TABLE OF CONTENTS

2. *Anomalous values*
3. *Best rock sample*
4. *Best "silt/soil" sample*
5. *Tungsten*
6. *Bismuth*
7. *Tellurium*
8. *Quartz veining*
9. *Placer gold*

4. SAMPLING AND ANALYSIS METHOD :

a) Test pits
b) Problems
c) *Persons*
d) *Target Evaluation Technical Report*

6. TABULATED RESULTS:

7. CONCLUSIONS AND RECOMMENDATIONS:

a) Conclusions:

1. *Results of field work,*
2. *A major gold deposit is possible*
3. *Model* presented
4. *Deposit types*
5. *Missing key*

b) Recommendations:

1. *Soil sampling*
2. *Silt sampling*
3. *Deeper soil and -270 mesh sampling*
4. *Conduct magnetic survey*
5. *Low-level aeromagnetic survey data*

HENDERSON DOME AREA

2. GEOLOGY AND PREVIOUS RELEVANT INVESTIGATION:

a) General Geology:

d) Previous Work:

1. *Shallow cat trenching*
2. *Nina Quartz Claim Group*

3. SURFACE EVALUATION:

a) *54 Samples*

b) *Results*
1. *Table of Data*
2. *Consistent anomalous values*
3. *Best rock sample*
4. *Second best rock sample*
5. *Anomalous Barite*

4. SAMPLING AND ANALYSIS METHOD :

a) Grab samples
b) Reconnaissance traverses
c) Problems
d) Persons
e) Target Evaluation Technical Report

6. TABULATED RESULTS:

7. CONCLUSIONS AND RECOMMENDATIONS:

a) Conclusions:

1. *Results of field work*
2. *A major gold deposit is possible*
3. *Deposit type*
4. *Missing key data*
5. *Carmack's Volcanics*

b) Recommendations:

1. *Soil sampling*
2. *Deeper soil and -270 mesh sampling*
3. *Tight controlled grid*
4. *Literature search*
5. *Extend exploration*

1. REPORT: This report covers work accomplished in 1999 under YMIP 99-057

a) Claim Information: Covered is work on and about the same area as the following Mining Claims that were staked during the project period:

1. AL 1-22 for 50 Mile owned by Ralph Nordling and Al Rudis
2. AX 1-12 for 50 Mile owned by Ralph Nordling and Al Rudis
3. AX 1- 4 for 50 Mile owned by Ralph Nordling
4. NIC 1-4 for 50 Mile owned by Al Rudis
5. CHER 1-16 for Henderson Dome owned by Ralph Nordling and Al Rudis
6. BON 1- 4 for Henderson Dome owned by Ralph Nordling and Al Rudis

The MONICA #1 To #10 mining claims were staked by Ralph Nordling and Al Rudis in 1998.

b) Location Map: The general location of these leases is given in Appendix 4.

c) Claim Maps: Claim location is shown in Appendix 2 .

50 MILE CREEK AREA

2. GEOLOGY AND PREVIOUS RELEVANT INVESTIGATION:

a) General Geology: The local geology of the area is described in DIAND Open File 1996-1G, specifically In its coverage of 115N/15,16. It states in general:

> "Northern Stewart River map area southwest of the Tintina Fault Zone is underlain by two distinct lithotectonic assemblages: 1) medium to high grade, polydeformed metasedimentary and met-igneous rocks of the Yukon-Tanana Terrane, and 2) weakly deformed and metamorphosed rocks to the Slide Mountain Terrane. These two assemblages are both mainly Paleozoic in age in the study area, and were juxtaposed by regional scale thrust faults in Early Mesozoic time, during a period of terrane accretion that affected much of the northern Cordillera. A variety of younger (post-accretion) volcanic, plutonic and sedimentary rocks are also present in the study area."[1]

[1] Open File 1996-1(G), pg. 1

The claim area falls within the Yukon-Tanana Terrane as described in this Open File.

b) Major Rock Units:

- 1Kva: andesite flows and brecias. (late Cretaceous)
- DMS: medium to coarse grained mica schist. Commonly garnetiferous amphibolite, minor quartzite. (late Devonian)
- 1Kgdr: massive hornblende-biotite granodiorite. (late Cretaceous)
- 1Kst: sandstone, pebble conglomerate, minor shale, commonly coal-bearing. (late Cretaceous)
- DMgg: moderately to strongly foliated K-feldspar augen-bearing quartz monzonitic to granitic gneiss (S. Fiftymile Batholith). (early Mississippian)
- EJQM: massive to weakly foliated biotite and biotite-muscovite quartz monzonite and granite; includes abundant pegmatite and aplite phases. (early Jurasic)
- DMc: marble. (late Devonian to early Mississippian)
- 1Kgdr: massive hornblende-biotite granodiorite. (late Cretaceous)
- Psqm: rusty weathering quartz muscovite schist. (late Permian)
- Dmgdg: massive to strongly foliated dioritic to granodioritic gneiss (N. Fiftymile Batholith) (early Mississippian)

c) Local Structure:

The area is structurally complex and has a scarcity of exposures. A regional scale thrust fault dominates the 50 Mile Creek along its left limit. The valley of the 60 Mile River in the central and western part of the Sixtymile District follows a northeast-trending graben structure that has downdropped Cretaceous volcanic and sedimentary rocks against metamorphic rocks of the Nasina and Klondike Schist. Cretaceous strata are cut by steeply-dipping normal faults. All of the smaller bodies of greenstone and/or ultramafic rocks in the area are thought to mark thrust faults.

d) Previous Work: Previous work reported in the area reported is as follows:

1. *MINFILE #115N 039:* North-northeast striking, mesothermal (?) quartz-carbonate veins with major Ag, Pb and minor Au, Zn. 63-55-29N 140-48-52W
2. *MINFILE #115N 040:* Lenses of galena and arsenopyrite with minor sphalerite, tetrahedrite and boulangerite in northeast-striking quartz veins. Major Ag, Pb and minor Au, Zn. 63-54-50N 140-47-46W
3. *MINFILE #115N 042:* An epidote-magnetite-diopside skarn containing minor chalcopyrite and pyrrhotite developed at the contact between a marble layer and the intrusion (Dms and 1Kgdr). Major Cu, Ag, Pb, Au. 63-54-58N 140-34-35W
4. *MINFILE #115N 043:* 300 m long skarn with traces of malachite and old workings. 63-53-26N 140-37-40W

5. *MINFILE #115N 044:* Late Cretaceous quartz pebble conglomerate (unit 1Kst), with one specimen containing a small rounded flake of gold. The conglomerate has a thickness of 15-30 m and outcrops over approximately 0.8 km. It is capped by, and may extend under, andesitic volcanic rocks (unit 1Kva). No mineralization was found in 1973 by Silver Standard. Paleoplacer with Au as the major commodity. 63-53-18N 140-25-10W
6. *MINFILE #115N 119:* Another outcropping of unit 1Kst defined in MINFILE #115 044. 63-55-10N 140-25-32W
7. *MINFILE #115N 123:* A thrust -fault-bounded lens of serpentinite occurs along the fault to the east of the occurrence. A vuggy quartz carbonate vein with silver and minor gold, copper and no visible sulphides, outcrops on the hanging wall of the fault. 63-58-31N 140-53-15W
8. *MINFILE #115O 158:* Traces of disseminated galena within a very rusty weathering band of pyritic muscovite-quartz schist (Psqm) of Klondike Schist assemblage. 63-56-58N 140-42-48W
9. *Assessment Evaluation Report on Monica 1 to 10 quartz mining claims, 22 February 1999:* This report reaches the following pertinent conclusions:
    a. Results of field work, assay and analysis (till that date) do not point to specific large scale targets. They do indicate, however, that a major gold deposition event has taken place.
    b. A major gold deposit is possible within or adjacent to the claim group, or in its general area.
    c. Deposit types that should be considered as possibilities include: Pogo style, Epithermal, Quartz Carbonate Vein Gold, and Disseminated and Replacement Gold.
    d. Further field work and analysis on the Claim group is recommended.
    e. Detailed field work and analysis should be expanded to the general claim group area, and in particular to the nearby low underlying the pup that drains the Claim group.
10. *Glaciation, Gravel and Gold in the Fifty Mile Creek Area, West Central Yukon, Grant W. Lowey, Yukon Geology Program, Nov 1999:*

    Dr. Lowey confirmed that placer gold occurs in lower-level terraces located along Fifty Mile Creek and in lower-level terraces located along several tributaries to Fifty Mile Creek, and there is potential for placer gold in upper-level terraces located along Fifty Mile Creek." Dr Lowey's pan sample taken at a placer exploration test pit showed a gold content o 0.024oz per cubic yard . The report also describes the gravel column and heavy mineral constituents from selected test pits.

3. SURFACE EVALUATION:

a) *Samples* were taken of bedrock from 14 selected placer exploration test pits. 67 hardrock grab samples were taken. 21 silt samples were taken. Sample location is shown at Appendix 2, *Sample and Claim Location.*

b) *Results* indicate that there is a probable gold deposit within the areas covered by the claim groups.

1. Assay results are shown at Appendix 1, *Table of Data,* and Appendix 5, Assay Reports.
2. There are *anomalous values* in Au, Cu, Pb, Zn, Mo and As throughout the area.
3. The *best rock sample* is shown at Map Location No. 8, in the upper pup drainage in the Al Claim Group. It shows 53ppb Au, 1.1ppm Ag, 3690ppm Cu, 31ppm Pb, 304ppm Zn, 36ppm Mo, 6.89% Fe, 24ppm Co, 795ppm Mn.
4. The *best "silt/soil" sample* was taken at Map Location No. 68 which is on a gravel bank of the pup on the Nic Claims. It was concentrated from a two pan sample taken of the first 9" into the gravel on the bank of the tributary. Gravel depth here is unknown. It shows 79ppb Au, 27ppm Cu, 14ppm Pb, 36ppm Zn, 3ppm Mo, 172ppm Cr, 14.0% Fe, 271ppm As, 524ppm W, 149ppm V, 5699ppm Mn, 36ppm Co, 165ppm Ni, 1.26% Ca.
5. There is *tungsten* showing throughout the area. This shows as scheelite and powelite under black light in placer concentrates and in several rock samples, and in assay of both concentrate and rock samples.
6. *Bismuth* shows up in a pan sample on the pup below map location 8 (see previous work No. 9). A 110ppm Bismuth is found in the rock sample at Map Location 11. Assay of this sample (KGM1) shows 12ppb Au, 0.7ppm Ag, 165ppm Cu, 67ppm Pb, 55ppm Zn, 4ppm Mo, 4.31% Fe, 11ppm As, 142ppm V, 110 ppm Bi. It is significant in that the rock, a light felsic volcanic, is largely unaltered yet contains anomalous values.
7. *Tellurium* was tested on two pan concentrates on the pup below location 8. Both showed the presence of tellurium. (see previous work No. 9).
8. *Quartz veining*, both concordant and discordant with major structure, occurs throughout the area. Several of these are anomalous in gold. In particular, an area about the mouth of the pup at the Ax claims has extensive quartz veining. These show low gold values with the best at 14ppb Au. Extensive quartz veining continues to be exposed

downstream along the stream scarp and to the NIC claim area. A sample of the quartz veining at map location 59 showed 38ppb Au, 0.3ppm Ag, 35ppm Cu, 16ppm Pb, 68ppm Zn, 13ppm Mo.

9. *Placer gold* found in adjacent placer exploration is angular and contains inclusions of friable minerals such as Cuprite. This indicates the sources of much of the gold is within a few kilometers, and within the claim group.

4. SAMPLING AND ANALYSIS METHOD :

a) *Test pits* from an adjacent placer exploration program were available for bedrock sampling, and selected bedrock samples were assayed. Traverses were run for reconnaissance exploration and selected grab and silt sampling. These are shown at Appendix 4, Reconnaissance Traverses.

b) *Problems* in sampling in the 50 Mile Creek area comes from the roughness of terrain, in-penetrability of the vegetation, prevalence of muskeg, and deadfalls. This limits traverses largely to ridge lines and to stream cuts. It also cuts down on the number and size of samples that can be taken.

c) *Persons* helping with sampling were:
Al Rudis - Box 887, Dawson City, Yukon
Scott Fleming - GPO, Dawson City, Yukon
Shawn Ryan - GPO, Dawson City, Yukon

f) The complete *Target Evaluation Technical Report* was done by Albert Rudis in five full days of effort.

6. TABULATED RESULTS:

Tabulated results are shown at Appendix 1.

7. CONCLUSIONS AND RECOMMENDATIONS:

a) Conclusions:

1. *Results of field work*, assay and analysis point to the entire claim area as a specific large scale targets. It indicates that a major gold deposition event has taken place.
2. A *major gold deposit is possible* within or adjacent to the claim group, or in its general area.
3. The *Model* presented by mineral anomaly, local structure, geologic history, and high altitude magnetic survey is that of a Pluton-Related (Thermal Aureole) Area (TAG) as presented by V.J. Wall of Taylor Wall and Associates.

4. *Deposit types* that are particularly possible within the area's TAG characterization include: TAG Deposit (Ft Knox, Pogo), Magnetite Gold Skarn, Porphyry Copper Gold.
5. *Missing key data* include: identification of areas of concentrated high value, geologic structure, and low level magnetic survey.

b) Recommendations:

1. Extend sampling to include *soil sampling* under grid control.
2. Extend *silt sampling* to cover un-sampled areas.
3. Utilize *deeper soil and -270 mesh sampling* techniques wherever possible.
4. *Conduct magnetic survey* on two key targets that indicate possible TAG environment.
5. Procure *low-level aeromagnetic survey data* if possible.

HENDERSON DOME AREA

2. GEOLOGY AND PREVIOUS RELEVANT INVESTIGATION:

a) General Geology:

1. The Canadian Department of Mines and Resources map 711A, illustrates the general geological environment of the area. It shows it as being underlain by Precambrain and later gneissic granite.
2. Carmacks volcanics cover the area. Yukon group limestone and andesite is in the area.
3. Considerable placer mining has been carried out on nearby Henderson and Moosehorn Creeks.

d) Previous Work:

1. The claim area has had considerable *shallow cat trenching* along the road-way in the center of the claim groups. From the age of the trash left behind, it appears to have been done in the 1970's. No record of work could be found at the Mining Recorder's Office.
2. J. Peter Ross has recently located the *Nina Quartz Claim Group* about 3km to the West of our claim group. Using a system of deeper soil sampling and screening to -200 mesh, Mr. Ross was able to get sample values sufficient to option the property to Copper Ridge Mining.

3. SURFACE EVALUATION:

a) *54 Samples* of bedrock were taken of bedrock outcropping along the Henderson Creek road, along which the center of the claim groups is located.

b) *Results* indicate that there is a possible epithermal or deeper seated intrusive gold deposit within or adjacent to the areas covered by the claim groups.
   1. Assay results are shown at Appendix 1, *Table of Data,* and Appendix 5, Assay Reports.
   2. There are *consistent anomalous values* in Au and As throughout the area.
   3. There are locally *significant anomalous values* in Pb, Zn, Mo, Sb, W, Cd, Cr, and V.
   4. The *best rock sample* is shown at Map Location No. 7. It shows 2280ppb Au, 0.7ppm Ag, 20ppm Cu, 28ppm Pb, 315ppm Zn,

65ppm Sb, 4ppm Mo, 3.7ppm Cd, 30ppm Ni, 552ppm Ba, 2696ppm As

5. The *second best rock sample* is shown at Map Location No. 2. It shows 180ppb Au, 0.1ppm Ag , 4ppm Cu, 8ppm Pb, 41ppm Zn, 14ppm As, 2ppm Mo, 1.7ppm Cd
6. *Anomalous Barite* shows up throughout the area.

4. SAMPLING AND ANALYSIS METHOD :

a) *Grab samples* were Taken were the Henderson Road cut and Cat trenches have exposed bedrock along the middle of the claim groups. For most of the sampling a particular attempt was made to select a rock type that visually matched the earlier 2280ppb Au sample rock. Samples were also taken from within the major Cat trenches.

b) *Reconnaissance traverses* were run off the road as shown in Appendix 4, Reconnaissance Traverses.

c) *Problems* in sampling in the Henderson Dome claim area comes from:

1. A lack of bedrock outcrops except in the area adjacent to the Henderson Road cut. This was confirmed in the traverses shown at Appendix 4.
2. Possible glaciation of the Henderson Dome peak and the claim area. This could dillute or obcure soil sampling, and requires that deeper and possibly -270 mesh samples be taken.
3. Bears seem to like the claim groups.

a) *Persons* helping with sampling were:
Al Rudis - Box 887, Dawson City, Yukon

f) The *Target Evaluation Technical Report* was done by Albert Rudis in four full days of effort.

6. TABULATED RESULTS:

Tabulated results are shown at Appendix 1.

7. CONCLUSIONS AND RECOMMENDATIONS:

a) Conclusions:

1. *Results of field work*, assay and analysis point to the entire claim area as a specific targets area. It indicates that a major gold deposition event may taken place in the claim group or its immediate area.
2. A *major gold deposit is possible* within or adjacent to the claim group, or in its general area.
3. Based on minerals found, the bleached/altered nature of the rocks, the presence of one relatively high grade sample, and wide-spread presence of barite the *Deposit type* that is particularly possible within the area is

epithermal gold, possibly a low sulphidization type. There is also the possibility of an associated deep seated intrusive.

4. *Missing key data* include: identification of areas of concentrated high value, geologic structure, and low level magnetic survey.
5. "As the *Carmack's Volcanics* are correlated to the volcanics of Yosemite, California (moved up here intact over the course of 70 million years), the more thoroughly explored Yosemite area should be researched for possible models and model matches." (Shawn Ryan)

b) Recommendations:

1. Extend sampling to include *soil sampling* under grid control.
2. Utilize *deeper soil and -270 mesh sampling* techniques wherever possible.
3. Grab sample in a *tight controlled grid* in the area of the best sample value.
4. *Conduct magnetic survey.*
5. Do a *literature search* of economic deposit models in volcanics of the Yosemite, California area. (Shawn Ryan recommendation).

c) *Extend exploration* to the tungsten and other anomalies on the West side of the Henderson Dome. (Shawn Ryan and Ralph Nordling recommendation)

Pit Number	BR Description	Assay Highlights
97-01A	Micaceous Schist - light gray	<5ppb Au, 4ppm Cu, 4ppm Pb, 19ppm Zn, 1ppm Mo, 173ppm Cr, 2.06% Fe
97-02A	Micaceous Schist - blocky, medium gray, high quartz, augen-like quartz pods along schistosity	7ppb Au, 5ppm Cu, 3ppm Pb, 14ppm Zn, 1ppm Mo, 140ppm Cr, 1.88% Fe
97-03	Micaceous Schist - decomposed with green gumbo	
97-04A	Gneiss? - well banded, blocky, light gray - possibly float	7ppb Au, **38ppm Cu**, 3ppm Pb, 13ppm Zn, 1ppm Mo, 116ppm Cr, 0.85% Fe
97-05A	Micaceous Schist - massive blocky, sparse local pyrite, quartz lensing on schistosity	7ppb Au, 0.2ppm Ag, 2ppm Cu, 29ppm Pb, 19ppm Zn, 1ppm Mo, 80ppm Cr, 0.52% Fe
97-06	Micaceous Schist - partially decomposed	
97-07A	Micaceous Schist - moderately blocky, calcite veining across schistosity, local pyrite and chalcopyrite	5ppb Au, **60ppm Cu, 16ppm Pb**, 68ppm Zn, **4ppm Mo**, 73ppm Cr, 2.09% Fe, **39ppm Ni**
97-08A	Micaceous Schist - moderately blocky	**8ppb Au**, 13ppm Cu, 13ppm Pb, 42ppm Zn, **2ppm Mo**, 84ppm Cr, 2.42% Fe
98-01A	Micaceous Schist	**11ppb Au**, 14ppm Cu, 9ppm Pb, 52ppm Zn, **2ppm Mo**, 403ppm Cr, 1.39% Fe, **11ppm As**
98-02	Micaceous Schist - blocky, high quartz	
98-04	Micaceous Schist - blocky, high quartz, slightly weathered	
98 -05	Micaceous Schist - blocky, quartz lensing on schistosity	
98-06A	Micaceous Schist	7ppb Au, 15ppm Cu, **24ppm Pb**, 63ppm Zn, **2ppm Mo**, 58ppm Cr, **7.26% Fe, 92ppm V**
98-07	Micaceous Schist - loose decomposed, flat laying	
98-08A	Micaceous Schist - decomposed, quartz layering along	6ppb Au, 13ppm Cu, 9ppm Pb, 33ppm Zn, 1ppm Mo,

Appendix I.

	schistosity	94ppm Cr, 1.54% Fe
98-10A	Micaceous Schist	**8ppb** Au, **0.4 Ag, 64ppm Cu**, 7ppm Pb, **166ppm Zn, 6ppm Mo**, 72ppm Cr, 2.41% Fe, **13ppm Co, 54ppm Ni, 73ppm V**
98-11A	Micaceous Schist - blocky, quartz lensing	7ppb Au, 3ppm Cu, 7ppm Pb, 15ppm Zn, 1ppm Mo, 56ppm Cr, 1.34% Fe
98-12A	Micaceous Schist	7ppb Au, 5ppm Cu, 2ppm Pb, 26ppm Zn, 1ppm Mo, 52ppm Cr, 1.20% Fe
98-13	Micaceous Schist - decomposed	Fluoresces for scheelite and powelite.
98-15	Micaceous Schist - decomposed	
99-01	Frozen above bedrock, no BR sample	½ yard run in gravel at unknown depth above bedrock at 7.5' down showed 3 fine flakes of gold.
99-03	Frozen above bedrock, no BR sample	½ yard run in gravel at estimated 3' to 5' above bedrock showed 20 medium flakes, 40 fine flakes and numerous fs gold. Two gold types: brassy yellow and dark coppery Coppery included blue/black mineral and showed rough structure limited transport. 50% non-magnetic, 50% magnetic in concentrate. Non-magnetic mostly blue black mineral with included golden mineralization, some of which is gold under 30X microscope. Considerable fluoresces in scheelite and powelite.
99-04	Micaceous Schist	
99-05A	Micaceous Schist - dark gray (sampled as CRPIT-5BR)	6ppb Au, 13ppm Cu, 2ppm Pb, **95ppm Zn, 2ppm Mo,** 52ppm Cr, **3.88% Fe, 15ppm Co, 32ppm Ni**
100-02A	Micaceous Schist - quartz lensing along schistosity, sample mostly quartz pod	7ppb Au, 4ppm Cu, 8ppm Pb, 15ppm Zn, 1ppm Mo, 100ppm Cr, .82% Fe
100-03A	Micaceous Schist - blocky, high quartz, sample mostly	7ppb Au, 3ppm Cu, <ppm Pb, 20ppm Zn, <ppm Mo,

	quartz pod	70ppm Cr, 1.17% Fe
100-04A	Micaceous Schist - blocky, porphritic, high quartz	7ppb Au, 17ppm Cu, **19ppm Pb**, 26ppm Zn, 1ppm Mo, 71ppm Cr, 1.57% Fe, **13ppm As**
100-05A	Gneiss? - blocky, possibly float	7ppb Au, 5ppm Cu, 12ppm Pb, 49ppm Zn, 1ppm Mo, 27ppm Cr, 1.56% Fe, **7ppm As**

KGM 1 Map No. 11	Light felsic volcanic (possibly monzonite), considerable pyrite and limonite after pyrite - Cheryl Crk. drainage, near helicopter landing zone on saddle.	**12ppb Au, 0.7ppm Ag, 165ppm Cu, 67ppm Pb,** 55ppm Zn, **4ppm Mo,** 14ppm Cr, **4.31%** Fe, **11ppm As, 142ppm V, 110 ppm Bi**
KGM 2 Map No. 12	Dense gray andesitic volcanic with large phenocrysts of magnetite and sparse pyrite. It is noted that similar andesites are indicative of associated porphyry copper - Cheryl Crk. drainage, near helicopter landing zone on saddle.	6ppb Au, 1ppm Cu, 12ppm Pb, **94ppm Zn, 13ppm Mo,** 30ppm Cr, **7.76% Fe, 183ppm V**
KGM 3 Map No. 13	Leached probable quartzite with equal grain size and high porosity, reddish staining and tiny pyrite - Cheryl Crk. drainage, near helicopter landing zone on saddle.	**9ppb Au,** 6ppm Cu, 8ppm Pb, 8ppm Zn, **3ppm Mo,** 158ppm Cr, 0.55% Fe
CMF 01 Map No. 14	Gneiss, dark gray, mostly actinolite, considerable whitish pyrite along bands, may grade into schist downstream - 50' thickness exposed across Cheryl Crk about 70m above canyon	**8ppb Au, 0.5ppm Ag, 192ppm Cu,** 3ppm Pb, **139ppm Zn, 3ppm Mo,** 59ppm Cr, **4.84% Fe, 111ppm V, 39ppm Co, 30ppm Ni, 2.08% Al, 1.10% Ca, 2.18% Mg**
CMF02 Map No. 15	Gneiss, gray, finely banded, actinolite along banding, whitish pyrite along banding, quartzite and calcite veining to ½ inch crosses banding along fracture seams, fractures strike 065° and dip 78°, foliated banding - 5' wide x 6' exposed showing crosses Cr 60m downstream of CMF01	<5ppb Au, 0.1ppm Ag, **47ppm Cu,** 3ppm Pb, 10ppm Zn, <ppm Mo, 121ppm Cr, 0.59% Fe, **0.93% Ca, 1.96% Mg**
CMF03 Map No. 16	Gneiss similar to CMF02, actinolite along banding, pyrite throughout matrix and along fracture seams, narrow quartz and calcite veining cuts across banding - small outcrop 50m upstream of CMF01	<5ppb Au, **0.4ppm Ag, 151ppm Cu,** 5ppm Pb, **93ppm Zn, 2ppm Mo,** 63ppm Cr, **4.47% Fe, 104ppm V , 52ppm Co**
CRCR 78 Map No. 17	Blocky medium light gneiss, well developed muscovite schistosity, limonite after pyrite along schistosity - Cheryl Crk. drainage, along creek below pit 99-5	**8ppb Au,** 4ppm Cu, 9ppm Pb, 47ppm Zn, 1ppm Mo, 58ppm Cr, 1.55% Fe
CRCR 78-1	Banded gneiss float (2'x1'x8 inch), bands alternately	**8ppb Au,** 15ppm Cu, 8ppm Pb, 5ppm Zn, **8ppm Mo,**

Rock Sample Number	Description	Assay Highlights
MOSF99R01 Map No. 1	White felsic volcanic - Cheryl Crk. drainage	**8ppb Au**, 3ppm Cu, 9ppm Pb, 8ppm Zn, <ppm Mo, 71ppm Cr, 0.12% Fe
MOSR99R01 Map No. 2	Dark green volcanic, probably andesite, magnetic - Cheryl Crk. drainage	**22ppb Au,** 18ppm Cu, **22ppm Pb**, 57ppm Zn, **4ppm Mo,** 47ppm Cr, **4.12% Fe, 13ppm Co, 117ppm V**
MOSR99R02 Map No. 3	Conglomerate, local fluorescent scheelite - Cheryl Crk drainage, outcrop above saddle.	**8ppb Au,** 5ppm Cu, 4ppm Pb, 5ppm Zn, 1ppm Mo, 99ppm Cr, 0.51% Fe, **6ppm As**
MOSR99R03 Map No. 4	Quartz porphyry, gray, quartz phenocrysts 1.5mm x 1mm, hornblende 10mm x 3mm - Cheryl Crk drainage, subcrop taken 150m SW from post on side hill	**9ppb Au, 30ppm Cu**, 12ppm Pb, **24ppm Zn, 4ppm Mo,** 75ppm Cr, 1.73% Fe, **113ppm V, 14ppm Zr**
MOSR99R04 Map No. 5	Fine grained gray magnetic dike, possible monzonite - Cheryl Crk drainage, subcrop 100m post on side hill	**11ppb Au,** 11ppm Cu, **35ppm Pb**, 82ppm Zn, 1ppm Mo, 54ppm Cr, **3.11% Fe, 118 V**
MOSR99R05 Map No. 6	Gray volcanic, quartz porphyry? Large (10mm) phenocrysts, sparse inclusions of pyrite - Cheryl Crk. drainage, subcrop on side hill below saddle (helo landing)	**8ppb Au,** 4ppm Cu, **18ppm Pb**, 59ppm Zn, 1ppm Mo, 20ppm Cr, 2.07% Fe, **12ppm As, 60ppm V**
MOSR99R06 Map No. 7	Felsic bleached volcanic, rhyolite - Cheryl Crk. drainage, subcrop down by small knob next to creek	5ppb Au, 6ppm Cu, 14ppm Pb, 12ppm Zn, **3ppm Mo,** 55ppm Cr, 0.19% Fe, 5ppm As
MOSR99R07 Map No. 8	Siliceous gray mafic with gossan, pyrite zone - Cheryl Crk. drainage, just below top of small hill	**53ppb Au, 1.1ppm Ag, 3690ppm Cu, 31ppm Pb, 304ppm Zn, 36ppm Mo,** 38ppm Cr, **6.89% Fe, 24ppm Co, 795ppm Mn**
MOSR99R08 Map No. 9	Siliceous gray fine grained mafic with major quartz veining - Cheryl Crk. drainage, subcrop	**10ppb Au,** 17ppm Cu, 10ppm Pb, 53ppm Zn, 1ppm Mo, 41ppm Cr, **2.97% Fe, 6ppm As**
MOSR99R09 Map No. 10	Granodiorite, locally magnetic, sparse pyrrhotite, earthy coating fluorescent blue could be hydrozincite - Cheryl Crk. drainage, 100m x 100m outcrop just below ss02/ss03 along creek/ridge	6ppb Au, 6ppm Cu, 5ppm Pb, 18ppm Zn, 1ppm Mo, 66ppm Cr, 2.12% Fe, **52ppm V**

Map No. 18	green (1 inch) and red (3 inch), green banding almost completely pyrite, red banding pyritized - Cheryl Crk. drainage, along creek below pit 99-5, 30m down from CRCR78	59ppm Cr, **11.0% Fe, 183ppm V, 17ppm Co, 140ppm Ni**
CRCR 78-2 Map No. 19	Blocky light gneiss with well developed schistosity, sparse pyrite, slight gossan - Cheryl Crk. drainage, along creek below pit 99-5, 10m down from CRCR78	7ppb Au, 0.1ppm Ag, 21ppm Cu, 3ppm Pb, 23ppm Zn, 1ppm Mo, 60ppm Cr, 0.93% Fe
CRPIT-5BR Map No. 20	Micaceous Schist - dark gray (sampled bedrock from pit 99-5)	06ppb Au, 13ppm Cu, 2ppm Pb, **95ppm Zn, 2ppm Mo,** 52ppm Cr, **3.88% Fe, 15ppm Co, 32ppm Ni**
CTRIB 01 Map No. 21	Massive actinolite (12 inch x 18 inch) float - Al Creek drainage above campsite.	5ppb Au, <ppm Cu,<ppm Pb, 6ppm Zn, 1ppm Mo, **265ppm Cr**, 0.45% Fe, **463ppm As, 41ppm Co, 437ppm Ni**
CTRIB 02 Map No. 22	Blocky medium dark gneiss with some muscovite schistosity - Al Creek drainage above campsite.	<5ppb Au, 2ppm Cu, 9ppm Pb, 38ppm Zn, <ppm Mo, 60ppm Cr, 0.72% Fe, **6ppm As**
CTRIB 03 Map No. 23	Gneiss, light colored, high quartz, finely banded - Al Creek drainage above campsite.	**8ppb Au,** 5ppm Cu, **15ppm Pb,** 30ppm Zn, <ppm Mo, 61ppm Cr, 0.48% Fe, **48ppm As, 39ppm Ni**
CTRIB 04 Map No 24	Gneiss, blocky, fine grained, light colored, quartz veining along fracture planes - Al Creek drainage above campsite	7ppb Au, 7ppm Cu, **16ppm Pb,** 34ppm Zn, 1ppm Mo, 63ppm Cr, 0.75% Fe
CTRIB 05 Map No. 25	Pegmatite, mostly orthoclase, plagioclase, and smoky quartz - float boulder 1'x1', 350m upstream from camp at Al Cr	6ppb Au, 7ppm Cu, 2ppm Pb, 2ppm Zn, **8ppm Mo,** 136ppm Cr, 0.29% Fe
SH 01 Map No. 26	Micaceous schist, pyrite along schistosity - Al Creek drainage, left limit outcrop 100m above campsite.	6ppb Au, **70ppm Cu,** 3ppm Pb, 75ppm Zn, 1ppm Mo, 50ppm Cr, **4.32% Fe, 14ppm As, 201ppm V, 15ppm Co**
SH 02 Map No. 27	Micaceous Schist, quartz pods up to 9 inch along schistosity - Al Creek drainage, left limit 3' wide outcrop 200m above campsite.	<5ppb Au, 2ppm Cu, 9ppm Pb, 57ppm Zn, **3ppm Mo,** 149ppm Cr, 2.21% Fe, **6.66% Ca, 1.87%Mg, 9ppm As, 70ppm V, 1038ppm Mn, 53ppm Sr, 67ppm Ni**
SH 03 Map No. 28	Quartz vein - 9 inch quartz pod material from SH02	7ppb Au, 2ppm Cu, <ppm Pb, 10ppm Zn, 1ppm Mo, 139ppm Cr, 0.46% Fe

SH04 Map No. 29	Gneiss, dense, high gossan, high smoky quartz veining across banding and fracture planes - Micaceous schist, pyrite along schistosity - Al Creek drainage, right limit outcrop 210m above campsite.	**9ppb Au,** 0.1ppm Ag, **36ppm Cu**, 9ppm Pb, 38ppm Zn, **9ppm Mo,** 108ppm Cr, 2.32% Fe, **134ppm V**
TRG 03 Map No. 30	Quartz vein material, heavy and brittle - float boulder 1'x1', 350m upstream from camp at Al Cr	5ppb Au, 2ppm Cu, <ppm Pb, 3ppm Zn, 1ppm Mo, 144ppm Cr, 0.33% Fe
CMPQ 01 Map No. 31	Micaceous Schist, quartz veins and pods along schistosity - left limit weathered outcrop adjacent to camp site at Al Cr	<5ppb Au, 3ppm Cu, 2ppm Pb, 5ppm Zn, 1 ppm Mo, 126ppm Cr, 0.20% Fe
CMPS 01 Map No. 32	Micaceous Schist - left limit weathered outcrop adjacent to camp site at Al Cr	**9ppb Au, 2.0ppm Ag,** 10ppm Cu, **293ppm Pb**, 45ppm Zn, **3ppm Mo,** 80ppm Cr, 1.02% Fe, **6ppm As, 4.8% Ca, 176ppm Sr**
CMPS 02 Map No. 33	Micaceous Schist, calcite veining to ½ inch along schistosity, pyrite in schist and calcite - sample from campsite - left limit weathered outcrop adjacent to camp site at Al Cr	6ppb Au, 13ppm Cu, 13ppm Pb, 28ppm Zn, **3ppm Mo,** 38ppm Cr, **1.80% Fe, 1593ppm Sr, 21% Ca**
TTA Map No. 34	Micaceous Schist, blocky, high quartz - 40' high outcrop across from feeder stream 2.5km upstream on Al Cr	5ppb Au, 2ppm Cu, 5ppm Pb, 13ppm Zn, 1ppm Mo, 49ppm Cr, 1.34% Fe
TTB Map No. 35	Micaceous Schist, blocky - outcrop where valley begins to widen at 2.2km upstream on Al Cr	6ppb Au, **23ppm Cu**, 6ppm Pb, 25ppm Zn, **2ppm Mo,** 53ppm Cr, 1.75% Fe
TTC Map No. 36	Micaceous Schist, blocky, quartz veining on schistosity - right limit outcrop, 10-12' wide at 1.5km upstream on Al Cr	5ppb Au, 12ppm Cu, <ppm Pb, 14ppm Zn, 1ppm Mo, 191ppm Cr, 1.25% Fe
99CSQ1 Map No. 37	Quartz vein, bright reddish stained on surface of fractures - angular float from cat track near camp site	<5ppb Au, 3ppm Cu, <ppm Pb, 3ppm Zn, <ppm Mo, 97ppm Cr, 0.33% Fe
FT1 Map No. 38	Micaceous Schist, abundant pyrite, schist similar to left limit Al Cr outcrop at camp site - float from Al Cr camp	**9ppb Au, 0.5ppm Ag, 46ppm Cu**, 6ppm Pb, **87ppm Zn, 2ppm Mo,** 93ppm Cr, **3.32% Fe,** 1.31ppm Mg, **75ppm V**
RFQ 01	Gneiss, sparse banding, high gossan, fractures across	6ppb Au, 3ppm Cu, 16ppm Pb, 11ppm Zn, 1ppm Mo,

Map No. 39	banding some filled with limonite, quartz, limonite after pyrite - outcrop on 50 Mile Cr left limit just below cat ramp up Ralph Cr.	70ppm Cr, 0.93% Fe
RFH 01 Map No. 40	Gneiss, high gossan, high quartz - 4' x 14' outcrop on 50 Mile Cr left limit just below cat ramp up Ralph Cr.	**8ppb Au,** 0.1ppm Ag, 4ppm Cu, 3ppm Pb, 24ppm Zn, **4ppm Mo,** 75ppm Cr, 1.09% Fe
RFH 02 Map No. 41	Gneiss, high gossan, high quartz with included quartz lens, mostly all quartz run in samle - 4' x 10' outcrop on 50 Mile Cr left limit below cat ramp up Ralph Cr.	**10ppb Au,** 3ppm Cu, 3ppm Pb, 11ppm Zn, **2ppm Mo,** 116ppm Cr, 0.45% Fe
RFH 02G Map No. 42	Gneiss without quartz veining from RFH02	<5ppb Au, 3ppm Cu, 2ppm Pb, 16ppm Zn, **3ppm Mo,** 64ppm Cr, 0.87% Fe
RFH 03 Map No. 43	Gneiss, high quartz, high gossan - 4 inch wide outcrop 100' upstream of cat ramp up Ralph Cr	**9ppb Au,** 6ppm Cu, 3ppm Pb, 26ppm Zn, **2ppm Mo,** 82ppm Cr, 1.05% Fe
RFH 04 Map No. 44	Quartz vein, high gossan, highly fractured - at cat ramp up to Ralph Cr	**14ppb Au, 1.0ppmAg, 22ppm Cu, 65ppm Pb,** 69ppm Zn, **2ppm Mo,** 60ppm Cr, 0.94% Fe
RFH 05 Map No. 45	Quartz vein material, brittle - float below cat ramp up to Ralph Cr	**10ppb Au,** 2ppm Cu, 7ppm Pb, 3ppm Zn, <ppm Mo, 182ppm Cr, 0.22% Fe
RFH 06 Map No. 46	Gneiss, high gossan, high quartz, possible sparse pyrrhotite - 4' x 100' wide outcrop 60m above ramp up Ralph Cr	6ppb Au, **0.9ppm Ag,** 8ppm Cu, **39ppm Pb,** 58ppm Zn, **3ppm Mo,** 63ppm Cr, 0.95% Fe
RFH 07 Map No 47	Gneiss, moderate gossan, high quartz - 6' wide zone about 30m downstream of RFH07	6ppb Au, 3ppm Cu, 7ppm Pb, 34ppm Zn, **4ppm Mo,** 99ppm Cr, 1.05% Fe
RFH 08 Map No. 48	Gneiss, high gossan, high quartz, large and small, horizontal and vertical quartz veinlets cut the gneiss - outcrop along 50 Mile Cr, near Ralph Cr. mouth 40m down from RFH11.	**8ppb Au,** 11ppm Cu, 7ppm Pb, 14ppm Zn, 1ppm Mo, 106ppm Cr, 0.93% Fe
RFH 09 Map No. 49	Gneiss, high gossan, high quartz and associated quartz vein, - quartz visually hard to distinguish from gneiss as has same gossan and fracture pattern. Horizontal quartz vein 1' to 2' thick and vertical quartz vein 1' thick cuts	6ppb Au, 0.3ppm Ag, 9ppm Cu, **21ppm Pb,** 13ppm Zn, **3ppm Mo,** 79ppm Cr, 0.99% Fe

	gneiss - outcrop along 50 Mile Cr, near Ralph Cr. mouth 50m down from RFH11.	
RFH 10 Map No. 50	Quartz vein - pure white quartz from 18 inch x 9 inch boulder below RHF09	7ppb Au, 2ppm Cu,<ppm Pb, 2ppm Zn, <ppm Mo, 128ppm Cr, 0.18% Fe
RFH 11 Map No. 51	Quartz-vein like material from high quartz banded gneiss - outcrop along 50 Mile Cr, near Ralph Cr. mouth upstream 200m below bend in 50 Mile CR	4ppb Au,3ppm Cu, <ppm Pb, 15ppm Zn, 1ppm Mo, 145ppm Cr, 0.82% Fe
RFH 12 Map No. 52	Gneiss, high gossan, high quartz, sparse included quartz veinlets - taken 6' below RFH09	6ppb Au, 7ppm Cu, 4ppm Pb, 11ppm Zn, **2ppm Mo,** 87ppm Cr, 1.00% Fe
RFH 13 Map No. 53	Gneiss, high gossan, high quartz, considerable included quartz veinlets - taken near RFH12	**37ppb Au,** 6ppm Cu,8ppm Pb, 8ppm Zn, **2ppm Mo,** 57ppm Cr, 0.91% Fe
RFH 14 Map No. 54	Gneiss, greenish cast, high gossan, high quartz, quartz veinlets with quartz from veinlets quite brittle - taken 2' above RFH09	<5ppb Au, 1ppm Cu, 2ppm Pb, 16ppm Zn, **2ppm Mo,** 68ppm Cr, 0.63% Fe
RFH 15 Map No. 55	Quartz vein, 2' thick x 75' exposed - crosses 50 Mile Cr from vicinity of RFH09, sample on South side 75' from RFH09	<5ppb Au, 2ppm Cu, 3ppm Pb, 1ppm Zn, 1ppm Mo, 143ppm Cr, 0.17% Fe
RFH 16 Map No 56	Gneiss, will developed and abundant banding, weathered - taken from same zone as RFH06	<5ppb Au, 1ppm Cu, 2ppm Pb, 21ppm Zn, **2ppm Mo,** 56ppm Cr, 0.73% Fe
RFH 17 Map No. 57	12' wide quartz vein, quartz brittle and heavy - grab sample several hundred feet downstream of and on the opposite side of other quartz veins described under "RFH". Strike and dip shows possible correlation to upstream outcrops Underlies banded gneiss.	5ppb Au, 1ppm Cu,4ppm Pb, 6ppm Zn,1ppm Mo, 123ppm Cr, 0.37% Fe
RFH 17A Map No. 58	Quartz vein shown in RFH17 - grab sample from different location on vein.	5ppb Au, 1ppm Cu, 6ppm Pb, 2ppm Zn, 1ppm Mo, 140ppm Cr, 0 22% Fe
CSQV1 Map No. 59	Quartz vein material, 6'x300' exposed - 70' feet up on scarp on 50 Mile Cr left limit across from camp site	**38ppb Au,** 0.3ppm Ag, **35ppm Cu, 16ppm Pb,** 68ppm Zn, **13ppm Mo,** 72ppm Cr, 1.92% Fe

	tributary mouth.	
CSQV1 QTZ Map No. 60	Pure white quartz from CSQV1 vein	5ppb Au, 0.2ppm Ag, 14ppm Cu, 14ppm Pb, 26ppm Zn, 1ppm Mo, 55ppm Cr, 0.57% Fe
CSQV2 Map No. 61	Quartz vein material - from detritus at base of scarp on 50 Mile Cr left limit across from camp site tributary mouth	**27ppb Au,** 0.3pp Ag, **42ppm Cu, 17ppm Pb, 97ppm Zn, 4ppm Mo,** 128ppm Cr, **3.60% Fe, 113ppm V, 36ppm Ni,** 1.69% Mg
CSQV2A Map No. 62	Dark gray fine grained volcanic - from detritus at base of scarp on 50 Mile Cr left limit across from camp site tributary mouth	7ppb Au, 0.2ppm Ag, **48ppm Cu, 17ppm Pb, 111ppm Zn,** 1ppm Mo, 113ppm Cr, **3.42% Fe, 87ppm V, 47ppm Ni**
CSQV2B Map No. 63	Mica schist, blocky, weathered - from detritus at base of scarp on 50 Mile Cr left limit across from camp site tributary mouth	**19ppb Au,** 0.2ppm Ag, 35ppm Cu, 14ppm Pb, 54ppm Zn, **19ppm Mo,** 83ppm Cr, **2.76% Fe, 46ppm V**
MAI 98-1 Map No. 64	Dark green volcanic or gneiss, banded with actinolite along banding. Float representative of abundant heavy pebble type at about 14' in depth in pit 98-1.	**8ppb Au,** 0.1ppm Ag, 14ppm Cu, 9ppm Pb, 47ppm Zn, 1ppm Mo, 58ppm Cr, 1.75% Fe
CPMM 01 Map No. 65	Mafic boulder, shows hornblende and actinolite - float from pit 97-1 area	<5ppb Au, 3ppm Cu, 6ppm Pb, 40ppm Zn, 1ppm Mo, 56ppm Cr, 1.01% Fe, **7ppm As, 45ppm V, 1157ppm Mn, 0.90% Ca**
FMVR1 Map No. 66	Quartz vein material from lensing along bands of banded gneiss - 50 Mile Cr right limit across from first left limit pup below Cheryl Cr, outcrop at upstream side of dry pup cut. It is noted that outcrop on downstream side of this cut is gneiss with very little gossan. It is also noted that ridge along first left limit pup below Cheryl Cr would be good for access road construction.	7ppb Au, 2ppm Cu, 4ppm Pb, 8ppm Zn, 1ppm Mo, 109ppm Cr, 0.55% Fe
FMVR2 Map No. 67	Banded gneiss, sparse limonite after pyrite along bands - 50 Mile Cr right limit, outcrop at location of FMVR1	**8ppb Au,** 3ppm Cu, 2ppm Pb, 9ppm Zn, 1ppm Mo, 72ppm Cr, 0.63% Fe

Silt Sample Number	Description	Assay Highlights
CMPB1 Map No. 68	Top 12 inch x 12 inch of gravel of gravel bar at camp site on Al Cr taken as a two pan sample. Microscopic gold shows with 30X microscope. Depth to bedrock unknown. It is noted that this would be a good place to put a shaft	**79ppb Au, 27ppm Cu,** 14ppm Pb, 36ppm Zn, **3ppm Mo,** 172ppm Cr, **14.0% Fe, 271ppm As, 524ppm W, 149ppm V, 5699ppm Mn, 36ppm Co, 165ppm Ni,** 1.26% Ca,
TTBA Map No. 69	Silt sample taken at camp site on Al Cr	**10ppb Au, 46ppm Cu, 64ppm Pb, 152ppm Zn, 6ppm Mo,** 40ppm Cr, **8.04% Fe,** 1.45%Ca, 1.88%Mg, **13ppm As, 202ppm V, 1961ppm Mn, 32ppm Co, 34ppm Ni**
RAL17 Map No. 70	Ralph Cr drainage - on claim RAL17, 200m up from main fork on canyon-like wall	6ppb Au, **21ppm Cu, 16ppm Pb, 81ppm Zn,** 1ppm Mo, 56ppm Cr, 2.51% Fe, **9ppm As, 46ppmV, 14ppm Co, 76ppm Ni**
Map No. 71	Ralph Cr drainage - on claim RAL19, creek narrow with silt bottom	**8ppb Au, 19ppm Cu,**12ppm Pb, 79ppm Zn, 1ppm Mo, 41ppm Cr, 2.57% Fe, **7ppm As, 46ppm V, 51ppm Ni**
RAL24 Map No. 72	Ralph Cr drainage - on claim RAL24, midway up claim, 10' downstream of cave-in of 10' bank	**9ppb Au,** 0.1ppm Ag, **24ppm Cu, 16ppm Pb, 82ppm Zn,** 1ppm Mo, 40ppm Cr, 2.52% Fe, **10ppm As, 50ppm V, 47ppm Ni**
RAL27 Map No. 73	Ralph Cr drainage - on claim RAL27	7ppb Au, 0.1ppm Ag, **19ppm Cu,** 12ppm Pb, 79ppm Zn, **2ppm Mo,** 41ppm Cr, 2.45% Fe, **7ppm As,** 44ppm V, **51ppm Ni**
RAL30 Map No. 74	Ralph Cr drainage - on claim RAL30, Cr 2' wide with silty bottom, sample taken from under water	**9ppb Au, 23ppm Cu, 19ppm Pb, 84ppm Zn,** 1ppm Mo, 38ppm Cr, **2.65% Fe, 8ppm As, 48ppm V, 32ppm Ni**
F1 Map No. 75	Ralph Cr drainage - East tributary 200m up from fork, 2-3 times water flow of West tributary, gravel bottom	**10ppb Au,** 0.3ppm Ag, **38ppm Cu,** 17ppm Pb, **88ppm Zn, 2ppm Mo,** 37ppm Cr, **3.09% Fe, 19ppm As, 76ppm V, 15ppm Co, 28ppm Ni**

BERSLT#61 Map No. 76	Cheryl Cr drainage - Taken from side of pit 99-5	7ppb Au, 0.1ppm Ag, 21ppm Cu, **16ppm Pb**, 61ppm Zn, **2ppm Mo**, 27ppm Cr, **2.37% Fe, 18ppm As, 62ppm V**
CH99ST 02 Map No 77	Cheryl Cr drainage	**58ppb Au,** 23ppm Cu, **15ppm Pb**, 81ppm Zn, **2ppm Mo**, 34ppm Cr, **2.93% Fe, 13ppm As, 73ppm V**
CH99ST 03 Map No. 78	Cheryl Cr drainage	5ppb Au, 21ppm Cu, **15ppm Pb**, 75ppm Zn, **2ppm Mo**, 30ppm Cr, **2.69 Fe, 15ppm As, 66ppm V**
CH99ST 04 Map No. 79	Cheryl Cr drainage	**9ppb Au,** 20ppm Cu, **17ppm Pb**, 72ppm Zn, 1ppm Mo, 30ppm Cr, **2.91% Fe, 8ppm As, 78ppm V**
CH99ST 05 Map No. 80	Cheryl Cr drainage	**13ppb Au,** 23ppm Cu, 13ppm Pb, 75ppm Zn, **2ppm Mo**, 33ppm Cr, **3.06% Fe, 7ppm As, 81ppmV**
CH99ST 06 Map No. 81	Cheryl Cr drainage	**16ppb Au,** 0.1ppm Ag, 23ppm Cu, **29ppm Pb**, 76ppm Zn, **2ppm Mo**, 40ppm Cr, **3.71% Fe, 14ppmAs, 123ppm V**
CH99ST 07 Map No. 82	Cheryl Cr drainage	**13ppb Au,** 0.2ppm Ag, 20ppm Cu, **32ppm Pb**, 70ppm Zn, **2ppm Mo**, 23ppm Cr, 2.40% Fe, **32ppm As**
CH99ST 08 Map No. 83	Cheryl Cr drainage	7ppb Au, 23ppm Cu, 12ppm Pb, 63ppm Zn, 1ppm Mo, 27ppm Cr, 2.35% Fe, **55ppm V**
mosf99ss01 Map No. 84	Cheryl Cr drainage	**12ppb Au, 27ppm Cu, 32ppm Pb**, 51ppm Zn, **3ppm Mo**. 42ppm Cr, **3.29% Fe, 7ppm As, 113ppm V**
mosr99ss01 Map No. 85	Cheryl Cr drainage - silt from small main creek in MOSR99R09 area	**13ppb Au,** 18ppm Cu, **22ppm Pb**, 57ppm Zn, **4ppm Mo**, 47ppm Cr, 4.12% Fe, **13ppm Co, 117ppm V**
mcsr99ss02 Map No. 86	Cheryl Cr drainage	**25ppb Au, 0.5ppm Ag, 35ppm Cu, 70ppm Pb, 270ppm Zn, 2ppm Mo**, 23ppm Cr, **2.77% Fe, 124ppm As, 18ppmCo, 64ppm V, 2247ppm Mn**
mosf99ss02 Map No. 87	Cheryl Cr drainage	**9ppb Au,** 15ppm Cu, **15ppm Pb**, 50ppm Zn, 1ppm Mo, 23ppm Cr, **2.77% Fe, 12ppm As, 66ppm V**
mcsr99ss03 Map No. 88	Cheryl Cr drainage	6ppb Au, 0.1ppm Ag, 15ppm Cu, **30ppm Pb**, 66ppm Zn, 1ppm Mo, 18ppm Cr, **2.77% Fe, 21ppm As, 76ppm V**

mosf99ss03 Map No. 89	Cheryl Cr drainage	**8ppb Au,** 11ppm Cu, **16ppm Pb**, 44ppm Zn, 1ppm Mo, 15ppm Cr, 1.55% Fe, **13ppm As, 697ppm Mn**
mcsr99ss04 Map No. 90	Cheryl Cr drainage	**11ppb Au,** 0.2ppm Ag, **25ppm Cu, 37ppm Pb, 97ppm Zn, 2ppm Mo**, 24ppm Cr, **2.95% Fe, 34ppm As, 73ppm V**
mosf99ss04 Map No. 91	Cheryl Cr drainage - silt from main Cr	7ppb Au, 13ppm Cu, **16ppm Pb**, 46ppm Zn, 1ppm Mo, 19ppm Cr, 1.86% Fe, **8ppm As**
mcsr99ss05 Map No. 92	Cheryl Cr drainage - silt from East side small Cr	**20ppb Au,** 0.1ppm Ag, **33ppm Cu, 25ppm Pb**, 84ppm Zn, **2ppm Mo**, 28ppm Cr, **2.66% Fe, 21ppm As, 16ppm Co, 73ppm V, 802ppm Mn**
mosf99ss05 Map No. 93	Cheryl Cr drainage	**10ppb Au,** 18ppm Cu, 12ppm Pb, 53ppm Zn, 1ppm Mo, 40ppm Cr, 2.16% Fe, **52ppm V**
mosf99ss06 Map No. 94	Cheryl Cr drainage	**17ppb Au, 30ppm Cu, 17ppm Pb**, 81ppm Zn, 1ppm Mo, 21ppm Cr, **2.59% Fe, 10ppm As**
mosf99ss07 Map No. 95	Cheryl Cr drainage	6ppb Au, **29ppm Cu,** 10ppm Pb, 73ppm Zn, **2ppm Mo,** 38ppm Cr, **2.71% Fe, 8ppm As, 12ppm Co, 28ppm Ni, 64ppm V**
mosf99ss08 Map No. 96	Cheryl Cr drainage	**10ppb Au, 26ppm Cu**, 12ppm Pb, 76ppm Zn, 1ppm Mo, 24ppm Cr, 2.47% Fe, 5ppm As, **56ppm V**
mosf99ss09 Map No. 97	Cheryl Cr drainage	**10ppb Au,** 21ppm Cu, 10ppm Pb, 75ppm Zn, 1ppm Mo, 28ppm Cr, 2.56% Fe, **7ppm As, 58ppm V**
mosf99ss10 Map No. 98	Cheryl Cr drainage	**12ppb Au, 29ppm Cu, 15ppm Pb**, 85ppm Zn, 1ppm Mo, 29ppm Cr, **2.68% Fe**, 5ppm As, **12ppm Co, 59ppm V**

Henderson Sample Number	Description	Assay Highlights
HR1A Map No. 1	Bleached felsic volcanic, Mostly quartz, shows weathered limonite and magnetite. Vuggy were pyrite weathered	**23ppb Au**, 0.2ppm Ag, 10ppm Cu, 5ppm Pb, 28ppm Zn, **37ppm Mo, 3.5ppm Cd**, 82ppm Cr, 2.43% Fe
HR2 Map No. 2	Bleached, limonite stained granitic rock with quartz, feldspar and hornblende.	**180ppb Au,** 0.1ppm Ag , 4ppm Cu, 8ppm Pb, 41ppm Zn, **14ppm As, 2ppm Mo, 1.7ppm Cd**, 34ppm Cr, 1.08% Fe
HR3A Map No. 3	Highly altered yellow-ivory granitic rock with quartz, feldspar, hornblende, magnetite. Limonite stained.	**8ppb Au,** 0.1ppm Ag , 7ppm Cu, **14ppm Pb**, 61ppm Zn, 1ppm Mo, **3.4ppm Cd,** 47ppm Cr, **764ppm Mn**, 2 19% Fe, 265ppm Ba
HR3B Map No. 4	Greenish felsic volcanic with quartz, feldspar and hornblende. Porphyry - small to large inclusions of quartz and hornblende.	**20ppb Au,** 9ppm Cu, 10ppm Pb, 66ppm Zn, 1ppm Mo, **8ppm As, 2.2ppm Cd, 39ppm Ni,** 63ppm Cr, 1.76% Fe, 124ppm Ba
HR4 Map No. 5	Black and white (salt and pepper) granitic rock. Quartz, K-feldspar, hornblende showing transition to biotite. Possible Rhyolite.	**14ppb Au,** 1ppm Cu, 7ppm Pb, 10ppm Zn, 1ppm Mo, 100ppm Cr, 0.32% Fe
HR5 Map No. 6	Thin layered, high quartz, quartz-muscovite schist.	**23ppb Au,** 0.2ppm Ag, 5ppm Cu, <ppm Pb, 6ppm Zn, **4ppm Mo, 5ppm W, 250ppm Cr**, 0 62% Fe, **9ppm As**
CTQM Map No. 7	Highly bleached quartz, feldspar volcanic with sparse weathered pyrite. Possible quartz monzonite.	**2280ppb Au, 0.7ppm Ag**, 20ppm Cu, **28ppm Pb, 315ppm Zn, 65ppm Sb, 4ppm Mo, 3.7ppm Cd, 30ppm Ni**, 552ppm Ba, 25ppm Cr, 2.30% Fe, 552ppm Ba, **2696ppm As**
HR1-BR Map No. 8	Light colored, felsic volcanic brecia. Possible andesite. In immediate area of other HR1 samples.	<5ppb Au, 13ppm Cu, 13ppm Pb, 61ppm Zn, 1ppm Mo, **1.9ppm Cd,** 31ppm Cr, **59ppm V,** 2.25% Fe, 287ppm Ba, **16ppm As**
HR1-AM	Light colored, medium fine felsic volcanic. Possibly	<5ppb Au

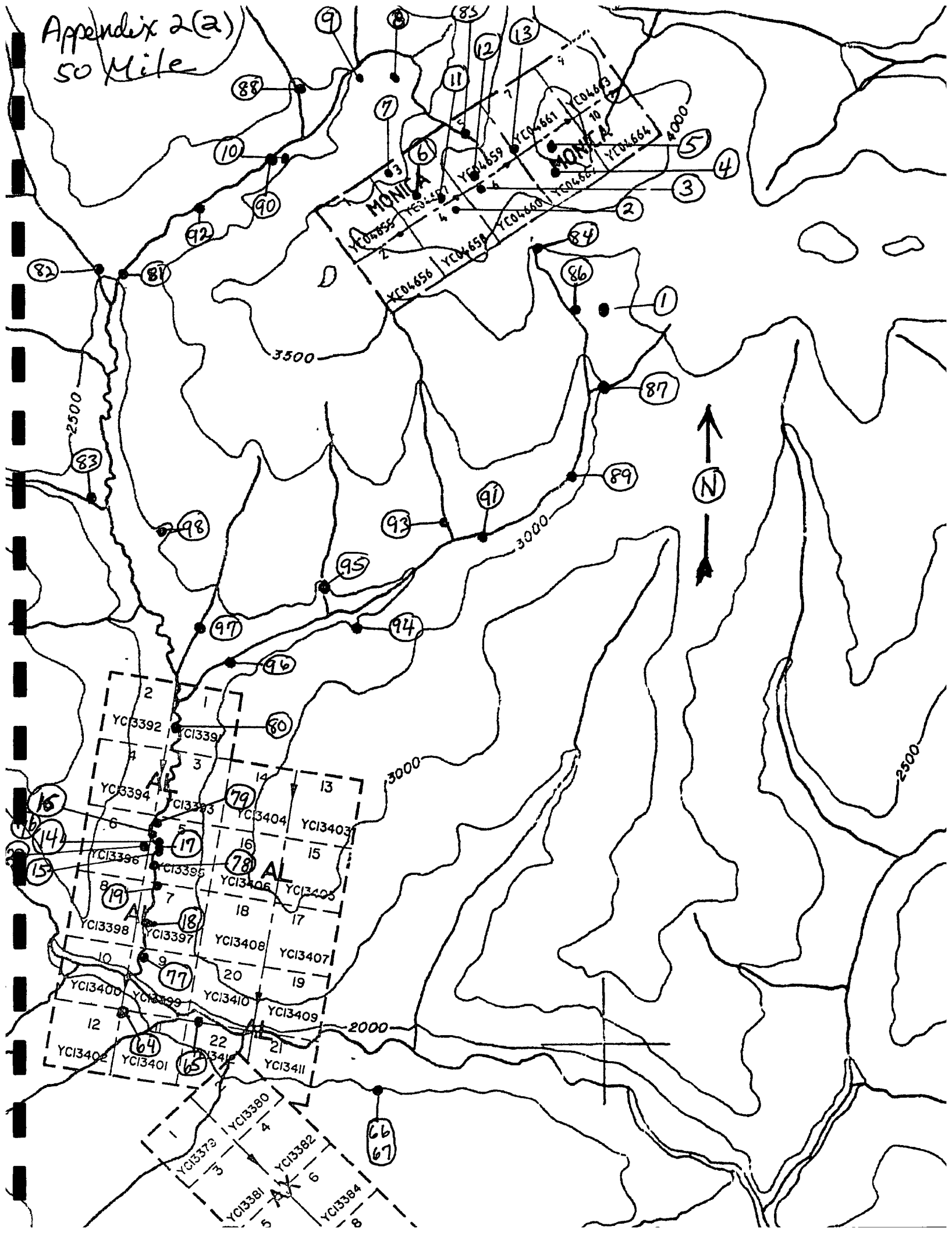
Map No. 9	andesite. In immediate area of other HR1 samples.	
HR1-ACC Map No. 10	Relatively coarsely crystalline, light colored volcanic. In immediate area of other HR1 samples.	<5ppb Au
HR1-UA Map No. 11	Unaltered, relatively coarse, felsic volcanic. In immediate area of other HR1 samples.	<5ppb Au, 0.1ppm Ag, 5ppm Cu, 4ppm Pb, 20ppm Zn, **2ppm Mo, 1.8ppm Cd**, 53ppm Cr, 0.96% Fe, 192ppm Ba, **14ppm As, 5ppm W**
HR1-UAF Map No. 12	Unaltered, medium fine, felsic volcanic. In immediate area of other HR1 samples.	<5ppb Au
HR2 Map No. 13	Altered light felsic volcanic. Taken from old Cat cut.	**12ppb Au, 0.7ppm Ag,** 12ppm Cu, **134ppm Pb, 221ppm Zn, 3ppm Mo, 5.2ppm Cd,** 21ppm Cr, **4.03% Fe**, 304ppm Ba, **52ppm V**
HR3 Map No. 14	Bleached, relatively light colored felsic volcanic. 25' exposed.	**8ppb Au**
HR3A Map No. 15	25' feet from HR3. Same rock type, but lighter color.	**14ppb Au**
HR4 Map No. 16	Slightly altered felsic volcanic.	<5ppb Au
HR5 Map No. 17	Moderated altered felsic volcanic	<5ppb Au
HR6 Map No. 18	Chalky gray, bleached, dense and soft, limestone.	<5ppb Au
HR7 Map No. 19	Chalky brownish gray, bleached, dense and soft, limestone.	<5ppb Au
HR8 Map No. 20	250'-300' exposure of light altered volcanic. Possibly andesite. Some Breccia. Some pyrite locally. Spotty silvery mineralization.	<5ppb Au, 8ppm Cu, **21ppm Pb,** 44ppm Zn, 1ppm Mo, **2.1ppm Cd,** 50ppm Cr, 1.06% Fe, 966ppm Ba, **17ppm As**
HR9 Map No. 21	Same area as HR8, but at bottom of Cat cut. Light altered volcanic. Possibly andesite. Some Breccia. Silvery pyrite.	<5ppb Au, 7ppm Cu,**13ppm Pb**, 38ppm Zn, 1ppm Mo, 1.7ppm Cd, 39ppm Cr, 0.96% Fe, 407ppm Ba, **9ppm As**

HR10 Map No. 22	Cat pit, same area as HR9. Soft, gray, limey felsic volcanic with small amount silvery pyrite.	<5ppb Au
HR10A Map No. 23	Same area as HR10. Slightly altered, gray felsic vocanic.	<5ppb Au
HR11 Map No. 24	Barren looking mica schist.	<5ppb Au
HR12 Map No. 25	Gray, breciated, lightly altered, felsic volcanic	<5ppb Au, 4ppm Cu, 5ppm Pb, 28ppm Zn, 1ppm Mo, **1.2ppm Cd,** 99ppm Cr, 0.71% Fe, 132ppm Ba, **14ppm As**
HR13 Map No. 26	More altered version of HR12. Black matrix and gossan.	<5ppb Au, 21ppm Cu, 12ppm Pb, **95ppm Zn, 3ppm Mo, 3.6ppm Cd, 14ppm Co,** 47ppm Cr, **4.05% Fe,** 364ppm Ba, 364ppm Ba, **120ppm V, 849ppm Mn, 26ppm As**
HR14 Map No. 27	Altered felsic volcanic. Dense, dark, black crystalline faces.	<5ppb Au, 0.1ppm Ag, 14ppm Cu, 10ppm Pb, **86ppm Zn, 4ppm Mo,** 2.8ppm Cd, 38ppm Cr, **4.07% Fe,** 456ppm Ba, **100ppm V**
HR16 Map No. 28	Zone of bleached, felsic volcanics. Possible andesite.	<5ppb Au
HR17 Map No. 29	Purplish volcanic brecia.	<5ppb Au
HR18 Map No. 30	Unaltered purplish breccia.	<5ppb Au, 8ppm Cu, 8ppm Pb, 47ppm Zn, 1ppm Mo, **2.8ppm Cd,** 45ppm Cr, 1.69% Fe, 145ppm Ba, **5ppm As**
HR18A Map No. 31	Same area as 18. Felsic volcanic. Denser, not breciated	4ppb Au, 7ppm Cu, 9ppm Pb, 38ppm Zn, 1 ppm Mo, **2.9ppm Cd,** 33ppm Cr, **1295ppm Mn,** 1.55% Fe, 196ppm Ba, **11ppm As, 9ppm W**
HR19 Map No. 32	Basalt like volcanic with olivine. Seems to grade to light felsic volcanic. (We have a discrepancy between assay sources. We need to have all <5ppm Au run again.)	**16ppb Au,** 0.1ppm Ag, 16ppm Cu, 11ppm Pb, 72ppm Zn, 1ppm Mo, **2.3ppm Cd, 16ppm Co, 134ppm Ni,** 74ppm Cr, **52ppmV, 2.82% Fe,** 233ppm Ba, **16ppm As**
HR20 Map No. 33	Light felsic volcanic. Purplish chalky cast. Dark laths - some reddish. (We have a discrepancy between assay	**11ppb Au,** 7ppm Cu, 4ppm Pb, 54ppm Zn, 1ppm Mo, **2.7ppm Cd,** 54ppm Cr, 1.43% Fe, **11ppm As,** 119ppm

	sources. We need to have all <5ppm Au run again.)	Ba
HR21 Map No 34	Light felsic volcanic. Light, brown laths partially weathered out. Feldspar laths weathered out and replaced with limonite. Some silvery, some golden pyrite in limonite. Dense matrix. Greenish cast to a fresh face.	<5ppb Au, 13ppm Cu, 6pm Pb, 66ppm Zn, **2ppm Mo, 3.2ppm Cd,** 65ppm Cr, 1.54% Fe, 187ppm Ba, **20ppm As**
HR23 Map No. 35	Largely unaltered felsic volcanic. Hornblende laths. Cube of olivine as porphritic inclusion.	<5ppb Au, 0.1ppm Ag, 9ppm Cu, 10ppm Pb, 49ppm Zn, **2ppm Mo, 3.4ppm Cd,** 22ppm Cr, **765ppm Mn,** 1.93% Fe, **6ppm As**
HR24 Map No. 36	50' to100' of darkish volcanic. Some limonite replacement of feldspar laths. Olivine granules and biotite. Lighter colored material associated nearby run as HR24A,	<5ppb Au, 0.1ppm Ag, 16ppm Cu, **19ppm Pb,** 78ppm Zn, **2ppm Mo, 2.0ppm Cd, 53ppm Ni,** 58ppm Cr, **53ppm V, 2.59% Fe,** 288ppm Ba, **22ppm As**
HR24A Map No. 37	Lighter colored, less weathered version of HR24.	<5ppb Au
HR25 Map No. 38	Light gray, essentially unaltered felsic volcanic. Possibly andesite. Limonite laths.	<5ppb Au, 0.1ppm Ag, 9ppm Cu, **13ppm Pb,** 49ppm Zn, 1ppm Mo, **3.0ppm Cd,** 36ppm Cr, 1.70% Fe, **9ppm As**
HR26 Map No. 39	Darker felsic volcanic with a greenish cast. Dense and largely unaltered.	5ppb Au, 0.1ppm Ag, 13ppm Cu, **42ppm Pb, 108ppm Zn, 2ppm Mo, 2.3ppm Cd,** 21ppm Cr, **2.73% Fe,** 106ppm Ba, **9ppm As, 5ppm W**
HR27 Map No. 40	Light felsic volcanic with a purplish cast. Medium grained and largely unaltered.	6ppb Au, 0.1ppm Ag, 7ppm Cu, 8ppm Pb, 36ppm Zn, 1ppm Mo, **2.8ppm Cd,** 32ppm Cr, 1.54% Fe, 101ppm Ba, **16ppm As**
HR28 Map No. 41	Limonite stained felsic volcanic in relatively long Cat cut. Fairly dense but soft to knife blade. Grades to a more reddish/green which is taken as HR29.	<5ppb Au, 13ppm Cu, 9ppm Pb, 72ppm Zn, **2.1ppm Cd, 30ppm Ni,** 21ppm Cr, **1116ppm Mn,** 2.47% Fe, 143ppm Ba, **20ppm As**
HR29 Map No. 42	Mix of reddish/greenish versions of HR28. (We have a discrepancy between assay sources. We need to have all <5ppm Au run again.)	**8ppb Au,** 6ppm Cu, 5ppm Pb, 53ppm Zn, 1ppm Mo, **1.8ppm Cd,** 29ppm Cr, 2.21% Fe, 122ppm Ba, **15ppm As**
HR30	Hard, light green felsic volcanic. (We have a discrepancy	**15ppb Au,** 18ppm Cu, 11ppm Pb, 61ppm Zn, **1ppm Mo,**

Map No. 43	between assay sources. We need to have all <5ppm Au run again.)	**6.6ppm Cd,** 18ppm Cr, **52ppm V, 3.00% Fe,** 105ppm Ba, **15ppm As**
HR31 Map No. 44	Highly bleached quartz, feldspar volcanic with sparse weathered pyrite Possible quartz monzonite. Looks similar to high value CTQM. Also associated with greener version. 20" by 50' exposed in Cat cut.	<5ppb Au, 9ppm Cu, 12ppm Pb, 77ppm Zn, **1.7ppm Cd,** 18ppm Cr, **59ppmV,** 2.46% Fe, **22ppm As, 6ppm W**
HR32 Map No. 45	Similar to HR31, but with fewer vugs. At another Cat cut about 300' away.	<5ppb Au, 13ppm Cu, **13ppm Pb,** 63ppm Zn, 1ppm Mo, **2.1ppm Cd,** 20ppm Cr, **64ppm V,** 2.37% Fe, 251ppm Ba, **18ppm As**
HR33 Map No. 46	Mica schist.	<5ppb Au, 9ppm Cu, <2ppm Pb, 49ppm Zn, **1.7ppm Cd,** 77ppm Cr, 2.06% Fe, 146ppm Ba, **22ppb As**
HR34 Map No. 47	Greenish, largely unaltered volcanic. Looks mafic with an apple green cast throughout. (We have a discrepancy between assay sources. We need to have all <5ppm Au run again)	7ppb Au, 8ppm Cu, 6ppm Pb, 52ppm Zn, **2ppm Mo, 2.2ppm Cd, 29ppm Ni,** 38ppm Cr, 1.31% Fe, **9ppm As, 5ppm W**
HRJ-1 Map No 48	Bleached, altered felsic volcanic with limonite after feldspar laths. Possible andesite.	<5ppb Au, 11ppm Cu, **36ppm Pb,** 34ppm Zn, **2ppm Mo,** 46ppm Cr, 1.03% Fe, 154ppm Ba, **17ppm As**
HRJ-2 Map No 49	Altered dense felsic volcanic. Manganese dendrites along seams.	<5ppb Au, 6ppm Cu, **30ppm Pb,** 43ppm Zn, **2ppm Mo,** 55ppm Cr, 1.00% Fe, 243ppm Ba, **22ppm As**
HRJ-3 Map No. 50	Altered dense volcanic. Looks jasparoidal. Cream color.	<5ppb Au, 6ppm Cu, **36ppm Pb,** 38ppm Zn, 1ppm Mo, 36ppm Cr, 0.95% Fe, 356ppm Ba, **28ppm As**
HRJ-4 Map No. 51	Largely unaltered felsic volcanic Possible andesite	<5ppb Au, **0.2ppm Ag, 23ppm Cu, 39ppm Pb, 102ppm Zn, 3ppm Mo,** 31ppm Cr, **121ppm V, 1390ppm Mn, 186ppm Sr, 4.28% Fe,** 463ppm Ba, **3.49% Ca, 1.14% Mg, 30ppm As, 6ppm W**
HRJ-5 Map No. 52	High quartz schist with pink staining and small pieces of pyrite.	<5ppb Au, 6ppm Cu, 4ppm Pb, 6ppm Zn, 1ppm Mo, 78ppm Cr, 0.40% Fe
HRJ-6	Denser form of quartz schist/gneiss, with pink staining.	<5ppb Au, 8ppm Cu,9ppm Pb, 41ppm Zn, 1ppm Mo,

Map No. 53		77ppm Cr, 1.67% Fe, 138ppm Ba, **16ppm As**
HRJ-7 Map No. 54	Light gray felsic volcanic that grades to a brecia. In Cat trench 300' long 100' exposed bedrock shows pyrite. Trench 4' deep.	<5ppb Au, 5ppm Cu, **15ppm Pb, 84ppm Zn, 2ppm Mo,** 35ppm Cr, 956ppm Mn, 64ppm Sr, 3.16%Ca, 0.49%Mg, **2.56% Fe**, 890ppm Ba, **32ppm As**


Appendix 2(2)
50 Mile
MONICA
MONICA
D
A
AL
AL
AL
AX
3500
3000
2500
2000
4000
N
YCI3392
YCI3394
YCI3396
YCI3398
YCI3400
YCI3402
YCI3401
YCI3399
YCI3397
YCI3395
YCI3393
YCI3391
YCI3390
YCI3404
YCI3406
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YCI3410
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YCI3407
YCI3405
YCI3403
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YCI3380
YCI3382
YCI3381
YCI3384
YCI4659
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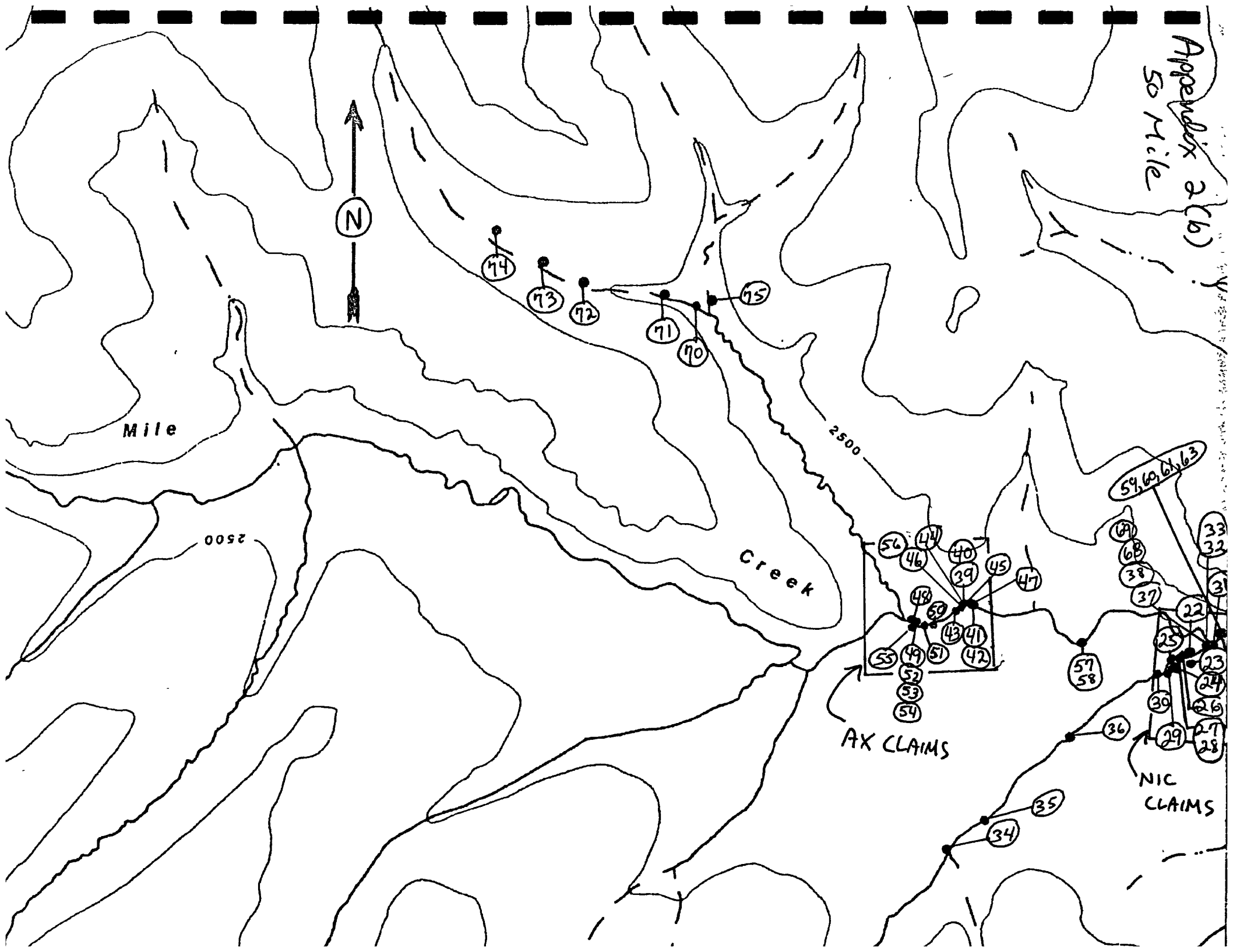
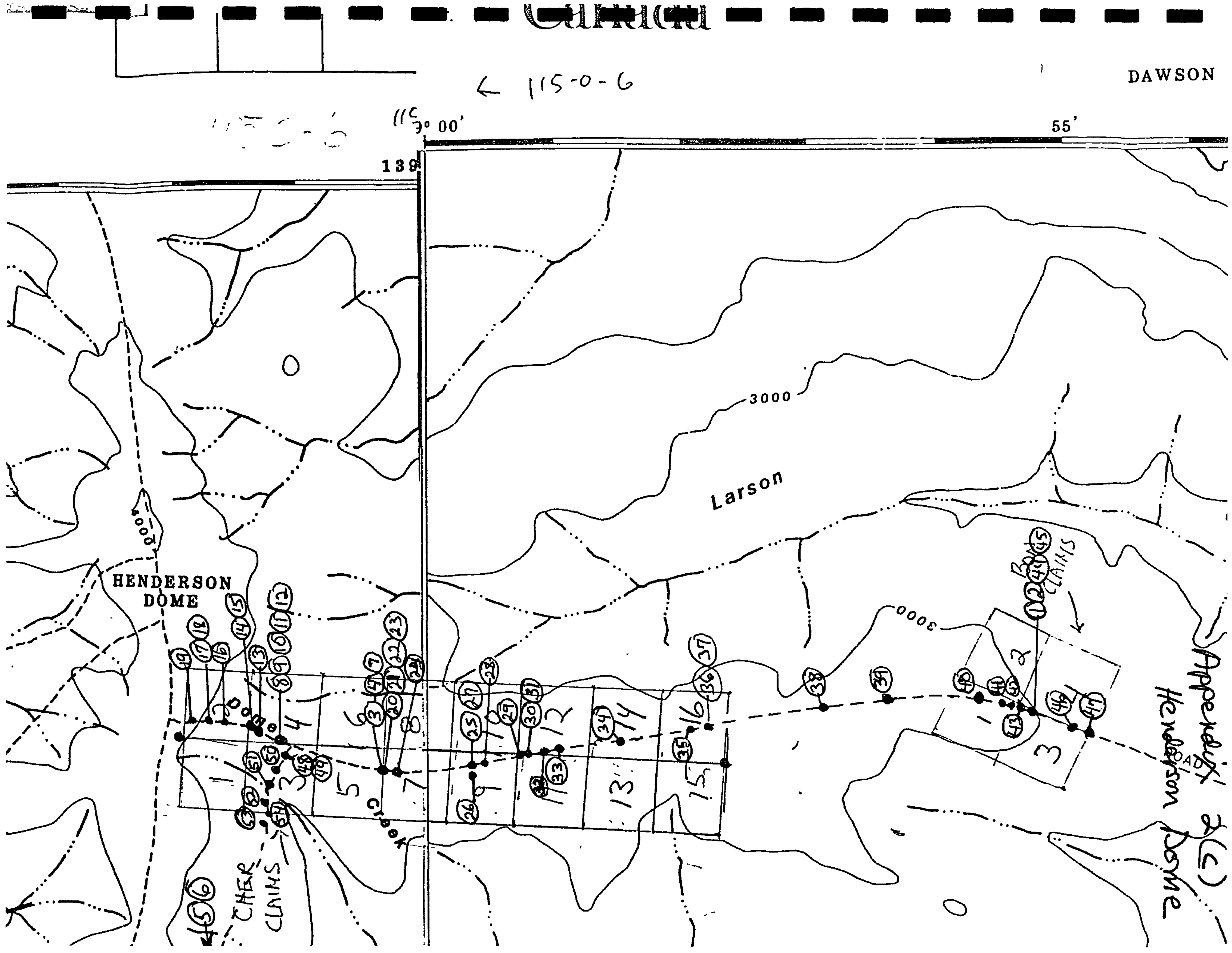
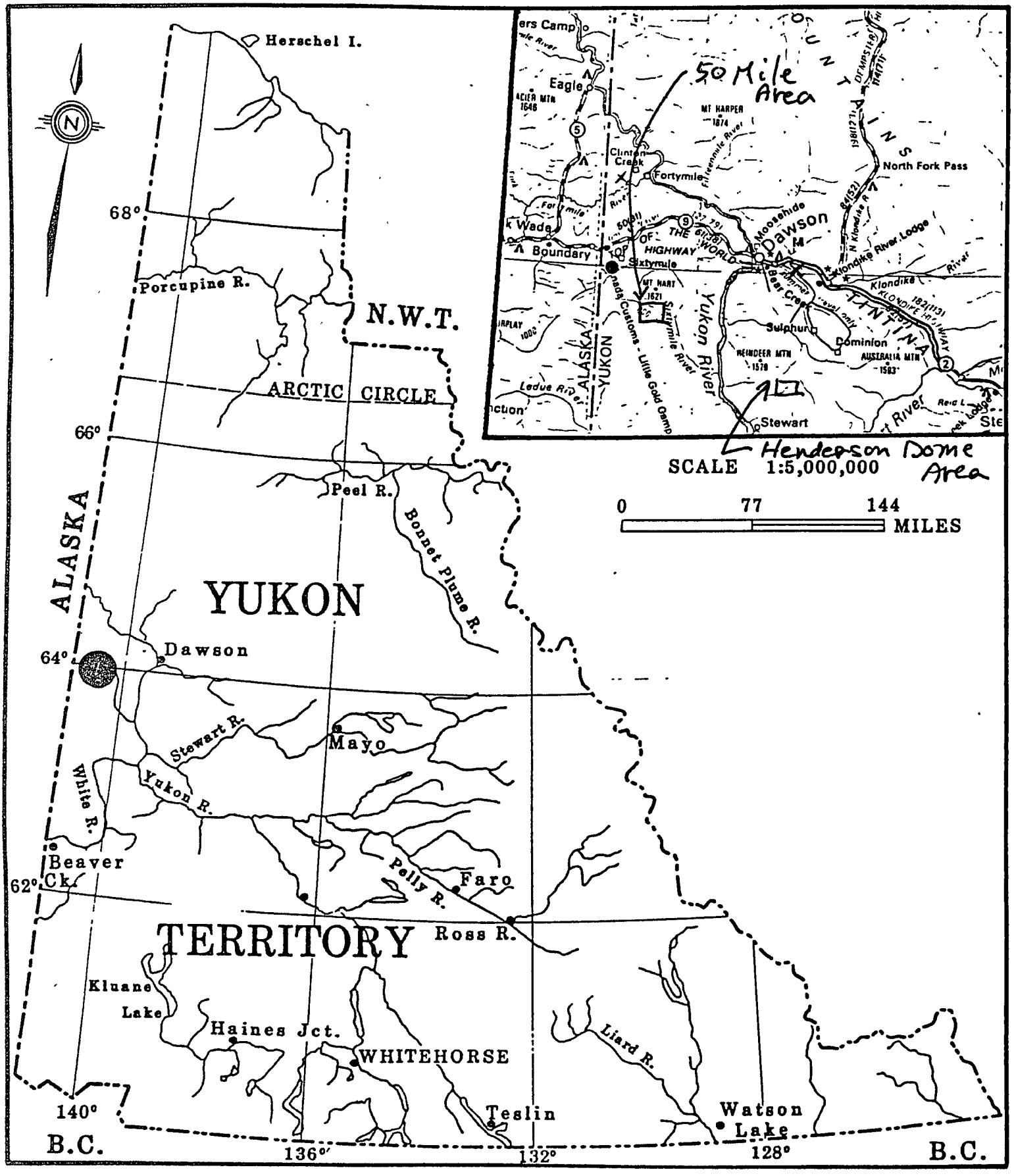
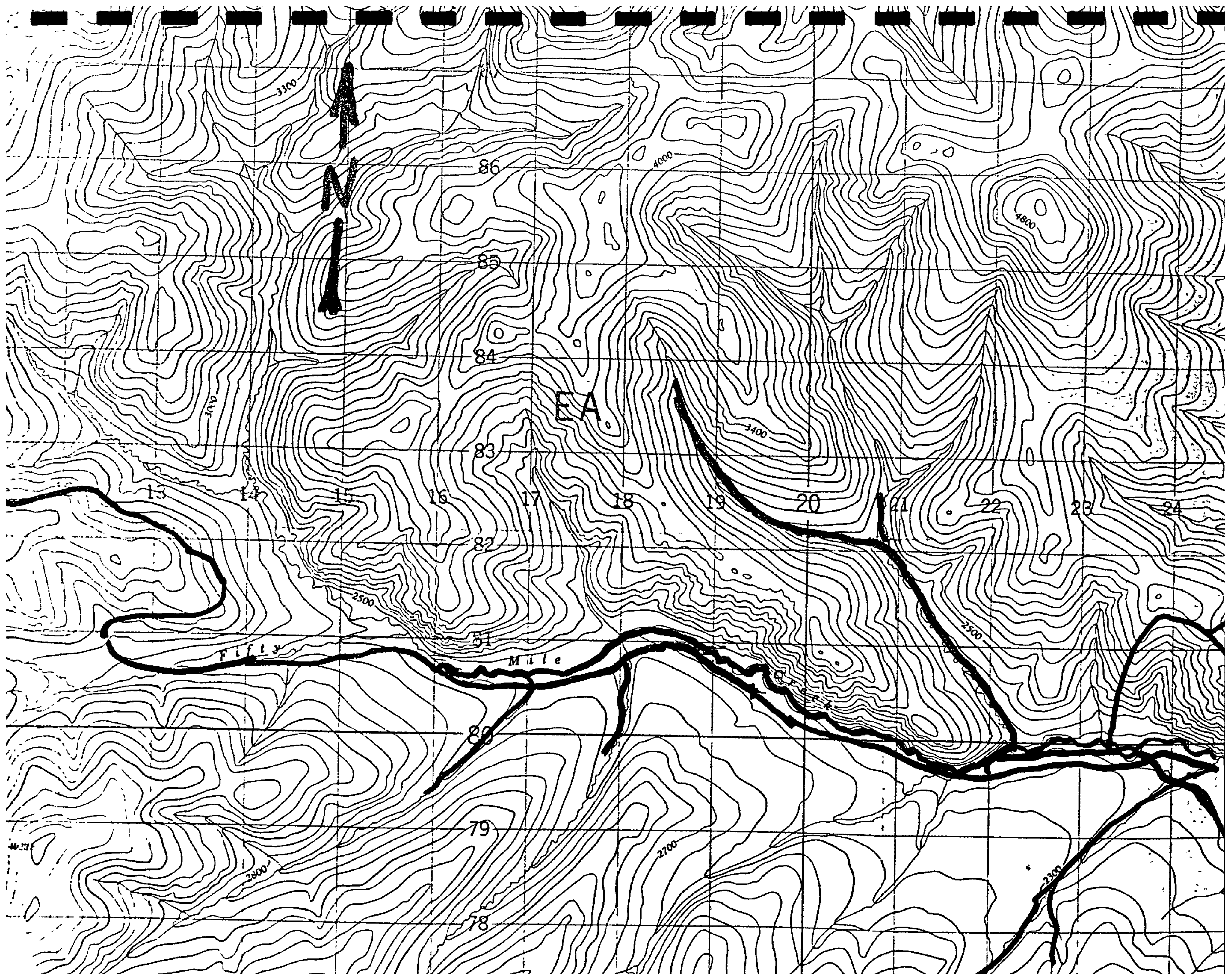
YCI4654


Appendix 2(6)
50 Mile
N
74
73
72
71
70
75
Mile
2500
Creek
2500
59, 60, 61, 63
AX CLAIMS
NIC CLAIMS


DAWSON
← 115-0-6
00'
55'
139
3000
Larson
HENDERSON DOME
4000
Dome Creek
BOW CLAIMS
CHER CLAIMS
ROAD
Appendix 2(c) Henderson Dome

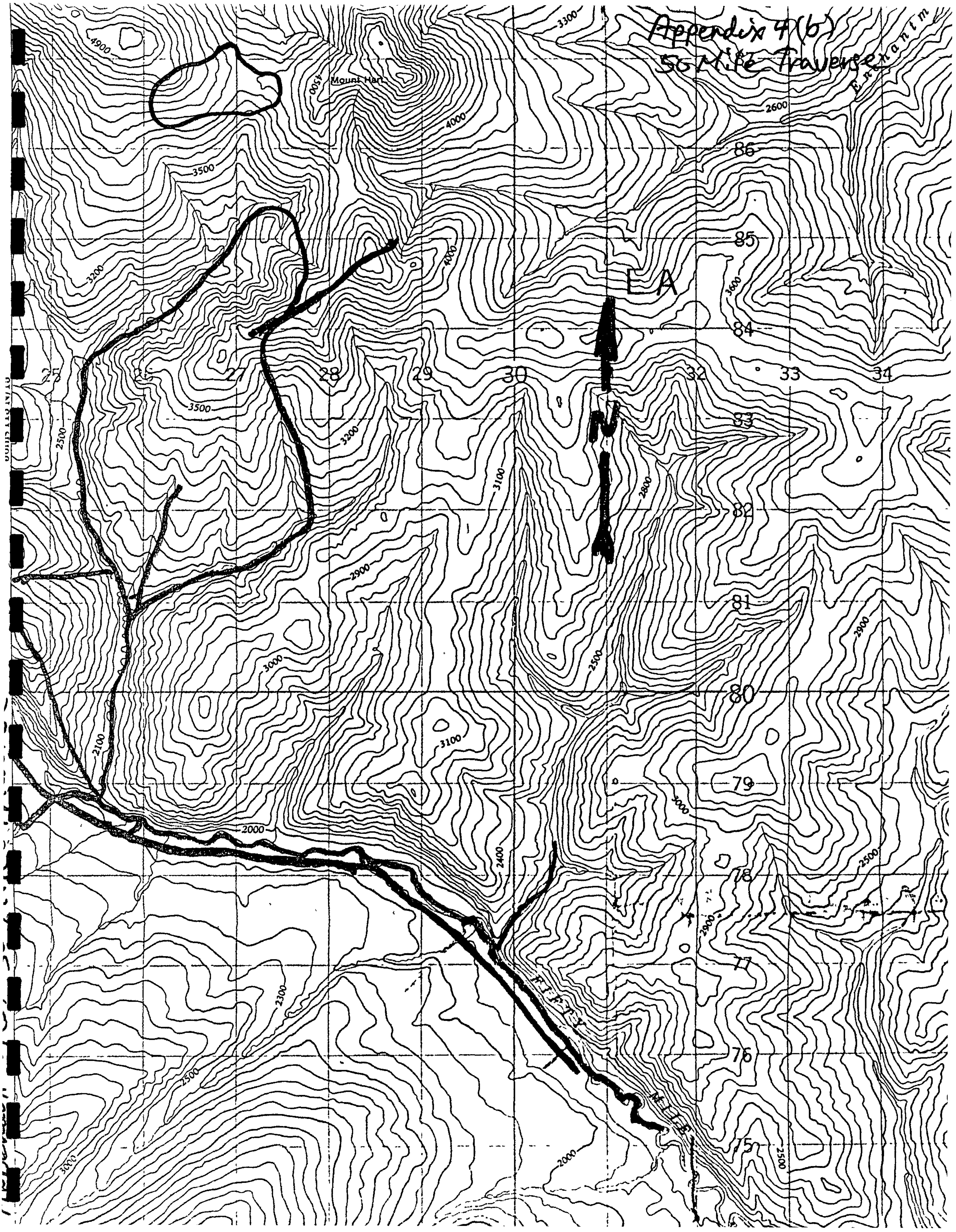
Appendix 3. Location Map

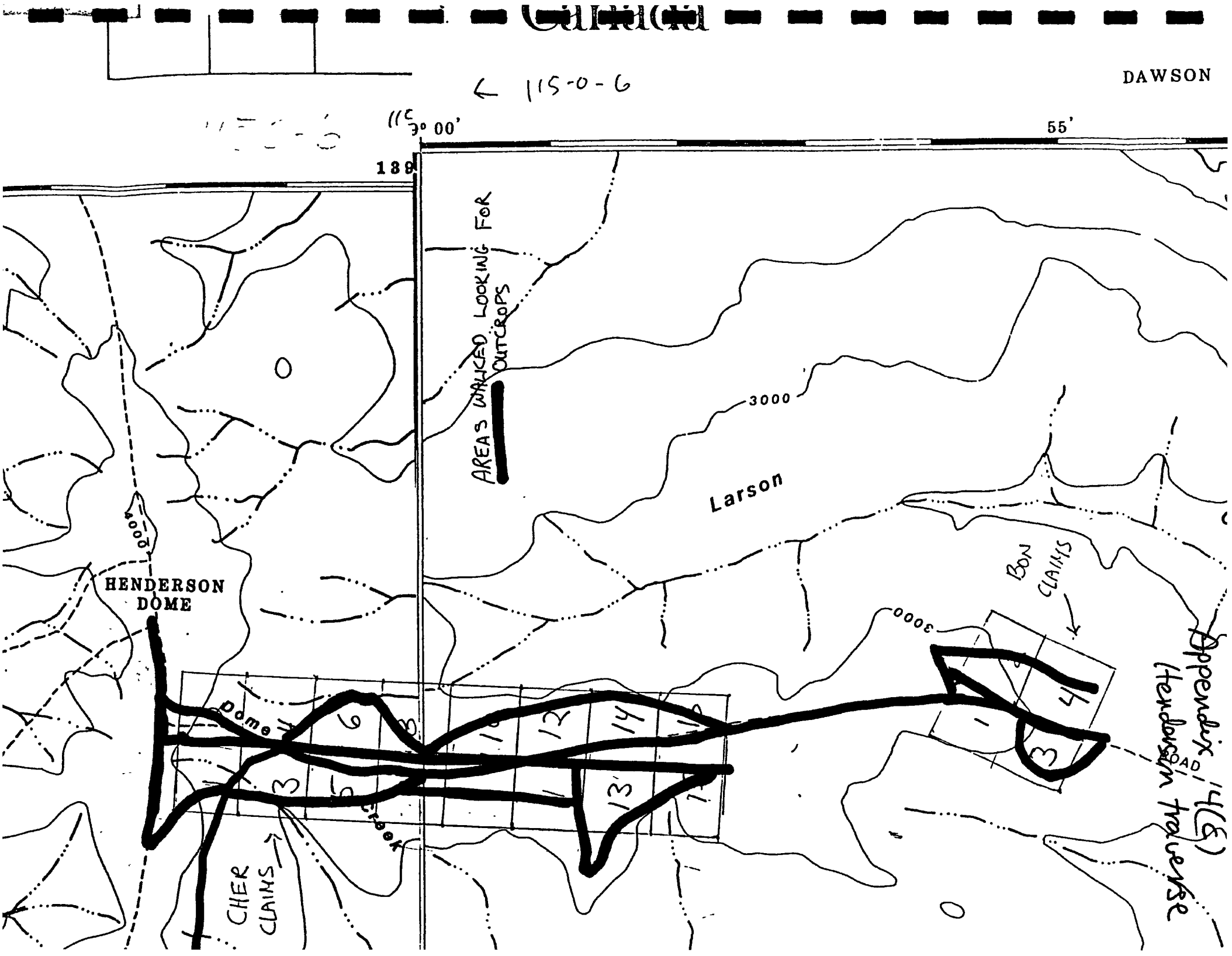




Appendix 4(a) 50 Mile Traverse

Appendix 4(b) 50 Mile Traverse




← 115-0-6
DAWSON
115° 00'
55'
189
AREAS WALKED LOOKING FOR OUTCROPS
3000
Larson
HENDERSON DOME
Dome
Creek
CHER CLAIMS
BON CLAIMS
Appendix 4(6)
Henderson traverse
ROAD

CERTIFICATE OF ANALYSIS

May 7, 99

iPL 99E0347

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B.C
Canada V5Y 3E1
Phone (604) 879-7878
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[034709:59:29:99050799]

Northern Analytical Laboratories

Project. : None Given
Shipper : Norm Smith
Shipment: PO#:
Analysis:
Au(FA/AAS 20g) ICP(AqR)30

Comment:

18 Samples Out: May 07, 1999 In: May 03, 1999

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B22301	7	Pan Conc	Additional Pulverization/Reject or Pan Conc.	12M/Dis	00M/Dis
B211	11	Rock	crush, split & pulverize	12M/Dis	03M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

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Canada					
Att: Norm Smith	Ph:867/668-4968				
	Fx:867/668-4890				
	Em:NAL@hypertech.yk.ca				

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0803	Spec	g	Weight in gram (3 Decimal)	Wt	0.001	999.000
02	0312	FA/AAS	ppb	Au FA/AAS finish 20g	Gold	5	10000
03	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
04	0711	ICP	ppm	Cu ICP	Copper	1	20000
05	0714	ICP	ppm	Pb ICP	Lead	2	20000
06	0730	ICP	ppm	Zn ICP	Zinc	1	20000
07	0703	ICP	ppm	As ICP	Arsenic	5	10000
08	0702	ICP	ppm	Sb ICP	Antimony	5	1000
09	0732	ICP	ppm	Hg ICP	Mercury	3	10000
10	0717	ICP	ppm	Mo ICP	Molydenum	1	1000
11	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
12	0705	ICP	ppm	Bi ICP	Bismuth	2	10000
13	0707	ICP	ppm	Cd ICP	Cadmium	0.1	100.0
14	0710	ICP	ppm	Co ICP	Cobalt	1	10000
15	0718	ICP	ppm	Ni ICP	Nickel	1	10000
16	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
17	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
18	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
19	0729	ICP	ppm	V ICP	Vanadium	2	10000
20	0716	ICP	ppm	Mn ICP	Manganese	1	10000
21	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
22	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
23	0731	ICP	ppm	Zr ICP	Zirconium	1	10000
24	0736	ICP	ppm	Sc ICP	Scandium	1	10000
25	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
26	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
27	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	10.00
28	0712	ICP	%	Fe ICP	Iron	0.01	10.00
29	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
30	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
31	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
32	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 99E0347

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client : Northern Analytical Laboratories
Project: None Given

18 Samples
7=Pan Conc. 11=Rock

[034709:59.29:99050799]

Out: May 07, 1999
In : May 03, 1999

Sample Name	Type	Wt g	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm
7-10 Pan1	Pan Conc.	10.227	2410	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7-10 Pan2	Pan Conc.	2.421	1850	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7-10 Pan3	Pan Conc.	33.112	4960	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7-10 Pan5	Pan Conc.	8.526	263	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
JBBB	Pan Conc.	208.040	254m	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
JFOF	Pan Conc.	233.470	3800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
JSCS	Pan Conc.	111.290	374m	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HR1A	Rock	—	23	0.2	10	5	28	<5	<5	<3	37	<10	<2	3.5	2	4	36	<5	82
HR2	Rock	—	180	0.1	4	8	41	14	<5	<3	2	<10	<2	1.7	2	3	75	<5	34
HR3A	Rock	—	8	0.1	7	14	61	<5	<5	<3	1	<10	<2	3.4	4	7	265	<5	47
HR3B	Rock	—	20	<0.1	9	10	66	8	<5	<3	1	<10	<2	2.2	7	39	124	<5	63
HR4	Rock	—	14	<0.1	1	7	10	<5	<5	<3	1	<10	<2	0.3	<1	2	57	<5	100
HR5	Rock	—	23	0.2	5	<2	6	9	<5	<3	4	<10	<2	0.6	1	8	76	5	250
CTQM	Rock	—	2280	0.7	20	28	315	2696	65	<3	4	<10	<2	3.7	6	30	552	<5	25
MCS	Rock	—	19	0.2	702	14	339	111	<5	<3	2	61	<2	14.5	17	169	279	<5	411
WR1	Rock	—	15	<0.1	80	5	83	51	<5	<3	1	<10	<2	6.1	29	24	746	<5	34
YKQ	Rock	—	16	0.2	5	<2	6	5	<5	<3	2	<10	<2	0.2	<1	4	601	<5	122
50MQT	Rock	—	6	<0.1	5	<2	3	<5	<5	<3	2	<10	<2	0.7	1	7	26	<5	298
Minimum Detection		0.001	5	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1
Maximum Detection		999.000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	100.0	10000	10000	10000	1000	10000
Method		Spec	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS
iPL 99E0347

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2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client : Northern Analytical Laboratories — **18 Samples** — 7=Pan Conc. 11=Rock — [034709:59:29 99050799]
Project. None Given — Out: May 07, 1999 — In : May 03, 1999

Sample Name	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
7-10 Pan1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7-10 Pan2	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7-10 Pan3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7-10 Pan5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
JBBB	—	—	—	—	—	—	—	—	—	—	—	—	—	—
JFOF	—	—	—	—	—	—	—	—	—	—	—	—	—	—
JSCS	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HR1A	24	95	11	29	4	3	0.01	0.30	0.10	2.43	0.10	0.24	0.03	0.04
HR2	21	102	26	51	5	2	0.04	0.58	0.43	1.08	0.19	0.12	0.09	0.06
HR3A	26	764	29	36	5	3	0.01	0.42	0.28	2.19	0.06	0.13	0.06	0.08
HR3B	35	291	25	64	12	3	0.06	0.69	0.53	1.76	0.89	0.11	0.12	0.09
HR4	<2	52	<2	12	2	1	0.01	0.21	0.07	0.32	0.03	0.12	0.07	<0.01
HR5	8	56	6	4	5	1	<0.01	0.22	0.02	0.62	0.01	0.11	0.02	<0.01
CTQM	23	206	21	39	11	5	<0.01	0.56	0.06	2.30	0.02	0.13	0.01	0.03
MCS	489	107	6	35	3	45	<0.01	2.30	0.13	8.90	0.02	0.03	0.01	0.51
WR1	72	829	<2	49	2	3	0.12	2.48	1.78	3.64	2.08	0.04	0.03	0.07
YKQ	3	20	11	9	3	<1	<0.01	0.17	0.03	0.38	0.03	0.11	0.02	<0.01
50MQT	3	45	<2	3	1	<1	<0.01	0.09	0.05	0.45	0.04	0.01	0.02	<0.01
Minimum Detection	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10000	10000	1.00	10.00	10.00	10.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

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iPL 99D0309

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Client : RJAS Minerals International
Project: None Given

2 Samples
2=Pulp

[030914:44:15:99042199]

Out: Apr 21, 1999
In : Apr 19, 1999

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	Te ppm
TC5	<	17	15	17	<	5	<	3	<	<	1.4	4	7	64	<	210	4	30	2	7	4	<	0.03	0.21	0.06	0.73	0.03	0.14	0.03	0.01	<
#12	<	5	3	7	<	<	<	4	<	<	0.6	1	9	25	<	245	<	41	2	4	2	<	<	0.09	0.04	0.45	0.06	0.03	0.02	0.01	<
Min Limit	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	10
Max Reported*	99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00	9999
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

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iPL 99D0309

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Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

[030914:44:15:99042199]

RJAS Minerals International

Project : None Given
Shipper : Albert Rudi
Shipment: PO#:

Analysis:
ICP(AqR)30
add Te analysis on 2 samples

Comment:
Requested by Albert Rudis via email
Sample re:iPL99D0294

2 Samples Out: Apr 21, 1999 In: Apr 19, 1999

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
8311	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Document Distribution

1 RJAS Minerals International
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Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00
31	0746	ICP	ppm	Te ICP	Tellurium	10	9999

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BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 99F0431

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Northern Analytical Laboratories

1 **Samples** Out: Jun 01, 1999 In: Jun 01, 1999 [043114:38:36:99060199]

Project : None Given
Shipper : Norm Smith
Shipment: PO#:

Analysis:
Au(FA/Grav 1AT)
ICP(AqR)Te

Comment:
Unable to analyze sample for Bi < 2 ppm
Sample from iPL99E0347

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B311	1	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
02	0746	ICP	ppm	Te ICP	Tellurium	10	10000

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1 Northern Analytical Laboratories
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iPL 99F0431

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Canada V5Y 3E1
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Fax (604) 879-7898

Client : Northern Analytical Laboratories
Project: None Given

1 Samples
1=Pulp

[043114:38:36:99060199]

Out: Jun 01, 1999
In : Jun 01, 1999

Sample Name	Type	Au g/mt	Te ppm
CTQM	Pulp	2.30	<10
Minimum Detection		0.07	10
Maximum Detection		9999.00	10000
Method		FAGrav	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

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E-mail: NAL@hypertech.yk.ca

Jun 6, 99

08/06/99 Certificate of Analysis Page 1

Al Rudis WO# 05652

Certified by

	Sample #	Au ppb
r	HR1-ACC	<5
r	HR1-AM	<5
r	HR1-BR	<5
r	HR1-UA	<5
r	HR1-UAF	<5
r	HR-2	12
r	HR-3	8
r	HR-3A	14
r	HR-4	<5
r	HR-5	<5
r	HR-6	<5
r	HR-7	<5
r	HR-8	<5
r	HR-9	<5
r	HR-10	<5
r	HR-10A	<5
r	HR-11	<5
r	HR-12	<5
r	HR-13	<5 — 42
r	HR-14	<5
r	HR-16	<5
r	HR-17	<5
r	HR-18	<5
r	HR-18A	<5 — 4
r	HR-19	<5 — 16
r	HR-20	<5 — 11
r	HR-21	<5
r	HR-23	<5
r	HR-24	<5
r	HR-24A	<5

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Al Rudis

WO# 05652

Certified by

	Sample #	Au ppb
r	HR-25	<5
r	HR-26	5
r	HR-27	6
r	HR-28	<5
r	HR-29	<5 - 8
r	HR-30	<5 - 15
r	HR-31	<5
r	HR-32	<5
r	HR-33	<5
r	HR-34	<5 - 7
r	EUR-1	<5
r	EUR-3	<5
r	DOM-LPS	<5
r	DOM-3MS	<5

CERTIFICATE OF ANALYSIS
iPL 99F0441

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Fax (604) 879-7898

Northern Analytical Laboratories

27 **Samples** Out: Jun 07, 1999 In: Jun 02, 1999 [044110:51:48:99060799]

Project : WO#05652
Shipper : Norm Smith
Shipment: PO#: 054588
Analysis:
Au/Pt/Pd(FA/AAS 30)
ICP(AqR)30+Te
Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B311	27	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Document Distribution

1 Northern Analytical Laboratories
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Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0313	FA/AAS	ppb	Au FA/AAS finish 30g	Gold	2	10000
02	0331	FA/AAS	ppb	Pt FA/AAS finish 30g	Platinum	15	10000
03	0341	FA/AAS	ppb	Pd FA/AAS finish 30g	Palladium	5	10000
04	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
05	0711	ICP	ppm	Cu ICP	Copper	1	20000
06	0714	ICP	ppm	Pb ICP	Lead	2	20000
07	0730	ICP	ppm	Zn ICP	Zinc	1	20000
08	0703	ICP	ppm	As ICP	Arsenic	5	10000
09	0702	ICP	ppm	Sb ICP	Antimony	5	1000
10	0732	ICP	ppm	Hg ICP	Mercury	3	10000
11	0717	ICP	ppm	Mo ICP	Molydenum	1	1000
12	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
13	0705	ICP	ppm	Bi ICP	Bismuth	2	10000
14	0707	ICP	ppm	Cd ICP	Cadmium	0.1	100.0
15	0710	ICP	ppm	Co ICP	Cobalt	1	10000
16	0718	ICP	ppm	Ni ICP	Nickel	1	10000
17	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
18	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
19	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
20	0729	ICP	ppm	V ICP	Vanadium	2	10000
21	0716	ICP	ppm	Mn ICP	Manganese	1	10000
22	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
23	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
24	0731	ICP	ppm	Zr ICP	Zirconium	1	10000
25	0736	ICP	ppm	Sc ICP	Scandium	1	10000
26	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
27	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
28	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	10.00
29	0712	ICP	%	Fe ICP	Iron	0.01	10.00
30	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
31	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
32	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
33	0719	ICP	%	P ICP	Phosphorus	0.01	5.00
34	0746	ICP	ppm	Te ICP	Tellurium	10	10000

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BC Certified Assayer: David Chiu

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Client : Northern Analytical Laboratories
Project: WO#05652

27 Samples
27=Pulp

[044110:51:48:99060799]

Out: Jun 07, 1999
In : Jun 02, 1999

Sample Name	Type	Au ppb	Pt ppb	Pd ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm
EUR-1	Pulp	—	—	—	<0.1	73	27	355	<5	<5	<3	<1	136	<2	14.9	18	119	156	<5
EUR-3	Pulp	—	—	—	<0.1	73	25	188	<5	<5	<3	2	<10	<2	9.8	13	85	148	<5
HR1-BR	Pulp	—	—	—	<0.1	13	13	61	16	<5	<3	1	<10	<2	1.9	7	6	287	<5
HR1-UA	Pulp	—	—	—	0.1	5	4	20	14	<5	<3	2	<10	<2	1.8	2	2	192	5
HR2	Pulp	—	—	—	0.7	12	134	221	<5	<5	<3	3	<10	<2	5.2	9	10	304	<5
HR8	Pulp	—	—	—	<0.1	8	21	44	17	<5	<3	1	<10	<2	2.1	2	4	966	<5
HR9	Pulp	—	—	—	<0.1	7	13	38	9	<5	<3	1	<10	<2	1.7	2	3	407	<5
HR12	Pulp	—	—	—	<0.1	4	5	28	14	<5	<3	1	<10	<2	1.2	1	6	132	<5
HR13	Pulp	<2	<15	<5	<0.1	21	12	95	26	<5	<3	3	<10	<2	3.6	14	16	364	<5
HR14	Pulp	—	—	—	0.1	14	10	86	<5	<5	<3	4	<10	<2	2.8	11	14	456	<5
HR18	Pulp	—	—	—	<0.1	8	8	47	5	<5	<3	1	<10	<2	2.8	5	19	145	<5
HR18A	Pulp	4	<15	<5	<0.1	7	9	38	11	<5	<3	1	<10	<2	2.9	3	15	196	9
HR19	Pulp	16	<15	<5	0.1	16	11	72	16	<5	<3	1	<10	<2	2.3	16	134	233	<5
HR20	Pulp	11	<15	<5	<0.1	7	4	54	11	<5	<3	1	<10	<2	2.7	6	33	119	<5
HR21	Pulp	—	—	—	<0.1	13	6	66	20	<5	<3	2	<10	<2	3.2	7	34	187	<5
HR23A	Pulp	—	—	—	0.1	9	10	49	6	<5	<3	2	<10	<2	3.4	6	6	94	<5
HR24	Pulp	—	—	—	0.1	16	19	78	22	<5	<3	2	<10	<2	2.0	10	53	288	<5
HR25	Pulp	—	—	—	0.1	9	13	49	9	<5	<3	1	<10	<2	3.0	5	5	77	<5
HR26	Pulp	—	—	—	0.1	13	42	108	9	<5	<3	2	<10	<2	2.3	8	8	106	5
HR27	Pulp	—	—	—	0.1	7	8	36	16	<5	<3	1	<10	<2	2.8	5	5	101	<5
HR28	Pulp	—	—	—	<0.1	13	9	72	20	<5	<3	<1	<10	<2	2.1	8	30	143	<5
HR29	Pulp	8	<15	<5	<0.1	6	5	53	15	<5	<3	1	<10	<2	1.8	5	4	122	<5
HR30	Pulp	15	<15	<5	<0.1	18	11	61	15	<5	<3	1	<10	<2	6 6	10	6	105	<5
HR31	Pulp	—	—	—	<0.1	9	12	77	22	<5	<3	<1	<10	<2	1.7	6	6	66	6
HR32	Pulp	—	—	—	<0.1	13	13	63	18	<5	<3	1	<10	<2	2.1	8	5	251	<5
HR33	Pulp	—	—	—	<0.1	9	<2	49	22	<5	<3	<1	<10	<2	1.7	7	4	146	<5
HR34	Pulp	7	<15	<5	<0.1	8	6	52	9	<5	<3	2	<10	<2	2.2	5	29	92	5
Minimum Detection		2	15	5	0.1	1	2	1	5	5	3	1	10	2	0 1	1	1	2	5
Maximum Detection		10000	10000	10000	100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	100.0	10000	10000	10000	1000
Method		FA/AAS	FA/AAS	FA/AAS	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS
iPL 99F0441

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Phone (604) 879-7878
Fax (604) 879-7898

Client : Northern Analytical Laboratories
Project: WO#05652

27 Samples
27=Pulp

[044110:51:48:99060799]

Out: Jun 07, 1999
In : Jun 02, 1999

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	Te ppm
EUR-1	69	36	491	6	4	5	1	<0.01	0.30	0.02	15%	0.01	0.07	0.01	0.31	<10
EUR-3	81	36	252	4	6	3	1	<0.01	0.31	0.02	11%	0.01	0.06	0.01	0.34	<10
HR1-BR	31	59	296	21	38	12	2	0.11	0.81	0.58	2.25	0.43	0.15	0.05	0.11	—
HR1-UA	53	21	128	20	60	14	2	0.04	0.39	0.41	0.96	0.14	0.12	0.10	0.05	—
HR2	21	52	792	29	30	6	8	<0.01	0.47	0.83	4.03	0.06	0.10	0.03	0.17	<10
HR8	50	19	122	25	58	9	2	0.01	0.47	0.27	1.06	0.06	0.11	0.05	0.07	<10
HR9	39	18	82	28	47	9	3	0.01	0.41	0.28	0.96	0.05	0.11	0.05	0.07	<10
HR12	99	4	58	24	8	1	2	0.01	0.27	0.06	0.71	0.04	0.15	0.04	0.01	—
HR13	47	120	849	30	125	9	11	0.09	1.38	0.99	4.05	0.70	0.12	0.14	0.16	<10
HR14	38	100	633	30	54	12	6	0.15	0.54	0.72	4.07	0.24	0.14	0.09	0.18	—
HR18	45	30	343	29	38	11	2	0.04	0.41	0.44	1.69	0.35	0.12	0.08	0.09	—
HR18A	33	18	1295	47	81	7	2	0.04	0.51	1.17	1.55	0.12	0.14	0.12	0.09	<10
HR19	74	52	497	39	61	8	3	0.10	0.89	0.71	2.82	1.52	0.13	0.09	0.13	—
HR20	54	21	618	23	30	15	2	0.04	0.38	0.33	1.43	0.54	0 10	0.08	0.07	<10
HR21	65	32	610	33	36	14	3	0.04	0.76	0.33	1.54	0.38	0.06	0.06	0.06	<10
HR23A	22	37	765	28	48	10	2	0.05	0.47	0.59	1.93	0.33	0.09	0.10	0.11	<10
HR24	58	53	466	30	92	14	3	0.11	0.96	0.64	2.59	0.97	0.18	0.10	0.10	—
HR25	36	30	500	31	50	12	3	0.08	0.46	0.64	1.70	0.25	0.09	0.10	0.11	—
HR26	21	37	370	25	50	8	3	0.06	0.61	0.65	2.73	0.57	0.25	0.07	0.14	—
HR27	32	24	410	24	51	16	2	0.06	0.63	0.50	1.54	0.17	0.10	0.09	0.11	—
HR28	21	44	1116	20	70	6	4	0.09	0.84	2.36	2.47	0.57	0.21	0.07	0.14	<10
HR29	29	38	288	26	83	3	3	0.06	0.89	0.81	2.21	0.35	0.12	0.11	0.15	<10
HR30	18	52	482	28	40	8	5	0.10	0.54	0.62	3.00	0.45	0.18	0.05	0.15	<10
HR31	18	59	406	25	55	4	6	0.07	0.82	0.64	2.46	0.31	0.10	0.05	0.12	—
HR32	20	64	343	23	40	8	2	0.13	0.95	0.61	2.37	0.51	0.16	0.05	0.11	—
HR33	77	26	247	15	9	2	3	0.12	1.18	0.12	2.06	0.39	0.74	0.03	0.02	—
HR34	38	20	322	20	46	23	1	0.05	0.47	0.36	1.31	0.48	0.20	0.07	0.07	—
Minimum Detection	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0 01	0.01	10
Maximum Detection	10000	10000	10000	10000	10000	10000	10000	1.00	10.00	10.00	10.00	10.00	10.00	5.00	5.00	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

Northern Analytical Laboratories ltd.

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JuL 26, 99

26/07/99

Certificate of Analysis

# of pages (not including this page): 1

Al Rudis

WO# 05685

Certified by _____
John Reeve (Senior Chemist)

Date Received: 15/07/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	11	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au	ppb	Gold	G: FA/AAS	15g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
FA = fire assay

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

Northern Analytical Laboratories ltd.

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Fax: (867) 668-4890
E-mail: NAL@hypertech.yk.ca

Al Rudis

WO# 05685

Certified by

	Sample #	Au ppb
r	HRJ-1	<5
r	HRJ-2	<5
r	HRJ-3	<5
r	HRJ-4	<5
r	HRJ-5	<5
r	HRJ-6	<5
r	HRJ-7	<5
r	MCR-1	<5
r	MCR-2	<5
r	YKR-18A	<5
r	YKR-18B	<5

CERTIFICATE OF ANALYSIS
iPL 99G0647

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Northern Analytical Laboratories

11 Samples Out: Aug 03, 1999 In: Jul 27, 1999 [064712:23:34:99080399]

Project : W.O. 05685
Shipper : Norm Smith
Shipment: PO#: 054599
Analysis:
ICP(AqR)30

Comment:

Document Distribution

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CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP 12M/Dis	REJECT 00M/Dis
B311	11	Pulp	Pulp received as it is, no sample prep.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molydenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 99G0647

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Phone (604) 879-7878
Fax (604) 879-7898

Client : Northern Analytical Laboratories
Project: W.O. 05685

11 Samples
11=Pulp

[064712:23:34:99080399]

Out: Aug 03, 1999
In : Jul 27, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
HRJ - 1	P	<	11	36	34	17	<	<	2	<	<	0.9	3	8	154	<	46	6	371	21	11	19	2	<	0.50	0.09	1.03	0.06	0.11	0.04	0.03
HRJ - 2	P	<	6	30	43	22	<	<	2	<	<	0.7	3	12	243	<	55	9	517	21	19	17	1	<	0.59	0.18	1.00	0.13	0.10	0.05	0.03
HRJ - 3	P	<	6	36	38	28	<	<	1	<	<	0.9	3	9	356	<	36	8	395	22	19	15	1	<	0.63	0.18	0.95	0.15	0.08	0.05	0.02
HRJ - 4	P	0.2	23	39	102	30	<	<	3	<	<	0.9	11	12	463	6	31	121	1390	31	186	9	10	0.09	1.34	3.49	4.28	1.14	0.11	0.07	0.16
HRJ - 5	P	<	6	4	6	<	<	<	1	<	<	0.5	1	3	23	<	78	2	59	19	6	4	<	<	0.19	0.04	0.40	0.02	0.08	0.05	0.01
HRJ - 6	P	<	8	9	41	16	<	<	1	<	<	2.7	3	4	138	<	77	6	170	21	8	3	4	0.08	0.75	0.08	1.67	0.11	0.42	0.04	0.01
HRJ - 7	P	<	5	15	84	32	<	<	2	<	<	0.2	5	11	890	<	35	27	956	13	64	4	2	<	1.28	3.16	2.56	0.49	0.10	0.04	0.09
MCR - 1	P	0.5	31	182	90	45	<	<	2	<	<	<	10	36	19	5	80	169	2371	24	154	2	5	0.04	1.58	14%	1.93	1.37	0.06	0.01	0.04
MCR - 2	P	0.8	40	131	54	19	<	<	1	<	<	1.7	6	10	31	5	68	22	198	19	10	2	2	0.05	0.60	0.57	1.15	0.40	0.11	0.04	0.13
UKR 18A	P	<	15	4	165	8	<	<	1	<	<	3.4	4	20	33	<	160	3	194	2	7	2	1	<	0.08	0.17	0.80	0.02	0.01	0.01	0.02
UKR 18B	P	<	22	7	12	<	<	<	1	<	<	0.2	<	5	13	<	165	<	43	<	2	<	<	<	0.02	0.03	0.32	0.01	0.02	0.01	<
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

Northern Analytical Laboratories ltd.

105 Copper Road
Whitehorse, Yukon
Y1A 2Z7
Ph: (867) 668-4968
Fax: (867) 668-4890
E-mail: NAL@hypertech.yk.ca

Invoice for Analytical Services

To:

Al Rudis

Invoice Date: 18/10/99

WO# 00021

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
	Sample Preparation:		
13	Rock/D.C. Sample Preparation	5.00	65.00
23	Soil/Sediment Sample Preparation	2.00	46.00
	Analyses:		
36	Au + 30	16.00	576.00
	Office:		
1	Fax set-up charge	2.00	2.00
2	Fax long distance charge (per page)	1.00	2.00

Subtotal	691.00
GST @7% (R 121285662)	48.37
Total due on receipt of invoice	$739.37

2% per month charged on overdue accounts

Northern Analytical Laboratories ltd.

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18/10/99

Certificate of Analysis

of pages (not including this page): 2

Al Rudis

WO# 00021

Certified by
Justin Lemphers (Senior Assayer)

Date Received: 23/09/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	13	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	22	soil	Screen -80 mesh
s40	1	soil	Screen -80 mesh, -40 mesh for FA (insufficient -80 mesh)

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au	ppb	Gold	G: FA/AAS	15g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
FA = fire assay

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

Northern Analytical Laboratories ltd.

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E-mail: NAL@hypertech.yk.ca

18/10/99 Certificate of Analysis

Al Rudis WO# 00021

Certified by

	Sample #	Au ppb
r	KGM1	12
r	KGM2	6
r	KGM3	9
r	MOSF99R01	8
r	MOSR99R01	22
r	MOSR99R02	8
r	MOSR99R03	9
r	MOSR99R04	11
r	MOSR99R05	8
r	MOSR99R06	5
r	MOSR99R07	53
r	MOSR99R08	10
r	MOSR99R09	6
s	BERSLT61	7
s	CH99ST02	58
s	CH99ST03	5
s	CH99ST04	9
s	CH99ST05	13
s	CH99ST06	16
s	CH99ST07	13
s	CH99ST08	7
s	MCSR99SS02	25
s	MCSR99SS03	6
s	MCSR99SS04	11
s40	MCSR99SS05	20
s	MOSF99SS01	12
s	MOSF99SS02	9
s	MOSF99SS03	8
s	MOSF99SS04	7
s	MOSF99SS05	10

Northern Analytical Laboratories ltd.

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Al Rudis

WO# 00021

Certified by

	Sample #	Au ppb
s	MOSF99SS06	17
s	MOSF99SS07	6
s	MOSF99SS08	10
s	MOSF99SS09	10
s	MOSF99SS10	12
s	MOSR99SS01	13

CERTIFICATE OF ANALYSIS
iPL 99J1026

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
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Fax (604) 879-7898

Northern Analytical Laboratories

36 Samples Out: Oct 28, 1999 In: Oct 25, 1999 [102611:37:51:99102899]

Project : WO#00021
Shipper : Norm Smith
Shipment: PO#: 176721
Analysis:
ICP(AqR)30

Comment:

Document Distribution

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CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B311	36	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molydenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 99J1026

INTERNATIONAL PLASMA LABORATORY LTD

2036 Columbia Street
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Phone (604) 879-7878
Fax (604) 879-7898

Client : Northern Analytical Laboratories
Project: WO#00021

36 Samples
36=Pulp

[102611:37:51:99102899]

Out: Oct 28, 1999
In : Oct 25, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
KGM 1	P	0.7	165	67	65	11	<	<	4	<	110	<	4	7	155	<	14	142	306	4	36	4	5	0.09	2.02	0.66	4.31	1.08	0.01	0.04	0.23
KGM 2	P	<	1	12	94	<	<	<	13	<	<	<	7	12	46	<	30	182	512	3	137	4	3	0.09	2.35	1.83	7.76	1.66	0.08	0.13	0.29
KGM 3	P	<	6	8	8	<	<	<	3	<	<	<	1	5	666	<	158	11	37	11	9	2	1	<	0.22	0.02	0.55	0.03	0.08	0.02	0.01
MOSF99R01	P	<	3	9	8	<	<	<	<	<	<	<	<	3	56	<	71	<	133	<	7	1	<	<	0.16	0.03	0.12	0.01	0.07	0.06	<
MOSR99R01	P	<	18	22	57	<	<	<	4	<	<	<	13	13	84	<	47	117	308	10	191	3	2	0.15	2.19	1.50	4.12	1.12	0.45	0.23	0.22
MOSR99R02	P	<	5	4	5	6	<	<	1	<	<	<	1	5	118	<	99	21	21	7	7	5	2	0.02	0.57	0.01	0.51	0.03	0.11	0.02	0.02
MOSR99R03	P	<	30	12	24	<	<	<	4	<	<	<	6	18	100	<	75	113	105	20	34	14	2	0.08	0.69	0.63	1.73	0.45	0.27	0.12	0.13
MOSR99R04	P	<	11	35	82	<	<	<	1	<	<	<	8	17	267	<	54	118	320	16	53	7	2	0.17	1.37	0.69	3.11	0.91	0.45	0.11	0.14
MOSR99R05	P	<	4	18	59	12	<	<	1	<	<	<	7	6	32	<	20	60	389	9	92	3	2	0.11	1.72	2.10	2.07	1.60	0.20	0.10	0.22
MOSR99R06	P	<	6	14	12	5	<	<	3	<	<	<	<	1	33	<	55	5	42	<	10	1	1	<	0.23	0.03	0.19	0.06	0.06	0.05	0.01
MOSR99R07	P	1.1	3690	31	304	<	<	<	36	<	<	<	24	7	56	<	38	15	795	3	25	1	3	0.03	2.34	0.44	6.89	0.33	0.14	0.05	0.01
MOSR99R08	P	<	17	10	53	6	<	<	1	<	<	<	2	<	104	<	41	4	482	16	9	<	1	0.01	1 61	0.15	2.97	0.37	0.20	0.04	0.05
MOSR99R09	P	<	6	5	18	<	<	<	1	<	<	<	3	6	66	<	66	52	150	16	16	2	1	0.08	0.38	0.35	2.12	0.32	0.14	0.06	0.10
BERSLT 61	P	0.1	21	16	61	18	<	<	2	<	<	<	7	19	223	<	27	62	336	11	88	1	3	0.06	1.32	0.99	2.37	0.61	0.06	0.03	0.09
CH99ST02	P	<	23	15	81	13	<	<	2	<	<	<	11	26	175	<	34	73	444	14	48	1	4	0.09	1.57	0.70	2.93	0.81	0.12	0.03	0.10
CH99ST03	P	<	21	15	75	15	<	<	2	<	<	<	11	21	180	<	30	66	412	13	46	1	4	0.09	1.59	0.68	2.69	0.79	0.11	0.03	0.10
CH99ST04	P	<	20	17	72	8	<	<	1	<	<	<	11	17	163	<	30	78	410	13	49	1	4	0.09	1.49	0.67	2.91	0.77	0.12	0.03	0.09
CH99ST05	P	<	23	13	75	7	<	<	2	<	<	<	11	23	190	<	33	81	438	14	50	1	4	0.09	1.61	0.78	3.06	0.80	0.11	0.04	0.10
CH99ST06	P	0.1	23	29	76	14	<	<	2	<	<	<	10	18	185	<	40	123	382	15	66	1	4	0.09	1.51	0.75	3.71	0.60	0.09	0.04	0.11
CH99ST07	P	0.2	20	32	70	32	<	<	2	<	<	<	8	15	161	<	23	65	377	15	64	1	3	0.09	1.43	0.60	2.40	0.56	0.09	0.03	0.09
CH99ST08	P	<	23	12	63	<	<	<	1	<	<	<	9	22	190	<	27	55	335	8	33	2	3	0.08	1.34	0.71	2.35	0.72	0.09	0.03	0.08
MCSR99SS02	P	0.5	35	70	270	124	<	<	2	<	<	<	18	22	275	<	23	64	2247	9	65	1	4	0.06	1.44	0.70	2.77	0.62	0.11	0.04	0.10
MCSR99SS03	P	0.1	15	30	66	21	<	<	1	<	<	<	8	12	177	<	18	76	322	18	68	1	3	0.08	1.63	0.61	2.77	0.52	0.06	0.03	0.09
MCSR99SS04	P	0.2	25	37	97	34	<	<	2	<	<	<	11	16	213	<	24	73	435	18	93	1	5	0.10	1.98	0.79	2.95	0.83	0.12	0.03	0.09
MCSR99SS05	P	0.1	33	25	84	21	<	<	2	<	<	<	16	19	167	<	28	73	802	6	156	1	5	0.09	2.17	1.23	2.66	0.95	0.12	0.04	0.06
MOSF99SS0 1	P	<	27	32	51	7	<	<	3	<	<	<	11	19	431	<	42	113	372	11	68	1	2	0.09	1.75	0.52	3.29	0.61	0.08	0.05	0.10
MOSF99SS0 2	P	<	15	15	50	12	<	<	1	<	<	<	8	14	246	<	20	66	298	9	81	1	3	0.09	1.74	0.59	2.22	0.56	0.06	0.04	0.06
MOSF99SS0 3	P	<	11	16	44	13	<	<	1	<	<	<	6	12	387	<	15	33	697	8	102	1	3	0.02	1.37	0.70	1.55	0.28	0.04	0.03	0.05
MOSF99SS0 4	P	<	13	16	46	8	<	<	1	<	<	<	8	14	280	<	19	48	451	9	80	1	3	0.05	1.38	0.60	1.86	0.40	0.05	0.03	0.05
MOSF99SS0 5	P	<	18	12	53	<	<	<	1	<	<	<	9	20	196	<	40	52	370	9	53	2	3	0.05	1.24	0.59	2.16	0.65	0.05	0.03	0.07
MOSF99SS0 6	P	<	30	17	81	10	<	<	1	<	<	<	11	20	229	<	21	59	550	9	34	1	4	0.05	1.61	0.94	2.59	0.86	0.06	0.03	0.07
MOSF99SS0 7	P	<	29	10	73	8	<	<	2	<	<	<	12	28	247	<	38	64	558	8	23	1	4	0.08	1.59	0.65	2.71	0.91	0.13	0.02	0.11
MOSF99SS0 8	P	<	26	12	76	5	<	<	1	<	<	<	10	18	186	<	24	56	453	9	31	2	4	0.06	1.51	0.73	2.47	0.75	0.07	0.03	0.07
MOSF99SS0 9	P	<	21	10	75	7	<	<	1	<	<	<	11	20	196	<	28	58	413	9	40	1	4	0.07	1.53	0.63	2.56	0.84	0.09	0.03	0.07
MOSF99SS010	P	<	29	15	85	5	<	<	1	<	<	<	12	26	267	<	29	59	514	12	41	3	4	0.08	1.66	0.94	2.68	0.77	0.10	0.04	0.06
MOSR99SS01	P	<	21	27	57	12	<	<	3	<	<	<	9	17	250	<	30	88	287	10	49	1	2	0.08	1.49	0.44	2.61	0.51	0.07	0.03	0.10
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

— = No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

Northern
Analytical
Laboratories ltd.

105 Copper Road
Whitehorse, Yukon
Y1A 2Z7
Ph: (867) 668-4968
Fax: (867) 668-4890
E-mail: NAL@hypertech.yk.ca

Invoice for Analytical Services

To:

Al Rudis

Invoice Date: 18/10/99

WO# 00022

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
	Sample Preparation:		
70	Rock/D.C. Sample Preparation	5.00	350.00
6	Soil/Sediment Sample Preparation	2.00	12.00
1	Soil/Sed. Sample Preparation (Plastic Bags)	2.50	2.50
1	Concentrate Sample Preparation	5.00	5.00
	Analyses:		
78	Au + 30	16.00	1248.00

Subtotal	1617.50
GST @7% (R 121285662)	113.23
Total due on receipt of invoice	$1,730.73

2% per month charged on overdue accounts

Northern Analytical Laboratories ltd.

105 Copper Road
Whitehorse, Yukon
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Ph: (867) 668-4968
Fax: (867) 668-4890
E-mail: NAL@hypertech.yk.ca

18/10/99

Certificate of Analysis

of pages (not including this page): 3

Al Rudis

WO# 00022

Certified by
Justin Lemphers (Senior Assayer)

Date Received: 05/10/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	70	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	6	soil	Screen -80 mesh
s40	1	soil	Screen -80 mesh, -40 mesh for FA (insufficient -80 mesh)
c	1	concentrate	Riffle split 200g, pulverize to -100 mesh (if necessary)

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au	ppb	Gold	G: FA/AAS	15g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
FA = fire assay

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

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08/11/99 Certificate of Analysis

Al Rudis WO# 00022

Certified by

	Sample #	Au ppb
r	CMF-1	8
r	CMF-2	< 5
r	CMF-3	< 5
r	CMPQ-1	< 5
r	CMPS-1	9
r	CMPS-2	6
r	CPMM-1	< 5
r	CRCR-78	8
r	CRCR-78-1	8
r	CRCR-78-2	7
r	CRPIT-5BR	6
r	CSQV-1	38
r	CSQV-1 QTZ	5
r	CSQV-2	27
r	CSQV-2A	7
r	CSQV-2B	19
r	CTRIB-1	5
r	CTRIB-2	< 5
r	CTRIB-3	8
r	CTRIB-4	7
r	CTRIB-5	6
r	FMVR-1	7
r	FMVR-1(2)	8
r	FT-1	9
r	MA198-1	8
r	P97-5BR	7
r	P98-12BR	7
r	RFH-1	8
r	RFH-2	10
r	RFH-3	9

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Al Rudis

WO# 00022

Certified by

	Sample #	Au ppb
r	RFH-4	14
r	RFH-5	10
r	RFH-6	6
r	RFH-7	6
r	RFH-8	8
r	RFH-9	6
r	RFH-10	7
r	RFH-11	4
r	RFH-12	6
r	RFH-13	37
r	RFH-14	< 5
r	RFH-15	< 5
r	RFH-16	< 5
r	RFH-17	5
r	RFH-17A	5
r	RFH-Q226	< 5
r	RF-Q1	6
r	SH-1	6
r	SH-2	< 5
r	SH-3	7
r	SH-4	9
r	TRG-3	5
r	TTA	5
r	TTB	6
r	TTC	5
r	97-1BR	< 5
r	97-2BR	7
r	97-4BR	7
r	97-7BR	5
r	97-8BR	8

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Al Rudis WO# 00022

Certified by

	Sample #	Au ppb
r	98-1BR	11
r	98-6BR	7
r	98-8BR	6
r	98-10BR	8
r	98-11BR	7
r	99-CSQ1	< 5
r	100-2BR	7
r	100-3BR	7
r	100-4BR	7
r	100-5BR	7
c	CMPB-1	79
s	F-1	10
s	RAL-17	6
s	RAL-19	8
s	RAL-24	9
s	RAL-27	7
s40	RAL-30	9
s	TTBA	10

CERTIFICATE OF ANALYSIS
iPL 99J1027

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Northern Analytical Laboratories — **78 Samples** — Out: Oct 28, 1999 In: Oct 25, 1999 [102711:37:17:99102899]

Project : WO#00022
Shipper : Norm Smith
Shipment: PO#: 176721
Analysis:
ICP(AqR)30

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Att: Norm Smith	Ph:867/668-4968				
	Fx:867/668-4890				
	Em:NAL@hypertech.yk.ca				

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B311	78	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molydenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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* Our liability is limited solely to the analytical cost of these analyses

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 99J1027

INTERNATIONAL PLASMA LABORATORY LTD
2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
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Client : Northern Analytical Laboratories
Project: WO#00022

78 Samples
78=Pulp

[102711:37:17:99102899]

Out: Oct 28, 1999
In : Oct 25, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
CMF-1	P	0.5	192	3	139	<	<	<	3	<	<	<	39	30	50	<	59	111	507	<	31	1	8	0.11	2.08	1.10	4.84	2.18	0.02	0.05	0.06
CMF-2	P	0.1	47	3	10	<	<	<	<	<	<	<	6	24	39	<	121	16	120	<	18	1	2	0.05	0.44	0.46	0.59	0.59	0.02	0.03	0.06
CMF-3	P	0.4	151	5	93	<	<	<	2	<	<	<	52	26	60	<	63	104	470	<	18	1	7	0.13	1.87	0.93	4.47	1.96	0.03	0.08	0.04
CMPQ-1	P	<	3	2	5	<	<	<	1	<	<	<	1	5	6	<	126	2	20	<	1	1	<	<	0.05	0.02	0.20	0.05	0.02	0.02	<
CMPS-1	P	2.0	10	293	45	6	<	<	3	<	<	<	3	13	71	<	80	13	639	12	176	3	1	0.04	0.74	4.80	1.02	0.83	0.49	0.02	0.02
CMPS-2	P	<	13	13	28	<	<	<	3	<	<	<	9	18	28	<	38	16	752	9	1593	1	3	0.05	0.77	21%	1	80	0.52	0.16	0.05	0.03
CPMM-1	P	<	3	3	25	7	<	<	1	<	<	<	7	11	196	<	33	45	1157	2	27	1	4	0.03	0.72	0.90	1.01	0.39	0.03	0.06	0.21
CRCR-78	P	<	4	9	47	<	<	<	1	<	<	<	5	3	83	<	58	14	217	9	7	<	1	0.07	0.69	0.29	1.55	0.33	0.11	0.04	0.02
CRCR-78-1	P	<	15	8	5	<	<	<	8	<	<	<	17	140	15	<	59	10	15	<	4	5	<	0.01	0.08	0.02	11%	0.01	0.07	0.03	<
CRCR-78-2	P	0.1	21	3	23	<	<	<	1	<	<	<	3	4	53	<	60	7	262	6	7	1	1	0.04	0.44	0.92	0.93	0.25	0.09	0.03	0.02
CRPIT-5BR	P	<	13	2	95	<	<	<	2	<	<	<	15	32	25	<	52	19	355	24	4	1	2	0.01	1.89	0.13	3.88	0.89	0.09	0.02	0.04
CSQV-1	P	0.3	35	16	68	<	<	<	13	<	<	<	2	9	26	<	72	10	150	26	8	5	<	0.04	0.51	0.13	1.92	0.21	0.04	0.04	<
CSQV-1 QUARTZ	P	0.2	14	14	26	<	<	<	1	<	<	<	<	3	22	<	55	<	27	3	2	7	1	<	0.11	0.04	0.57	0.01	0.06	0.04	<
CSQV-2	P	0.3	42	17	97	5	<	<	4	<	<	<	11	36	240	<	128	113	496	10	9	2	5	0.07	2.12	0.40	3.60	1	69	0.20	0.02	0.10
CSQV-2A	P	0.2	48	17	111	<	<	<	1	<	<	<	12	43	28	<	113	87	532	16	6	3	4	0.08	1.95	0.35	3.42	1.15	0.08	0.02	0.07
CSQV-2B	P	0.2	35	14	54	<	<	<	19	<	<	<	5	15	33	<	83	46	280	10	8	3	2	0.10	1.10	0.29	2.76	0.78	0.05	0.02	0.05
CTRIB-1	P	<	<	<	6	463	<	<	1	<	<	<	41	437	<	<	265	4	84	<	3	<	<	<	0.46	0.46	0.45	0.70	<	0.01	<
CTRIB-2	P	<	2	9	38	6	<	<	<	<	<	<	1	16	17	<	60	<	210	27	5	4	1	0.01	0.44	0.06	0.72	0.26	0.14	0.02	<
CTRIB-3	P	<	5	15	30	48	<	<	<	<	<	<	4	39	20	<	61	<	102	16	12	1	<	0.01	0.34	0.13	0.48	0.18	0.09	0.04	<
CTRIB-4	P	<	7	16	34	<	<	<	1	<	<	<	<	3	17	<	63	<	184	29	5	4	1	0.01	0.38	0.06	0.75	0.15	0.10	0.03	<
CTRIB-5	P	<	7	2	2	<	<	<	8	<	<	<	<	3	10	<	136	<	25	<	1	<	<	<	0.02	0.01	0.29	<	0.01	0.02	<
FMVR-1	P	<	2	4	8	<	<	<	1	<	<	<	1	3	9	<	109	4	60	32	2	2	1	<	0.23	0.02	0.55	0.05	0.07	0.05	0.01
FMVR-2	P	<	3	2	9	<	<	<	1	<	<	<	1	2	14	<	72	5	61	21	2	3	1	0.01	0.34	0.25	0.63	0.09	0.07	0.07	0.01
FT-1	P	0.5	46	6	87	<	<	<	2	<	<	<	9	6	53	<	93	75	297	<	5	1	14	0.08	1.36	0.19	3.32	1.31	0.59	0.07	0.04
MA198-1	P	0.1	14	6	40	<	<	<	1	<	<	<	7	23	130	<	56	36	736	5	30	2	2	0.10	0.82	0.93	1.75	0.62	0.05	0.05	0.08
P97-5BR	P	0.2	2	29	19	<	<	<	1	<	<	<	1	3	40	<	80	2	100	23	6	2	<	<	0.31	0.10	0.52	0.11	0.12	0.02	0.03
P98-12BR	P	<	5	2	26	<	<	<	1	<	<	<	2	7	125	<	52	9	166	8	6	1	1	<	0.57	0.23	1.20	0.19	0.10	0.03	0.07
RFH-1	P	0.1	4	3	24	<	<	<	4	<	<	<	<	2	40	<	75	3	38	35	3	2	1	<	0.39	0.05	1.09	0.13	0.07	0.03	0.01
RFH-2	P	<	3	3	11	<	<	<	2	<	<	<	<	3	11	<	116	2	47	10	1	<	<	<	0.15	0.05	0.45	0.07	0.03	0.02	<
RFH-3	P	<	6	3	26	<	<	<	2	<	<	<	1	4	77	<	82	2	132	55	3	4	1	<	0.24	0.05	1.05	0.06	0.08	0.04	0.01
RFH-4	P	1.0	22	64	69	<	<	<	2	<	<	<	<	2	40	<	60	2	22	36	5	2	1	<	0.22	0.08	0.94	0.03	0.09	0.02	0.01
RFH-5	P	<	2	7	3	<	<	<	<	<	<	<	<	4	8	<	182	<	23	<	<	<	<	<	0.01	0.01	0.22	<	<	0.01	<
RFH-6	P	0.9	8	39	58	<	<	<	3	<	<	<	<	2	34	<	63	2	113	25	2	2	1	<	0.27	0.03	0.95	0.03	0.08	0.04	0.01
RFH-7	P	<	3	7	34	<	<	<	4	<	<	<	<	4	18	<	99	2	101	62	3	3	2	<	0.27	0.10	1.05	0.03	0.11	0.04	0.01
RFH-8	P	<	11	7	14	<	<	<	1	<	<	<	2	3	11	<	106	2	87	23	1	1	1	<	0.11	0.03	0.93	0.01	0.05	0.02	0.01
RFH-9	P	0.3	9	21	13	<	<	<	3	<	<	<	<	4	22	<	79	<	32	14	2	2	1	<	0.16	0.03	0.99	0.01	0.07	0.03	0.01
RFH-10	P	<	2	<	2	<	<	<	<	<	<	<	<	3	3	<	128	<	21	<	<	<	<	<	0.02	<	0.18	<	0.01	0.01	<
RFH-11	P	<	3	<	15	<	<	<	1	<	<	<	1	4	7	<	145	2	46	8	3	1	1	<	0.27	0.07	0.82	0.06	0.04	0.02	<
RFH-12	P	<	7	4	11	<	<	<	2	<	<	<	<	3	20	<	87	2	38	18	2	2	1	<	0.17	0.04	1.00	0.02	0.08	0.04	<
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

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Client : Northern Analytical Laboratories
Project: WO#00022

78 Samples
78=Pulp

[102711:37:17:99102899]

Out: Oct 28, 1999
In : Oct 25, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
RFH-13	P	<	6	8	8	<	<	<	2	<	<	<	<	2	16	<	57	2	14	11	2	2	1	<	0.15	0.03	0.91	0.02	0.07	0.03	0.01
RFH-14	P	<	1	2	16	<	<	<	2	<	<	<	<	2	22	<	68	<	25	9	2	2	1	<	0.30	0.04	0.63	0.03	0.10	0.03	0.01
RFH-15	P	<	2	3	1	<	<	<	1	<	<	<	<	3	2	<	143	<	30	<	1	<	<	<	0.01	0.02	0.17	<	0.01	0.01	<
RFH-16	P	<	1	2	21	<	<	<	2	<	<	<	<	2	15	<	56	<	63	50	2	2	1	<	0.25	0.04	0.73	0.05	0.11	0.03	0.01
RFH-17	P	<	1	4	6	<	<	<	1	<	<	<	<	3	19	<	123	3	40	5	3	<	<	<	0.14	0.15	0.37	0.05	0.04	0.02	0.06
RFH-17A	P	<	1	6	2	<	<	<	<	<	<	<	<	2	25	<	140	<	37	3	3	<	<	<	0.07	0.12	0.22	0.01	0.04	0.02	0.04
RFH-Q2	P	<	3	2	16	<	<	<	3	<	<	<	1	3	22	<	64	2	54	54	2	2	1	<	0.34	0.05	0.87	0.10	0.06	0.04	0.01
RF-Q1	P	<	3	6	11	<	<	<	1	<	<	<	<	3	18	<	70	2	25	13	2	2	1	<	0.20	0.05	0.93	0.02	0.08	0.03	0.01
SH-1	P	<	70	3	75	14	<	<	1	<	<	<	15	15	296	<	50	201	771	8	15	1	17	0.15	3.26	0.53	4.32	2.81	1.09	0.04	0.19
SH-2	P	<	2	9	57	9	<	<	3	<	<	<	9	67	451	<	149	70	1038	4	53	1	9	0.11	1.74	6.66	2.21	1.87	0.75	0.04	0.04
SH-3	P	<	2	<	10	<	<	<	1	<	<	<	2	16	44	<	139	11	104	<	4	<	1	0.02	0.30	0.46	0.46	0.32	0.06	0.02	0.01
SH-4	P	0.1	36	6	38	<	<	<	9	<	<	<	7	19	34	<	108	134	144	6	5	2	7	0.09	0.88	0.34	2.32	0.60	0.04	0.03	0.05
TRG-3	P	<	2	<	3	<	<	<	1	<	<	<	<	5	7	<	144	3	31	<	<	<	<	0.01	0.04	0.01	0.33	0 03	0.02	0.02	<
TTA	P	<	2	5	13	<	<	<	1	<	<	<	3	4	61	<	49	6	73	34	5	1	1	0.02	0.71	0.23	1.34	0.22	0.26	0.03	0.08
TTB	P	<	23	6	25	<	<	<	2	<	<	<	5	6	59	<	53	14	155	17	5	1	2	0.07	0.82	0.23	1.75	0.28	0.29	0.03	0.08
TTC	P	<	12	<	14	<	<	<	1	<	<	<	2	7	46	<	191	7	281	26	5	1	1	<	0.69	0.23	1.25	0.29	0.12	0.11	0.08
97-1BR	P	<	4	4	19	<	<	<	1	<	<	<	4	6	44	<	173	15	179	43	5	1	1	<	1.06	0.23	2.06	0.43	0.16	0.08	0.08
97-2BR	P	<	5	3	14	<	<	<	1	<	<	<	4	5	71	<	140	9	128	19	6	1	1	0.01	0.91	0.21	1.88	0.37	0.12	0.07	0.07
97-4BR	P	<	38	3	13	<	<	<	1	<	<	<	2	17	122	<	116	7	47	4	5	<	<	<	0.22	0.07	0.85	0.09	0.05	0.02	0.02
97-7BR	P	0.4	60	16	68	<	<	<	4	<	<	<	6	39	92	<	73	29	714	6	88	1	1	<	0.72	2.13	2.09	0.58	0.10	0.02	0.05
97-8BR	P	<	13	13	42	<	<	<	2	<	<	<	8	15	96	<	84	27	298	16	6	1	2	0.16	1.24	0.25	2.42	0.57	0.34	0.03	0.02
98-1BR	P	<	14	9	52	11	<	<	2	<	<	<	5	14	293	<	403	13	564	8	64	2	2	0.08	1.18	0.42	1.39	0.43	0.32	0.14	0.02
98-6BR	P	<	15	24	63	<	<	<	2	<	<	<	8	11	200	<	58	92	536	11	8	1	6	0.20	1.26	0.37	7.26	0.49	0.54	0.04	0.09
98-8BR	P	<	13	9	33	<	<	<	1	<	<	<	6	9	44	<	94	30	633	8	51	1	3	0.08	0.80	5.57	1.54	0.51	0.08	0.03	0.02
98-10BR	P	0.4	64	7	166	<	<	<	6	<	<	<	13	54	126	<	72	73	251	8	24	1	3	0.09	1.11	0.75	2.41	0.93	0.38	0.03	0.12
98-11BR	P	<	3	7	15	<	<	<	1	<	<	<	3	5	86	<	56	13	192	12	45	1	2	0.04	0.65	0.68	1.34	0.22	0.20	0.03	0.08
99-CSQ1	P	<	3	<	3	<	<	<	<	<	<	<	<	2	19	<	97	<	23	<	1	<	<	<	0.02	0.01	0.33	0.01	<	0.01	<
100-2BR	P	<	4	8	15	5	<	<	1	<	<	<	2	6	72	<	100	7	115	13	12	1	1	0.02	0.45	0.32	0.82	0.17	0.15	0.03	0.10
100-3BR	P	<	3	<	20	<	<	<	<	<	<	<	3	8	62	<	70	9	162	14	7	1	1	0.03	0.51	0.23	1.17	0.17	0.10	0.03	0.06
100-4BR	P	<	17	19	26	13	<	<	1	<	<	<	3	9	98	<	71	11	342	14	10	<	1	0.03	0.70	0.28	1.57	0.19	0.13	0.03	0.07
100-5BR	P	<	5	12	49	7	<	<	1	<	<	<	5	12	642	<	27	16	814	5	73	3	1	0.06	1.13	1.11	1.56	0.07	0.06	0.26	0.05
CMPB-1	P	<	27	14	36	271	<	<	3	<	<	<	36	165	43	524	172	149	5699	68	20	6	4	0.09	0.98	1.26	14%	0.19	0.05	0.04	0.38
Fe1 S	P	0.3	38	17	88	19	<	<	2	<	<	<	15	28	235	12	37	76	587	11	53	2	5	0.10	2.07	0.85	3.09	0.89	0.12	0.04	0.06
RAL-17 S	P	<	21	16	81	9	<	<	1	<	<	<	14	76	228	5	56	46	602	14	31	1	3	0.06	1.64	0.67	2.51	0.83	0.07	0.03	0.06
RAL-19 S	P	<	19	12	79	7	<	<	1	<	<	<	12	51	198	<	41	46	481	14	29	1	3	0.05	1.56	0.59	2.57	0.75	0.05	0.03	0.07
RAL-24 S	P	0.1	24	16	82	10	<	<	1	<	<	<	12	47	235	<	40	50	432	16	34	1	4	0.05	1.71	0.78	2.52	0.72	0.05	0.03	0.06
RAL-27 S	P	0.1	19	12	79	7	<	<	2	<	<	<	12	51	186	<	41	44	424	14	28	1	3	0.05	1.47	0.60	2.45	0.72	0.06	0.02	0.07
RAL-30 S	P	<	23	19	84	8	<	<	1	<	<	<	12	32	167	<	38	48	520	16	32	1	3	0.05	1.67	0.71	2.65	0.71	0.07	0.02	0.08
TTBA	P	<	46	64	152	13	<	<	6	<	<	<	32	34	333	<	40	202	1961	28	35	4	17	0.27	4.50	1.45	8.04	1.88	1.18	0.03	0.49
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5 00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp