ASSESSMENT EVALUATION REPORT

DAWSON MINING DISTRICT

NORDLING & RUDIS

094121

50 MILE CREEK AREA
115N-5 & 115N-6

QUARTZ MINING CLAIMS

MONICA 1 -10 YC04655 - YC04664
AL 1- 22 YC13391 - YC133412
AX 1- 12 YC13379 - YC133390
AX 1- 4 YC17678 - YC17681
NIC 1- 4 YC17730 - 17733

Assessment Period: 1998-1999

Prepared By:
Albert Rudis

21 February 2000

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 12,381.23 .

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

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- 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)
- 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.

11.) *Assessment Work Between 1989 And 1990:* The area was evaluated by Lorne Mollot under four leases numbered 7563 through 7566. Two Magnetometer Geophysical Reports numbers 120115 and 120116 were filed in 1989, and an Exploratory Auger Drilling report number 120131 was filed in 1990:

    a) *Magnetic Survey #120116:* Magnetic survey 120116 ran lines on the 50 Mile high bench near the confluence of the pup covered by lease ID00100, and on that part of the 50 Mile covered by lease ID00098. Results included "the possible presence of two separate, parallel gravel strata stranded after successive regional uplifting and stream downcutting". Trenching across this grid was recommended.
    b) *Magnetic Survey #120115:* Magnetic survey 120115 ran lines on the 50 Mile high bench below the confluence of

the pup covered by ID00099 and on Creek lease ID00097. It concluded that the magnetic response that was found was probably controlled by a local rock unit. It states, however, that a there is a possibility that the anomaly indicates the presence of placer material with an unusually large, linear deposit of magnetite in the gravel. Results of our own assessment work indicates that the source of the anomaly is probably an auriferous placer magnetite concentration enriched by the upstream pup.

c) *Auger Drilling #120131:* Auger Drilling 120131 involved two lines and a total of twenty drill holes. One line was near the top end of lease ID00098, and the other more than five miles downstream near the top end of lease ID00097. Stated results included "a lack of any appreciable heavy mineral concentrate in the drill samples and a complete lack of gold". It was concluded that this and the general morphology of the valley suggests that the Fifty Mile Creek drainage is of recent origin, probably dating back to the last regional uplift. It states: "the valley has little potential as a placer gold host, and it was therefore recommended that the leases be abandoned". Our work and analysis to date completely refutes this result and the recommendation of Drill Report 120131

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 top 10% or above *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 likely within the claim groups.

10. Probable *Malachite* in long tom concentrates and in surface pan concentrates indicate the possibility of a nearby porphyry

copper gold deposit. Ken Galambos of the Yukon Mining Incentives Program offered to pan the long tom concentrates, previously panned and gold removed, from one of the 50 Mile valley pits. The goal was to try to locate the sources of high gold values that show up in the non-magnetic portions of concentrates in the 50 Mile area. He did not locate this source, but found probable malachite in the concentrates. The amount, and other factors lead Mr. Galambos to suggest the presence of a possible nearby copper gold porphyry deposit.

11. The very high magnetic anomaly outlined in *Magnetic Survey #120115,* located, verified in its readings, and flagged using a magnetometer in two days of effort for two persons. An attempt to place a pit over the anomaly failed because of water flow from the one foot of muck coverage.

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* sampling were:
Ralph Nordling - Box 256, Dawson City, Yukon
Al Rudis - Box 887, Dawson City, Yukon
Scott Fleming - GPO, Dawson City, Yukon
Shawn Ryan - GPO, Dawson City, Yukon

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

5. TABULATED RESULTS:

Tabulated results are shown at Appendix 1.

6. CONCLUSIONS AND RECOMMENDATIONS:

a) Conclusions:

1. *Results of field work*, assay and analysis point to the entire claim area as a specific large scale target. It indicates that a major gold deposition event has taken place.

2. One or more *major gold deposits are 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, and 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 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.

6. Trace the near-surface *presence of malachite* in creek gravel, and try to localize the source area.

7. Place shaft down to bedrock on the very high magnetic anomaly shown in *Magnetic Survey #120115.*

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, Data & Assays

	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

SI104 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

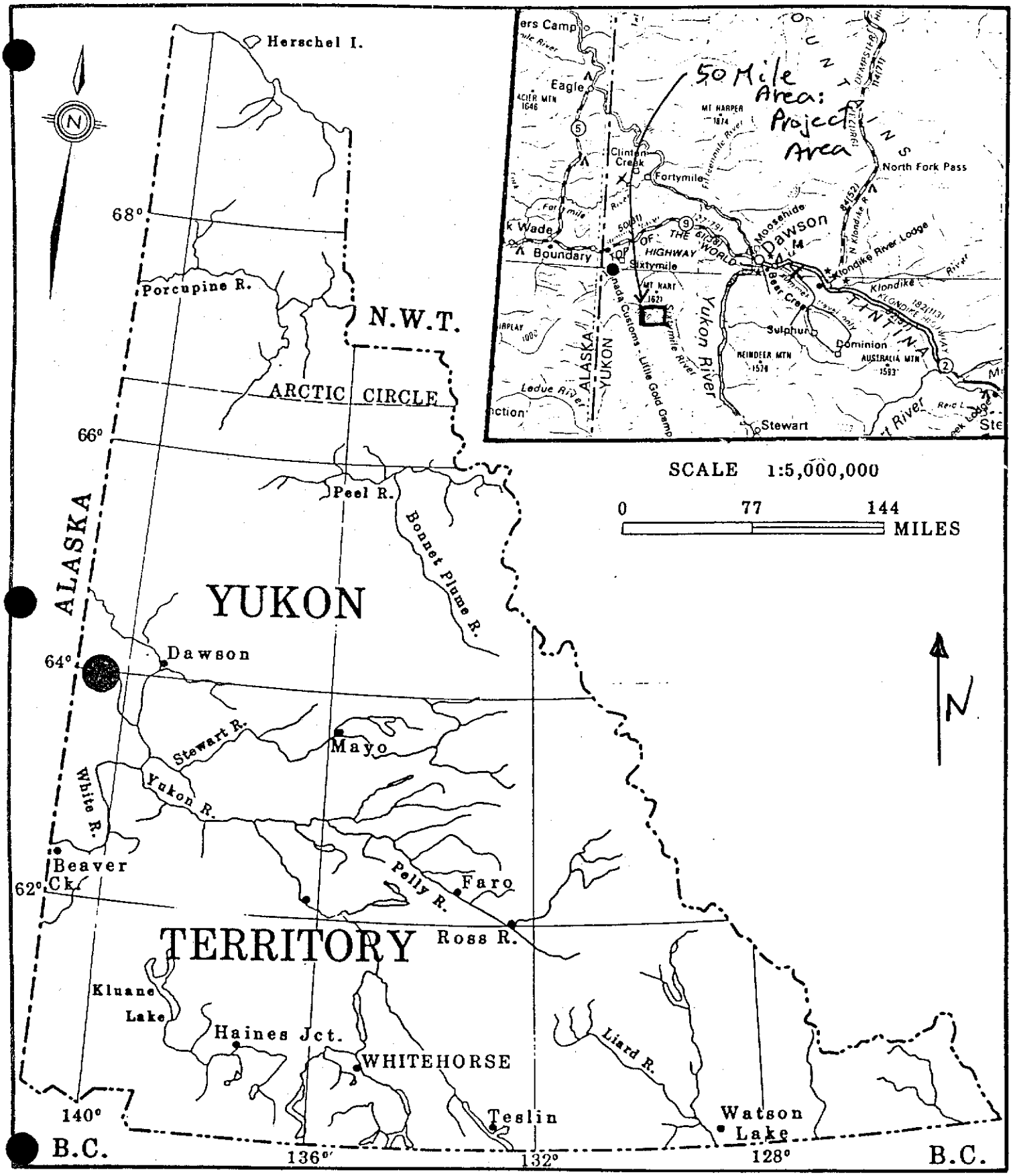
	gneiss - outcrop along 50 Mile Cr, near Ralph Cr. mouth 50m down from RFH11.	
RFH 10 Map No. 50	Quartz vein - pure white quartz from 18 inch x 9 inch boulder below RHF09	7ppb Au, 2ppm Cu,<ppm Pb, 2ppm Zn, <ppm Mo, 128ppm Cr, 0.18% Fe
RFH 11 Map No. 51	Quartz-vein like material from high quartz banded 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

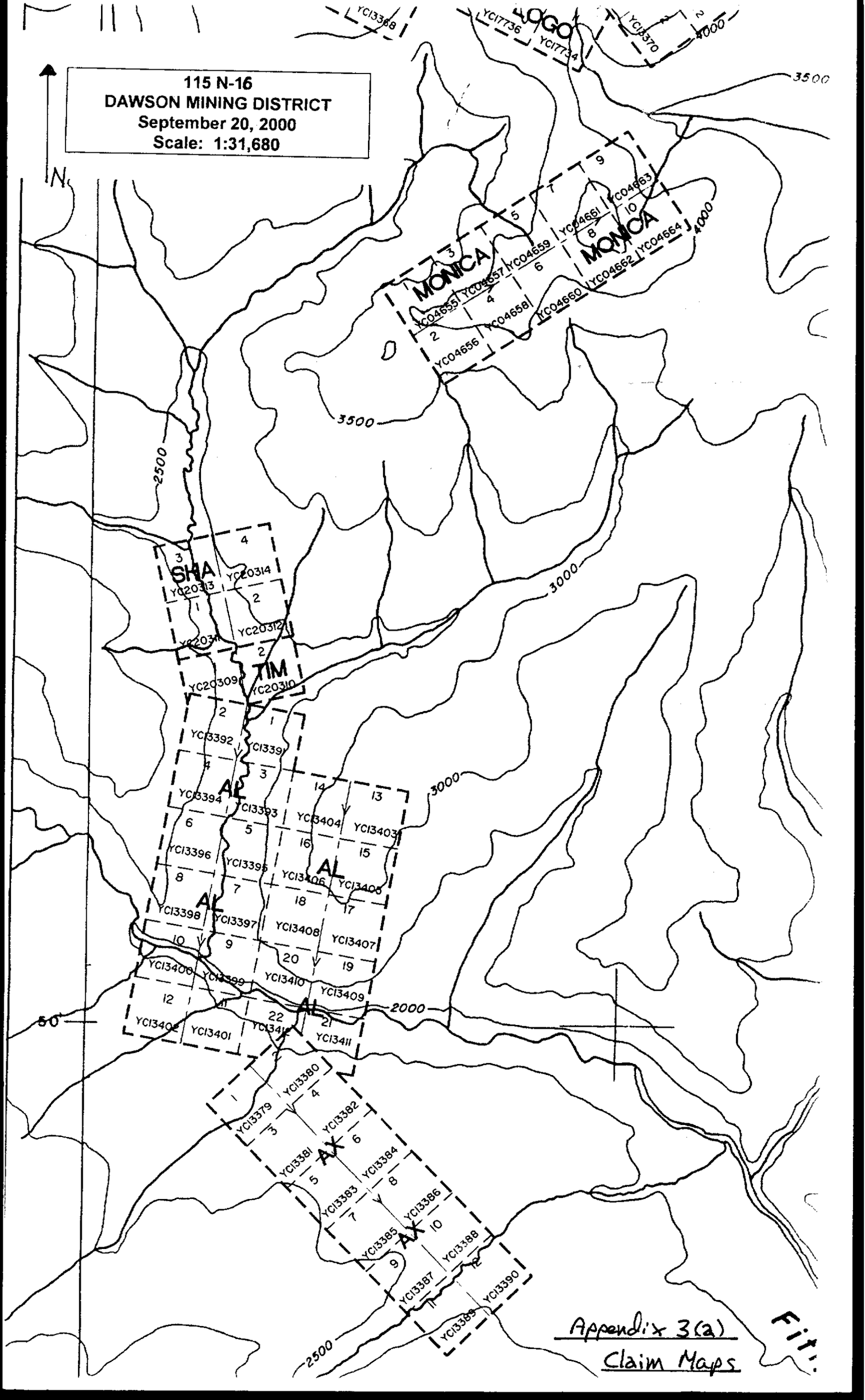
Silt Sample Number	Description	Assay Highlights
CMPB1 Map No. 68	Top 12 inch x 12 inch of gravel of gravel bar at camp site on Al Cr taken as a two pan sample. Microscopic gold shows with 30X microscope. Depth to bedrock unknown. It is noted that this would be a good place to put a shaft	**79ppb Au, 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**

Appendix 2. Location Map




115 N-16
DAWSON MINING DISTRICT
September 20, 2000
Scale: 1:31,680
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YCI7734
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3500
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YC04655
YC04657
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YC04660
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SHA
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YC20311
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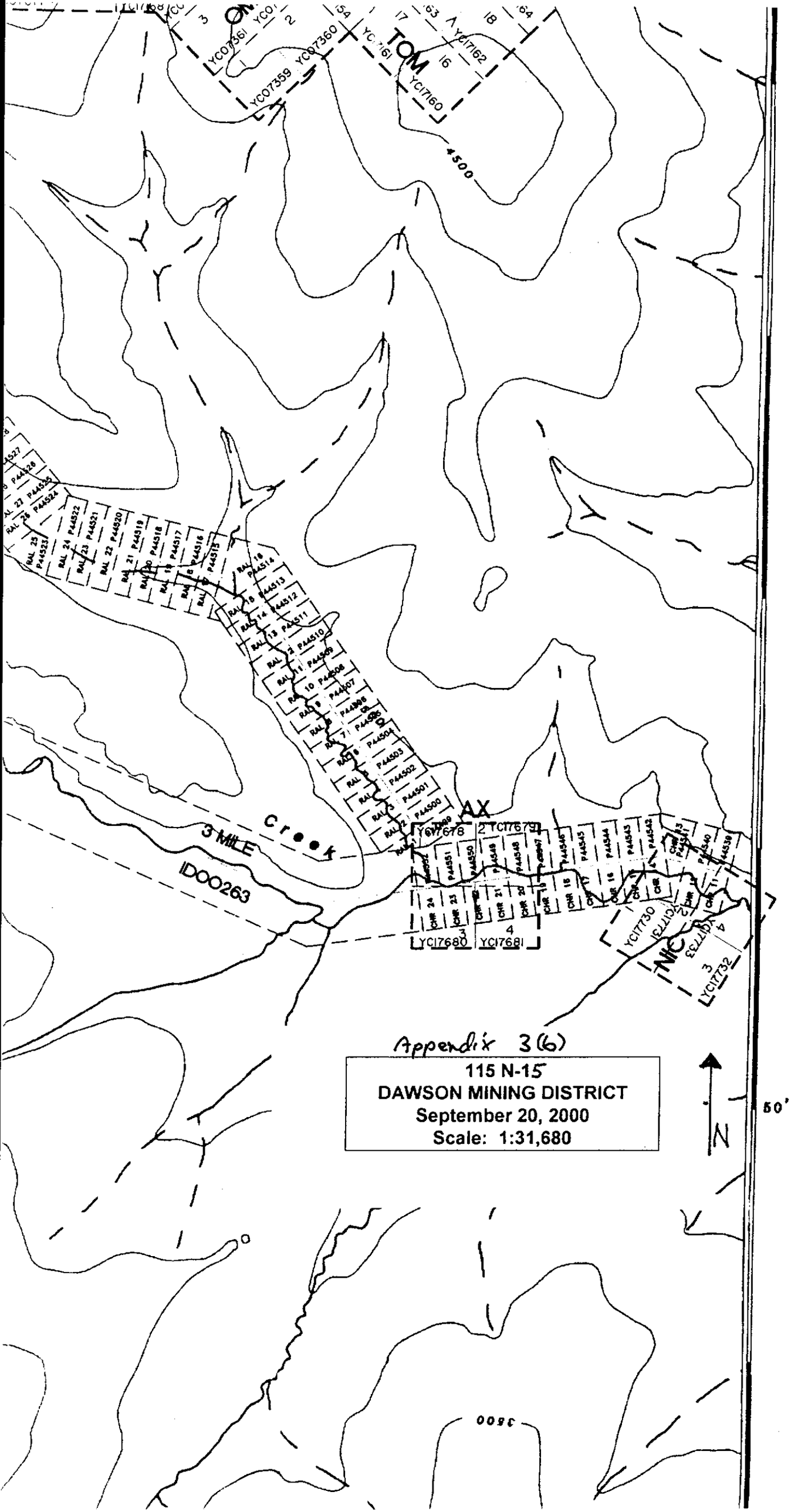
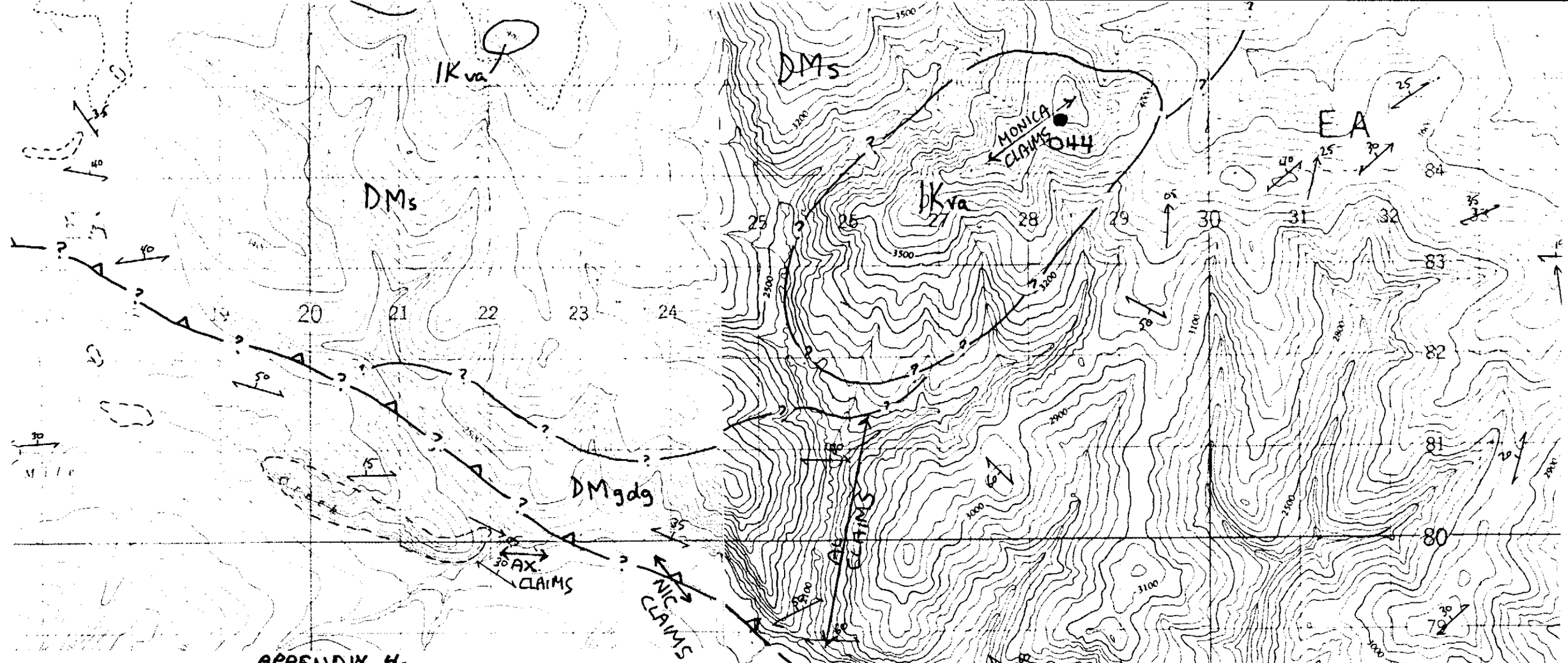
Appendix 3(a)
Claim Maps



Appendix 3(6)

115 N-15
DAWSON MINING DISTRICT
September 20, 2000
Scale: 1:31,680



APPENDIX 4.

From Geologic Maps NTS 115N/15 & NTS 115/16
DIAND Yukon Open File 1996-1(G)
Scale: 1:50,000

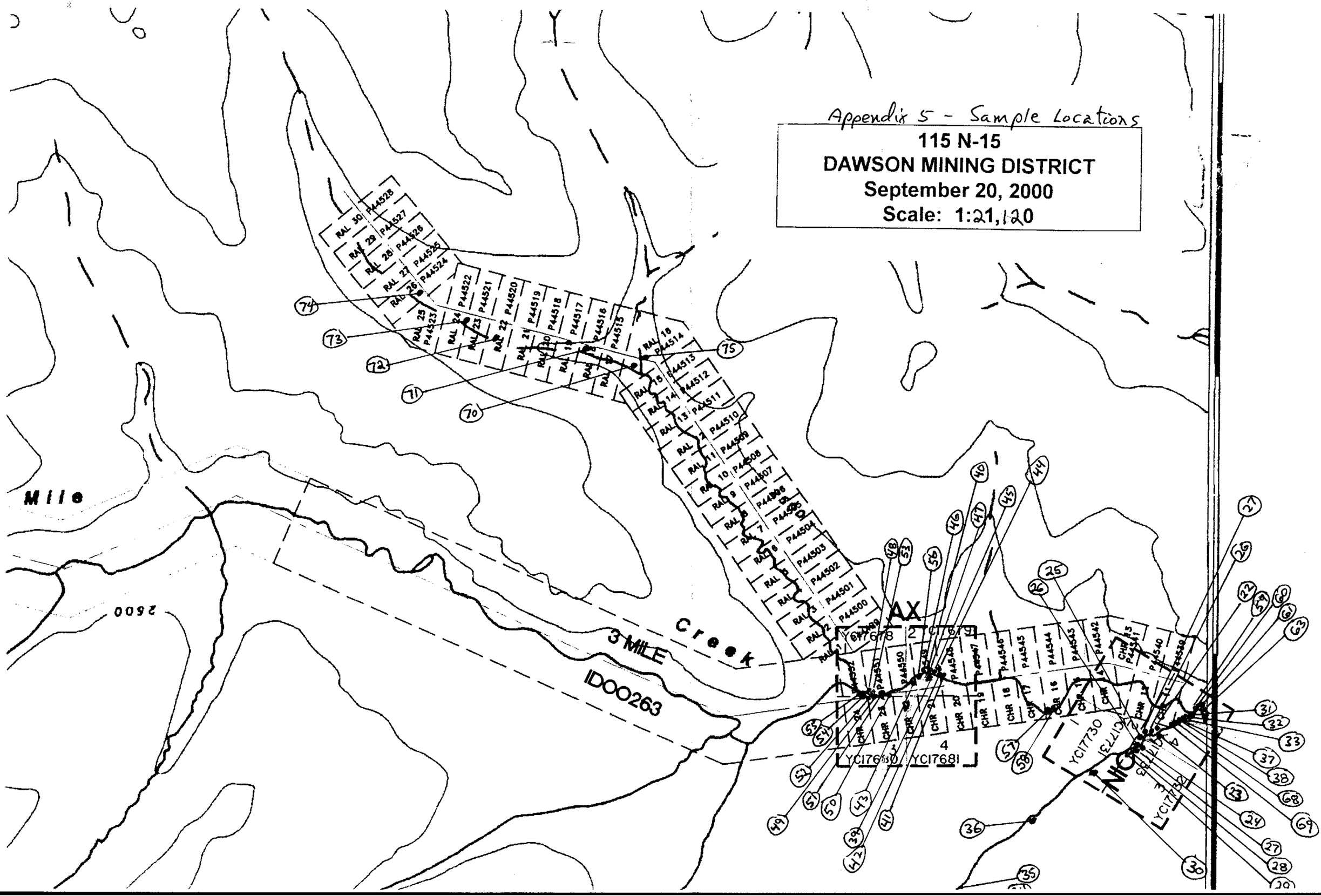
- 1Kva: andesite flows and brecias. (late Cretaceous)
- DMS: medium to coarse grained mica schist. Commonly garnetiferous amphibolite, minor quartzite. (late Devonian)
- 1Kgdr: massive hornblende-biotite granodiorite. (late Cretaceous)
- DMgg: moderately to strongly foliated K-feldspar augen-bearing quartz monzonitic to granitic gneiss (S. Fiftymile Batholith - early Mississippian)
- DMc: marble. (late Devonian to early Mississippian)
- Dmgdg: massive to strongly foliated dioritic to granodioritic gneiss (N. Fiftymile Batholith - early Mississippian)

APPENDIX 5 - SAMPLE LOCATIONS

115 N-16
DAWSON MINING DISTRICT
September 20, 2000
Scale: 1:21,120

Appendix 5 - Sample Locations

115 N-15
DAWSON MINING DISTRICT
September 20, 2000
Scale: 1:21,120



Appendix 5 - Pit Locations

115 N-15
DAWSON MINING DISTRICT
September 20, 2000
Scale: 1:21,120

Mile

2600

3 MILE Creek

IDOO263

RAL 30 P44528
RAL 29 P44527
RAL 28 P44526
RAL 27 P44525
RAL 26 P44524
RAL 25 P44523
RAL 24 P44522
RAL 23 P44521
RAL 22 P44520
RAL 21 P44519
RAL 20 P44518
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RAL 18 P44516
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RAL 11 P44509
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RAL 7 P44505
RAL 6 P44503
RAL 5 P44502
RAL 4 P44501
RAL 3 P44500
RAL 2 P44499
RAL 1

100-5
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100-3
100-2
100-1

AX

1 YC17678
2 YC17679
3 YC17680
4 YC17681

CHR 24 P44551
CHR 23 P44550
CHR 22 P44549
CHR 21 P44548
CHR 20 P44547
CHR 19 P44546
CHR 18 P44545
CHR 17 P44544
CHR 16 P44543
CHR 15 P44542
CHR 14 P44541
CHR 13 P44540
CHR 12 P44539
CHR 11 P44538

98-15
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98-17
98-16

YC17730
YC17731
YC17732
YC17733

MIC

APPENDIX 5 - PIT Locations

115 N-16
DAWSON MINING DISTRICT
September 20, 2000
Scale: 1:21,120

Appendix 6.
Assay Reports

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

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
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s	MCSR99SS03	6
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s40	MCSR99SS05	20
s	MOSF99SS01	12
s	MOSF99SS02	9
s	MOSF99SS03	8
s	MOSF99SS04	7
s	MOSF99SS05	10

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

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

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

[102611:37:51:99102899]

Northern Analytical Laboratories

36 **Samples** Out: Oct 28, 1999 In: Oct 25, 1999

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

Comment:

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

Document Distribution

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105 Copper Road
Whitehorse
YT Y1A 2Z7
Canada
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0	0	0	0	0

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Fx:867/668-4890
Em:NAL@hypertech.yk.ca

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 1=Copy 1=Invoice 0=3½ Disk
DL=Download 3D=3½ Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901

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

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 99J1026

INTERNATIONAL PLASMA LABORATORY LTD
2103b Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
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

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	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

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

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-~~Q2~~ 26	< 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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Y1A 2Z7
Ph: (867) 668-4968
Fax: (867) 668-4890
E-mail: NAL@hypertech.yk.ca

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
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Canada
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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

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

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 Sample P=Pulp

INTERNATIONAL PLASMA LABORATORY LTD

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

CERTIFICATE OF ANALYSIS
iPL 99J1027

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
F-1	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	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	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	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	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	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

APPENDIX 7:

CERTIFICATION OF COSTS OF EVALUATION

Assays:

NAL WO#00021	739.37
NAL WO#00022	1730.73
TOTAL:	2470.10

Transport:

Helicopter 24 October	1055.93
Truck (2 trips to Matson Creek Road (560X.42)	235.20
TOTAL:	1291.13

Prospecting Field Work:

Ralph Nordling (20 days X 250)	5000.00
Al Rudis (2 days X 250)	500.00
Shawn Ryan (3 days X 250)	750.00
Scott Fleming (3 days X 250)	750.00
TOTAL:	7000.00

Final Report Preparation:

5 days @ 325/day	1625.00

Overall Total: **$12386.23**

Note: $2,000 of the above cost is applied to the assessment for the Monica 1-10 Claims. The balance will applied to AL 1-10, AX 1-12, AX 1-4, and NIC 1-4 Claims as their assessment is filed.

Al Rudis

Ralph Nordling Al Rudis 18 February 2000

STATEMENT OF QUALIFICATIONS

Albert Rudis has 14 years of experience in exploration and evaluation of mining properties. 9 years of this was in Nevada, where for over five years he served as the President of Nevada International. Inc., a small Nevada mining exploration and development corporation. Mr. Rudis also has extensive research and analytical experience with the U.S. Government, five years of which was in scientific research and development as an operations research analyst at a U.S. Navy Laboratory. For the past five years Mr. Rudis has lived in Dawson City, Yukon. During this period he has been involved in placer mining on a full time basis, and has conducted exhaustive research into both historical and current placer mining operations and procedures. He has assisted and advised local miners on a voluntary basis as requested, and has consulted with select local placer miners with emphasis on ground evaluation, processing plant effectiveness, and drilling procedure. Mr. Rudis has a BS degree in Geology from Trinity College, Connecticut, and an MBA from the University of Oregon. He attended the Geoscience Forum in Whitehorse in 1998 and 1999.

Ralph Nordling has over 20 years of hands-on experience in placer mining. He has worked in equipment operations and maintenance for several major local placer miners. Mr. Nordling has a heritage in Klondike Placer mining and grew up as part of a successful family operated placer operation. He is familiar with all aspects of Placer Mining from ground exploration and evaluation, to development and production. Mr. Nordling is also a trained geologic technician. He attended the Geoscience Forum in Whitehorse in 1998.

Albert Rudis

Albert Rudis