15
Ag
(PPM)
> 0.11
0.09 - 0.11
< 0.09
Scale 1:25000
250 0 250 500 750
(meters)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR Claims (west) Rancheria Area
ICP Ag ppm, ACME
December 27, 2007



Tanana Exploration Inc.

OPHIR Claims (west) Rancheria Area
ICP Au ppb, ACME

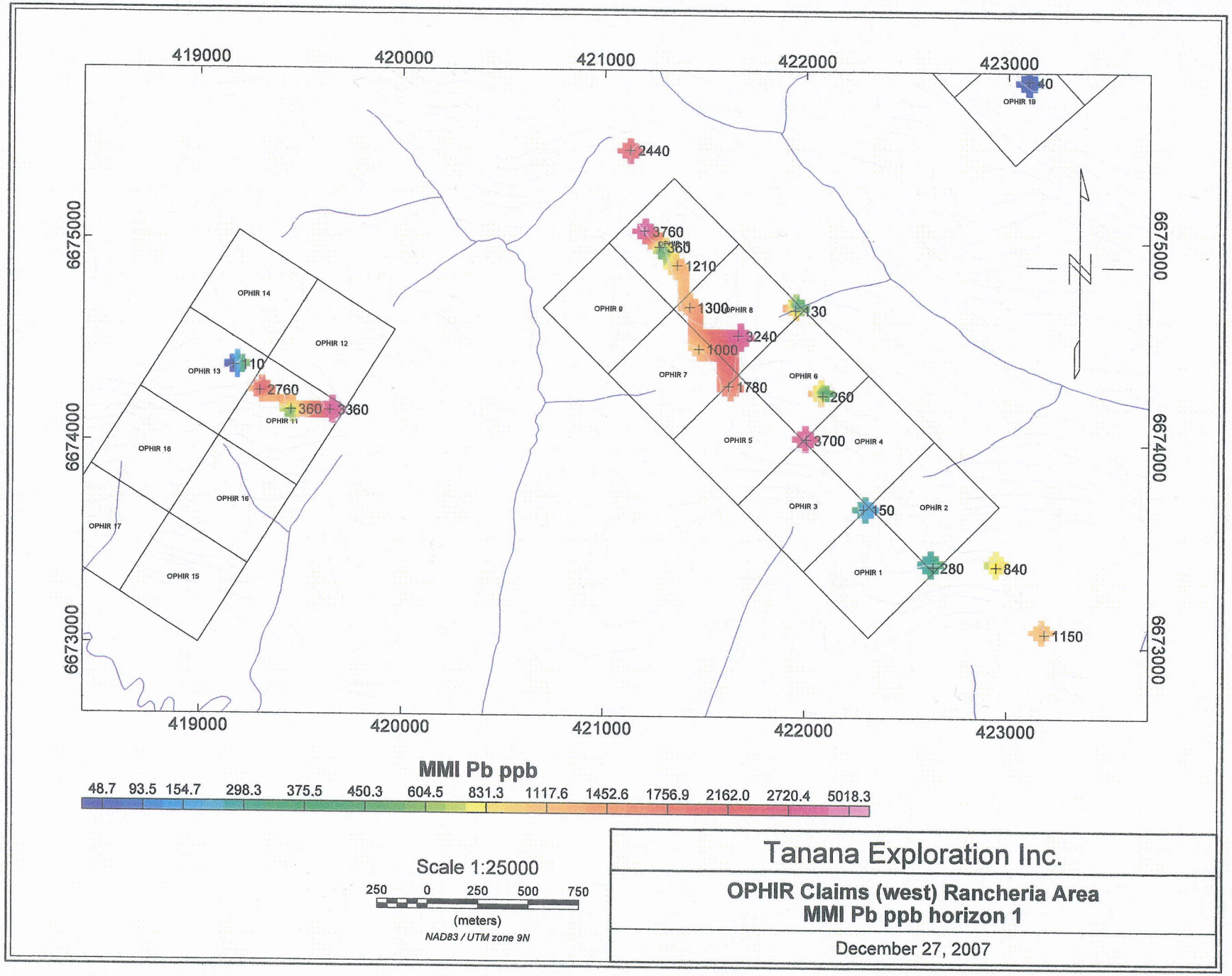
December 27, 2007

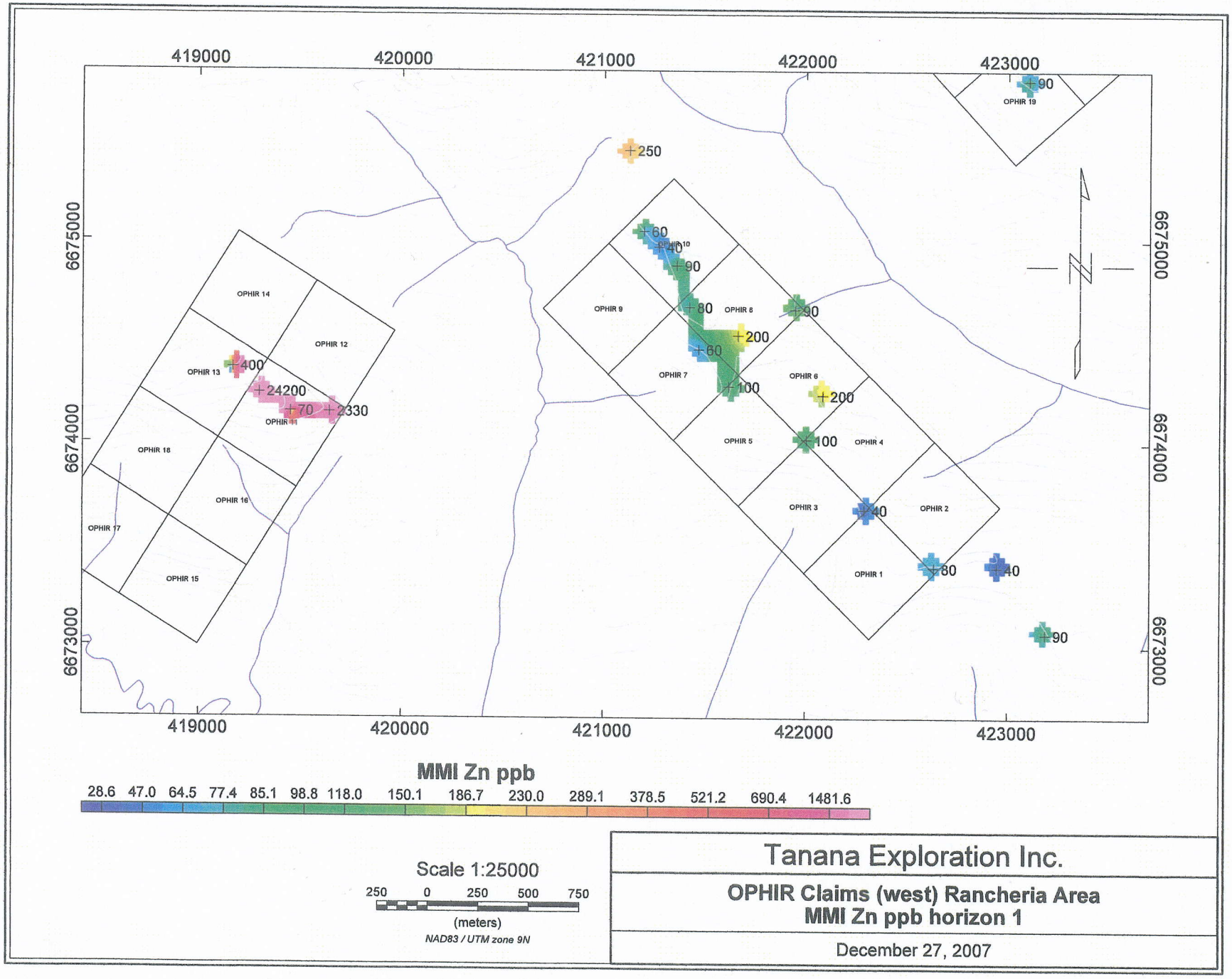


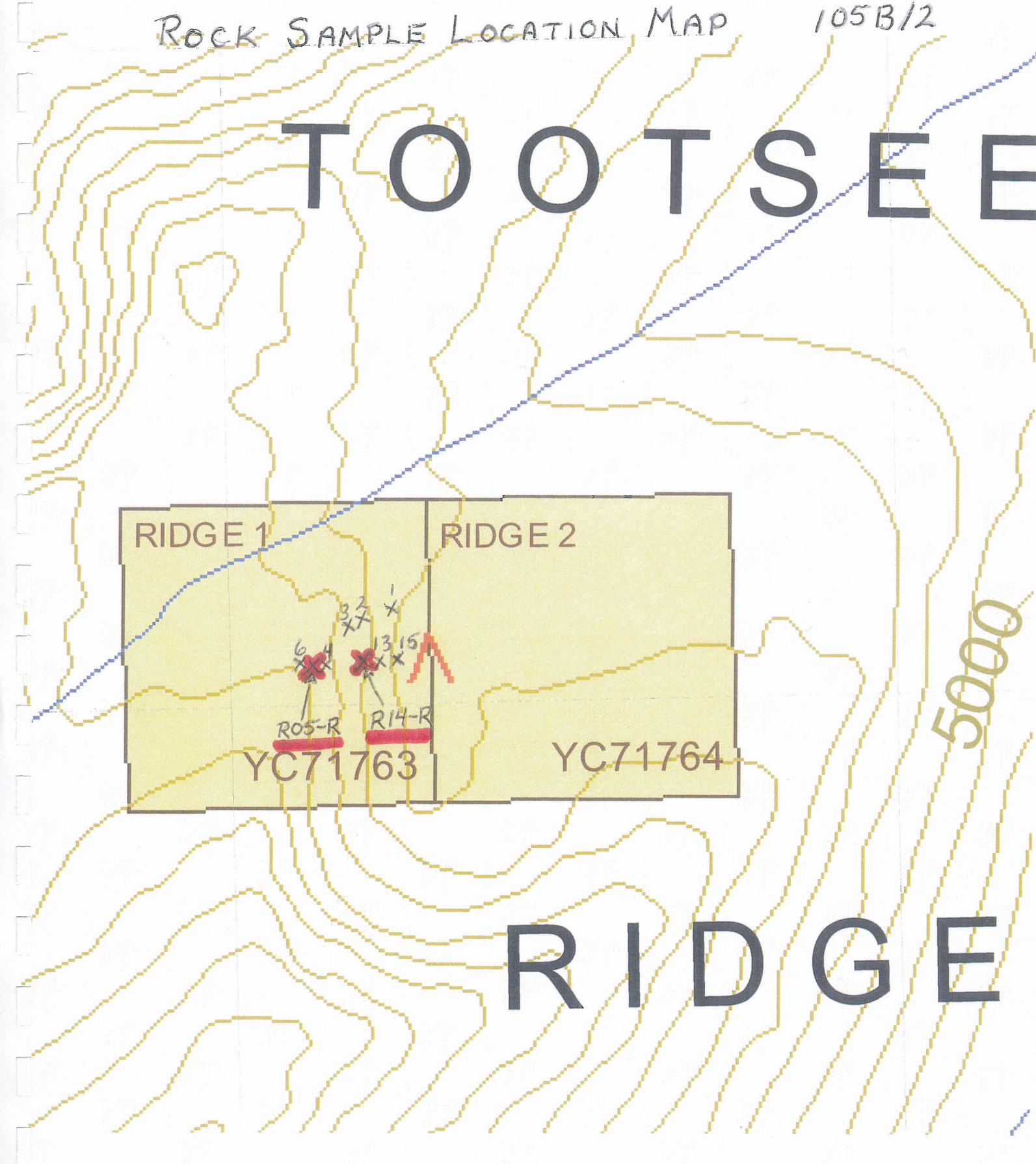
Tanana Exploration Inc.

OPHIR Claims (west) Rancheria Area
MMI Au ppb horizon 3

December 27, 2007


419000
420000
421000
422000
423000
6675000
6674000
6673000
OPHIR 19
OPHIR 14
OPHIR 12
OPHIR 13
OPHIR 11
OPHIR 18
OPHIR 16
OPHIR 17
OPHIR 15
OPHIR 9
OPHIR 8
OPHIR 7
OPHIR 6
OPHIR 5
OPHIR 4
OPHIR 3
OPHIR 2
OPHIR 1
2440
3760
360
1210
1300
130
3240
1000
1780
260
3700
150
280
840
1150
110
2760
360
3360
MMI Pb ppb
48.7 93.5 154.7 298.3 375.5 450.3 604.5 831.3 1117.6 1452.6 1756.9 2162.0 2720.4 5018.3
Scale 1:25000
250 0 250 500 750
(meters)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR Claims (west) Rancheria Area
MMI Pb ppb horizon 1
December 27, 2007


419000
420000
421000
422000
423000
6675000
6674000
6673000
OPHIR 14
OPHIR 12
OPHIR 13
OPHIR 11
OPHIR 18
OPHIR 16
OPHIR 17
OPHIR 15
OPHIR 10
OPHIR 9
OPHIR 8
OPHIR 7
OPHIR 6
OPHIR 5
OPHIR 4
OPHIR 3
OPHIR 2
OPHIR 1
OPHIR 19
400
24200
70
2330
250
60
40
90
80
200
60
100
90
200
100
40
80
40
90
MMI Zn ppb
28.6 47.0 64.5 77.4 85.1 98.8 118.0 150.1 186.7 230.0 289.1 378.5 521.2 690.4 1481.6
Scale 1:25000
250 0 250 500 750
(meters)
NAD83 / UTM zone 9N
Tanana Exploration Inc.
OPHIR Claims (west) Rancheria Area
MMI Zn ppb horizon 1
December 27, 2007

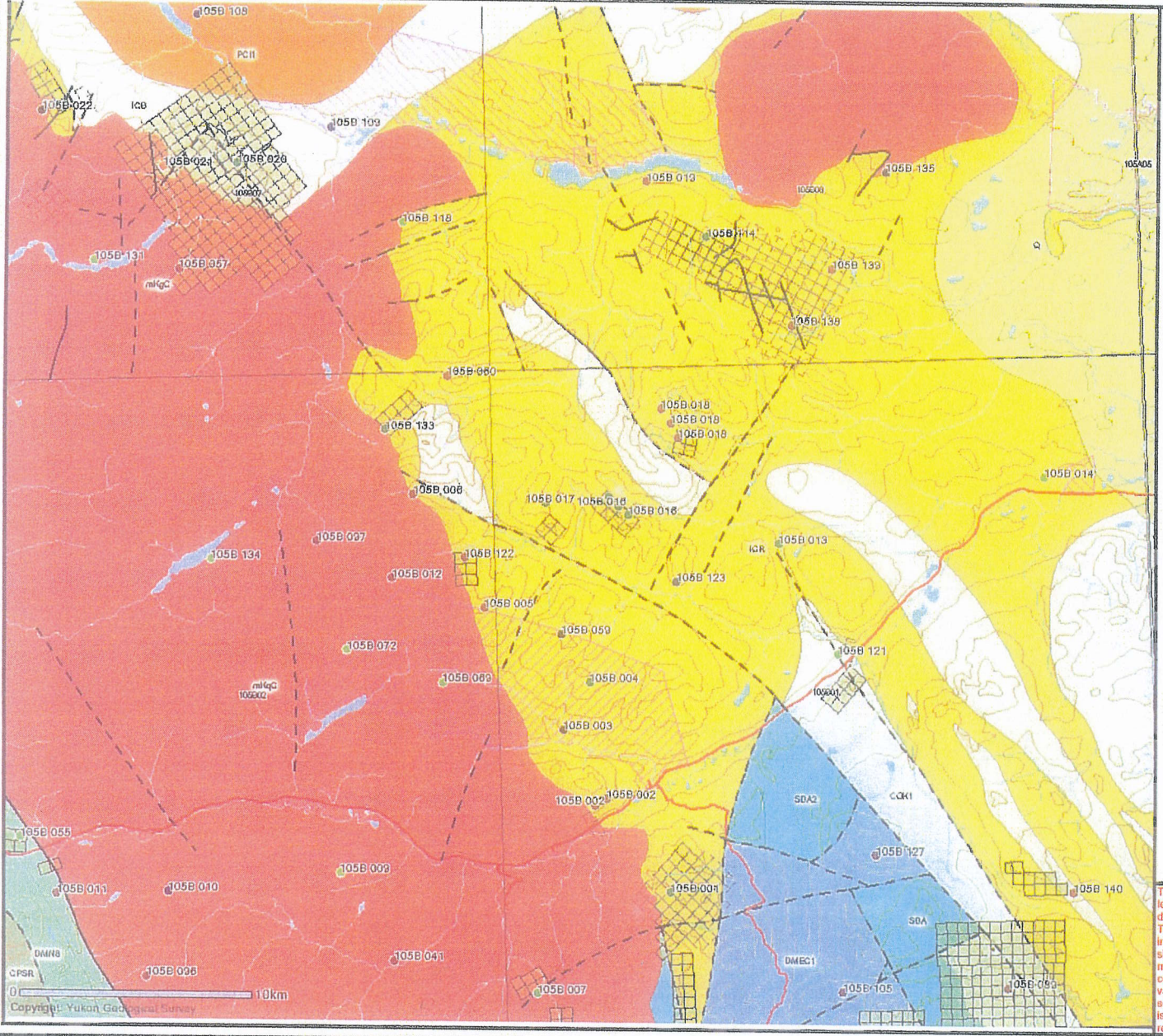

ROCK SAMPLE LOCATION MAP
105B/2
TOOTSEE
RIDGE 1
RIDGE 2
1
2
3
4
6
13
15
R05-R
R14-R
YC71763
YC71764
5000
RIDGE

APPENDIX D

REGIONAL GEOLOGY MAP

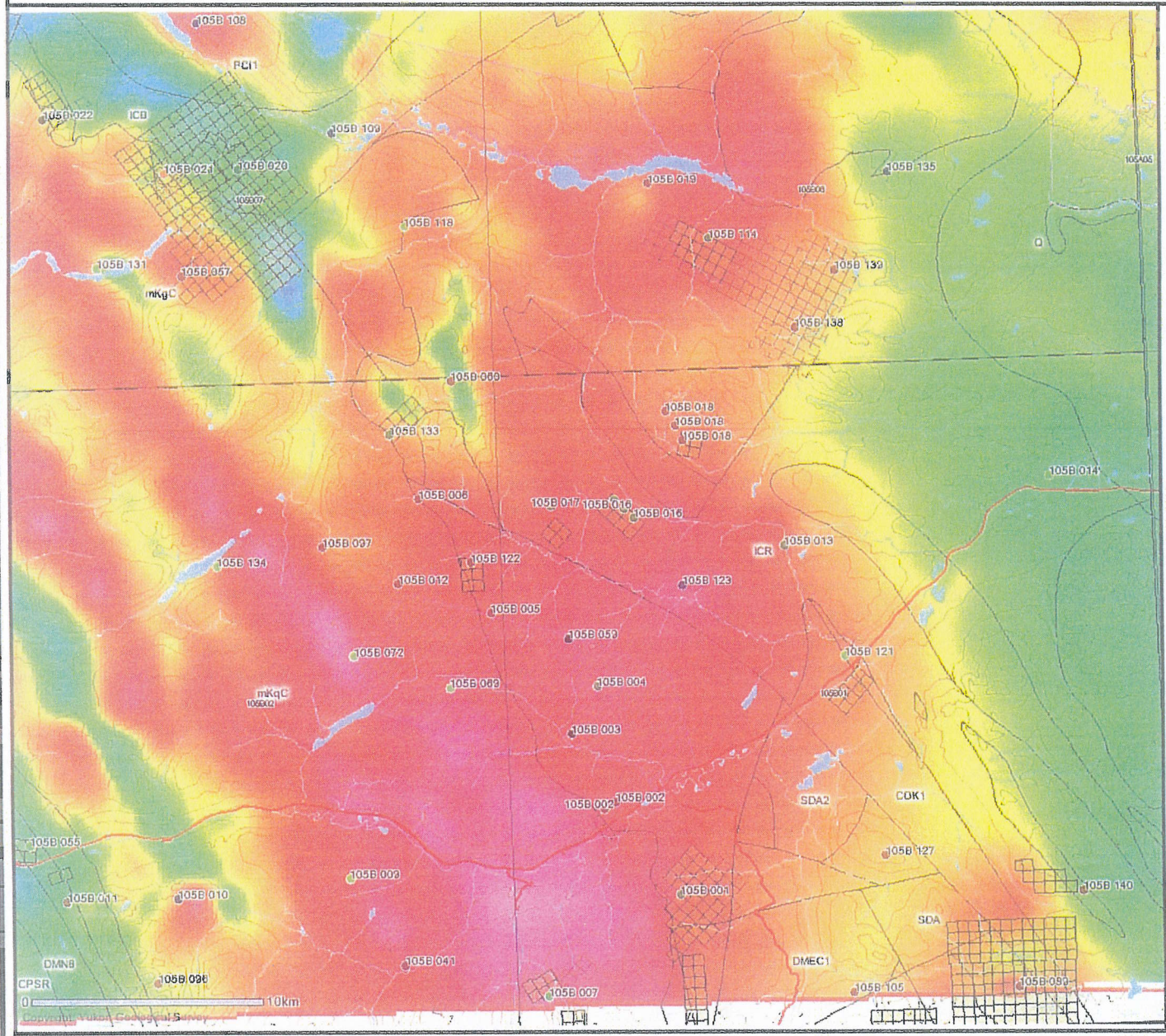
REGIONAL MAGNETIC MAP

Regional Geology - Project Area #1



This is not a legal document. The information shown on this map is compiled from various sources and is subject to revision.

Total Field Magnetics Area #1



This is not a legal document. The information shown on this map is compiled from various sources and is subject to revision.

APPENDIX E

STATEMENT OF QUALIFICATIONS

I, Wade Carrell, of 27 Tutshi Road; Whitehorse, in the Territory of the Yukon,
DO HEREBY CERTIFY:

1. THAT I am a Prospector working independently in Whitehorse, Yukon and that I am a Canadian citizen over the age of nineteen with no net income from mineral production.

2. THAT I have successfully completed the Yukon Chamber of Mines Basic Prospecting Course (1993) and the Advanced Prospecting Course (1994 and 1998).

3. THAT I have been engaged in mineral exploration and mining for 14 years in the Yukon and have work extensively on both hard-rock and placer projects for myself and in the past for 15053 Yukon Inc., 39231 Yukon Inc., Dooley Placer Ltd. and for Tanana Exploration Inc, all of Whitehorse and for Klondike Gold Corporation and CMC Metals Ltd. of Vancouver, B.C.

4. THAT this report is based in part on research that I have completed and discussed with Steve Traynor a geologist with the Yukon Geological Survey and with Scott Casselman a geologist with Aurora Geosciences Ltd.

5. THAT I have personally undertaken the exploration work outlined herein.

SIGNED at Whitehorse, Yukon Territory, this 31st day of December 2007.

Wade S. Carrell

SAMPLE RECORD 0371

Project Name RANCHERIA - SOILS

Sampler's Initials CSG

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6677845	0423860
Lat./Long.		
Line #/Station #	#1 - JT	0371 - 1 - 4
Elevation	(feet)	1549 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	GRASS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	

COMMENTS

Location: POST # 2 J-T #98.10

TOP OF RIDGE

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: RUSTY BROWN SAND, SILT, GRAVEL

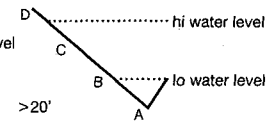
FLOAT IS FLAT ANGULAR COBBLES & CLASTS OF LIME STONE & SHALE

ORG: 1 cm.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 6/10 ~~(inches)~~ cm

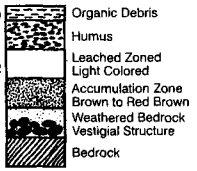
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) LIMESTONE %

190 %

Slope Direction S-E Angle 25°



SAMPLE RECORD 0372

Project Name RANCHERIA - SOILS

Sampler's Initials LSG
Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6677619	0424262
Lat./Long.		
Line #/Station #	#1-JT	0372-1-4
Elevation	(feet)	1587 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	GRASS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	MOSS

COMMENTS

Location: POST #1 J-T #9 & 10

TOP OF RIDGE

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND SILT, GRAVEL & HUMUS ANGULAR CLASTS, COBBLES & BOULDERS OF GREY LIMESTONE
ORG: 40CM

SAMPLE RECORD 0373

Project Name RANCHERIA - SOILS

Sampler's Initials LSG
Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6677273	0424554
Lat./Long.		
Line #/Station #	#1-JT	0373-1-4
Elevation	(feet)	1552 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	GRASS

COMMENTS

Location: POST #1 J-T #7 & 8

TOP OF RIDGE

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & MINOR ORG. CLAST, COBBLES: LIMESTONE
ORG: 20 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

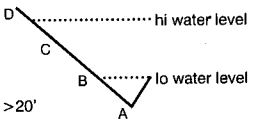
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

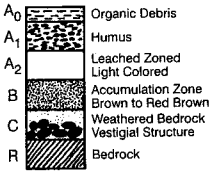
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMESTONE 100 %

____ %

Slope Direction E Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

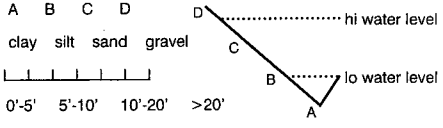
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ____ ____ %

____ ____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ____ To ____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ____ ____

Color ____ Intensity

Alteration ____ Lo Mod Hi

Mineralization ____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

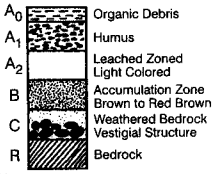
Moisture dry (damp) moist wet

Organics none minor (moderate) high

Float Type(s) LIMESTONE 100 %

____ %

Slope Direction W Angle 10°



SAMPLE RECORD 0375

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6676721	0425286
Lat./Long.		
Line #/Station #	#1-JT	0375-1-4
Elevation	(feet)	1488 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: POST #1 J-T #3 & 4

NORTH SIDE OF RIDGE TOP

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL BROWN SAND, SILT, GRAVEL & HUMUS. ORG: 15cm CLASTS, COBBLES & BOULDERS: LIMEST.

SAMPLE RECORD 0374

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6676976	0424906
Lat./Long.		
Line #/Station #	#1-JT	0374-1-4
Elevation	(feet)	1534 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species GRASS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: POST #2 J-T #3 & 4

NORTH SIDE OF RIDGE

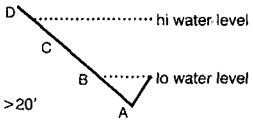
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & HUMUS. ORG: 40cm CLASTS, COBBLES & BOULDERS OF LIMESTONE

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ To ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Intensity

Alteration ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

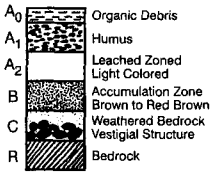
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 100 %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

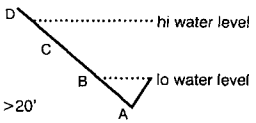
Slope Direction N Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ To ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋

Color ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Intensity

Alteration ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix (Humus) Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

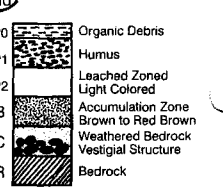
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 100 %

⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋⌊ ⌋ ⌊ ⌋⌊ ⌋ %

Slope Direction NE Angle 15°



SAMPLE RECORD 0377

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6676332 0425612
Lat./Long.	
Line #/Station #	#2-JT 0377-1-4
Elevation	(feet) 1423 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	DWARF BIRCH

COMMENTS

Location: 187 M S OF POST #1 J-T #1

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: RUSTY BROWN SAND, SILT, GRAVEL CLASTS & COBBLES OF LIMESTONE

ONG: 1cm

SAMPLE: 40cm

SAMPLE RECORD 0376

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6676504 0425685
Lat./Long.	
Line #/Station #	#1 - JT 0376-1-4
Elevation	(feet) 1448 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	SPRUCE

COMMENTS

Location: POST #1 J-T #1 & 2 EAST END OF RIDGE TOP

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: RUSTY BROWN SAND, SILT, GRAVEL & MINOR ORGANICS.

ONG: 10 CM

SAMPLE: 40 CM

CLASTS, COBBLES, LIMESTONE

ICP TAKEN @ 50-60 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

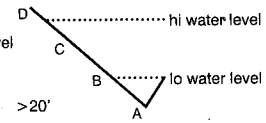
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

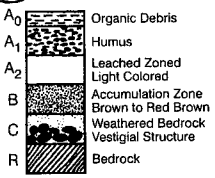
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction S Angle 05°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

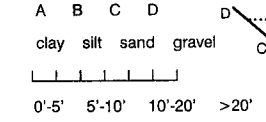
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

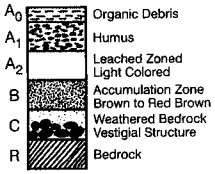
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction S Angle 15°



SAMPLE RECORD 0378

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6677638	0424022
Lat./Long.		
Line #/Station #	#3-JT	0378-1-4
Elevation	(feet)	1533 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 265 m SE of Post #2

J-T #9

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: RUSTY BROWN SAND, SILT & GRAVEL
ORG: 2cm
ANGULAR CLASTS OF LIMESTONE

ICP SAMPLE TAKEN @ 40-50cm

SAMPLE RECORD 0379

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6677670	0423975
Lat./Long.	#	
Line #/Station #	#3-JT	0379-1-4
Elevation	(feet)	1531 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species Moss

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 209 m SE of Post #2

J-T #9

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

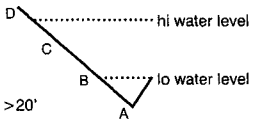
OUTWASH TILL RUSTY BROWN SAND, SILT, GRAVEL
ORG: 1 cm
CLASTS & COBBLES OF FLAT ANGULAR LIMSTONE,

ICP sample @ 40-50cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

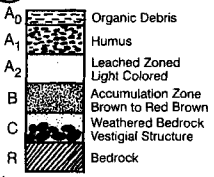
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMESTONE 100 %

⌊ ⌋ ⌊ ⌋ %

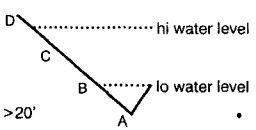
Slope Direction SOUTH Angle 20 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

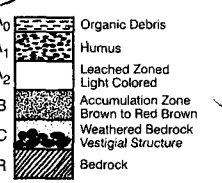
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction SOUTH Angle 30 °



SAMPLE RECORD 0380

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6677698	0423930
Lat./Long.		
Line #/Station #	#3-JT	0380-1-4
Elevation	(feet)	1547 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	GRASS

COMMENTS

Location: 168 M. SE OF POST #2

J-T #9

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: TAN SAND SILT & GRAVEL.
ORGANICS: 1 CM
ANGULAR CLASTS OF GREY & WHITE LIMESTONE

ICP SAMPLE @ 40-50 CM.

SAMPLE RECORD 0381

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 22 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6677720	0423879
Lat./Long.		
Line #/Station #	#3-JT	0381-1-4
Elevation	(feet)	1531 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	GRASS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	MOSS

COMMENTS

Location: 128 M. SE OF POST #2

J-T #9

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: RUSTY BROWN SAND, SILT & GRAVEL
ORGANICS: 2 CM

ANGULAR CLASTS & COBBLES OF GREY & WHITE LIMESTONE

ICP SAMPLE @ 40-50 CM.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

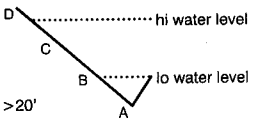
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

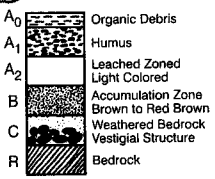
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LMST 100 %

_____ %

Slope Direction SOUTH Angle 25°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

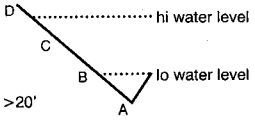
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color TAN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

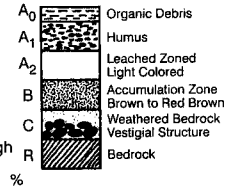
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LMST 100 %

_____ %

Slope Direction SOUTH Angle 15°



SAMPLE RECORD 0383

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6674972	0421271
Lat./Long.		
Line #/Station #	#1 - OPH	0383-1-4
Elevation	(feet)	1453 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 159 m E of POST #2 OPHIR #10

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL - GREY BROWN SAND, SILT, GRAVEL - MINOR ORG.

ORG: 20cm SAMPLE: 40cm

CLASTS, PHYLLITIC SCHIST.

ICP SAMPLE: 40-50 cm

SAMPLE RECORD 0382

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6675051	0421197
Lat./Long.		
Line #/Station #	#1 - OPH	0382-1-4
Elevation	(feet)	1457 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 68 m SE of POST # 2 OPHIR #10

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & MINOR ORG.

ORG: 4cm. SAMPLE DEPTH: 40cm

CLASTS OF ARGILLACEOUS BIOTITE SCHIST.

BEDROCK AT BOTTOM OF PIT

ICP SAMPLE: 40-50 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

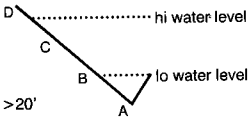
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

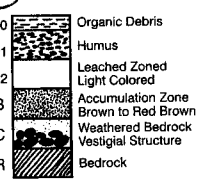
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction WEST Angle 20°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

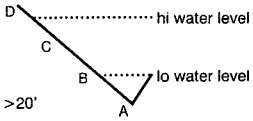
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ cm

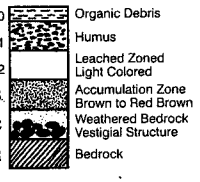
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) SCHIST 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction SW Angle 15°



SAMPLE RECORD 0384

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6674881	0421360
Lat./Long.		
Line #/Station #	#1-OPH	0384-1-4
Elevation	(feet)	1470 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	BALSAM - SPRUCE

COMMENTS

Location: 286 M. E OF POST #2 OPHIR #10

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN, SAND, SILT, GRAVEL & MINOR ORGANICS. CLASTS OF ANGULAR RUSTY PHYLITE TO BOTTOM OF PIT ON BEDROCK ORG: 4CM SAMPLE: 40cm.

ICP SAMPLE @ 40cm.

SAMPLE RECORD 0385

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6674676	0421423
Lat./Long.		
Line #/Station #	#1-OPH	0385-1-2
Elevation	(feet)	1468 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	GRASS

COMMENTS

Location: 80 M N OF POST #2 OPHIR #8

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, ORG & GRAVEL. ORG: 2 CM SHALLOW PIT 22cm TO BEDROCK CLASTS & COBBLES OF RUSTY GREY PHYLITIC SCHIST.

ICP TAKEN @ 22 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

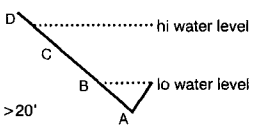
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color ⌊ Brown ⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊ 22 ⌋ (~~inches~~) cm

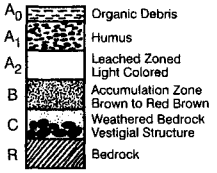
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊ PHYLLITE ⌋ 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction ⌊ SW ⌋ Angle ⌊ 15 ⌋ °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

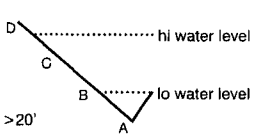
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color ⌊ Brown ⌋

Horizon A_0 A_1 A_2 (B) C R

Sample Depth ⌊ 40 ⌋ (~~inches~~) cm

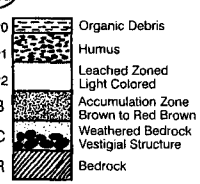
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) ⌊ PHYLLITE ⌋ 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction ⌊ N ⌋ Angle ⌊ 05 ⌋ °



SAMPLE RECORD 0386

Project Name RANCHERIA - SOILS

Sampler's Initials WSG
Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6674469 0421469
Lat./Long.
Line #/Station # #1 - OPH 0386-1-4
Elevation (feet) 1435 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species BALSAM - SPRUCE

COMMENTS

Location: 227 M E OF POST #2 OPH IN #8

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & MINOR ORGANICS
ORGANICS: 10 CM BEDROCK: 40 CM
CLASTS OF ANGULAR RUSTY PHYLITE.
ICP SAMPLE @ 40 cm

SAMPLE RECORD 0387

Project Name RANCHERIA - SOILS

Sampler's Initials WSG
Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6674536 0421664
Lat./Long.
Line #/Station # #2 OPHIR 0387-1-4
Elevation (feet) 1420 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species GRASS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species BALSAM - SPRUCE

COMMENTS

Location: 237 M NORTH OF POST # 1 OPHIR #8

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

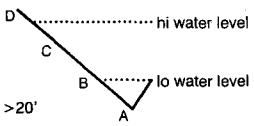
OUTWASH TILL: BROWN - SAND, SILT, GRAVEL & ORGANICS.
ORG: 5 CM PIT: 55 CM
ANGULAR CLASTS OF RUSTY GREY PHYLITIC SCHIST

ICP TAKEN @ 55 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 55 (inches) CM

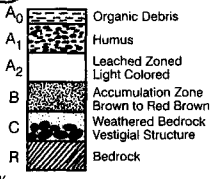
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

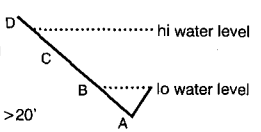
Slope Direction EAST Angle 10 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

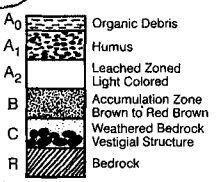
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction S Angle 20 °



SAMPLE RECORD 0388

Project Name RANCHERIA - SOILS

Sampler's Initials WSC
Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E 6674664 0421948
Lat./Long.
Line #/Station # #2 - OPH 0388-1-4
Elevation (feet) 1352 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species WILLOWS

COMMENTS

Location: 480 m N OF POST # 1

OPHIR # 8

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUTWASH TILL: GREY SAND, SILT, GRAVEL & ORG
ORG: 5 CM PIT: 55 CM
CLASTS & COBBLES OF RUSTY GREY PHYLITIC SCHIST

ICP TAKEN @ 55 CM

SAMPLE RECORD 0389

Project Name RANCHERIA - SOILS

Sampler's Initials WSC
Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E
UTM/N/E
Lat./Long.
Line #/Station #
Elevation (feet) 1455 (meters)
Sample Type Rock (Soil) Sediment Standard Blank
Sample Collection (Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #
Contamination absent (weak) moderate strong

VEGETATION

Species MOSS
Organ
Circumference
Slope
Drainage
Outcrop
Other Species

COMMENTS

Location: 24 M S OF POST # 1

OPHIR # 7

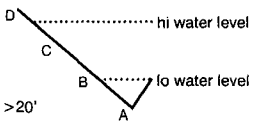
Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)
OUT WASH TILL: GREY SAND, SILT & GRAVEL. ORGANICS: 1 CM
CLASTS OF ANGULAR RUSTY GREY PHYLITIC SCHIST
BED ROCK @ 45 CM

ICP TAKEN @ 45 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color GREY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

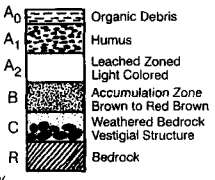
Moisture dry (damp) moist wet

Organics (none) minor moderate high

Float Type(s) PHYLITE 100 %

⌊ ⌋ ⌊ ⌋ %

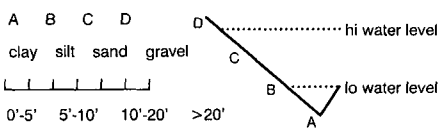
Slope Direction SW Angle 60°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color GREY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 55 ~~(inches)~~ CM

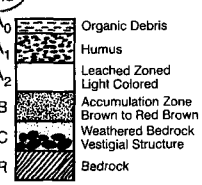
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 29°



SAMPLE RECORD 0390

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6674241	0422085
Lat./Long.		
Line #/Station #	#3-OPH	0390-1-2
Elevation	(feet)	1451 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent weak moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	GRASS

COMMENTS

Location: 236 M NORTH OF POST #1

OPHIR #6

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: GREY SAND, SILT, GRAVEL & ORGANICS

ONG: 20 CM PIT: 40 CM

ICP @ 20-30 CM

SAMPLE RECORD 0391

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6674022	0422004
Lat./Long.		
Line #/Station #	#1-OPH	0391-1-3
Elevation	(feet)	1524 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	

COMMENTS

Location: 7M. NW OF POST #1

OPHIR #5 & 6

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & ORG. ORG: 5 CM

PIT: 35 CM TO BEDROCK

CLASTS OF ANGULAR PHYLLITE TO BEDROCK.

ICP TAKEN @ 35 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

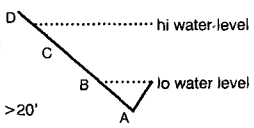
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 35 ~~(inches)~~ CM

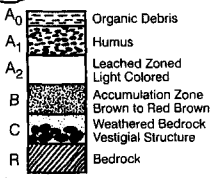
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 00 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

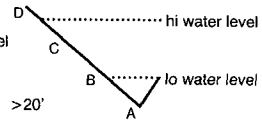
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color GREY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

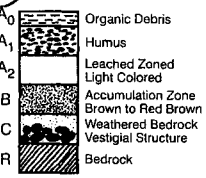
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction N Angle 15 °



SAMPLE RECORD 0392

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6673679	0422290
Lat./Long.		
Line #/Station #	#1-OPH	0392-1-4
Elevation	(feet)	1487 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent weak moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	

COMMENTS

Location: 30 m S OF POST #1

OPHIR #3

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & ORG: 2 cm

CLASTS OF ANGULAR RUSTY GREY PHYLITIE TO 4/7 CM & BEDROCK.

ICP TAKEN @ 4/0 CM.

SAMPLE RECORD 0393

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6673394	0422634
Lat./Long.		
Line #/Station #	#1-OPH	0393-1-3
Elevation	(feet)	1500 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	GRASS

COMMENTS

Location: 20m NW OF POST #1

OPHIR #2

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT & GRAVEL. ORG: 7.5 CM

PIT: 37.5 CM TO BEDROCK.

CLASTS OF ANGULAR RUSTY GREY PHYLITE TO BEDROCK.

ICP TAKEN @ 37 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

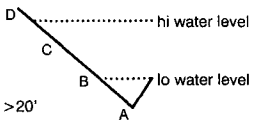
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 37 ~~(inches)~~ CM

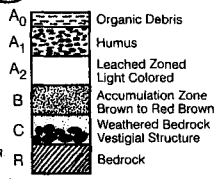
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZITE 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction S ⌊_⌋⌊_⌋ Angle 25 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

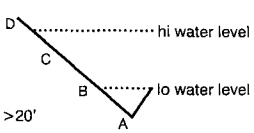
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊_⌋⌊_⌋⌊_⌋⌊_⌋ To ⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋

Color ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Intensity

Alteration ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Mineralization ⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 ~~(inches)~~ CM

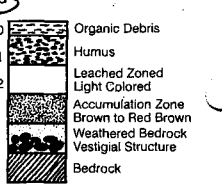
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QUARTZITE 100 %

⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋⌊_⌋ ⌊_⌋⌊_⌋ %

Slope Direction S W ⌊_⌋⌊_⌋ Angle 40 °



SAMPLE RECORD 0394

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6673394	0422947
Lat./Long.		
Line #/Station #	#1	0394-1-3
Elevation	(feet)	1492 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species GRASS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species DWARF BIRCH

COMMENTS

Location: 300 M EAST OF POST #1 OPHIR #1 & 2

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: GREY BROWN SAND, SILT, GRAVEL & ORGANICS ORG: 7.5 CM PIT: 37.5 CM

ANGULAR CLASTS OF RUSTY GREY PHYLITE TO BEDROCK @ 37.5 CM

ICP TAKEN @ 37 CM

SAMPLE RECORD 0395

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6673067	0423186
Lat./Long.		
Line #/Station #	#1-OPH	0395-1-3
Elevation	(feet)	1457 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species

COMMENTS

Location: 620 M EAST OF POST #1 OPHIR #1 & 2

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

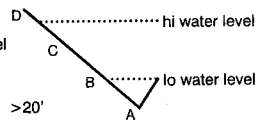
OUTWASH TILL: RUSTY BROWN SAND, SILT, GRAVEL & ORGANICS: 2cm CLASTS OF RUSTY GREY PHYLITE TO BEDROCK @ 32 CM

ICP TAKEN @ 32 CM.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 32 ~~(inches)~~ CM

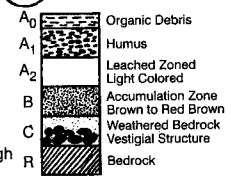
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

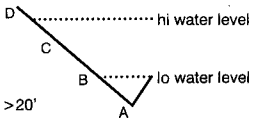
Slope Direction N Angle 05°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 B (C) R

Sample Depth 37 ~~(inches)~~ CM

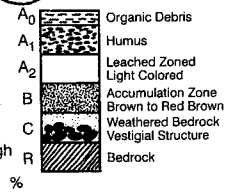
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction EAST Angle 05°



SAMPLE RECORD 0396

Project Name RANCHERIA - SOILS

Sampler's Initials WSG
Date 26 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6675451	0421124
Lat./Long.		
Line #/Station #	#1-OPH	0396-1-4
Elevation	(feet)	1409 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	BALSAM

COMMENTS

Location: 404 M NW OF POST #2

OPHIN #10

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & ORGANICS: 3 CM CLASTS & COBBLES OF ANGULAR RUSTY GREY PHYLITIC SCHIST TO BOTTOM OF PIT @ 48 CM

ICP TAKEN @ 48 CM.

SAMPLE RECORD 0397

Project Name RANCHERIA - SOILS

Sampler's Initials WSG
Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6676639	0422553
Lat./Long.		
Line #/Station #	#4-OPH	0397-1-4
Elevation	(feet)	1686 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank	
Sample Collection	(Single Site) Composite Sites Duplicate Replicate	
Std./Blank/Dup #		
Contamination	absent (weak) moderate strong	

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	GRASS

COMMENTS

Location: 100 M NE OF POST #2

OPHIN #24

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

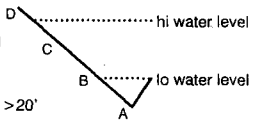
OUTWASH TILL: RUSTY BROWN SAND, SILT, GRAVEL & MINOR ORG/ CLASTS, COBBLES & BOULDERS OF LIMESTONE & QUARTZITE. ORG: 2CM PIT: 45CM

ICP SAMPLE @ 60 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ CM

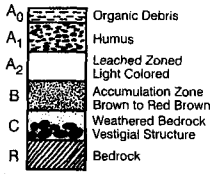
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QTZITE 50 %

LIMEST 50 %

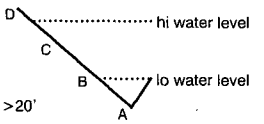
Slope Direction NE Angle 40°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊ ⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊ ⌋ ⌊ ⌋ %

⌊ ⌋ ⌊ ⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊ ⌋ To ⌊ ⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊ ⌋ ⌊ ⌋

Color ⌊ ⌋ Intensity

Alteration ⌊ ⌋ Lo Mod Hi

Mineralization ⌊ ⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 48 ~~(inches)~~ CM

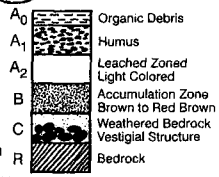
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLITE 100 %

⌊ ⌋ ⌊ ⌋ %

Slope Direction WEST Angle 10°



SAMPLE RECORD 0398

Project Name RANCHERIA T SOILS

Sampler's Initials OSC

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6675354	0424166
Lat./Long.		
Line #/Station #	#4-OPH	0398-1-4
Elevation	(feet)	1567 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 858 M EAST OF POST #1 OPHIR #19 & 20

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: RUSTY BROWN - TAN SAND, SILT, GRAVEL & ORG: 10cm ANGULAR CLASTS OF QTZITE & DIORITE. PIT: 50 CM

ICP TAKEN @ 50 CM

SAMPLE RECORD 0399

Project Name RANCHERIA T SOILS

Sampler's Initials OSC

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6675806	0423100
Lat./Long.		
Line #/Station #	#4-OPH	0399-1-4
Elevation	(feet)	1666 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 320 M NW OF POST #1 OPHIR #19 & 20

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ORG: 2 CM PIT: 45 CM

OUTWASH TILL: BROWN SAND, SILT, GRAVEL & ORGANICS. ANGULAR CLASTS & COBBLES MnO2 STAINED LIMESTONE & QTZ.

ICP TAKEN @ 45 CM

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

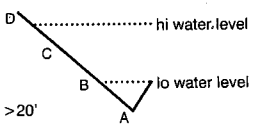
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ CM

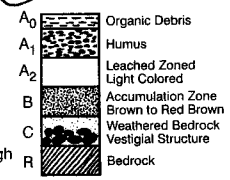
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 50 %

QTZ 50 %

Slope Direction NE Angle 10°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

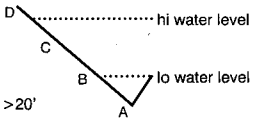
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ CM

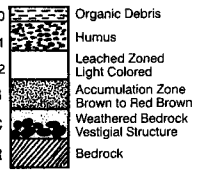
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) QTZITE 50 %

DIORITE 50 %

Slope Direction EAST Angle 02°



SAMPLE RECORD 0400

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6676023	0422962
Lat./Long.		
Line #/Station #	#4 - OPH	0400-1-2
Elevation	(feet)	1668 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 114m W OF POST #1 OPHIR #21

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ORG: 20 cm PIT: 40 cm

OUTWASH TILL: BROWN SAND, SILT & GRAVEL. MINOR ORGANICS. ANGULAR CLASTS OF MnO_2 ALTERED LIMESTONE TO 40cm & BEDROCK.

ICP TAKEN @ 35-40 cm.

SAMPLE RECORD 0401

Project Name RANCHERIA - SOILS

Sampler's Initials WSC

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6676316	0422832
Lat./Long.		
Line #/Station #	#4 - OPHIR	0401-1-4
Elevation	(feet)	1672 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 50 m NE OF POST #2 OPHIR #22

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ORG: 1 cm PIT: 45 cm

OUTWASH TILL: RUSTY, BROWN TO SAND, SILT & GRAVEL. MINOR ORG. ANGULAR CLASTS OF GREY LIMESTONE TO 45 cm

ICP TAKEN @ 45 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

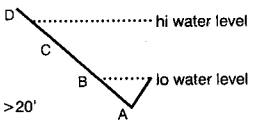
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus (Clay) Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 (inches) CM

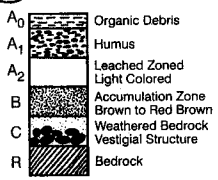
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMESTONE 100 %

_____ %

Slope Direction NORTH Angle 05°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

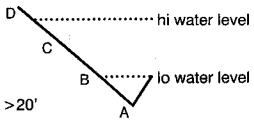
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ %

_____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 40 (inches) CM

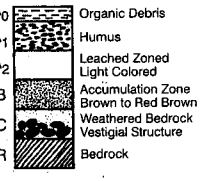
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMESTONE 100 %

_____ %

Slope Direction NE Angle 05°



SAMPLE RECORD 0402

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6676418	0421486
Lat./Long.		
Line #/Station #	#4-OPH	0402-1-4
Elevation	(feet)	1493 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species BALSAM - SPRUCE

COMMENTS

Location: 990 M SW OF POST #2

OPHIR #23

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ORG: 3 cm PIT: 45 cm

OUTWASH TILL: BROWN SAND, SILT & GRAVEL. MINOR ORG. ANGULAR CLASTS & COBBLES OF RUSTY GREY PHYLITIC SCHIST, TO BEDROCK @ 45 cm

ICP TAKEN @ 40 cm

SAMPLE RECORD 0403

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6676460	0421150
Lat./Long.		
Line #/Station #	#4-OPH	0403-1-3
Elevation	(feet)	1497 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species BALSAM

COMMENTS

Location: 1.31 KM NW OF POST #2

OPHIR #23

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ORG: 2 cm PIT: 30 cm

OUTWASH TILL: BROWN SAND, SILT & GRAVEL. MINOR ORGANICS. ANGULAR CLASTS OF RUSTY GREY PHYLITE TO BEDROCK @ 30 cm.

ICP TAKEN @ 25-30 cm.

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

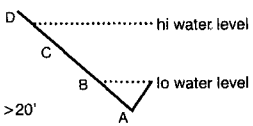
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 30 ~~(inches)~~ CM

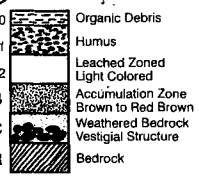
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLITE 100 %

⌊_____⌋ ⌊__⌋ %

Slope Direction EAST Angle 15°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

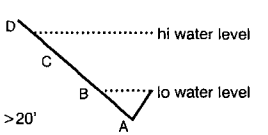
Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 45 ~~(inches)~~ CM

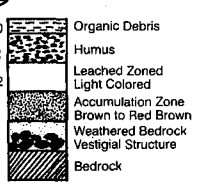
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLITE 100 %

⌊_____⌋ ⌊__⌋ %

Slope Direction S W Angle 05°



SAMPLE RECORD 0405

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6674156	0419449
Lat./Long.		
Line #/Station #	#5 - OPH	0405-1-4
Elevation	(feet)	1480 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species SPRUCE

COMMENTS

Location: 202 m W of OPHIR #11 POST #1

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

ORG: 30 cm PIT: 65 cm
OUTWASH TILL: BROWN SAND, SILT & GRAVEL
ANGULAR CLASTS OF RUSTY GREY LIMESTONE & SHALE.

ICP @ 65 cm

SAMPLE RECORD 0404

Project Name RANCHERIA - SOILS

Sampler's Initials WSG

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E		
UTM/N/E	6674154	0419643
Lat./Long.		
Line #/Station #	#5 - OPH	0404
Elevation	(feet)	1451 (meters)

Sample Type Rock (Soil) Sediment Standard Blank

Sample Collection (Single Site) Composite Sites Duplicate Replicate

Std./Blank/Dup #

Contamination absent (weak) moderate strong

VEGETATION

Species MOSS

Organ

Circumference

Slope

Drainage

Outcrop

Other Species GRASS

COMMENTS

Location: 1150 m NW of POST #1 OPHIR #12

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: RUSTY BROWN SAND, SILT, GRAVEL
ORG: 7 cm PIT: 57 cm
ANGULAR CLASTS OF RUSTY SHALE & LIMESTONE / FUCHSITE

ICP @ 57 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

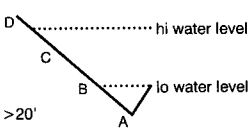
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color RUSTY

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 57 ~~(inches)~~ CM

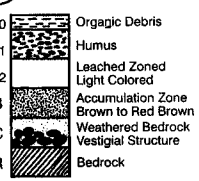
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 50 %

SHALE 50 %

Slope Direction EAST Angle 30°



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D

Matrix clay silt sand gravel

Color _____

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

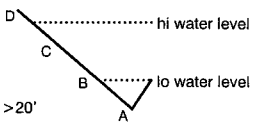
Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) _____ % _____ %



ROCK

Media Grab Chip Channel Cuttings Core Sludge

From _____ To _____

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology _____

Color _____ Intensity

Alteration _____ Lo Mod Hi

Mineralization _____ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 65 ~~(inches)~~ CM

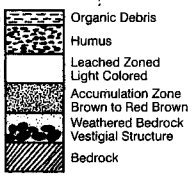
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 50 %

SHALE 50 %

Slope Direction S Angle 15°



SAMPLE RECORD 0407

Project Name

Sampler's Initials

Date (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6674375 / 0419164
Lat./Long.	
Line #/Station #	#5-OPH / 0407-1-3
Elevation	(feet) / 1556 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	MOSS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	GRASS

COMMENTS

Location: 86 m W of POST #1

OPHIN #13

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

OUTWASH TILL: BROWN SAND, SILT & GRAVEL. ORG: 5 cm
PIT: 35 cm TO BEDROCK
CLASTS, COBBLES OF ANGULAR RUSTY GREY PHYLITIC SCHIST TO BEDROCK

ICP @ 30 cm.

SAMPLE RECORD 0406

Project Name RANCHERIA T. SOILS

Sampler's Initials WSG

Date 27 08 07 (day/mo/yr)

LOCATION

Grid N/E	
UTM/N/E	6674249 / 0419295
Lat./Long.	
Line #/Station #	#5-OPH / 0406-
Elevation	(feet) / 1588 (meters)
Sample Type	Rock (Soil) Sediment Standard Blank
Sample Collection	(Single Site) Composite Sites Duplicate Replicate
Std./Blank/Dup #	
Contamination	absent (weak) moderate strong

VEGETATION

Species	GRASS
Organ	
Circumference	
Slope	
Drainage	
Outcrop	
Other Species	WILLOW

COMMENTS

Location: 95 m E of POST #2

OPHIN #12

Description: (Lithology, Mineralization, Alteration, Structure, Contamination, etc.)

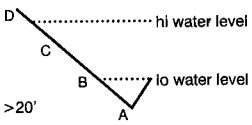
OUTWASH TILL: BROWN SAND, SILT & GRAVEL. ORG: 2 cm
PIT: 50 cm
CLASTS, COBBLES & BOULDERS OF RUSTY LIMESTONE BRETCHIA,

ICP TAKEN @ 50 cm

SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 50 ~~(inches)~~ CM

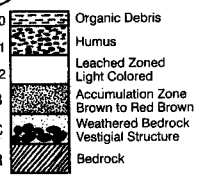
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) LIMEST 100 %

⌊_____⌋ ⌊__⌋ %

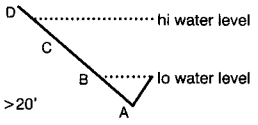
Slope Direction EAST Angle 05 °



SAMPLE RECORD

STREAM SEDIMENT

Media A B C D



Matrix clay silt sand gravel

Color ⌊_____⌋

Stream Width 0'-5' 5'-10' 10'-20' >20'

Stream Volume dry damp stagnant slow moderate fast

Stream Gradient flat shallow moderate steep

Organic Content none minor moderate high

Surface Oxides none FeO MnO Both Other

Outcrop no bedrock bedrock within 100' flows on bedrock

Float Type(s) ⌊_____⌋ ⌊__⌋ %

⌊_____⌋ ⌊__⌋ %

ROCK

Media Grab Chip Channel Cuttings Core Sludge

From ⌊____⌋ To ⌊____⌋

Source Outcrop Float Dump Gossan Vein Fracture Fault

Lithology ⌊_____⌋ ⌊_____⌋

Color ⌊_____⌋ Intensity

Alteration ⌊_____⌋ Lo Mod Hi

Mineralization ⌊_____⌋ Lo Mod Hi

Weathering fresh weak moderate strong saprolite

Fracturing none minor moderate high breccia

SOIL

Media Residual Colluvial Alluvial (Till) Regolith Saprolite

Matrix Humus Clay Loam (Silt) (Sand)

Color BROWN

Horizon A_0 A_1 A_2 (B) C R

Sample Depth 35 ~~(inches)~~ CM

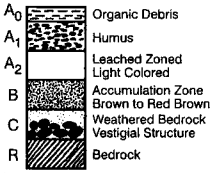
Moisture dry (damp) moist wet

Organics none (minor) moderate high

Float Type(s) PHYLLITE 100 %

⌊_____⌋ ⌊__⌋ %

Slope Direction SE Angle 10 °



July 18/07 Berg Soils

Pit Sample #0368 taken @ 60 cm 100 m E of #0366
Rusty Brown sand, silt & gravel taken to compare to clay rich #0367.

Pit Sample #0369 taken @ 45 cm 20 m West of NE Cat Trench on Berg #8
Rusty Brown sand, silt & gravel

Pit Sample #0370 taken @ 45 cm 60 m S of #0369
Rusty Brown sand, silt & gravel

Ranchlin Region

July 19/07 Ophir Prospect

Ivan & I prospected the Ophir Cat Trenching took Sample #01/07/R-5 from out crop of Manganese Oxide & galena.

01 07 R-6
Sample #06/07/R from MnO_2 & galena in cat trench on Ophir #7

01 07 R-7
Sample #07/07/R from MnO_2 stains in cat trench on Ophir #11

01 07 R-8
Sample #08/07/R from Fuchite & Limestone on Ophir #12

01 07 R-9
Sample #09/07/R from Qtz vein in Fuchite & Limestone on Ophir #12

01 07 R-10
Sample #10/07/R from Red Calcite Breccia in cat trench on J-T #8

01 07 R-11
Sample #11/07/R from yellow Calcite Breccia on J-T #7

FIELD

July 20/07

I STAKED J-T #1 TO #10

IVAN STAKED OPHIR #11 TO #18

WE WENT TO WATSON LAKE TO REGISTER CLAIMS & REFUEL.

RETURNED TO RANCHERIA

TOOK SAMPLE #01/07/R-12 FROM MnO2 & GALENA IN PHYLLITE ON OPHIR #8

RETURNED TO CAMP @ 7:30pm.

WEATHER: HEAVY RAIN

SAMPLE # 01/07/R-13 TAKEN FROM PYRITIC QTZ VEIN IN PHYLLITE & LIMESTONE ON RIDGE NORTH OF J.T. CLAIMS.

July 21/07

IVAN & I PROSPECTED THE MS #7 & 8 CLAIMS

TOOK 100 Lbs OF ROCK SAMPLES FROM THE QUARTZITE OUTCROPS & BOULDERS FOR SID ROCK TO TEST

RETURNED TO CAMP AT 7:PM

WEATHER: BROKEN CLOUD - WARM

RENHALL MADE IN CANADA ACQUA PROOF

FIELD

July 22/07

De mobilized at Meisten Camp

Returned to Whitehorse.

Aug 13/07 RANCHERIA

IVAN & I MOBILIZED TO RANCHERIA LODGE & PROSPECTED THE DALE FAULT SOUTHEAST OF RANCHERIA RIVER.

NO SAMPLES TAKEN.

WEATHER: COLD; RAIN

Aug 14/07 RANCHERIA

IVAN & I PROSPECTED SOUTH OF RIDGE #1 & 2, NEAR THE B.C./YUKON BORDER.

UNMINERALIZED GRANITE.

NO SAMPLES TAKEN.

FIELD

Aug 15/07 RANCHERIA

IVAN & I PROSPECTED THE RIDGE #1 & #2 CLAIMS ON THE NORTH END OF TOOTSIE RIDGE

SAMPLE # R01/R TAKEN FROM RUSTY MICASIOUS QTZ VEIN IN THE GRANITE @ 1587 M. ELEVATION.

SAMPLE # R02/R & R03/R TAKEN FROM RUSTY PEGMATITIC QTZ VEINS IN GRANITE @ 1622 M. ON RIDGE #1.

SAMPLE # R04/R TAKEN FROM RUSTY GRANITE. THE OXIDES ARE LEACHING INTO THE ROCK FROM FRACTURES. 1665 M TOP OF RIDGE ON #1 CLAIM

SAMPLE # R05/R TAKEN @ 1666 M FROM QTZ VEIN IN GRANITE. VEIN IS 1 M WIDE VUGGY WITH MnO_2 & OXIDIZED SULFIDES.

Aug 15/07 RANCHERIA

SAMPLE # R06/R TAKEN @ 1671 M ON VEIN STRUCTURE ABOVE LAST SAMPLE. VUGGY MnO_2 & OXIDIZED.

VERTICAL FRACTURES IN THE RIDGE ARE THE PATHWAY FOR QTZ & SULFIDES

THERE ARE TWO MAIN VEIN STRUCTURES STRIKING EAST - WEST ON RIDGE #1 CLAIM.

TILL SAMPLE # R001-S TAKEN AT THE TOP OF THE FRACTURE AT THE SOUTH END OF RIDGE #1 CLAIM

TILL SAMPLE # R002-S TAKEN @ 1561 M 150 M E FROM THE BOTTOM OF THE SOUTH VEIN FAULT. TAN SAND, SILT & GRAVEL.

FIELD

Aug 16/07 RANCHERIA

IVAN & I PROSPECTED THE DALE FAULT EXTENSIONS EAST & WEST OF THE SNOWFLAKE CLAIMS.

SAMPLE # R07-R IS QTZ VEIN WITH MnO_2 & RUSTY SULFIDES FROM GRANITE FAULT ZONE

SAMPLES R08-R & R09-R ARE FRACTURED GRANITE WALL ROCK FROM DALE FAULT EXTENTION WEST OF SNOWFLAKE. THE ROCK IS PENETRATED WITH RUSTY FRACTURES.

SAMPLE # R10-R FRACTURE FILLED GRANITE NORTH OF DALE FAULT & EAST OF FREER CR.

SAMPLE # R11-R TAKEN FROM EAST END OF DALE FAULT RUSTY FRACTURED GRANITE

Aug 16/07

SAMPLE R12-R TAKEN FROM RUSTY GRANITE OUTCROP IN FAULT ZONE WEST OF WILDCAT CLAIMS @ 1531M ON CAT ROAD

Aug 17/07

IVAN & I RETURNED TO THE RIDGE #1 & 2 CLAIMS

TOOK SAMPLE # R13-R FROM THE MAIN VEIN ON RIDGE #1 SOUTH END 30 M ABOVE THE CAT ROAD. SAMPLE IS MnO_2 & ON SPHALERITE & GALENA IN QTZ VEIN & GRANITE WALL ROCK.

SAMPLE # R14-R IS QTZ VEIN WITH GALENA, SPHALERITE & MnO_2 @ 50 M ABOVE THE CAT ROAD

FIELD

Aug 17/07 Ranchhenia

Sample # R15-R taken from vein float 10m above the cat road & 30m South of Main Vein on Ridge #1 sample is milky Qtz with galena & pyrite.

Aug 18/07

Ivan & I prospected North & West of Ridge #1.
No samples taken.

Aug 19/07 Ivan & I mobilized from Ranchhenia to Meister Lake. Staked Ophir #19 - 24

Aug 20/07 Meister Lake

Ivan & I prospected the out-crops on the South side of Meister Lake. No samples taken.

Aug 21/07 Meister Lake

Ivan & I prospected the North West End of Meister Lake.

We traversed North of the Lake. Outcrops on the second bench above the lake were biotite schist. Outcrops on the ridge tops were fractured Quartzite with chromite, fuchite & variable amounts of biotite mica. No mineralization found.

Aug 22/07 Ranchhenia - J-T claims

Ivan & I prospected the J-T claims

Took MMI & ICP tills at the claim posts

Sample # R16-R taken from MnO_2 in trench 639 m W of Post #1 J-T #1 South side of Ridge @ 1461 m. elevation

FIELD

Aug 22/07 RANCHERIA

ROCK SAMPLE #R17-R TAKEN FROM TRENCH 621 M W OF POST #1 J-T #1. @ 1464M ELE. MnO_2, SPHALERITE, GALENA, SIDERITE & OXIDIZED SULFIDE

ROCK SAMPLE #R18-R TAKEN FROM TRENCH 584M W OF POST #1 J-T #1 @ 1471M ELE. MnO_2, SPHALERITE, SIDERITE & OXIDIZED SULFIDES IN QTZ & LIMESTONE.

R19-R TAKEN FROM ALTERED LIMESTONE FLOAT BOULDER WITH QTZ & SULFIDE STOCKWORK VEINS ON CAT TRAIL @ 1506M 70M W OF POST #1 J-T #3

R20-R TAKEN AS CHIP SAMPLE ALONG 6 METERS OF MnO_2 ALTERED LMST. IN OLD CAT TRENCH @ 1503M ON RIDGE TOP 100 M NW OF POST #1 J.T. #4

R21-R TAKEN FROM MnO_2 ALTERED LIMESTONE VEIN STOCKWORK 16.1M SOUTH OF R20-R IN CAT TRENCH

R22-R CHIPPED ACCROSS 1M MnO_2 ALTERED LIMESTONE IN CAT TRENCH @ 1548M ELE. 220M WEST OF R20-R

Aug 23/07

IVAN & I PROSPECTED & SAMPLED THE TRENCHES & SHOWINGS ON THE RIDGE 1.86 KM SOUTH OF THE J.T CLAIMS

R23-R TAKEN FROM QTZ VEIN & MnO_2 ALTERED LIMESTONE IN A CAT TRENCH ON THE OLD JACK TRACE RIDGE. @ 1683M. ELE.

FIELD

Aug 23/07 RANCHERIA

R24-R TAKEN FROM QTZ VEIN & MnO_2 ALTERED LIMESTONE IN CAT TRENCH @ 1680 M ON RIDGE TOP 40 M SE OF LAST SAMPLE. TRENCH IS 20 M LONG x 5 M WIDE. QTZ VEIN & ALTERATION IS 4 M. WIDE

R25-R TAKEN FROM CAT TRENCH 57.8 M SE OF R23-R @ 1680 M ELE. SAMPLE IS COOKED & FRACTURED LIMESTONE. MnO_2 & OXIDIZED SULFIDES FILL THE FRACTURES. TRENCH IS 100' LONG & 30' WIDE x 15' DEEP

R26-R TAKEN FROM QTZ VEIN IN MnO_2 ALTERED LIMESTONE IN CAT TRENCH @ 1690 M ON NW END OF RIDGE TOP. RUSTY SULFIDES & GALENA IN SAMPLE. TRENCH IS 246 M W OF R23-R.

Aug 23/07 RANCHERIA

R27-R TAKEN IN LIMONITIC @ TR CALCITE VEIN IN LIMESTONE @ 1530 M ELE. ON THE RIDGE TOP 2.3 KM NORTH OF POST #2 J-T #10

Aug 24/07

IVAN & I WENT TO WATSON LK. TO REGISTER CLAIMS & RESUPPLY.

Aug 25/07

MONSOON RAIN DAY PROSPECTING NEAR CAMP.

Aug 26/07

IVAN & TILL SAMPLED OPHIM #1-#10 & BEYOND. MMI & ICP 14 PITS SAMPLED

FIELD

Aug 27/07 RANCHERIA

IVAN & I TILL SAMPLED OPHIR #11 - #24 & BEYOND.

ROCK SAMPLE #R28-R TAKEN FROM QTZ VEIN IN CAT TRENCH 112 M. NE OF POST #2 OPHIR #24 @ 1677 M. ELE.

ROCK #R29-R TAKEN FROM MALACHITE STAINED QUARTZITE BOULDERS 30M E OF POST #1 OPHIR #19 & 20 @ 1640M ELE. ON SOUTH SIDE OF RIDGE TOP.

R30-R TAKEN FROM MnO_2 & QTZ IN CAT TRENCH IN LIMESTONE @ 1605 M ELE. ON RIDGE TOP 538 M EAST OF POST #1 OPHIR #19 & 20

R31-R TAKEN FROM MnO_2 & QUARTZ VEIN IN ALTERED LIMESTONE CAT TRENCH @ 1663 M ELE ON RIDGE TOP 311 M NE OF POST #1 OPHIR #20

Aug 27/07 RANCHERIA

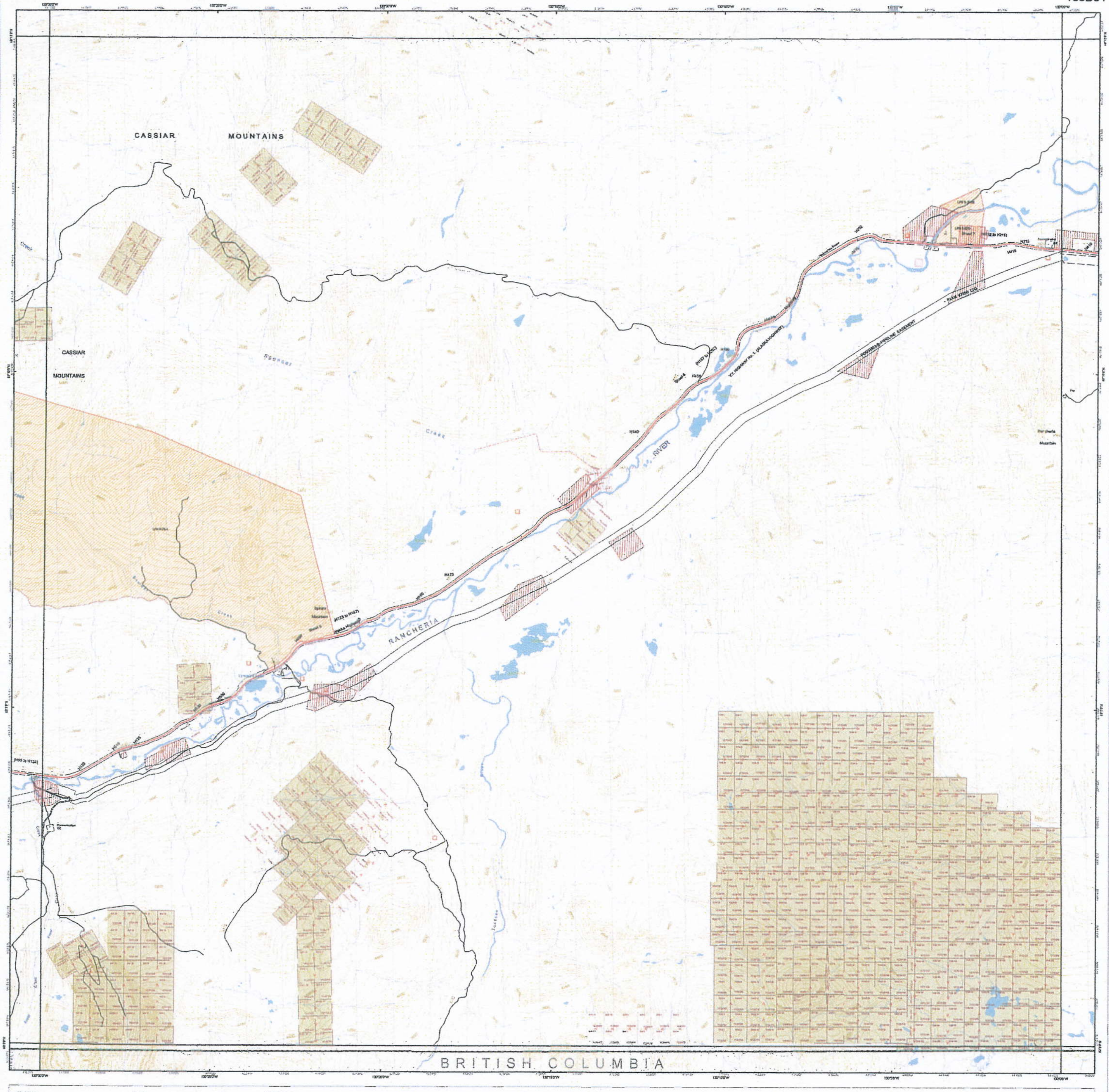
R32-R CHIPPED ACCROSS 50M OF OXIDIZED GREY SHALE - LIMEST WITH FUCHITE & QTZ VEINS. STARTING @ POST #1 OPHIR #12 & STRIKING NW. 1448M ELE.

Aug 28/07 RANCHERIA

DE MOB FROM MEISTER CAMP TO WHITEHORSE.

FIELD

105B01



105B01

MINING CLAIMS

UTM Zone: UTM Zone 9
Datum: NAD 83
Mining District: Watson
Map Creation Date: Sep 28, 2007

105B07	105B08	105A05
105B02	105B01	105A04
104O15	104O16	104P13

1,500 750 0 1,500 3,000 4,500 6,000 7,500 Feet

1,000 500 0 1,000 2,000 3,000 Meters

Mining
Quartz Claim Arrows
Placer Baselines
Mining District Boundaries

Claim Status
Active Quartz Claim
Active Placer Claim
Expired Claim

Coal
Coal Exploration Licence
Coal Mining Lease
Expired Licence or Lease

Areas Withdrawn from Staking
First Nation Interim Protected Lands
Parks and Special Management Areas

Areas Not Withdrawn from Staking
Parks and Special Management Areas

First Nation Settlement Land Category
A
B
FS

First Nation Surveyed Lands Category
A
B
FS
Uncategorized

NRCan Legal Survey Cadastral
First Nations Community Lots
Special Access Right through FN Lands
Mineral Claims
Community Land Transfers (Order in Council)
Land Dispositions (Lots)
Easements

EMR Lands
Land Disposition
Land Application
Agricultural Disposition
Agricultural Application
Notation

Mapsheet Index
10K Mineral Index
Mineral Index

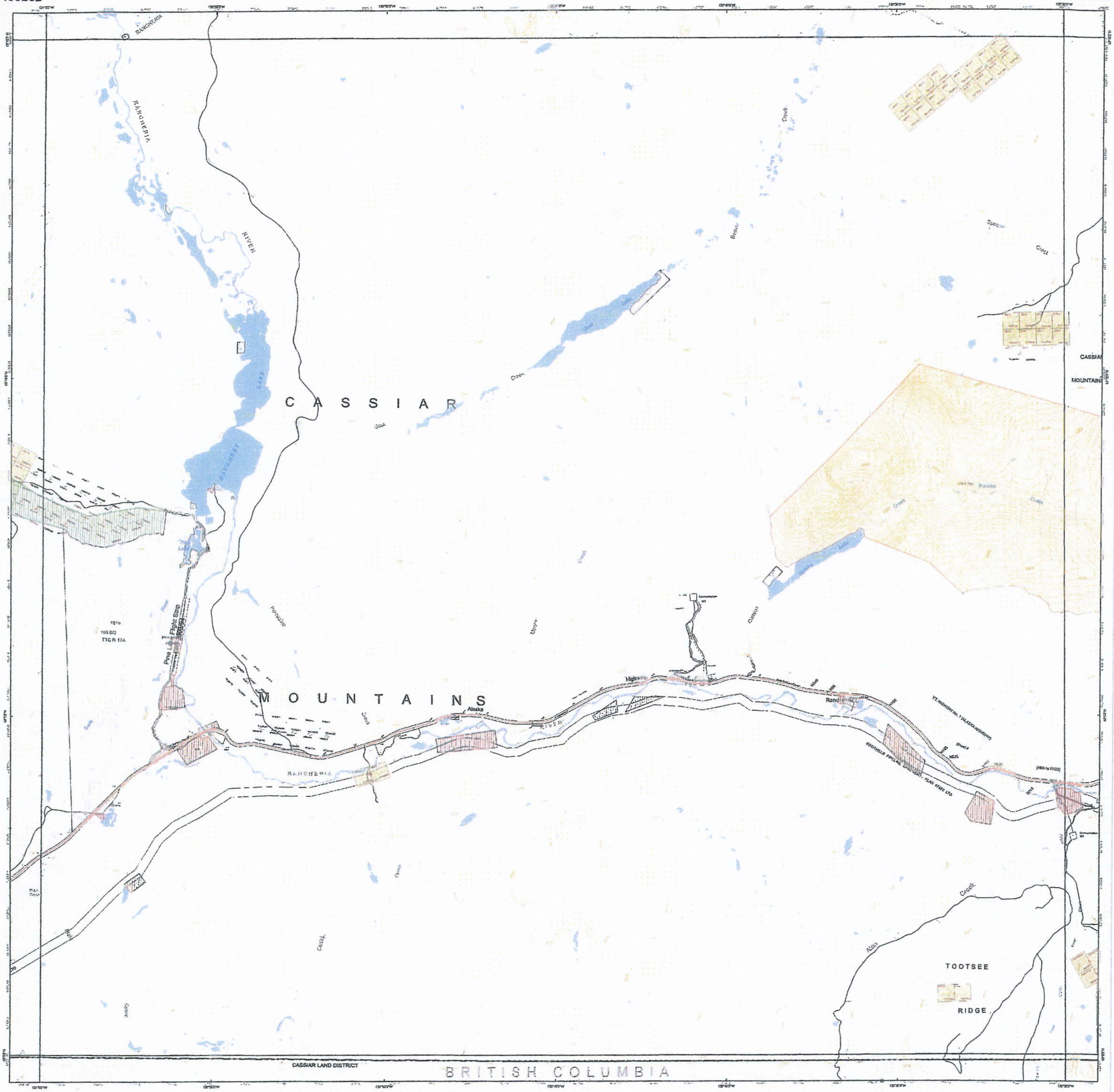
Base Map Features Hydrographic
Watercourses
Waterbody
Intermittent waterbody
Underwater sand
Dry river bed

Topography
Contours

Transportation Routes
Highway
Main
Secondary
Street
Limited use road
Trail
Cut line
Railway
Bridge
Foot Bridge
Ferry route
Ford

Yukon
Energy, Mines and Resources
Mineral Resources Branch

105B02



105B02

MINING CLAIMS

UTM Zone: UTM Zone 9
Datum: NAD 83
Mining District: Watson
Map Creation Date: Jul 20, 2007

Disclaimer:

This map is a compilation of data obtained from many sources. As such, the Mineral Resources Branch accepts no responsibility for errors, inaccuracies, or omissions. Where the map differs from the actual post locations on the ground, the ground location has precedence.

Category A Land - Contact First Nation for staking
Category B Land - Contact Mining Recorder's Office for Staking

For mining claim information, please contact the Mining Recorder's Office for the appropriate mining district.

Sources:

Mining claim locations obtained from staking sketches except for Global Positioning System (GPS) located claims.

1:50000 scale digital topography obtained from Natural Resources Canada National Topographic System data.

Survey data obtained from Natural Resources Canada Legal Surveys Division. For more information, please contact:

Other Resources:

For access to airphotos, Mining Assessment Reports, and geology publications:

Yukon Geological Survey Maps and Publications are available by emailing:

Online Resources:

Mining Claims maps are also available online at the Yukon Mining Recorder Website:

Yukon Geological Survey Maps, Minfile, and Publications are also available at the Yukon Geological Survey website:

Mining

Quartz Claim Arrows
Placer Baselines
Mining District Boundaries

Claim Status

Active Quartz Claim
Active Placer Claim
Expired Claim

Coal

Coal Exploration Licence
Coal Mining Lease
Expired Licence or Lease

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First Nation Interim Protected Lands
Parks and Special Management Areas

Areas Not Withdrawn from Staking

Parks and Special Management Areas

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A
B
FS

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Trail
Cut line
Railway
Bridge
Foot Bridge
Ferry route
Ford

Yukon
Energy, Mines and Resources
Mineral Resources Branch

Yukon
Energy, Mines and Resources

Claim Status Report

07 January 2008

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s
BERG 1 - 6	YC71769 - YC71774	2011/07/12	TANANA EXPLORATION INC.	100.00	105B02
BERG 7 - 8	YC29253 - YC29254	2010/08/30	TANANA EXPLORATION INC.	100.00	105B02
BERG 9 - 16	YC71775 - YC71782	2011/07/12	TANANA EXPLORATION INC.	100.00	105B02
LENA 1 - 2	YC71765 - YC71766	2013/07/12	TANANA EXPLORATION INC.	100.00	105B02
LENA 4 - 6	YC29158 - YC29160	2012/08/10	TANANA EXPLORATION INC.	100.00	105B02
LENA 7 - 8	YC71767 - YC71768	2013/07/12	TANANA EXPLORATION INC.	100.00	105B02
RIDGE 1 - 2	YC71763 - YC71764	2008/07/05	Ivan Elash	50.00	105B02
			Wade Scott Carrell	50.00	

Criteria(s) used for search:

CLAIM NTS: 105B02 CLAIM STATUS: ACTIVE & PENDING REGULATION TYPE: QUARTZ

Total claims selected : 25

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).
P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.
F - Indicates Full Quartz fraction (25+ acres)
P - Indicates Partial Quartz fraction (<25 acres)
D - Indicates Placer Discovery
C - Indicates Placer Codiscovery
B - Indicates Placer Fraction

Yukon
Energy, Mines and Resources

Claim Status Report

07 January 2008

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s
H.O.C. 1 - 16	YC25212 - YC25227	2011/09/03	TANANA EXPLORATION INC.	100.00	105B01
H.O.C. 17 - 18	YC71761 - YC71762	2008/07/05	TANANA EXPLORATION INC.	100.00	105B01
JT 1 - 10	YC71815 - YC71824	2008/07/20	TANANA EXPLORATION INC.	100.00	105B01
OPHIR 1 - 18	YC71797 - YC71814	2008/07/20	Ivan Elash	50.00	105B01
			Wade Scott Carrell	50.00	
OPHIR 19 - 24	YC71968 - YC71973	2008/08/24	Ivan Elash	50.00	105B01
			Wade Scott Carrell	50.00	

Criteria(s) used for search:

CLAIM NTS: 105B01 CLAIM STATUS: ACTIVE & PENDING REGULATION TYPE: QUARTZ

Total claims selected : 52

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).
P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.
F - Indicates Full Quartz fraction (25+ acres)
P - Indicates Partial Quartz fraction (<25 acres)

D - Indicates Placer Discovery
C - Indicates Placer Codiscovery
B - Indicates Placer Fraction