GEOCHEMICAL, GEOLOGICAL, AND GEOPHYSICAL

ASSESSMENT REPORT

on the

MAIDEN CREEK PROPERTY

Kamloops Mining Division, British Columbia

Maid Claims -Latitude: 50°56'N Longitiude:121°32'E
Trac Claims - Latitude:50°49'N Longitude:121°30'E
NTS 92I/13E and 92I/14W
Maid 2,3,4,5,7,8,9, 10Fraction, and Sabre Claims
Trac 2,3, and 4 Claims

-Owner-
Alex MacDonald
550 - 1040 West Georgia Street
Vancouver, B.C. V6E 4H1

-Operator-
CAMECO CORPORATION
2121 - 11th Street West
Saskatoon, Sask. S7M 1J3

January 15, 1995

Author: Dwayne L. Melrose, P.Geo

SUMMARY

The Maiden Creek property is located within the Kamloops Mining Division, in south central British Columbia. Cameco optioned the property from A. MacDonald. The target is a structurally controlled, epithermal gold deposit.

Geological, geochemical, and geophysical surveys were carried out on the Maiden Creek property in the fall 1993, and spring and summer 1994. The objective of the exploration was to find the source of heavy mineral gold anomalies delineated by previous mining companies. Work completed consisted of soil sampling, outcrop sampling, till/heavy mineral sampling, geological outcrop/overburden mapping, and an IP/resistivity survey.

The Maiden Creek property covers part of the Bonaparte Graben. It is underlain by bedded wacke and coarse pebble-cobble conglomerate which is locally intruded by quartz latite domes and dykes. Nicola Group andesites are found along the western contact of the graben.

The 1993 till/heavy mineral sampling indicated weakly anomalous to anomalous gold values on the Sabre, Maid, and Trac grids. Interpretation of the follow up till/heavy mineral sampling results and overburden mapping indicated that the gold is probably due to mechanical reconcentration of the gold. Outcrop mapping did not reveal any evidence of hydrothermal alteration. Overburden mapping indicated that the flatter, higher topographical areas were covered by glacial till. The slopes of these till covered mountains are covered by a mixture of colluvium, and till/washed till. Two anomalous till samples on the northern part of the Sabre grid are open up ice and the source for the gold is probably off property.

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1.0 INTRODUCTION

The Maiden Creek project is located in the central interior of British Columbia, within the Kamloops Mining Division (see Figures 1, 2, and 3). The property is operated by Cameco Corporation under an option agreement with Alexander MacDonald. The property is comprised of numerous grids, but work by Cameco was only completed on the Maid, Sabre, and Trac grids. The exploration costs for the Maid and Sabre grids are combined since the Sabre and Maid claims are grouped together. The exploration costs for the Trac claims/grid are reported separately. A single report will cover all exploration over this project area.

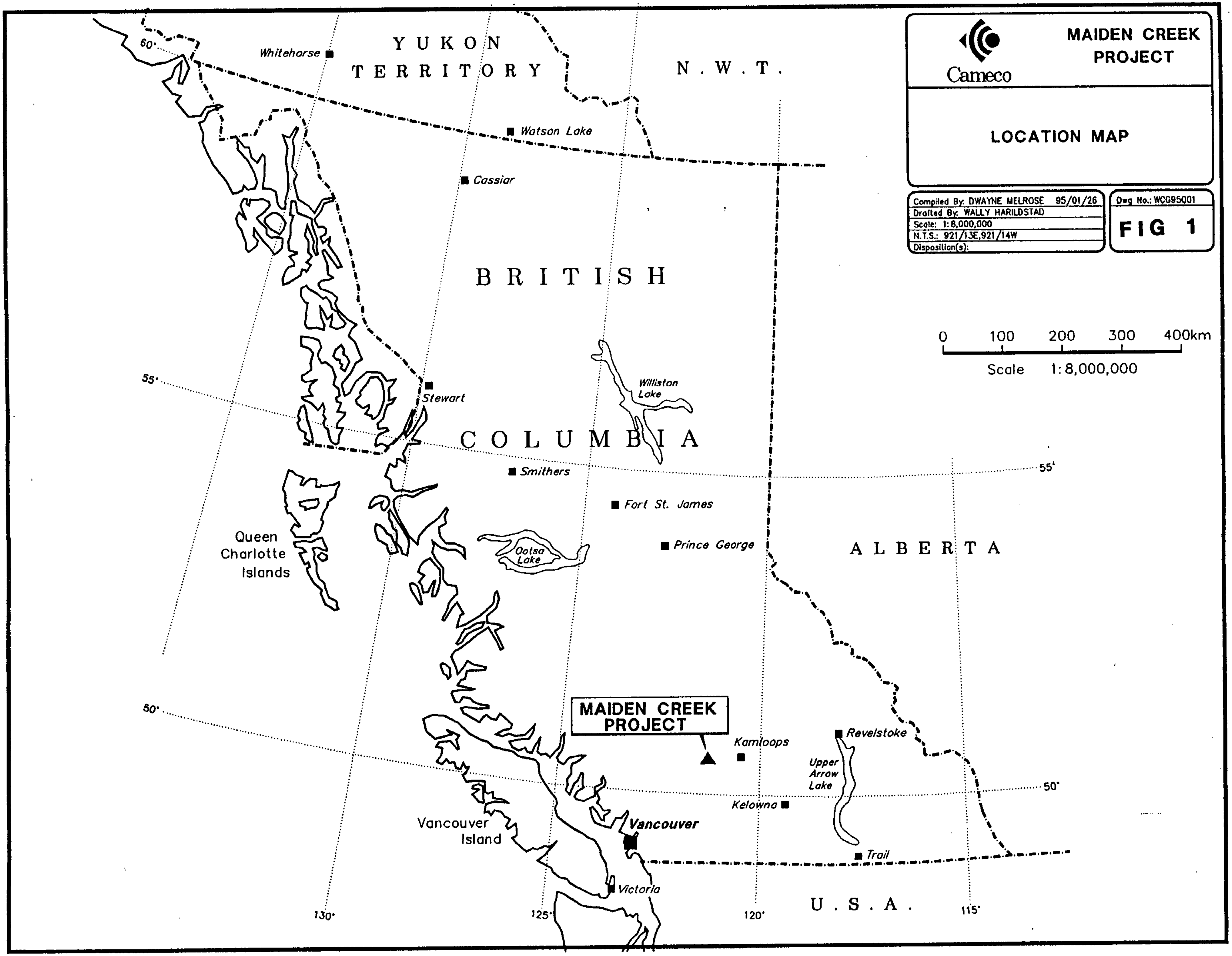
Work on the Maid and Sabre grid consisted of soil/rock/till sampling, geological and overburden mapping. A total of 6.0 km of linecutting and IP/resistivity were completed. Work completed on the Trac claims consisted of soil/outcrop/till sampling, and geological/overburden mapping .

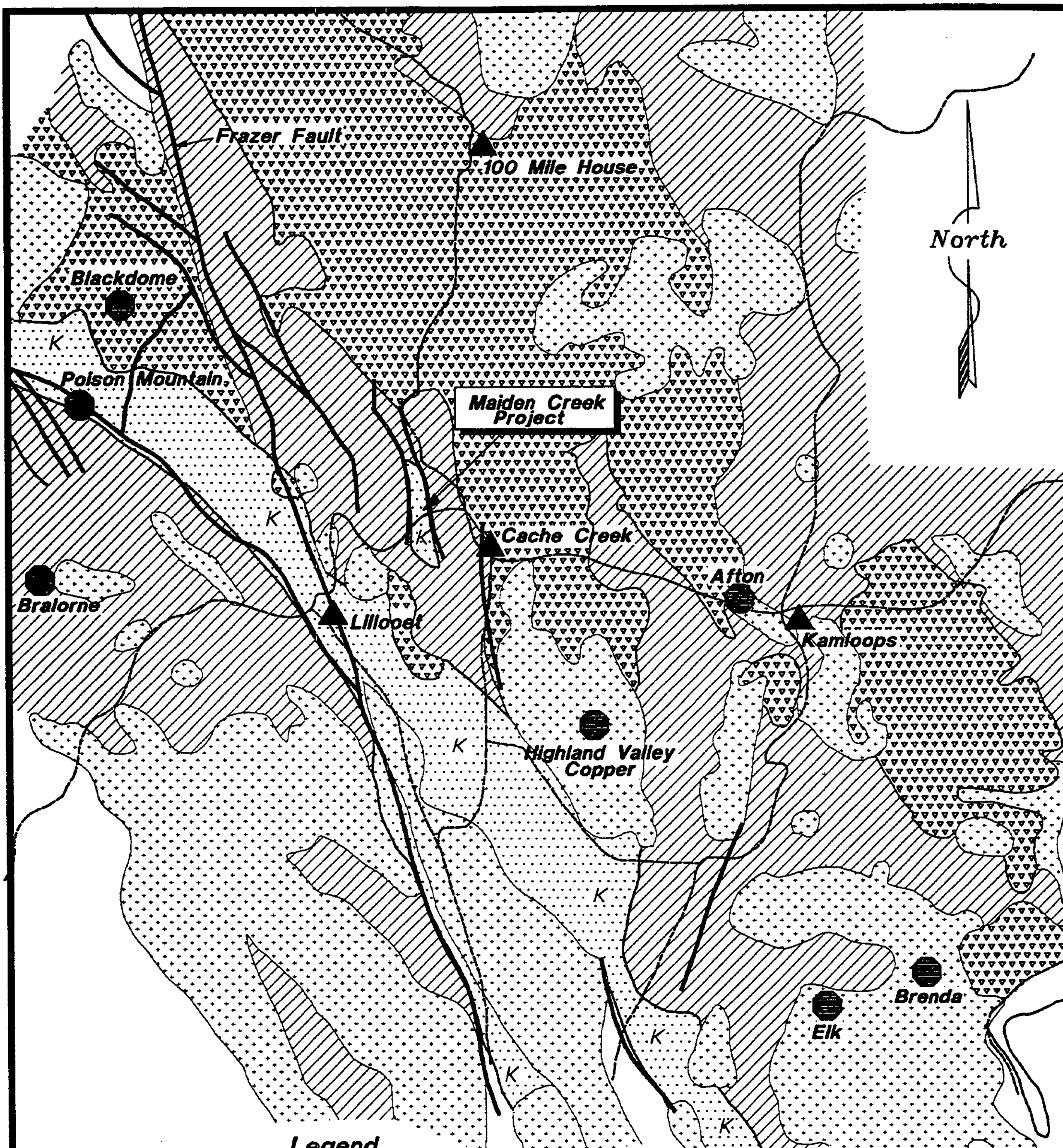
The work completed in November 1993 was carried out by Discovery Consultants under the supervision of Cameco personnel. Cameco personnel conducted the field work in spring and early summer of 1994. The linecutting was performed by Lone Trail Prospecting of Gabriola, B.C. and the geophysics was conducted by Peter Walcott & Associates of Vancouver, B.C.

The target for this exploration program is a structurally controlled, epithermal gold deposit.

1.1 Location, Access, and Physiography

The Maiden Creek property lies within the Kamloops Mining Division and it is located 21 km northwest of Cache Creek in south central British Columbia. Access to the


MAIDEN CREEK PROJECT
Cameco
LOCATION MAP
Compiled By: DWAYNE MELROSE 95/01/26
Drafted By: WALLY HARILDSTAD
Scale: 1:8,000,000
N.T.S.: 921/13E,921/14W
Disposition(s):
Dwg No.: WCG95001
FIG 1
0 100 200 300 400km
Scale 1:8,000,000
YUKON TERRITORY
N.W.T.
Whitehorse
Watson Lake
Cassiar
BRITISH COLUMBIA
Stewart
Williston Lake
Smithers
Fort St. James
Prince George
Ootsa Lake
Queen Charlotte Islands
ALBERTA
MAIDEN CREEK PROJECT
Kamloops
Revelstoke
Upper Arrow Lake
Kelowna
Vancouver Island
Vancouver
Trail
Victoria
U.S.A.
60°
55°
50°
130°
125°
120°
115°



Legend

Tertiary
Volcanic and Sedimentary Rocks

Cretaceous
K — Volcanic and Sedimentary Rocks

Paleozic-Triassic
Sedimentary and Volcanic Rocks

Jurassic-Tertiary
Felsic Intrusives

Roads
Regional Faults
Deposits
Cities

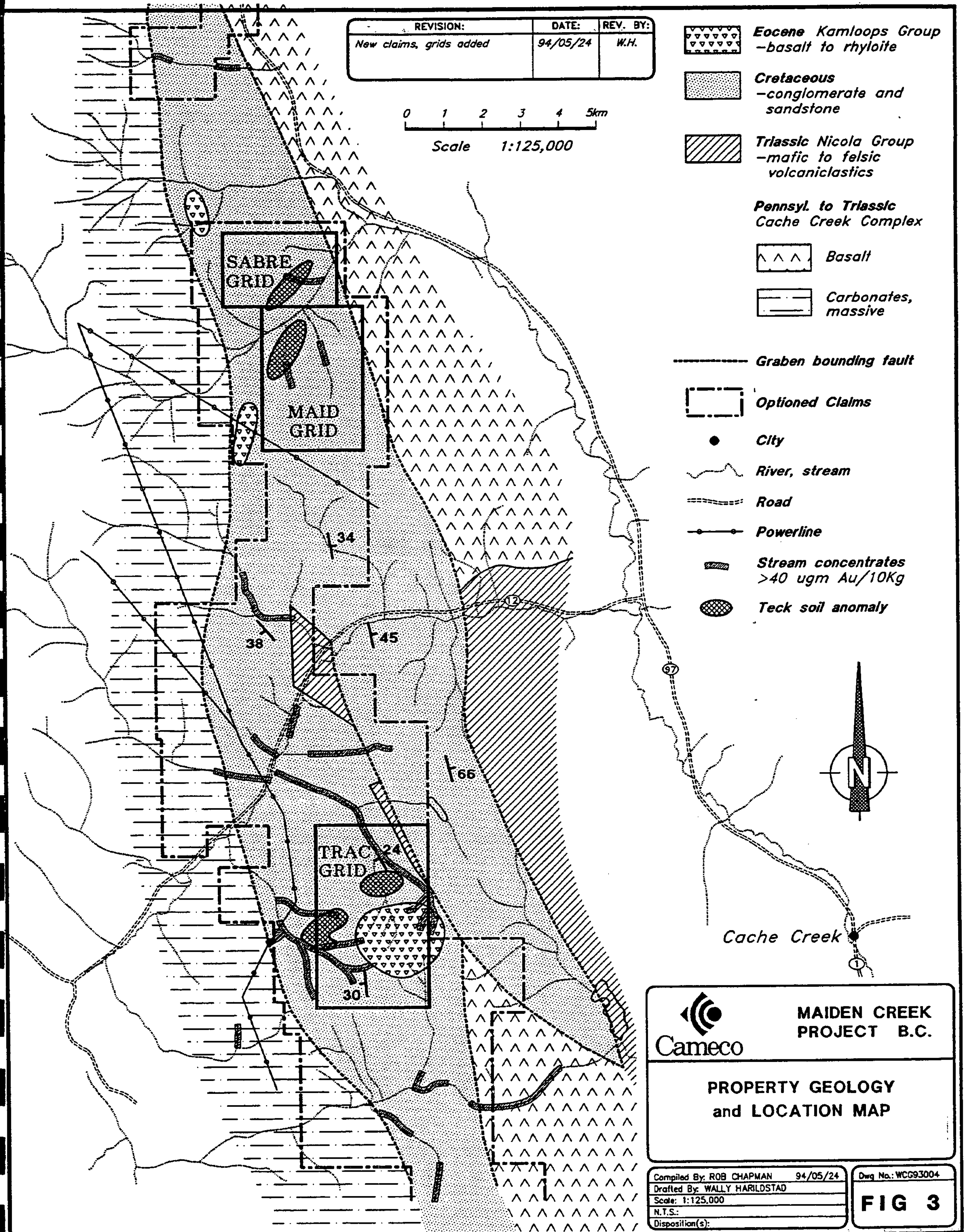
0 20 40 60 km
Scale: 1:1,250,000

Cameco

MAIDEN CREEK PROJECT

REGIONAL GEOLOGY AND LOCATION MAP

Compiled By: ROB CHAPMAN 1/26/95	Dwg No.: MDN95200
Drafted By: GEO COMPUTERS	
Scale: 1:1,250,000	**FIG 2**
N.T.S.:	
Disposition(s):	



REVISION: | DATE: | REV. BY:
New claims, grids added | 94/05/24 | W.H.
0 1 2 3 4 5km
Scale 1:125,000
Eocene Kamloops Group
–basalt to rhyloite
Cretaceous
–conglomerate and sandstone
Triassic Nicola Group
–mafic to felsic volcaniclastics
Pennsyl. to Triassic
Cache Creek Complex
Basalt
Carbonates, massive
Graben bounding fault
Optioned Claims
City
River, stream
Road
Powerline
Stream concentrates
>40 ugm Au/10Kg
Teck soil anomaly
SABRE GRID
MAID GRID
TRAC GRID
34
38
45
66
24
30
12
97
1
N
Cache Creek
Cameco
MAIDEN CREEK
PROJECT B.C.
PROPERTY GEOLOGY
and LOCATION MAP
Compiled By: ROB CHAPMAN 94/05/24
Drafted By: WALLY HARILDSTAD
Scale: 1:125,000
N.T.S.:
Disposition(s):
Dwg No.: WCG93004
FIG 3

Sabre/Maiden Creek claims are 21 kms north along Highway 97 from Cache Creek and then east for 8 km on logging roads along the Maiden Creek drainage. High voltage powerlines transect the Maiden claims. Access to and across the Trac claims is provided by old logging roads along Gallagher Creek either east from Highway 12 or west from the Gallagher Lake area.

The property is located in an upland plateau region with subdued topography and elevations ranging from 760 to 1300 metres. Vegetation consists of predominantly coniferous trees ranging from mature timber to second generation growth following intermittent logging. Minor deciduous trees and sage brushes are mixed with the coniferous trees in a semi arid climate. Temperature is hot in the summer and moderate in the winter, which allows for year round exploration.

1.2 Assessment Status

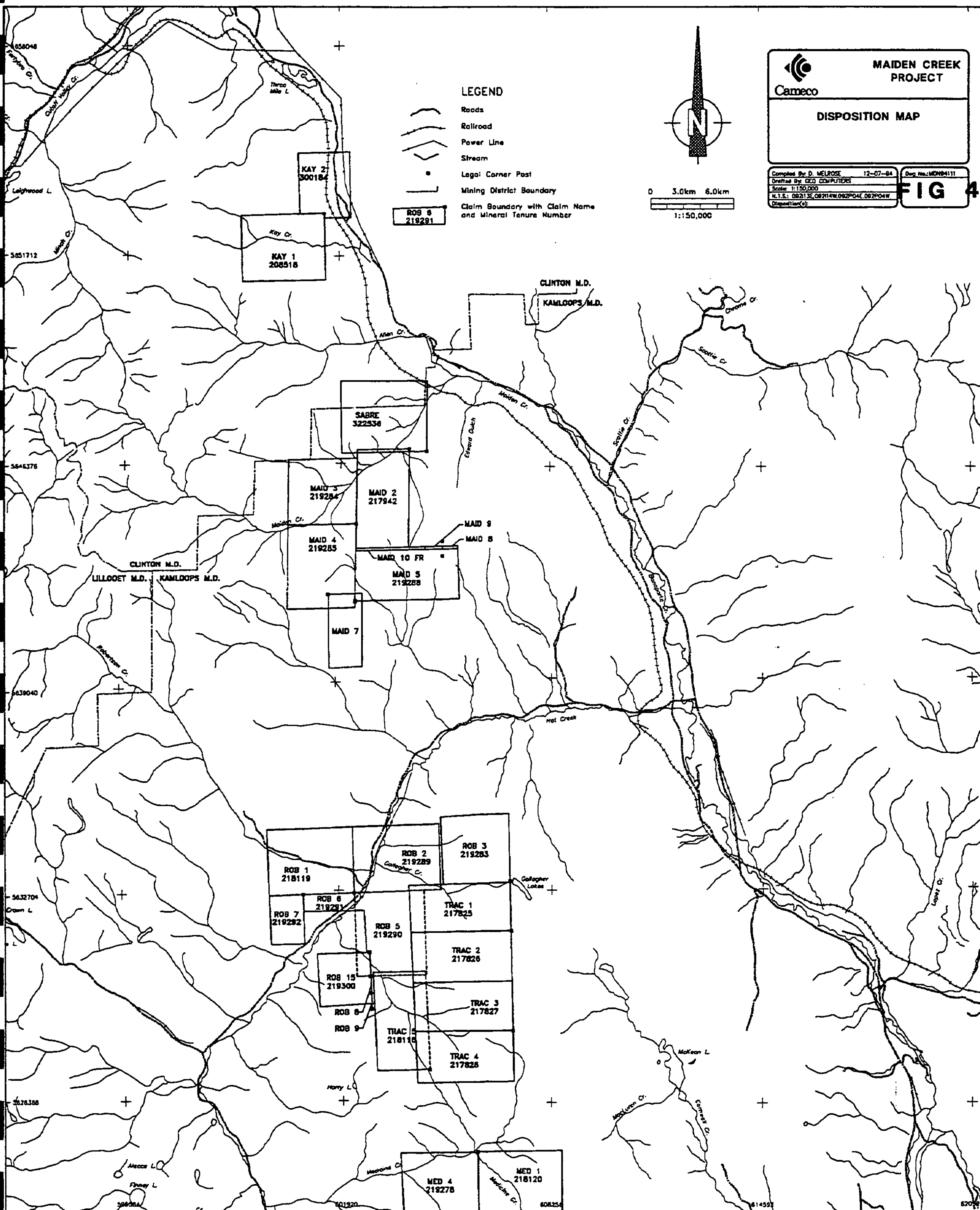
The Maid claim group consists of six claims blocks and one fraction claim (see Figure 4 and Table 1). The group is comprised of 67 units (1,675 hectares) located in the Kamloops Mining Division, NTS I/13E.

The Trac claim group consists of 3 grid claims (see Figure 4 and Table 1) and is comprised of 54 units which covers 1,350 hectares. The claims lies within the Kamloops Mining Division, NTS 92 I/13E and 92 I/14W.

Table 1

Maiden Creek Project - Claim Status

Claim	Units	Record No.	Staked/ Recorded	Current Expiry	Assessment Pending
MAID GROUP					
Sabre	20	322536	Nov 14/93	Nov 14/94	Nov 14/2000
Maid 2	18	217942	Jan 19/88	Jan 19/99	Jan 19/2000
Maid 5	18	219286	May 23/90	May 23/95	May 23/2000
Maid 7	8	219288	May 22/90	May 22/95	May 22/2000
Maid 8	1	219356	June 15/90	June 15/96	June 15/2000
Maid 9	1	219357	June 15/90	June 15/96	June 15/2000
Maid 10 Fr	1	219358	June 15/90	June 15/96	June 15/2000
TRAC GROUP					
Trac 2	18	217826	June 20/87	June 24/02	June 24/03
Trac 3	18	217827	June 21/87	June 24/02	June 24/03
Trac 4	18	217828	June 21/87	June 24/02	June 24/03


MAIDEN CREEK PROJECT
Cameco
DISPOSITION MAP
Compiled By: D. MELROSE 12-07-94
Drafted By: GEO COMPUTERS
Scale: 1:150,000
FIG 4
LEGEND
Roads
Railroad
Power Line
Stream
Legal Corner Post
Mining District Boundary
Claim Boundary with Claim Name and Mineral Tenure Number
ROB 6 219291
0 3.0km 6.0km
1:150,000
KAY 2 300184
KAY 1 208516
SABRE 322536
MAID 3 219284
MAID 2 217942
MAID 4 219285
MAID 9
MAID 8
MAID 10 FR
MAID 5 219288
MAID 7
CLINTON M.D.
KAMLOOPS M.D.
LILLOOET M.D.
ROB 1 218119
ROB 2 219289
ROB 3 219283
ROB 6 219291
ROB 7 219292
ROB 5 219290
ROB 15 219300
ROB 8
ROB 9
TRAC 1 217825
TRAC 2 217826
TRAC 3 217827
TRAC 4 217828
TRAC 5 218118
MED 4 219278
MED 1 218120
Kay Cr.
Allen Cr.
Maiden Cr.
Edward Gulch
Scottie Cr.
Chrome Cr.
Bonaparte R.
Hat Creek
Gallagher Cr.
Gallagher Lakes
Robertson Cr.
McKean L.
Harry L.
Medicine Cr.
Finney L.
Finney Cr.
Mecca L.
Crown L.
Leighwood L.
Lopez Cr.
5858048
5851712
5845376
5839040
5832704
5826368
601920
608256
614592
620928

1.3 History and Production

To the south B.C. Hydro conducted intense exploration for coal between 1970 and 1982. A large coal deposit estimated to contain between 10 and 15 billion tons of coal was outlined southwest of the Bonaparte Graben. A high grade section of 350 million tons of subbituminnous/lignite coal has been delineated as feed for B.C. Hydro's planned thermal electric plant. The project has been on hold since 1983 and commercial production is still pending.

Porphyry copper exploration east of the Bonaparte Graben in the 1970's located the Maggie deposit which contains 181 million tons of 0.28% Cu and 0.029% Mo. The deposit is located along the eastern boundary of the graben.

Small amounts of placer gold have been found in the area since the turn of the century. Bedrock gold mineralization was reported in 1901. A sample of quartz conglomerate from the lower extent of Maiden Creek, east of the claim group assayed about 0.19 oz/ton Au. Most of the work since then has been done in the Maiden Creek area. In 1980 Cominco explored the area of the Bonaparte Graben about 15 kms to the south of the Maid claim group.

A regional heavy mineral program for the Bonaparte Graben was initiated in 1987 by Discovery Consultants. Minor follow up work with closer spaced sampling on selected anomalies was completed in 1988 and 1989. The heavy mineral samples were separated into magnetic, para-magnetic, and non-magnetic fractions. Experience has shown Discovery that the gold is located in the -150 mesh non-magnetic fraction.

Heavy mineral samples from the Maiden Creek and its southern tributaries returned 1,200 ppb to 41,000 ppb Au in the non-magnetic fraction. In 1990 and 1991 Teck Exploration carried out a soil sampling, geological mapping, and a ground magnetic/VLF survey on the Maid Grid. Several sporadic gold soil anomalies were identified on the Maid grid.

Heavy mineral samples from the creeks draining the peak of the Trachyte Hills range from 3,100 ppb to 204,000 ppb Au in the -150 non-magnetic fraction. The anomalous gold values were believed to be associated with the Eocene quartz latite lava dome capping the peak of the Trachyte Hills. In 1990 and 1991 Teck Exploration carried out soil/rock sampling, geological mapping, ground magnetics/VLF, and trenching on the Trac grid. A source for the sporadic gold soil and heavy mineral gold anomalies was not found.

1.4 1993/94 Exploration Program

1.4.1 Maid/Sabre Grids

The work was carried out between November 15 - 25, 1993, May 9 -18, 1994, June 18 - 24, 1994 and July 13 - 18, 1994. The work on the Maid grouped claims consisted of soil sampling (60 samples), rock sampling (86 samples), till/heavy mineral sampling (27 samples), geological/overburden mapping (1:2500 and 1:5000), line cutting (6 kms), and an IP/resistivity survey (6 kms). The linecutting was completed on L330N, L333N, and L336N on the Maid grid. The 0.6 to 1m wide lines were cut using chainsaws.

1.4.2 Trac Grid

The work was carried out between November 15 - 25, 1993 and May 15 - 20, 1994. The work on the Trac claims consisted of soil sampling (2 samples), rock sampling (11 samples), till/heavy mineral sampling (20 samples), and geological/overburden mapping at a scale of 1:5000.

1.5 Objectives of the Program

The objective of the exploration program was to locate the source of the unexplained anomalous gold values within the Maid grid, Sabre grid, and Trac grid areas. Using Cameco's experience and techniques in exploring for gold deposits in glacial terrains would help in locating the source of the gold anomalies. Mapping of the overburden/till pits and defining the gold horizon in soils would prove beneficial. Mapping and sampling of the limited outcrop was done to help locate anomalous gold in outcrops and locate areas of hydrothermal alteration. Work focused on evaluating the glacial deposits and setting, and studying the size, shape, and distribution of the gold grains in heavy mineral concentrates.

2.0 GEOLOGY

2.1 Regional Geology

The MAIDEN CREEK PROJECT (Figure 2) is located in the allochthonous Intermontane Belt of south central British Columbia. This is a superterrane composed of two oceanic terranes (Slide Mountain and Cache Creek), and two island arc terranes (Quesnellia and Stikinia). The property covers an area in the southeastern part of the Cache Creek Terrane close to the boundary of the Quesnellia terrane. The location is about 20 km east of the Fraser River Fault system.

The Bonaparte Graben is part of the Cache Creek terrane. The northern part of the property covers the eastern contact of the graben. The graben is filled by Cretaceous alluvial fan sediments of unknown thickness, which might be correlated with part of the Pasayten Group. There is a northern proximal fan facies (coarse cobble to boulder conglomerate), and a southern distal fan facies (wacke and fine pebble conglomerate). This indicates a northern source for the sediments. The coarse clastic sediments are bedded, coarsening upwards sequence, and they are deposited as planar beds in alluvial channels by continuous sediment transport in the upper flow regime. The sediments dip to the west and east from a central core of the western volcanic facies of the late Triassic to early Jurassic Nicola Group of the Quesnellia terrane. The volcanics are locally in fault contact with schist of the middle Pennsylvanian to late Triassic eastern belt of the Cache Creek Complex.

The alluvial fan sediments are unconformably overlain in the southwestern by an arid cobble conglomerate. This conglomerate is interpreted to be deposited by mudflow or debris flow from a western source.

In the west, the graben is bounded by the Permian to Triassic Marble Canyon

Formation. Massive limestone is interbedded with minor ribbon chert, argillite, tuffs, and volcanic flows. This is part of the Central belt of the Cache Creek Complex.

To the northeast and southwest, the graben is bounded by the middle Pennsylvanian to late Triassic Eastern belt of the Cache Creek Complex. It is composed of chert, phyllite, schist, argillite, basalts, and minor carbonate. This belt hosts the Maggie porphyry Cu-Mo deposit east of the graben.

The graben is bounded to the east by the central volcanic facies of the late Triassic to early Jurassic Nicola Group. This facies is composed of massive and fragmental andesitic and basaltic flows. Finer grained tuffs and flows indicate subaqueous origin for at least part of the succession.

In the south, the graben is bounded by the western facies of the Nicola Group. Generally the volcanic rocks of this facies are more acidic than the central and eastern facies, and it is composed mainly of dacite and rhyolite with minor basalt. Flows, volcanic breccias and lapilli tuffs forms the lower part of the succession (possible subaerial origin), while fine grained flows, volcanoclastics, and massive limestones form the upper part of the succession (possible subaqueous origin).

Amygdaloidal basaltic pillow lavas in the northern part of the graben are believed to be part of the central facies of the Nicola Group.

The sediments are intruded by Eocene quartz latite and rhyolite bodies ranging in size from narrow dykes to large domes or sills. These rocks have patchy argillic alteration.

Post Eocene compression formed northwest striking anticlines in the graben. Subsequent erosion has exposed the Nicola Group volcanics in the core of these anticlines. Coeval north trending synclines and anticlines in the Hat Creek valley to the southwest indicate formation by regional compression.

A post folding normal fault along the axis of the southern graben anticline, has located deformed chert and argillite of the eastern belt of the Cache Creek Complex adjacent to Nicola Group volcanics. Serpentinite bodies are emplaced along this NW fault. To the east, similar serpentinite bodies are emplaced along this northwest fault. To the east, similar serpentinite bodies are emplaced along a north to northwest striking structure adjacent to the Maggie Cu-Mo deposit.

Post Eocene deformation formed large and small scale faults throughout the graben.

The area is covered by extensive glacial moraine from at least one episode of Pleistocene glaciation.

2.2 Property Geology

2.2.1 **Sabre Grid** (Figure 3 and Drawing 1)

The Sabre grid lies at the north end of the Maiden Creek property and the northern portion of the Bonaparte graben. The grid is predominantly underlain by bedded wacke and polymictic pebble-cobble conglomerate. The conglomerate is later intruded by a northwest trending and locally sheared quartz latite dyke. The flatter and topographically higher northwest corner of the grid is completely covered by glacial till without any outcrop bluffs. The steeper and southeast facing slope is a mixture of outcrop bluffs with a moderately thin colluvium cover with isolated pockets of till. The till and washed (remobilized) till pockets generally occur in depressions and along some of the wider drainages. The main distinguishing characteristic between till and conglomerate colluvium is that the till has a higher clay fraction, clay coated pebbles, and slightly more diverse rock lithologies. The clay is plastered on one side of the pebbles only.

The conglomerate varies between pebble-cobble supported (15-20%) matrix and matrix supported (40% matrix). The fragments are composed of quartz, tuff, andesite, siltstone, wacke, granodiorites, and limestone. They are subrounded to angular ranging in size to 5 mm to 20 cm. The beds are generally orientated from NNE to NNW and dipping less than 40°. Localized traces of argillic alteration and fracturing was noted.

The quartz latite dyke is light greenish grey to light grey and fine grained. There is no contact alteration of the conglomerates adjacent to this dyke.

2.2.2 **Maid Grid** (Figure 3 and Drawing 2)

The Maid grid is predominantly covered by glacial till and colluvium with pockets of till. The outcrop exposure is approximately 1% and it is comprised of conglomerate and andesite along the western side of the grid. The glacial till coverage is predominantly located on the flatter and topographically higher elevation in the southeastern part of Maid grid. The till characteristics are the same as on the Sabre grid. The flatter and wider drainages are characteristic of braided streams and are comprised primarily of reworked till with isolated pockets of colluvium (?). On the steeper slopes the overburden is comprised of a mixture of colluvium and washed till. Increased clay content and clay coated pebbles are very widespread and it may suggest glacial dumping or plastering of till on this northwest facing slope.

The conglomerate has the same characteristics as the conglomerate described on the Sabre grid.

The andesite in the western portion of the grid is locally porphyritic and it is probably part of the underlying Nicola Group.

2.2.3 **Trac Grid** (Figure 3 and Drawing 3)

The Trac grid is located in the southern part of the project area and the Bonaparte graben. The grid is predominantly underlain by Cretaceous alluvial fan sediments (conglomerates, wacke) which are intruded by a large Eocene quartz latite lava dome (Bruland, 1992).

The following geological descriptions are taken from T. Bruland , 1992 and from personal observations of the author. A near flat lying contact between the conglomerate and the quartz latite is exposed in a trench that was emplaced by Teck Exploration. The conglomerate is generally northwest-southeast striking with a shallow (15-20°) southwest dip. The conglomerate is moderately to well sorted and it is mainly matrix supported with subangular to rounded fragments. The quartz latite is fine grained with patchy argillic alteration and localized, weak iron oxide staining. Generally the flow banding of the quartz latite dips to the center of the dome possibly suggesting a collapse structure within the dome.

On the Trac grid glacial till is found in low depressions and flatter topographical features on the northwest, west and southwest sides of the Trachyte Hills. Till coverage over the entire grid is less than 25%.

3.0 GEOCHEMISTRY

3.1 Introduction

The preferred medium for bulk till sampling is the basal till from the C-horizon. On the Maid and Trac grids 10 kg samples were collected along anomalous drainages identified by a regional heavy mineral survey by Discovery Consultants. The detailed till sampling by Cameco was designed to determine whether the heavy mineral gold anomalies are from a bedrock source or an off property source, or a reconcentration of gold from the tills. Tills were collected from the sloped stream banks and from on top of the apparent stream bench. The till sample descriptions are included as Appendix I. A line of horizon specific soil samples were collected to see if the gold was associated with a certain soil horizon. On the Sabre and Maid grids, outcrop samples were collected from most outcrops whether they were altered or mineralized or not as to determine a bedrock source for the gold. On the Trac grid brittle zones associated with the quartz latite/conglomerate contact were sampled. Outcrop sample descriptions are included in Appendix I. Analytical results from the till, soil, and outcrop/boulder samples are included as Appendix II.

Bulk till samples were shipped to the Saskatchewan Research Council (SRC) in Saskatoon, Saskatchewan and then to Activation Laboratories Ltd., in Ancaster, Ontario for 34 element instrumental neutron activation analysis. A description of the till/heavy mineral sample processing and analysis are included as Appendix III. Soil and rock samples were analyzed for gold and some rock samples were subjected to multi-element ICP. Analytical procedure for gold in soils/rocks and multi-element ICP are included in Appendix III.

Ken Wasyliuk, a Cameco geochemist/geologist completed a statistical and geochemical interpretation of the data from all three grids. K. Wasyliuk's field observations are included as part of the report. The report is included as Appendix IV.

3.2 Results

A statistical interpretation of the heavy mineral samples indicates that most of the anomalous gold in the Quaternary overburden (tills, streams sediments, and colluvium) is related to free, visible gold. Approximately 30% of the gold (till/colluvium/stream) are related to non visible gold in the heavy nonmagnetic fraction. The anomalous gold values in any sampling medium do not have elevated trace element affinities which may suggest a non hydrothermal source.

3.2.1 Sabre Grid (Drawing 1)

The soil and outcrop sampling did not return any significant gold values or anomalies. The highest gold in soil result is 40 ppb Au and the best result from outcrop sampling is 83 ppb. Two anomalous till/heavy mineral samples occur along the northern portion of the grid. They returned values of 216.9 and 94.8 ugm of Au/5 kg. These samples were collected from a basal glacial till.

3.2.2 Maid Grid (Drawing 2)

The boulder and outcrop samples collected on the Maid grid did not return any significant gold values. The best result came from a rounded, volcanic boulder and it assayed 141 ppb Au. All other outcrop samples returned values less than 88 ppb Au. The test line of horizon specific soil sampling indicated that the gold is erratic and occurs both the C_1 and C_2 soil horizons. The C_1 horizon has one sample that returned a value greater than 100 ppb Au and the C_2 horizon had 4 samples with values greater than 100 ppb Au. The two highest soil samples are located in the anomalous drainage and they may be related to mechanical reconcentration. The other anomalous samples are located within a wide drainage basin which appears to be an ancient braided stream (hummocky with channels). The till/heavy mineral samples collected across the anomalous drainage returned sporadic values ranging from 0.1 to 176 ugm of Au/5kg. The highest gold values are predominantly within the lowest topographical portion of the creek bed. Going upslope from the creek bottom the samples generally contain lower gold values.

3.2.3 Trac Grid (Drawing 3)

Soil samples collected along the conglomerate - quartz latite contact returned values as high as 71 ppb Au. Outcrop samples collected from shear zones and weak alteration within the quartz latite and along its contact did not return any significant gold values. The best gold value is 7 ppb Au. Till/heavy mineral samples were collected along anomalous streams and within areas with soil anomalies. The best value is 172 ugm Au/5 kg and it was taken along a drainage within the quartz latite. Other weakly anomalous samples were collected from along the drainages. Follow up sampling uphill from these drainages did not return any significant gold values.

4.0 GEOPHYSICS

A 6 km IP/resistivity survey was carried out in July, 1994. The survey was completed by Peter Walcott and Assoc. Ltd., under the supervision of Cameco Chief Geophysicist, Dr. Ron Matthews. The objective of the survey was to delineate structural and alteration zones in the overburden covered anomalous areas. The survey identified a series of weak IP anomalies and trends within a low resistivity background. More detailed results of the survey are described in two reports included as Appendix V and VI.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The processing and interpretation of the till/heavy mineral data from the Maiden Creek property indicate that the anomalous gold is probably due reconcentration of gold from weakly auriferous bedrock or glacial tills within wide drainage areas. There is no evidence for a hydrothermal source. The evidence supporting the reworking and concentration of the gold from the tills are: The lack of pathfinder affinities, the low rare earth values, the erratic distribution of anomalous samples, the abraded nature of gold grains, and that the anomalous samples have a higher percentage of coarse gold than background samples.

The Sabre grid is predominantly underlain by conglomerate which is cut by a quartz latite dyke. There is no visible hydrothermal alteration associated with the intrusion. Glacial till covers the northwest corner of the grid area and colluvium with till pockets covers the southeast facing slope. The soil and outcrop sampling did not return any significant gold values. Heavy mineral concentrates from two large till samples returned results of 216.9 and 94.9 ugm of Au/5 kg along the northern portion of the grid. Since ice direction is from the northwest, an off property source is suggested.

The Maid grid is predominantly covered by overburden, with till covering the flat, topographically higher portion of the grid. Washed till and colluvium cover the northwest facing slope of the mountain. The highest gold value in a till/heavy mineral sample is 176 ugm of Au/5 kg. Follow up till/heavy mineral sampling did not extend any anomalies. Outcrop sampling did not return any significant gold values. Both the C_1 and C_2 have sporadic anomalous gold values. The highest gold values occur in the bottom of the drainage. The IP/resistivity survey did not delineate any strong chargeability or resistivity targets.

The Trac grid is underlain by conglomerates which are intruded by a quartz latite dome. The soil and outcrop samples did not return any significant gold values. The anomalous till/heavy mineral samples are cut off by follow up sampling or earlier trenching activities that exposed non-mineralized outcrop. The anomalous gold samples may be due to reconcentration of gold.

Due the results of the exploration program, no further work is recommended for the Maiden Creek property.

Respectfully submitted,

PROFESSIONAL
PROVINCE OF
D. L. MELROSE
BRITISH COLUMBIA
SCIENTIST

Dwayne L. Melrose, P.Geo., P.Geol.
January 15, 1994

6.0 BIBLIOGRAPHY

Bruland, T. -1991 Geological, Geochemical, and Geophysical Assessment Report on the Trac Mineral Group.

-1991 Geological and Geochemical Assessment Report on the Maid West Mineral Group.

-1991 Geological and Geochemical Assessment Report on the Maid East Mineral Group.

-1992 Geological, Geochemical, and Geophysical Assessment Report on the Maiden Mineral Group.

-1992 Geological and Geochemical Assessment Report on the Trac Mineral Group.

Monger, J. -(1989) Geology of the Hope and Ashcroft Map Areas, British Columbia: GCS Map 42-1989.

Nicol, I., et al,

-(1992) The Optimization of Geochemical Exploration for Gold using Glacial Till; in Exploration Mining Geology, Vol. 1, No. 4, pp. 305-326.

Wynne, F. -1987 Maiden Creek Project Year End Report; Discovery Consultants Report.

7.0 STATEMENT OF COSTS

7.1 Maid Group (Maid and Sabre Grids)

Geochemistry/Geology

1.	Professional Services R. Chapman, P.Geo. program planning/supervision 1.5 days @$417/day	625.50	
	D.Melrose, P.Geo. Program planning, supervision, data compilation, report writing 12 days @ $308/day	3696.00	
	K. Wasyliuk, geochemist data compilation, report writing 5 days @ $317/day	1585.00	**$5906.50**
2.	Field Personnel (mapping and rock, till, soil sampling) D.Melrose(May 8-18, June 18-23,1994) 14 days @ $308/day	4312.00	
	K. Wasyliuk(May 9-17,1994) 7 days @ $317/day	2219.00	
	J. Boutwell(May 9-18, June 18-23,1994) 14 days @$200/day	2800.00	
	Discovery Consultant(contract sampling) includes wages, drafting, transportation, mob/demob from Vernon, meals, shipping, accomadations,etc)	7424.37	**$16755.37**
3.	Analysis 1994 tills(Au grain count) 15 samples @ 63.97/sample	959.55	
	1994 neutron activation analysis 15 samples @ 19.85/sample	297.75	
	41 30 gm Au rock samples 41 samples @ 12.37/sample	507.17	

	60 soil samples(-150 mesh,30 gram) 60 samples @ 13.85/sample	831.00	
	45 rock Au/ICP samples 45 samples @ 28.84/sample	1297.80	
	1993 tills/heavy mineral samples 12 samples @ 56.81/sample	681.72	
	1993 neutron activation analysis 12 samples @ 15.44/sample	185.28	**$4760.27**
4.	Shipping samples		279.34
5.	Vehicle Rental 2 weeks @542.45/week 900 km @ 0.25/km	 1356.13 225.00	1581.13
6.	Accommodation/meals		2100.00
7.	Field Supplies		820.46
8.0	Communications: phone/fax/courier		200.00
9.0	Mob/demob		1350.00
10.	Drafting		1200.00
11.	Secretarial, Office, Map Printing		300.00
12.	Equipment Rental		289.00
	Total for Geochemistry/Geology		**$35,542.07**

Geophysics

1.	Professional Services D. Melrose, P.Geo. program planning, supervision 3 days @ 308/day	924.00	

	R. Chapman, P.Geo. supervision 1 day @ 417/day	417.00	
	R. Matthews, geophysicist planning, report writing 2 days @ 487/day	987.00	**$2328.00**
2.	Geophysical Contractor Peter Walcott & Assoc.(July 13-18/94) 4.1 km of IP/resistivity		6123.00
3.	Contract Linecutting Lone Trail Prospecting(June 18-24/94) 4.1 km (includes meals, accommodations truck rental, saw rental)		4079.99
4.	Drafting		600.00
5.	Communications: phone, fax, courier		60.00
6.	Secretarial, office, map printing		100.00
	Total for Geophysics		**$13,290.99**

TOTAL EXPENDITURES FOR ASSESSMENT FOR THE MAID GROUP(MAID/SABRE GRIDS) **$48,833.06**

8.0 STATEMENT OF QUALIFICATIONS

I, DWAYNE L. MELROSE of 5173 Aspenview Drive, Reno, Nevada 89523, DO HEREBY CERTIFY that:

1. I am a geologist with Cameco Corporation, 2121 11th Street West, Saskatoon, Saskatchewan S7M 1J3.
2. I am a graduate of the University of Waterloo (1981) with a Bachelor of Science degree in Honours Earth Science.
3. I have been practicing my profession for 14 years.
4. I am a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
5. I am a Professional Geologist with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta.
6. This report is based on my own observations and the observations of people under my supervision on the Maiden Creek property between November 1993 and December 1994.

DATED at Reno, Nevada this January 15, 1995.

PROFESSIONAL PROVINCE OF D. L. MELROSE BRITISH COLUMBIA GEOSCIENTIST

DWAYNE L. MELROSE, P.Geo., P.Geol.

APPENDIX I

SAMPLE DESCRIPTIONS

Sample No.	Location (Grid, Grid Coordinates	Rock Name	Color/Texture/Structure	Mineralization	Analysis Au ppb	Au oz/t	V.G. oz/t
MDN4O-001	L112E 100+75N Sabre Grid	Conglomerate	brown with yellowish brown limonitic staining, polymictic, chert-sandstone-andesite-limestone clasts	weak limonitic staining	52		
MDN4O-002	Sabre Grid	Conglomerate	as O-001, matrix supported	weak limonitic staining	25		
MDN4B-003	Sabre Grid	Sandstone Bed	Fine grained and bedded, locally bleached, trace fracturing, trace slickensides on fractures, weakly sericitic	weak limonitic staining	3		
MDN4O-004	Sabre Grid	Conglomerate	weakly fracture controlled hematite,	weak limonitic-hematitic staining	5		
MDN4O-005	Sabre Grid	Conglomerate with sandstone beds	as O-001, bedded sandstone layers		6		
MDN4F-006	Sabre Grid	Quartz Latite	grab of quartz latite float, light greenish grey, locally sheared-strongly fractured	trace hematitic fractures	2		
MDN4B-007	Sabre Grid	Conglomerate	boulder sample upslope from Au soil anomaly	trace limonitic fractures	3		
MDN4B-008	Sabre Grid	Conglomerate	weakly fractured with localized sericitic patches	weak limonitic fractures	4		
MDN4O-009	Sabre Grid	Conglomerate/Sandstone contact	weakly fractured contact	weak limonitic stained contact	1		
MDN4O-010	Sabre Grid	Conglomerate	taken at footwall of sheared quartz latite - conglomerate contact	trace limonitic fractures	15		
MDN4O-011	Sabre Grid	Conglomerate	as O-010, sample taken along same contact	as O-010	<1		
MDN4B-012	Sabre Grid	Quartz Latite Dyke	light greenish grey, vesicular, foliated to weakly sheared	no visible sulphides	<1		
MDN4O-013	Sabre Grid	Conglomerate	weakly fractured with localized sericitic patches	trace limonitic-hematitic fractures	1		
MDN4O-014	Sabre Grid	Conglomerate	weakly fractured, trace x-cutting bedding sericitic fractures	weak limonitic fractures	3		
MDN4O-015	Sabre Grid	Sandstone	salt and pepper appearance, locally bleached, weakly to moderately fractured, multidirectional fractures	trace limonitic fractures	29		
MDN4B-016	L331+25N 65+50E Maid Grid	Basalt boulder	dark green, platy to weakly sheared, trace chlorite bleb and fractures, multidirectional	no visible sulphides	88		
MDN4B-017	L335+86N 65+40E Maid Grid	Conglomerate/ Sandstone	top soft, weathered outcrop, fractured	weak limonitic stained-fractures	<1		
MDN4O-018	L336+40N 65+40E Maid Grid	Conglomerate	polymictic, heterolithic weak whitish - pale green weathering		24		

Sample No.	Location (Grid, Grid Coordinates	Rock Name	Color/Texture/Structure	Mineralization	Analysis Au ppb	Au oz/t	V.G. oz/t
MDN40-019	L331+20N 53+00E Maid Grid	Andesite	medium green, weak quartz-calcite stringers, platy in places, bladed amphibole crystals	no visible sulphides	<1		
MDN40-020	L330+25N 53+00E Maid Grid	Andesite	as 0-019		<1		
MDN40-021	trench of Trac Grid	Quartz Latite	weak silicified bands, trace quartz filled fractures	trace limonitic to yellowish green (chlorite-arsenic?) staining	<1		
MDN40-022	L181+40N 89+00E Trac Grid	Sheared Quartz Latite	bleached white to light grey, platy fabric,196°/68°, weak argillic alteration	no visible sulphides	<1		
MDN40-023	Trac Grid	Conglomerate	sample taken near conglomerate - quartz latite contact, localized sericite alteration	localized hematitic fractures	<1		
MDN40-024	Trac Grid	Quartz Latite	near conglomerate-quartz latite contact, locally bleached white to light grey, moderate argillic alteration, moderately fractured with chlorite - epidote	trace limonitic fractures	<1		
MDN40-025	Trac Grid	Conglomerate	taken in trench at the conglomerate-quartz latite contact, possibly shear related (050°/80°),Strong sericite alteration, weak to moderate gossan staining, latite is overlying conglomerate at 10-15° dipping into the hill	weak to moderate hematite-gossanous fractures	7		
MDN40-026	Trac Grid on road	Conglomerate	mottled grey brown to yellowish brown, taken at soil sample locations 135 and 136		3		
MDN40-107	Sabre Grid	Conglomerate	in area of Au anomaly, weakly fractured		3		
MDN40-1000	Sabre Grid	Conglomerate	rusty stained, 6 mm wide bedded sandstone bed(348°/75W)	limonitic staining	7		
MDN4B-10001	Sabre Grid	Intermediate Intrusive	moderate chlorite alteration	1-2% pyrite	4		
MDN40-10001	Sabre Grid	Conglomerate	polymictic, heterolithic clasts		2		
MDN4B-10003	Sabre Grid	Andesite Agglomerate	boulder sample with weak chlorite alteration	trace disseminated pyrite	33		
MDN40-10004	Sabre Grid	Conglomerate	locally fractured with cm scale sandstone beds	weak limonitic staining	<1		
MDN4B-10005	Sabre Grid	Conglomerate	boulder sample with moderate rusty staining		3		
MDN4B-10006	L321+90N 63+75E Maid Grid	Dacite volcanic Boulder	very angular boulder with calcite stringers	no visible sulphides	<1		
MDN4B-10007	L327+00N 65+90E Maid Grid	Limestone Boulder	weakly fractured, trace calcite stringers	no visible sulphides	<1		

Sample No.	Location (Grid, Grid Coordinates	Rock Name	Color/Texture/Structure	Mineralization	Analysis Au ppb	Au oz/t	V.G. oz/t
MDN4B-10008	L330+00N 64+00E Maid Grid	Andesite Agglomerate Boulder	unaltered with weak foliation	no Visible sulphides	2		
MDN40-10009	L331+00N 55+00E Maid Grid	Basalt	unaltered, weakly fractured	no visible sulphides	2		
MDN40-10010	L336+00N 62+90E Maid Grid	Andesite Agglomerate Boulder	homogenous looking and unaltered	no visible sulphides	141		
MDN4B-10011	L338+75N 62+50E Maid Grid	Argillite Boulder	trace quartz stringers, 30 cm in size and angular	trace rusty fractures	3		
MDN4B-10012	L335+50N 66+20E Maid Grid	Volcanic Boulder	sub-angular boulder, locally leached(white chalky)	no visible sulphides	<1		
MDN4B-10013	L334+25N 64+50E Maid Grid	Argillite Boulder	weak quartz filled fractures	no visible sulphides	3		
MDN4B-10014	L335+95N 61+70E Maid Grid	Andesite Boulder	angular, greyish green, coarse grained	no visible sulphides	1		
MDN4B-10015	L336+20N 62+00E Maid Grid	Diorite Boulder	weak quartz-pyrite filled fractures	trace pyritic fractures	6		
MDN40-10016	L337+10N 64+25E Maid Grid	Conglomerate	weak rusty staining		4		
MDN4B-10017	L336+95N 64+75E Maid Grid	Limestone Boulder	weak quartz veining 10 cm wide	no visible sulphides	2		
MDN4B-10018	L332+90N 63+75E Maid Grid	Andesite Boulder	trace quartz-calcite fractures, crumbly texture	no visible sulphides	2		
MDN40-10019	L341+75N 68+00E Maid Grid	Conglomerate	weak limonitic surface staining	no visible sulphides	4		
MDN40-10020	L191+00N 75+50E Trac Grid	Conglomerate	weak sandy beds, locally fractured	no visible sulphides	2		
MDN4B-10021	L187+00N 81+50E Trac Grid	Quartz Latite	weak argillic alteration, upslope from soil anomaly	no visible sulphides	<1		
MDN40-10022	L184+00N 81+25E Trac Grid	Quartz Latite	whitish, brittle, thinly laminated or banded, weak argillic alteration	no visible sulphides	<1		
MDN4B-10023	L170+00N 84+00E Trac Grid	Quartz Latite	weak hematitic staining	no visible sulphides	1		
MDN4B-10024	L171+00N 81+50E Trac Grid	Quartz Latite	weakly silicified, glassy	no visible sulphides	<1		

Sample No.	Location (Grid, Grid Coordinates	Rock Name	Color/Texture/Structure	Mineralization	Analysis Au ppb	Au oz/t	V.G. oz/t
MDN40-201	Sabre Grid	Quartz Latite	greenish grey, quartz - feldspar phenocrysts, 3-5% bladed amphibole crystals, weakly fractured, trace calcite stringers	no visible sulphides	83		
MDN40-202	Sabre Grid	Conglomerate	localized silicified stringers, near quartz latite dyke contact	No visible sulphides	6		
MDN40-203	Sabre Grid	Quartz Latite Dyke	locally sheared 270°/90-85o, localized sericite and calcite stringers-fractures	no visible sulphides	14		
MDN40-204	Sabre Grid	Quartz Latite Dyke	as 0-203, sheared 270/90 and 156/74	no visible sulphides	3		
MDN40-205	Sabre Grid	Conglomerate	unaltered, within 30 m of latite dyke	no visible sulphides	4		
MDN40-206	Sabre Grid	Conglomerate	same location as 0-205, minor calcite cement, bedded 209/10, clast supported	no visible sulphides	15		
MDN40-207	Sabre Grid	Conglomerate	interbedded fine to coarse conglomerate, chip across 5.5 m of bedding, unaltered	no visible sulphides	3		
MDN40-208	Sabre Grid	Conglomerate	very coarse, heterolithic, trace calcite cement, unaltered	no visible sulphides	5		
MDN40-209	Sabre Grid	Conglomerate	chip across 4 m of bedding, unaltered	no visible sulphides	5		
MDN40-210	Sabre Grid	Conglomerate	chip across 3.5 m of bedding, unaltered	no visible sulphides	2		
MDN40-211	Sabre Grid	Conglomerate	localized brittle zones 245/80, 4-5 m wide, chip across the brittle zone, trace calcite cement	no visible sulphides	3		
MDN40-212	Sabre Grid	Conglomerate	locally bedded, moderately sorted, trace calcite cement,	no visible sulphides	6		
MDN40-213	Sabre Grid	Conglomerate	unaltered	no visible sulphides	<1		
MDN40-214	Sabre Grid	Conglomerate	heterolithic, finely bedded from fine to coarse sorting	trace limonitic staining	2		
MDN40-215	Sabre Grid	Conglomerate	has sandy/silty interbeds, chip across 3.5 m of bedding	trace limonitic staining	6		
MDN40-216	Sabre Grid	quartz Latite Boulder	greyish green, 5% orientated amphibole crystals, elongated quartz-feldspar phenocrysts, cross cuts conglomerate beds	no visible sulphides	2		
MDN40-217	Sabre Grid	Conglomerate	at conglomerate-quartz latite dyke contact, unaltered, contact 272/61, bedding 245/42	no visible sulphides	2		
MDN40-218	Sabre Grid	Conglomerate	unaltered	no visible sulphides	2		
MDN40-219	Sabre Grid	Quartz Latite Dyke	sample at conglomerate-dyke contact, locally sheared 256/75, weak chloritic fractures, orientated amphibole crystals	no visible sulphides	2		

Sample No.	Location (Grid, Grid Coordinates	Rock Name	Color/Texture/Structure	Mineralization	Analysis Au ppb	Au oz/t	V.G. oz/t
MDN40-220	Sabre Grid	Conglomerate	bedded 130/47, very coarse with fine grained beds, unaltered	no visible sulphides	2		
MDN40-221	Sabre Grid	Conglomerate	chip across 3 m of bedding, unaltered	no visible sulphides	3		
MDN40-222	Sabre Grid	Conglomerate	chip across 4 m of bedding, unaltered	no visible sulphides	2		
MDN40-223	Sabre Grid	Conglomerate	bedded 314/48, weak calcite cement	no visible sulphides	4		
MDN4B-2001	Sabre Grid	Conglomerate	unaltered, heterolithic	no visible sulphides	1		
MDN4B-2002	Sabre Grid	Conglomerate	bedded, localized weak fracturing,	no visible sulphides	2		
MDN40-2003	Sabre Grid	Conglomerate	unaltered	no visible sulphides	2		
MDN40-2004	Sabre Grid	Conglomerate	chip across 2 m of bedding, unaltered, trace calcite cement	no visible sulphides	1		
MDN40-2005	Sabre Grid	Conglomerate	chip across 3.5 m of bedding, trace calcite cement	no visible sulphides	<1		
MDN4B-2006	Sabre Grid	Quartz Latite Boulder	light greenish grey, sheared	no visible sulphides	1		
MDN40-2007	Sabre Grid	Conglomerate	chip across 2 m of bedding, unaltered, trace fracturing	no visible sulphides	4		
MDN4B-2008	Sabre Grid	Quartz Latite Boulder	as B-2006	no visible sulphides	2		
MDN40-2009	Sabre Grid	Conglomerate	chip across 4 m of bedding, unaltered	trace limonitic staining	2		
MDN40-2010	Sabre Grid	Conglomerate	1 m wide brittle zone with weak calcite cement	trace limonitic fractures	1		
MDN40-2011	Sabre Grid	Conglomerate	chip across 2 m of bedding, unaltered	no visible sulphides	2		
MDN4B-2012	Sabre Grid	Conglomerate	limonitic stained and fractured boulder	no visible sulphides	1		
MDN40-2013	Sabre Grid	Conglomerate	chip across 3 m of bedding, unaltered	no visible sulphides	2		
MDN40-2014	Sabre Grid	Conglomerate	chip across 2 m of bedding, unaltered, localized calcite cement	no visible sulphides	2		
MDN40-2015	Sabre Grid	Conglomerate	chip across 1 m of bedding,	trace limonitic staining	2		
MDN40-2016	Sabre Grid	Conglomerate	chip across 3.5 m of bedding, unaltered	no visible sulphides	4		
MDN40-2017	Sabre Grid	Conglomerate	chip across 2 m of bedding, unaltered	no visible sulphides	3		
MDN40-2018	Sabre Grid	Conglomerate	chip across 3 m of bedding, unaltered, localized calcite cement	no visible sulphides	2		

Project (1–2)	Year (3)	Sample Type (4)	Sample Number (5–8)	Grid (9–10)	Sampler Initials (11–13)	Day (14–15)	Month (16–17)	UTM East (18–24)	UTM North (25–30)	Topo (31)	Environment (32–33)	Drain (34)	Overburden Origin (35–36)	Bedrock (37)	Slope ∠ (38)	Slope Direction (39–40)
DN	4	T	100	SNEDE	KRW	10	05	see map			01	dry	TL	3	G	SE/E

pebbles of similar composition & shape as cong! to SR possibly colluvium ; upper side of ridge

Contam (41)	(42)	Veg. Type (43)	Veg. Part (44)	(45)	Soil Horizon (46–47)	Soil Type (48)	Color (49–50)	Texture (51–52)	Depth (m) (53–56)	% Coarse (57)	Shape (58–59)	Material (60–61)	Glacial Environment (62–63)	Geomorph. Modifier (64–65)	Ice Direction (66)	Azimuth (67–69)	70	71	72	73	74	75	76	77	78	79	80
					c	P	AD	03	0.7		MP	TL	M	V													

hillslope

Project (1–2)	Year (3)	Sample Type (4)	Sample Number (5–8)	Grid (9–10)	Sampler Initials (11–13)	Day (14–15)	Month (16–17)	UTM East (18–24)	UTM North (25–30)	Topo (31)	Environment (32–33)	Drain (34)	Overburden Origin (35–36)	Bedrock (37)	Slope ∠ (38)	Slope Direction (39–40)
L1	4	T	101		KRW	10	05	see map				dry	TL	3	G	[illegible]

hard pack

Contam (41)	(42)	Veg. Type (43)	Veg. Part (44)	(45)	Soil Horizon (46–47)	Soil Type (48)	Color (49–50)	Texture (51–52)	Depth (m) (53–56)	% Coarse (57)	Shape (58–59)	Material (60–61)	Glacial Environment (62–63)	Geomorph. Modifier (64–65)	Ice Direction (66)	Azimuth (67–69)	70	71	72	73	74	75	76	77	78	79	80
					c	P	AB	05	0.4		LS	TL															

hillslope

Project (1–2)	Year (3)	Sample Type (4)	Sample Number (5–8)	Grid (9–10)	Sampler Initials (11–13)	Day (14–15)	Month (16–17)	UTM East (18–24)	UTM North (25–30)	Topo (31)	Environment (32–33)	Drain (34)	Overburden Origin (35–36)	Bedrock (37)	Slope ∠ (38)	Slope Direction (39–40)
MDN	4	T	102		KRW	10	05	see map				dry	TL	3	G	SE

to R washed

Contam (41)	(42)	Veg. Type (43)	Veg. Part (44)	(45)	Soil Horizon (46–47)	Soil Type (48)	Color (49–50)	Texture (51–52)	Depth (m) (53–56)	% Coarse (57)	Shape (58–59)	Material (60–61)	Glacial Environment (62–63)	Geomorph. Modifier (64–65)	Ice Direction (66)	Azimuth (67–69)	70	71	72	73	74	75	76	77	78	79	80
					c	P	AB	03	0.5		MS	TL															

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1–2	3	4	5–8	9–10	11–13	14–15	16–17	18–23	24–30	31	32–33	34	35–36	37	38	39–40
DN	4	T	103		KRW	11	05	see map	hill top	D		most	01	3	G	ENE

good till space of structure

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
41	42	43	44	45	46–47	48	49–50	51–52	53–56	57	58–59	60–61	62–63	64–65	66	67–69
					C	P	AB	05	0.7		LB	TL	M			

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1–2	3	4	5–8	9–10	11–13	14–15	16–17	18–23	24–30	31	32–33	34	35–36	37	38	39–40
DN	4	T	104		KRW	11	05	see map		in small gully	fan (?)	most	01	3	G	ENE

hardpan — associated chert, intrusive clasts well rounded 6% sands clasts 54

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
41	42	43	44	45	46–47	48	49–50	51–52	53–56	57	58–59	60–61	62–63	64–65	66	67–69
					C	P	HB	05	0.6		LS	TC	M	✓		

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1–2	3	4	5–8	9–10	11–13	14–15	16–17	18–23	24–30	31	32–33	34	35–36	37	38	39–40
DN	4	R	105		KRW	11	05	see map		~~M~~ moderate slope	~~[illegible]~~ dry alluvium	1	0 -		M	N

ORB ~~[illegible]~~ residual soil — out depth

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
41	42	43	44	45	46–47	48	49–50	51–52	53–56	57	58–59	60–61	62–63	64–65	66	67–69
					B	P	·	03	0.3		MR					

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
m DN	4	R	106		YPW	11	05	see map			06	1		3	M	SW

colluvial soil hillslope colluvium

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
			B	P	RB	03	0.2		HS					

hillslope colluvial soil

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
m DN	4	R	108		KRW	11	05				06	1		3	M	SE

colluvium

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
			B	P	YB	03	0.3		LR					

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
m DN	4	R	109		KRW	11	05									

duplicate of 108

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
MON	4	R	110		KRW	11	05	see map 4+00W	3+00S		OC	M		3	M	SE

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
					B	F	YB	03	0.3	E	R	/				

colluvium hillslope dry alluvial soil

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
MON	4	R	111		KRW	11	05									

duplicate of 110

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1–2	3	4	5–8	9–10	11–13	14–15	16–17	18–23	24–30	31	32–33	34	35–36	37	38	39–40
M DN	4	T	113		KRW	12	05	64+30 (~~644~~)	32390		06	1	TL	1		

poorly developed soil profile — hill top — drumlin? — dry — none

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
41	42	43	44	45	46–47	48	49–50	51–52	53–56	57–58	59	60–61	62–63	64–65	66	67–70
							C	O4	0.6	M	A	TL	M	V		

mixture of fragment compositions; rare altered sheared pebbles with qtz microveining
on hill top next to small dry drainage; D (1 small pebble)

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1–2	3	4	5–8	9–10	11–13	14–15	16–17	18–23	24–30	31	32–33	34	35–36	37	38	39–40
M DN	4	T	114		KRW	12	05	–					01			NE

similar to 113 — on hillslope next to dry drainage — moist — none

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
41	42	43	44	45	46–47	48	49–50	51–52	53–56	57–58	59	60–61	62–63	64–65	66	67–70
					BM	P	B	04	0.7	L (LA)	5	TL	M			

valley slope — none

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1–2	3	4	5–8	9–10	11–13	14–15	16–17	18–23	24–30	31	32–33	34	35–36	37	38	39–40
M DN	4	T	115		KRW	12	05	65+13E	329+81N	/	06	1	01	/	G	NW

good till in C horizon hard to dig — 6X to 50 — dry

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
41	42	43	44	45	46–47	48	49–50	51–52	53–56	57–58	59	60–61	62–63	64–65	66	67–70
					C	F	AB	05	0.7	M		TL	M	V		

Hal's sample lower down still in influence of stream drainage

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
0N	4	T	116		KRW	12	05	6360	3300C				01		G	NE

good till to C up above R to SX till top dry nowhere

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
					Bm	P	AB	04	0.5		L	T		M	V	

washed fill

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
0N	4	T	117		KRW	12	05	6350	33100	,	06	1	01	,	G	N

to C to R gentle slope nowhere

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
					Bm	P	B	04	0.7		LS	TL		M	V	

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
0N	4	T	118		KRW	12	05	6475	33500	,	06	1	01	,	G	NW

to BM R to SX valley slope near

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
					C	P	HB	04	0.6		L	TL		M	V	

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
D1	1	T	119		i T.W	i2	05	6280	33475	~	06	1	01	,	G	NW

good till — valley slope — none

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
						CP	AD	04	0.6		i	TL	M	✓		

M NW

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	T	120		KRW	12	05	6360	33500	,	06	2	01	,	~~B~~	

creek to north — 2m up from creekbed ~~wett~~ — moist — none (- fill

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
					6	CP	AB	05	0.6		L	RTL				

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	T	121		KRW	12	05	6320	33450	,	06	1	01	,	G	N

good till — highland between two drainages — none

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
						CP	AB	05	0.6		L	TL	M	✓		

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	i	T	KRW (t 22)		KRN	07	05	62+00E	333+30		06	1	01	7	6	W

E(F)c sandstone clast > — high between creeks (above) — bedrock downslope (opia)

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
			BMP	·	B0	3	0.0		L R	T L	M	V		

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	R	123		KRW	13	05	64+75	335+75N		06	1	08		6	NW

Sandstone, ang. ofc deeply weathered fine sand — residual soil above % roadcut — underlies sample

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
R			PF	P	OB	OZ	0.8		L R					

roadcut — underlies sample

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	R	124	WD	KRW	13	05	64+85	335+85		06	1	08		6	NW

gravel — high percentage pebbles

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
R			BF	P	RB	03	0.9							

gravel on outcrop

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	R	125		KRW	13	05	64+95	335+95	,	06	1	08	,	M	NW

no C desclope — residual soil — roadcut — underlies

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
R			BF	P	RB	03	0 7	0						

weathered % of sandstone

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	T	131	TRAC	KRW	15	05	18670	18910	, (hilltop)	06	2	08	3 (100m)	F	SW

high percentage pebbles no cobbles or boulders

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
			BM	P	RB	04	0.8		R	C	B			

could be a washed till; or a weathered conglomerate (ie colluvium) material well sorted with various rock types.

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	T	132	TRAC	KRW	15	05			(creekwall)	06	1	C1	(within 100m)	A	[illegible]

washed till; very few clasts larger than 5cm hollow fill not bedded

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
			BF	F	P[illegible]	0[illegible]	2.1	✓		7B	W	[illegible]		

NO latite clasts

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1 2	3	4	5 6 7 8	9 10	11 12 13	14 15	16 17	18 19 20 21 22 23	24 25 26 27 28 29 30	31	32 33	34	35 36	37	38	39 40
PN	1	T	133		KRW	12	05	same location as 132								

similar to 132 except slightly more sand less silt & clay with 5-10% alluvium, clasts (cat. to clast)

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth												
41	42	43	44	45	46 47	48	49 50	51 52	53 54 55 56	57 58	59	60 61	62 63	64 65	66	67 68 69	70	71	72	73	74	75	76	77	78	79	80	
					P	P	RB	O9	1.2 M																			

RtR alluvium?

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1 2	3	4	5 6 7 8	9 10	11 12 13	14 15	16 17	18 19 20 21 22 23	24 25 26 27 28 29 30	31	32 33	34	35 36	37	38	39 40

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth											
41	42	43	44	45	46 47	48	49 50	51 52	53 54 55 56	57 58	59	60 61	62 63	64 65	66	67 68 69	70	71	72	73	74	75	76	77	78	79	80

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
1 2	3	4	5 6 7 8	9 10	11 12 13	14 15	16 17	18 19 20 21 22 23	24 25 26 27 28 29 30	31	32 33	34	35 36	37	38	39 40

Contam		Veg. Type	Veg. Part		Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth											
41	42	43	44	45	46 47	48	49 50	51 52	53 54 55 56	57 58	59	60 61	62 63	64 65	66	67 68 69	70	71	72	73	74	75	76	77	78	79	80

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
Fi	4	T	134		KRW	16	05	screwed			06	1	CL		M	VN

good till beneath colluvium & alluvium — slope along drainage — present upslope

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
			BF	P	RB	O5	1.6		LS	TL	M	R		

clayey matrix low % large clasts clasts of various composition
most of slope (upslope) colluvium with scattered % overlain by thin alluvial cover
relatively flat

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction
DN	4	T	137		KRW	16	05	8225	171CC		06	1	C/	3	F	

good till assortment of composition of clasts 5% - 15% [illegible] clasts

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth
			C	F	AB	O5	0.6		LS	TL	M	V		

small ridge between drainages

Project	Year	Sample Type	Sample Number	Grid	Sampler Initials	Day	Month	UTM East	UTM North	Topo	Environment	Drain	Overburden Origin	Bedrock	Slope ∠	Slope Direction

Contam	Veg. Type	Veg. Part	Soil Horizon	Soil Type	Color	Texture	Depth (m)	% Coarse	Shape	Material	Glacial Environment	Geomorph. Modifier	Ice Direction	Azimuth

CW

APPENDIX II

CERTIFICATE OF ANALYSES

MAIDEN CREEK
1993

REPORT

01-20-1994

C6 CHAPMAN CAMECO JAN.20/94 (23) [HEAVY MINERALS]
1 SAMPLE WEIGHT IN KG
2
3 % +1.7mm IN TOTAL SAMPLE
4 % -1.7mm IN TOTAL SAMPLE
5 +1.7mm WEIGHT IN KG
6 -1.7mm WEIGHT IN KG (TABLE FEED)
7 MATRIX %SAND ESTIMATE
8 MATRIX %SILT ESTIMATE
9 MATRIX %CLAY ESTIMATE

	S.WT	%+1.7	%-1.7	+1.7	-1.7	%SAND	%SILT	%CLAY
269 93-01	8.50	33	66	2.85	5.65	70	25	5
269 93-02	7.75	25	74	2.00	5.75	70	25	5
269 93-03	9.40	30	69	2.90	6.50	75	20	5
269 93-04	8.95	4	95	0.40	8.55	75	20	5
269 93-05	11.40	25	75	2.85	8.55	75	20	5
269 93-06	9.20	75	24	6.95	2.25	70	25	5
269 93-07	9.55	7	92	0.75	8.80	75	20	5
269 93-08	8.45	10	89	0.85	7.60	75	20	5
269 93-09	10.95	7	92	0.85	10.10	80	15	5
269 93-10	11.00	35	64	3.95	7.05	75	20	5
269 93-11	7.75	8	91	0.65	7.10	80	15	5
269 93-12	6.45	13	86	0.90	5.55	75	20	5
269 93-13	8.15	6	93	0.55	7.60	75	20	5
269 93-14	10.30	32	67	3.30	7.00	75	20	5
269 93-15	9.70	36	63	3.50	6.20	75	20	5
269 93-16	9.45	25	74	2.45	7.00	70	25	5
269 93-17	10.15	32	67	3.30	6.85	75	20	5
269 93-18	9.25	22	77	2.05	7.20	80	15	5
269 93-19	7.75	10	89	0.85	6.90	75	20	5
269 93-20	11.50	35	64	4.10	7.40	80	15	5
269 93-21	8.55	9	90	0.80	7.75	80	15	5
269 93-22	9.45	18	81	1.75	7.70	80	15	5
269 93-23	8.00	13	86	1.05	6.95	75	20	5

REPORT

C6 CHAPMAN CAMECO JAN.20/94 (23) [HEAVY MINERALS]
1 OVERBURDEN CLASSIFICATION TILL(T),GRAVEL(G),SAND(S),SILT(ST),CLAY(C)
2 HEAVY MINERALS NONMAGNETICS IN KG.
3 VISIBLE GOLD GRAIN COUNT
4
5
6
7
8
9

	CLASS	NMAG	VG
269 93-01	T	9.31	8
269 93-02	T	5.22	6
269 93-03	T	9.12	8
269 93-04	T	3.65	9
269 93-05	T	7.38	21
269 93-06	T	2.99	13
269 93-07	T	8.52	29
269 93-08	T	5.35	26
269 93-09	T/S	3.82	17
269 93-10	T	9.27	25
269 93-11	T	7.73	12
269 93-12	T	9.70	8
269 93-13	T	7.04	10
269 93-14	T	4.35	14
269 93-15	T	5.42	24
269 93-16	T	4.65	39
269 93-17	T	4.79	18
269 93-18	T	6.26	6
269 93-19	T	10.50	5
269 93-20	T	8.65	38
269 93-21	T	2.19	11
269 93-22	T/S	3.56	17
269 93-23	T	5.34	10

REPORT

21.98= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (8) 269 93-01
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	80	A
60	80	I
60	80	A
60	80	I
60	100	A
100	160	I
100	160	I
160	260	I

REPORT

1.02= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (6) 269 93-02
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
40	60	I
40	60	I
40	60	I
40	60	I
40	80	A

REPORT
======

21.39= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (8) 269 93-03
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	100	I/A
60	100	I
60	120	A
60	120	I
60	100	I
80	100	I/A
120	140	A/I
160	260	I/A

REPORT

31.33= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (9) 269 93-04
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	I
40	60	I
40	60	I
40	80	I
40	60	I
60	60	A
80	140	I
80	120	A/I
260	280	I

REPORT

46.71= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (21) 269 93-05
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
40	40	I/A
40	100	A/I
40	40	I
40	40	I
40	60	I
60	120	A
60	60	I/A
60	100	I
60	60	I
60	80	A/I
60	80	I/A
100	140	I
100	120	A/I
100	140	I/A
100	120	A
120	140	I
120	120	A/I
160	160	A/I
220	280	I/A

REPORT

14.53= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (13) 269 93-06
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	60	A
40	40	A
40	80	A
40	60	I
40	60	A
60	80	I
60	80	I/A
80	180	I
80	120	I/A
80	160	A
80	120	A/I
80	120	I
100	140	A

REPORT

16.26= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (29) 269 93-07
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	60	A
40	60	A
40	60	I
40	80	A
40	80	I
40	40	I
40	60	A
40	80	I
40	40	A
40	80	A
60	140	A
60	120	A
60	80	A
60	100	A
60	60	I
60	80	I
60	100	A/I
60	80	A
60	60	I
60	80	A/I
60	60	A/I
60	100	A/I
80	100	A/I
80	80	A/I
80	100	A/I
80	80	I/A
80	120	I/A
80	140	I/A

REPORT

90.61= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (26) 269 93-08
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
20	40	A
40	60	I
40	40	I
40	40	A
40	60	A
40	40	I
40	40	A
60	60	A
60	60	A
60	60	A
60	80	I
80	100	A/I
80	120	I
80	80	A
80	80	A
80	100	I
80	80	I
100	360	I/A
100	120	A
120	80	A/I
140	200	A/I
140	200	A/I
160	200	A
300	320	A/I

REPORT
======

15.72= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (17) 269 93-09
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
40	60	A
40	60	A
40	60	A
60	80	I
60	120	A
60	80	A
60	120	A
60	80	A/I
60	80	I
80	120	A/I
80	120	A
80	80	A
100	100	A/I
100	120	A/I
120	160	A/I

REPORT

21.75= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (25) 269 93-10
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
20	40	I
20	40	A
20	20	A
20	40	A
20	40	A
40	100	A
40	40	I
40	40	A
40	60	A
40	40	I
40	60	A
60	120	I
60	80	I
60	80	A
60	100	I
60	80	I
60	80	I/A
80	120	A/I
80	120	I
80	100	I
100	160	A
100	120	A
140	200	A

REPORT

22.15= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (12) 269 93-11
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
40	40	A
40	60	A
40	40	I
40	60	I
40	60	A
40	100	A
60	100	I
60	100	A
80	100	A
100	100	A/I
180	280	A/I

REPORT
======

4.78= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (8) 269 93-12

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	A
20	20	I
40	60	I
40	60	I
60	80	A
60	100	A
80	100	A
100	120	I

REPORT
======

6.47= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (10) 269 93-13
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
20	20	A
20	20	A
20	20	A
20	40	I
40	60	I
40	60	I
60	80	A
120	180	A

REPORT

46.56= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (14) 269 93-14
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
40	60	A
40	60	I
40	80	I
60	140	I
80	120	A
80	100	A/I
80	120	A/I
80	120	I
100	220	I/A
100	160	A
100	160	A/I
120	180	A/I
200	300	I

REPORT

59.01= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (24) 269 93-15
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	A
40	60	I
40	60	I
40	40	I
60	80	I
60	120	I/A
60	140	A
60	80	A/I
60	120	A
60	80	A
80	120	I
80	100	I
80	140	I
80	100	I
80	100	A
100	140	I/A
100	200	A
100	200	I
100	100	I/A
120	180	I/A
140	160	I/A
140	180	A
160	300	I

REPORT
======

129.47= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (39) 269 93-16

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
20	20	I
20	60	A
20	20	A
40	60	A
40	60	A
40	60	A
40	60	I
40	60	A
40	60	I
40	40	I
40	60	A/I
60	80	I
60	80	A
60	100	I
60	140	I
60	80	A/I
80	80	I
80	160	I
80	180	I
80	120	I
80	140	A
80	80	I
100	120	A/I
100	140	I
100	180	I
100	220	A/I
100	140	A
120	160	A/I
120	180	A/I
120	160	I
120	160	I
140	260	I
160	180	I
160	240	I
180	240	A/I
180	300	A/I
200	260	I

REPORT

18.52= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (18) 269 93-17
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	A
20	20	A
40	80	A
40	60	A
40	40	A
40	60	I
40	60	I
40	80	A
60	80	I
60	100	I
60	120	I
60	100	I
60	80	A
80	80	A/I
80	120	A
100	140	A
120	160	A/I
140	160	I

REPORT
======

2.13= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (6) 269 93-18
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	W	D
20	20	A
20	60	I
40	40	I
60	60	I
60	80	I
80	100	A

REPORT
======

16.34= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (5) 269 93-19
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
60	120	I
80	100	A
120	140	I
120	120	I
160	200	I

REPORT
======

256.42= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (38) 269 93-20
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	60	A
40	60	I
60	120	A
60	80	I
60	80	I
80	80	A
80	120	I
80	80	A
80	160	I/A
80	120	A/I
80	100	I
80	140	I
80	100	A
80	160	I
80	120	A
80	140	A/I
100	100	I
100	140	A
100	120	A/I
100	120	A
100	160	A/I
100	180	A/I
100	120	A
120	240	I/A
120	180	A
120	160	I/A
120	160	A/I
120	200	I/A
120	240	I/A
140	160	I/A
140	280	A
140	220	A/I
140	200	A/I
140	320	A/I
160	240	I
160	200	A
240	300	I
320	500	I/A

REPORT
======

58.75= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (11) 269 93-21
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	60	I
20	40	A
40	60	I
40	60	A
40	80	A
40	60	I
80	80	I
120	160	A
180	200	A/I
200	320	A/I
220	260	A/I

REPORT

71.91= ESTIMATED WEIGHT OF Au IN MICROGRAMS

6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (17) 269 93-22

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	60	I
40	100	I
40	60	A
40	60	A
40	60	I
60	180	A
60	60	I
60	100	A/I
80	100	A/I
80	120	A/I
80	100	I
100	160	I/A
100	140	I/A
140	220	I
160	240	A
160	200	A
220	340	I

REPORT
======

65.4= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C6 CHAPMAN CAMECO JAN. 20/94 (23) [GOLD GRAIN COUNT] (10) 269 93-23
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	60	I
40	60	I
40	60	I
40	60	I
60	60	A
120	160	A/I
140	200	I
180	260	I/D
180	300	I
180	300	A

MAIDEN CREEK
1993

REPORT

01-20-1994

C7 CHAPMAN CAMECO JAN. 20/94 (4) [HEAVY MINERALS]
1 SAMPLE WEIGHT IN KG
2
3 % +1.7mm IN TOTAL SAMPLE
4 % -1.7mm IN TOTAL SAMPLE
5 +1.7mm WEIGHT IN KG
6 -1.7mm WEIGHT IN KG (TABLE FEED)
7 MATRIX %SAND ESTIMATE
8 MATRIX %SILT ESTIMATE
9 MATRIX %CLAY ESTIMATE

	S.WT	%+1.7	%-1.7	+1.7	-1.7	%SAND	%SILT	%CLAY
269 HM-1	16.20	12	87	1.95	14.25	70	25	5
269 HM-2	10.15		99	0.05	10.10	90	5	5
269 HM-3	7.30		99	0.05	7.25	90	5	5
269 HM-4	11.80	1	98	0.15	11.65	90	5	5

REPORT

C7 CHAPMAN CAMECO JAN. 20/94 (4) [HEAVY MINERALS]

1 OVERBURDEN CLASSIFICATION TILL(T),GRAVEL(G),SAND(S),SILT(ST),CLAY(C)
2 HEAVY MINERALS NONMAGNETICS IN KG.
3 VISIBLE GOLD GRAIN COUNT
4
5
6
7
8
9

	CLASS	NMAG	VG
269 HM-1	T	10.35	9
269 HM-2	S	7.94	33
269 HM-3	S	12.56	11
269 HM-4	S	11.65	60

REPORT

36.7= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C7 CHAPMAN CAMECO JAN. 20/94 (4) [GOLD GRAIN COUNT] (9) 269 HM-1
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	20	A
40	80	I
60	80	I
80	100	A/I
80	100	A
120	180	A
120	380	A/I
140	200	A

REPORT

314.28= ESTIMATED WEIGHT OF Au IN MICROGRAMS

7 CHAPMAN CAMECO JAN. 20/94 (4) [GOLD GRAIN COUNT] (33) 269 HM-2
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	60	A
40	80	A/I
40	120	I
60	60	I
60	80	A
60	60	A
60	160	I
60	60	A
60	120	I
60	60	A
60	80	A/I
80	100	A
80	100	A
80	120	A
80	120	A/I
80	120	A
80	120	A/I
80	140	A
80	120	A
100	120	A
100	140	A/I
100	240	A/I
100	200	A/I
120	160	A/I
120	140	A
140	140	A
140	200	A/I
180	220	I
200	300	A/I
240	320	I/A
260	300	I/A
260	500	I
340	520	A/I

REPORT
======

13.36= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C7 CHAPMAN CAMECO JAN. 20/94 (4) [GOLD GRAIN COUNT] (11) 269 HM-3
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	A
20	40	I
20	40	I
40	100	A
60	120	A/I
60	80	A/I
60	120	A
80	100	A
80	120	A
100	140	A/I
140	160	A

REPORT
======

195.02= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C7 CHAPMAN CAMECO JAN. 20/94 (4) [GOLD GRAIN COUNT] (60) 269 HM-4
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D	W	L	D
20	40	A	80	140	A
20	40	I	80	160	I
20	40	A	100	120	A
20	60	I	120	140	I/D
20	20	A	120	180	I
40	120	I	120	200	I/A
40	100	I	120	140	I
40	40	I	120	180	A
40	60	A	120	140	I
40	80	I	120	120	I
40	100	A	140	160	A/I
40	60	I	140	200	I
40	100	I	140	220	A/I
40	60	I	160	180	A/I
40	40	I	180	220	I/A
40	60	A	180	200	A
40	60	A	180	240	A
40	40	A	200	320	A/I
40	80	A	200	320	I
40	40	I	240	240	A
60	80	I			
60	160	A			
60	80	I			
60	140	I			
60	120	A			
60	80	I/A			
60	100	A/I			
60	100	I			
60	80	A			
60	80	A			
60	120	I			
80	180	A			
80	100	A			
80	120	I/A			
80	120	A/I			
80	200	I			
80	120	A			
80	160	A			
80	100	A			
80	100	A/I			

MAIDEN CREEK
1993

REPORT

01-20-1994

8 CHAPMAN CAMECO JAN. 20/94 (8) [HEAVY MINERALS]
1 SAMPLE WEIGHT IN KG
2
3 % +1.7mm IN TOTAL SAMPLE
4 % -1.7mm IN TOTAL SAMPLE
5 +1.7mm WEIGHT IN KG
6 -1.7mm WEIGHT IN KG (TABLE FEED)
7 MATRIX %SAND ESTIMATE
8 MATRIX %SILT ESTIMATE
9 MATRIX %CLAY ESTIMATE

	S.WT	%+1.7	%-1.7	+1.7	-1.7	%SAND	%SILT	%CLAY
269 93C-01	9.75	2	97	0.25	9.50			
269 93C-02	6.50	30	70	1.95	4.55			
269 93C-03	9.85	6	93	00.60	9.25			
269 93C-04	13.60	27	72	3.70	9.90			
269 93C-05	9.70	9	90	0.90	8.80			
269 93C-06	8.05	31	68	2.50	5.55			
269 93C-07	8.50	22	77	1.95	6.55			
269 93C-08	11.20	28	71	3.20	8.00			

REPORT

* = ROCK CHIPS

C8 CHAPMAN CAMECO JAN. 20/94 (8) [HEAVY MINERALS]
1 OVERBURDEN CLASSIFICATION TILL(T),GRAVEL(G),SAND(S),SILT(ST),CLAY(C)
2 HEAVY MINERALS NONMAGNETICS IN KG.
3 VISIBLE GOLD GRAIN COUNT
4
5
6
7
8
9

	CLASS	NMAG	V.G.
269 93C-01	*	5.83	12
269 93C-02	*	2.50	14
269 93C-03	*	1.71	3
269 93C-04	*	2.86	10
269 93C-05	*	2.54	6
269 93C-06	*	6.59	1
269 93C-07	*	4.83	7
269 93C-08	*	6.81	3

REPORT

36.83= ESTIMATED WEIGHT OF Au IN MICROGRAMS

8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (12) 269 93C-01
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	A
20	20	A
20	100	I/A
40	60	A
40	60	A
40	60	A
40	40	A
60	80	I
80	140	A/I
100	160	A/I
160	160	I
180	340	I/A

REPORT

17.36= ESTIMATED WEIGHT OF Au IN MICROGRAMS

8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (14) 269 93C-02
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	60	A
40	60	A
60	100	A
60	60	I
60	100	I
60	80	I
80	80	A
80	120	A/I
80	80	A/I
80	100	A/I
100	120	I
100	100	A/I
100	140	A
120	180	I/A

REPORT

2.52= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (3) 269 93C-03
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	40	I
60	80	A
100	120	A

REPORT
======

11.73= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (10) 269 93C-04
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	60	I
60	120	A/I
60	80	A
60	60	I/A
80	100	A
80	120	A
80	100	A
80	80	A
80	120	I/A
120	160	A/I

REPORT

3.18= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (6) 269 93C-05
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	A
20	40	I
60	140	I
60	100	I
80	80	I

REPORT
======

.46= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (1) 269 93C-06
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
60	80	A

REPORT
======

11.39= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (7) 269 93C-07
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	I
20	40	I
40	60	A
60	60	I/A
80	120	A
120	140	I
140	180	A/I

REPORT

.36= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C8 CHAPMAN CAMECO JAN. 20/94 (8) [GOLD GRAIN COUNT] (3) 269 93C-08

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
40	60	A

→ MAIDEN CREEK.

ACTLABS

ACTIVATION LABORATORIES LTD

Invoice No.: 6048
Work Order: 6122
Invoice Date: 08-FEB-94
Date Submitted: 26-JAN-94
Your Reference: LETTER
Account Number: C085

CAMECO
P.O. BOX 6446
RENO, NEVADA
USA
89513
ATTENTION: MR. ROB CHAPMAN

CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

AU	5.	PPB	AG	5.	PPM	AS	2.	PPM	BA	200.	PPM
BR	5.	PPM	CA	1.	%	CO	5.	PPM	CR	10.	PPM
CS	2.	PPM	FE	0.02	%	HF	1.	PPM	HG	5.	PPM
IR	40.	PPB	MO	20.	PPM	NA	500.	PPM	NI	200.	PPM
RB	50.	PPM	SB	0.2	PPM	SC	0.1	PPM	SE	20.	PPM
SR	0.2	%	TA	1.	PPM	TH	0.5	PPM	U	0.5	PPM
W	4.	PPM	ZN	200.	PPM	LA	1.	PPM	CE	3.	PPM
ND	10.	PPM	SM	0.1	PPM	EU	0.2	PPM	TB	2.	PPM
YB	0.2	PPM	LU	0.1	PPM						

CERTIFIED BY :

DR. ERIC L. HOFFMAN

Activation Laboratories Ltd. Work Order: 6122 Report: 6048

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR %	TA PPM	TH PPM	U PPM
269-93-01	281	<5	8	550	<5	<1	11	930	<2	4.66	29	<5	<40	<20	8420	<200	<50	1.4	7.9	<20	<0.2	<1	6.2	2.2
269-93-02	280	<5	12	740	<5	<1	20	3200	<2	10.7	85	<5	<40	<20	10300	<200	<50	2.5	15	<20	<0.2	<1	14	6.1
269-93-03	585	<5	11	530	<5	2	15	2000	<2	7.04	55	<5	<40	<20	10300	<200	<50	2.0	14	<20	<0.2	<1	9.9	4.3
269-93-04	2230	9	23	690	<5	4	41	5900	<2	21.3	150	<5	<40	<20	7590	<200	<50	4.8	25	<20	<0.2	5	23	9.2
269-93-05	905	<5	19	500	<5	<1	31	2600	<2	21.5	130	<5	<40	<20	5760	<200	<50	3.7	16	<20	<0.2	1	21	9.2
269-93-06	4450	<5	28	430	<5	5	63	15000	<2	28.7	370	<5	<40	<20	2970	<200	<50	5.4	30	<20	<0.2	<1	64	25
269-93-07	300	<5	6	480	<5	2	16	1300	2	8.93	44	<5	<40	<20	8720	<200	<50	1.8	13	<20	<0.2	1	9.8	3.9
269-93-08	1160	<5	21	450	<5	<2	43	3300	<2	37.6	180	<5	<40	<20	3210	<200	<50	5.7	18	<20	<0.2	<1	25	11
269-93-09	3330	<5	28	550	<5	<2	47	7100	<2	32.2	240	<5	<40	<20	5300	<200	<50	6.8	25	<20	<0.2	3	32	15
269-93-10	625	<5	21	490	<5	<1	19	4900	<2	8.18	150	<5	<40	<20	3050	<200	<50	2.5	11	<20	<0.2	2	15	8.6
269-93-11	550	<5	4	800	<5	<1	7	750	<2	5.97	24	<5	<40	<20	13300	<200	62	1.3	9.1	<20	<0.2	7	7.5	3.1
269-93-12	32	<5	7	460	<5	3	12	670	<2	6.09	29	<5	<40	<20	9200	<200	<50	1.7	15	<20	<0.2	<1	8.5	3.5
269-93-13	882	<5	14	250	<5	4	43	3500	<2	30.9	140	<5	<40	<20	5320	<200	<50	4.7	25	<20	<0.2	2	25	8.9
269-93-14	1460	<5	18	570	<5	<2	49	4000	<2	35.2	220	<5	<40	<20	3410	<200	<50	4.1	26	<20	<0.2	4	41	16
269-93-15	3220	<5	19	510	<5	<2	48	3700	<2	42.3	140	<5	<40	<20	3340	240	<50	5.2	17	<20	<0.2	2	16	8.4
269-93-16	7370	<5	23	350	<5	6	63	11000	<2	27.1	390	<5	<40	<20	5320	<200	<50	4.3	39	<20	<0.2	7	52	21
269-93-17	574	<5	17	<200	<5	6	51	7100	<2	19.2	160	<5	<40	<20	7150	<200	<50	3.2	42	<20	<0.2	4	31	11
269-93-18	185	<5	4	<200	<5	9	42	1300	<2	11.8	68	<5	<40	<20	8280	<200	<50	0.8	55	<20	<0.2	4	22	6.8
269-93-19	103	<5	8	340	<5	3	33	3000	<2	10.7	56	<5	<40	<20	8690	<200	<50	1.6	27	<20	<0.2	3	11	3.8
269-93-20	499	<5	21	430	<5	<1	33	3900	<2	20.1	130	<5	<40	<20	6750	<200	<50	3.5	16	<20	<0.2	<1	20	8.4
269-93-21	2520	<5	32	<200	<5	<2	65	10000	<2	27.7	250	<5	<40	<20	7810	400	<50	6.2	33	<20	<0.2	3	41	18
269-93-22	2580	7	20	940	<5	<2	68	11000	<2	28.5	300	<5	<40	<20	4590	<200	<50	4.5	37	<20	<0.2	3	27	16
269-93-23	1850	<5	20	560	<5	<1	48	4500	4	21.7	190	<5	<40	<20	7630	320	<50	3.8	28	<20	<0.2	2	33	14
269-93C-01	196	<5	120	760	<5	3	23	3100	<2	7.84	50	<5	<40	<20	10900	<200	71	2.8	15	<20	<0.2	1	14	5.6
269-93C-02	26400	<5	2800	880	<5	<2	120	41000	<2	17.5	600	<5	<40	<20	567	570	<50	<0.5	30	<20	<0.2	4	44	23
269-93C-03	501	<5	160	<200	<5	<2	45	6900	<2	21.5	170	<5	<40	<20	6180	<200	<50	4.4	24	<20	<0.2	<1	27	13
269-93C-04	23300	<5	800	44000	<5	<2	77	6400	<2	35.3	370	<5	<40	<20	1210	<200	<50	11	23	<20	<0.2	3	44	23
269-93C-05	370	<5	300	2100	<5	6	77	13000	<2	36.7	680	<5	<40	<20	2020	<200	<50	11	40	<20	<0.2	11	85	38
269-93C-06	8	<5	110	700	<5	<1	19	3400	<2	5.81	60	<5	<40	<20	8130	<200	<50	3.0	11	<20	<0.2	<1	8.2	3.9
269-93C-07	5450	<5	110	960	<5	<1	29	7500	<2	8.82	190	<5	<40	<20	8430	<200	72	4.1	15	<20	<0.2	2	27	11
269-93C-08	670	<5	34	960	<5	3	32	950	<2	25.3	49	<5	<40	<20	4520	<200	<50	4.1	13	<20	<0.2	<1	11	5.4
269-HM-1	1700	5	30	1000	<5	5	63	12000	3	33.7	290	<5	<40	<20	13700	<200	81	7.5	34	<20	<0.2	4	36	18
269-HM-02	4510	<5	6	810	<5	<1	17	1500	<2	11.0	80	<5	<40	<20	12100	<200	66	2.0	11	<20	<0.2	<1	11	5.9
269-HM-03	1540	<5	3	820	<5	<1	9	350	2	4.35	24	<5	<40	<20	14900	<200	62	0.6	6.3	<20	<0.2	<1	7.7	3.8
269-HM-04	2640	<5	3	660	<5	6	55	4100	<2	26.5	390	<5	<40	<20	7250	250	<50	1.6	54	<20	<0.2	6	75	26

[redacted]ME [redacted]LYT[redacted] LA[redacted]TOR[redacted]LTD[redacted]E. [redacted]ING[redacted]. V[redacted]UVE[redacted].C. [redacted]A 1[redacted]E(6[redacted]253-[redacted]B [redacted]604[redacted]-17[redacted]

GEOCHEMICAL ANALYSIS CERTIFICATE

Cameco U.S. Inc. File # 94-0291

P.O. Box 6446, Reno NV U.S.A. 89523

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
269-93-01	2	30	7	65	<.1	44	10	242	3.52	12	<5	<2	3	63	1.0	2	5	62	.45	.035	9	76	.68	247	.06	<2	2.04	.02	.12	2	8
269-93-02	<1	51	6	72	.2	60	12	353	4.79	15	<5	<2	4	112	.7	<2	<2	71	.75	.036	13	98	.80	321	.03	2	2.35	.03	.16	1	13
269-93-03	1	35	10	108	.2	53	13	256	4.80	10	<5	<2	4	62	.8	<2	2	81	.66	.047	11	90	.65	229	.06	3	2.98	.03	.20	<1	2
269-93-04	1	48	6	75	.3	67	15	517	4.08	9	<5	<2	4	98	.8	<2	<2	63	1.46	.033	11	87	.90	286	.06	4	1.91	.03	.12	<1	8
269-93-05	1	64	8	90	.3	52	13	560	5.96	14	<5	<2	3	82	.6	<2	<2	80	.77	.060	12	90	.92	286	.01	3	3.37	.03	.18	<1	5
269-93-06	<1	52	5	76	.1	60	12	436	4.45	6	<5	<2	4	109	.7	<2	2	69	.74	.038	13	87	.78	277	.06	4	2.39	.02	.19	<1	6
269-93-07	<1	23	5	63	.1	24	5	266	2.16	2	<5	<2	3	56	.3	<2	2	28	.50	.015	8	36	.31	133	.06	2	1.48	.04	.15	<1	2
269-93-08	<1	25	5	61	<.1	35	8	236	3.12	5	<5	<2	3	55	.2	<2	2	56	.45	.039	8	54	.52	213	.10	<2	1.65	.02	.12	<1	230
269-93-09	<1	13	3	34	<.1	18	3	133	1.71	5	<5	<2	2	46	<.2	<2	3	32	.18	.006	5	28	.21	107	.06	<2	.88	.02	.06	1	3
269-93-10	1	25	3	63	.3	38	7	175	3.43	7	<5	<2	2	27	.3	<2	<2	61	.10	.030	6	50	.10	70	.03	4	.55	.01	.04	<1	6
269-93-11	<1	3	<2	37	.1	4	1	103	.64	<2	<5	<2	3	70	<.2	<2	<2	5	.16	.005	6	8	.13	71	.02	<2	.72	.02	.07	1	2
269-93-12	1	11	9	79	.1	23	4	326	1.89	<2	<5	<2	2	31	<.2	<2	4	32	.28	.013	6	34	.33	172	.15	2	1.84	.03	.08	1	2
269-93-13	<1	20	4	61	.1	26	7	272	2.55	<2	<5	<2	3	32	.3	<2	4	46	.38	.020	9	47	.40	119	.18	5	1.37	.03	.20	<1	3
269-93-14	<1	37	6	72	<.1	65	12	336	4.17	8	<5	<2	4	52	.4	<2	3	66	.63	.058	14	92	.85	206	.18	5	2.54	.03	.23	1	3
269-93-15	1	29	7	59	.1	52	10	250	3.33	6	<5	<2	3	43	.3	<2	3	61	.63	.033	11	76	.64	159	.12	3	2.04	.02	.18	1	180
269-93-16	<1	36	7	67	.2	70	13	425	4.29	4	<5	<2	4	68	.3	<2	3	68	.47	.057	15	99	1.05	165	.14	6	2.34	.04	.24	<1	320
269-93-17	<1	38	5	70	<.1	82	13	314	4.42	<2	<5	<2	3	49	.3	<2	5	58	.65	.056	12	99	1.28	141	.25	3	2.29	.04	.15	1	72
269-93-18	<1	26	4	58	<.1	53	13	398	4.49	2	<5	<2	3	60	.3	<2	7	54	.61	.048	10	65	1.25	66	.32	4	2.10	.06	.15	<1	6
269-93-19	1	38	5	67	<.1	68	12	381	4.04	<2	<5	<2	3	60	.3	<2	6	60	.55	.062	12	86	1.01	153	.23	4	2.22	.03	.16	1	49
269-93-20	<1	32	6	61	.2	55	11	394	4.50	12	<5	<2	3	69	.3	<2	2	79	.59	.059	12	105	.68	181	.11	6	1.92	.03	.14	1	190
RE 269-93-09	1	12	6	35	.3	17	4	136	1.69	3	<5	<2	3	45	<.2	2	2	32	.16	.007	5	25	.22	104	.06	5	.89	.01	.05	1	5
269-93-21	2	54	6	83	.3	55	14	597	5.13	18	<5	<2	4	284	.4	<2	<2	84	.88	.048	14	119	1.01	570	.06	10	3.08	.03	.36	<1	5
269-93-22	<1	36	8	51	.3	76	18	709	3.85	10	<5	<2	3	261	.5	<2	<2	61	5.04	.058	11	88	1.65	268	.09	6	1.43	.03	.08	<1	5
269-93-23	1	39	8	77	.1	48	11	454	4.64	9	<5	<2	4	225	.4	<2	2	83	.62	.057	10	106	.85	444	.19	5	3.04	.03	.14	1	5
269-HM-01	<1	29	9	69	.2	52	12	732	3.24	6	<5	<2	3	83	.4	<2	2	57	.70	.031	9	69	.55	235	.06	6	1.52	.02	.14	<1	3
269-HM-02	<1	13	10	49	.1	24	6	320	2.90	3	<5	<2	4	46	.2	<2	<2	68	.46	.018	8	62	.26	88	.08	4	.84	.03	.06	<1	2
269-HM-03	1	14	12	45	<.1	21	5	1129	1.61	2	<5	<2	5	56	<.2	<2	<2	31	.31	.015	12	31	.24	135	.05	2	1.33	.03	.09	1	2
269-HM-04	<1	18	6	52	<.1	36	10	384	3.27	2	<5	<2	3	116	.3	<2	4	63	1.76	.043	10	77	.89	139	.20	5	1.34	.05	.12	<1	8
269-936-01	1	36	11	79	.1	75	22	1078	4.16	6	<5	<2	3	56	.5	<2	<2	76	.87	.058	9	108	.99	192	.08	5	2.16	.02	.09	<1	56
269-936-02	3	33	14	116	.2	96	24	983	7.49	31	<5	<2	5	72	.6	<2	<2	98	.16	.053	7	126	.10	150	.01	11	.52	.01	.09	<1	280
269-936-03	1	26	6	53	.2	69	17	997	3.52	6	<5	<2	3	69	.4	<2	<2	52	4.30	.045	11	89	1.17	275	.05	5	1.83	.01	.12	1	3
269-936-04	4	46	7	73	.5	56	21	1122	6.20	43	<5	<2	5	319	.7	<2	<2	61	3.27	.052	13	62	1.31	192	.01	12	1.80	.04	.10	<1	4
269-936-05	8	32	7	84	.1	62	20	710	5.68	40	<5	<2	4	26	.5	<2	<2	81	.55	.054	10	102	.74	228	.03	7	1.94	.01	.09	1	3
269-936-06	4	34	7	59	.2	65	16	746	4.45	18	<5	<2	2	56	.5	<2	<2	49	1.36	.045	5	79	.92	266	<.01	6	1.82	.02	.09	1	2
269-936-07	2	29	8	69	.2	44	16	440	5.04	31	<5	<2	4	53	.4	<2	<2	88	.78	.038	5	112	.79	173	.01	7	1.63	.03	.06	<1	3
269-936-08	3	36	3	40	<.1	36	12	1584	2.99	6	<5	<2	3	57	.8	<2	<2	47	6.35	.055	10	50	.81	265	.06	2	1.48	.02	.10	1	4
STANDARD C/AU-S	16	59	39	116	7.0	64	29	1065	3.96	42	16	7	37	56	17.5	14	18	51	.51	.077	38	64	.89	195	.09	34	1.88	.06	.14	9	54

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: PULP AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JAN 24 1994 **DATE REPORT MAILED:** Feb 1/94 **SIGNED BY** .... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

REPORT

C223 SOPUCK CAMECO OCT. 5/93 (5) [HEAVY MINERALS]

1 SAMPLE WEIGHT IN KG
2
3 % +1.7mm IN TOTAL SAMPLE
4 % -1.7mm IN TOTAL SAMPLE
5 +1.7mm WEIGHT IN KG
6 -1.7mm WEIGHT IN KG (TABLE FEED)
7 MATRIX %SAND ESTIMATE
8 MATRIX %SILT ESTIMATE
9 MATRIX %CLAY ESTIMATE

	S.WT	%+1.7	%-1.7	+1.7	-1.7	%SAND	%SILT	%CLAY
MCT 001	9.10	17	82	1.55	7.55	75	20	5
MCT 002	9.40	34	65	3.20	6.20	75	20	5
MCT 003	7.25	48	51	3.50	3.75	75	20	5
BUT 01	8.55	47	52	4.10	4.45	80	15	5
MC 04	9.95		99	0.01	9.94	75	20	5

REPORT

C223 SOPUCK CAMECO OCT. 5/93 (5) [HEAVY MINERALS]
1 OVERBURDEN CLASSIFICATION TILL(T),GRAVEL(G),SAND(S),SILT(ST),CLAY(C)
2 HEAVY MINERALS NONMAGNETICS IN KG.
3 VISIBLE GOLD GRAIN COUNT
4
5
6
7
8
9

	CLASS	NMAG	V.G.
MCT 001	T	0.60	27
MCT 002	T	0.65	10
MCT 003	T	0.90	9
BUT 01	T	0.75	51
MC 04	T	0.40	2

REPORT
======

11.23= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C223 SOPUCK CAMECO OCT. 5/93 (5) [GOLD GRAIN COUNT] (27) MCT 001

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	20	I
20	60	A
20	40	I
20	20	I
20	40	I
20	40	I
20	40	I
20	20	I
20	20	I
20	20	A
40	40	A
40	60	I
40	40	I
40	40	A
40	40	I
40	40	A
40	60	I/A
40	40	A
40	40	I
60	120	A
60	80	I
80	160	I/A
80	120	I/A
80	80	I
80	80	I/A
80	140	I/A

REPORT
======

5.16= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C223 SOPUCK CAMECO OCT. 5/93 (5) [GOLD GRAIN COUNT] (10) MCT 002
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	A
40	40	A
40	80	I
40	60	I
40	120	I
40	60	I
40	80	A
60	100	I
120	120	I/D

REPORT
======

9.13= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C223 SOPUCK CAMECO OCT. 5/93 (5) [GOLD GRAIN COUNT] (9) MCT 003
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	I
20	20	I
20	20	I
40	80	I
60	160	I
60	100	A/I
80	100	I
80	120	I
120	140	I/A

REPORT

69.55= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C223 SOPUCK CAMECO OCT. 5/93 (5) [GOLD GRAIN COUNT] (51) BUT 01

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D	W	L	D
20	80	I	80	100	I
20	40	I	80	80	I
20	60	I	80	80	I/A
20	40	I	80	120	I
20	40	I	80	120	I
20	80	I	100	120	A/I
20	20	A	100	160	I
20	40	I	100	180	I
20	40	I	100	160	I/D
20	40	A	160	340	D
20	40	I	200	280	A/I
40	40	I			
40	60	I			
40	60	I			
40	60	I			
40	40	I			
40	40	I			
40	40	I			
40	40	I			
40	60	I			
40	60	A			
40	40	A			
40	40	I			
40	60	I			
40	60	A/I			
40	60	I			
40	40	A			
40	60	I			
40	60	A			
40	60	A			
60	80	I/A			
60	80	I			
60	80	I			
60	60	I			
60	100	I			
60	80	A			
60	100	I			
60	100	I			
80	120	I			
80	120	I/A			

REPORT
======

3.53= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C223 SOPUCK CAMECO OCT. 5/93 (5) [GOLD GRAIN COUNT] (2) MC 04
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	80	I
120	140	I

← due to crushing size bits

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(60[redacted])253-[redacted] FAX(604)[redacted]-171[redacted]

GEOCHEMICAL ANALYSIS CERTIFICATE

Cameco Corporation File # 93-2719

2121 - 11th St. West, Saskatoon SK S7M 1J3 Submitted by: Bernard J. Gartner

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BUT 01	1	14	6	97	.2	15	8	742	2.98	4	<5	<2	2	30	.5	2	<2	50	.35	.082	12	24	.55	74	.09	4	1.81	.02	.08	1	71
MCT 001	<1	37	8	103	.4	46	11	646	3.32	5	<5	<2	3	79	.5	<2	<2	52	.57	.028	12	65	.58	323	.09	7	2.07	.02	.20	<1	5
MCT 002	<1	53	5	75	.6	74	15	474	3.72	12	<5	<2	2	129	.5	<2	<2	58	4.68	.051	11	80	.81	331	.06	3	1.76	.02	.12	<1	6
MCT 003	1	56	10	95	.2	62	19	657	4.17	7	<5	<2	3	126	.7	<2	<2	66	2.12	.050	14	77	1.13	308	.05	4	2.07	.02	.14	<1	8
RE MCT 003	1	53	6	92	.2	62	19	651	4.08	10	<5	<2	3	123	.6	<2	<2	65	2.07	.048	14	76	1.12	299	.05	4	2.03	.02	.13	<1	4

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: PULP AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 30 1993 **DATE REPORT MAILED:** Oct 7/93 **SIGNED BY**..........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SASKATCHEWAN RESEARCH COUNCIL GEOCHEMICAL LAB

-106µm

C73 CHAPMAN CAMECO JUNE 8/94 (20) [FIRE ASSAY]
1 AU ppb FIRE ASSAY AA
2
3
4
5
6
7
8
9

	Auppb
MDN4T 100	24.
MDN4T 101	16.
MDN4T 102	9.
MDN4T 103	8.
MDN4T 104	12.
MDN4T 113	7.
MDN4T 114	3.
MDN4T 115	5.
MDN4T 116	30.
MDN4T 117	11.
MDN4T 118	9.
MDN4T 119	5.
MDN4T 120	6.
MDN4T 121	11.
MDN4T 122	66.
MDN4T 131	17.
MDN4T 132	77.
MDN4T 133	10.
MDN4T 134	6.
MDN4T 137	9.

REPORT
======

63.15= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (24) [GOLD GRAIN COUNT](24)MDN4T 100
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I/D
40	60	A
40	140	I
40	60	A
40	80	I
40	40	A
40	60	I
40	60	I
60	100	A
60	80	A
60	60	I
60	100	A
60	120	A
80	220	I
80	120	I
80	80	A
80	100	A
80	120	A
80	160	A
80	140	A/I
100	140	A/I
120	120	I
200	300	I
200	260	A

REPORT

35.74= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (9) [GOLD GRAIN COUNT](9)MDN4T 101

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
40	100	A/I
60	60	A
60	80	A
60	80	A
80	120	A
100	180	A
140	140	A/I
160	240	A
200	220	A/I

REPORT
======

276.37= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (40) [GOLD GRAIN COUNT](51)MDN4T 102
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D	W	L	D
20	60	I	140	180	A/I
20	20	A	140	140	A
40	40	A	140	240	I
40	60	I	140	160	I
60	60	A	140	160	A
60	60	A	140	140	I
60	80	A	200	260	A/I
60	140	I/D	200	200	A
60	180	A	220	220	A/I
60	60	A	240	300	A
60	100	A	240	440	A
60	60	I			
80	80	I			
80	100	A			
80	80	A			
80	120	I			
80	100	A			
80	80	A			
80	140	A			
100	220	A			
100	220	I			
100	200	I			
100	120	A			
100	140	A			
100	120	A			
100	120	I			
100	140	I			
100	140	A			
120	260	I			
120	160	A			
120	180	A			
120	180	I/D			
120	300	A			
120	160	A			
120	120	I			
120	120	I			
120	180	A			
140	180	I			
140	180	A			
140	280	A			

REPORT

.95= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (5) [GOLD GRAIN COUNT](5)MDN4T 103

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	A
20	60	A
40	80	I
40	60	I
40	80	I

REPORT

19.43= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (16) [GOLD GRAIN COUNT](16)MDN4T 104

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	A
40	80	A
40	80	A
40	40	A
40	40	I
40	60	A
40	60	I
40	80	A
40	120	I
40	60	A
40	140	I
60	60	A
80	100	I
80	220	I
120	220	I
120	120	A

REPORT
======

.1= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (1) [GOLD GRAIN COUNT](1)MDN4T 113

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	60	I

REPORT
======

15.12= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (3) [GOLD GRAIN COUNT](3)MDN4T 114
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
60	80	A
120	140	A
200	200	A

REPORT

18.8= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (19) [GOLD GRAIN COUNT](19)MDN4T 115

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	100	I
20	40	I
40	180	I
40	60	A
40	60	A
40	60	A
40	40	A
60	80	A
60	140	I
60	140	I
60	60	I
60	120	A
80	80	A
80	160	I/D
80	60	A/I
80	120	A
80	140	I
100	100	A
120	120	A

REPORT
======

34.91= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (18) [GOLD GRAIN COUNT](18)MDN4T 116
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	A
20	40	A
40	80	I
40	40	A
40	40	A
40	80	A
40	60	I
40	60	I
40	40	I/D
60	60	I
60	60	A/I
60	80	A
60	60	A
60	60	A
80	120	I
80	120	A/I
140	160	A
200	320	A

REPORT
======

5.65= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (20) [GOLD GRAIN COUNT](20)MDN4T 117

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	I
20	40	A
20	20	A
20	20	A
20	40	I
20	40	I
40	80	I
40	100	A/I
40	100	A
40	60	A/I
40	60	A/I
40	40	A
40	60	A
40	60	A
60	60	I
60	80	A
60	120	I
60	80	A
60	80	A
60	60	I

REPORT
======

22.82= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (23) [GOLD GRAIN COUNT](23)MDN4T 118
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	A
20	40	I
40	60	A
40	60	A
40	40	A
40	100	I/D
40	40	A
40	60	I
40	40	A
40	100	I
40	40	A
60	80	I
60	100	A
80	160	A
80	80	A
80	100	I
80	100	A
80	100	A
100	180	I/D
100	140	A/I
100	100	A
100	140	I
100	140	A

REPORT

34.44= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (27) [GOLD GRAIN COUNT](27)MDN4T 119

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	60	I/D
20	40	I
20	40	I/D
20	40	I
20	40	I/D
40	60	I
40	80	I
40	60	I
40	60	I/D
40	60	I
40	60	I
40	120	I
60	60	A
60	60	A
60	60	A
80	100	A
80	80	A
80	220	A
80	100	A
80	160	I
80	220	I/D
80	80	A
80	100	A
80	100	A/I
100	160	A
120	180	I/D
140	160	A

REPORT
======

30.17= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (31) [GOLD GRAIN COUNT](31)MDN4T 120
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
20	100	I/D
20	60	I
20	40	I
20	20	I
20	40	I/D
40	60	A
40	60	I
40	100	I
40	60	I
40	60	I/D
40	60	I
40	60	I/D
40	60	I
60	60	A
60	80	I
60	180	A
60	60	I/D
60	80	I
60	140	I
60	140	I/D
60	80	I
80	120	I
80	140	I
80	160	I
80	180	I
80	180	I
80	180	I/D
80	140	I/D
120	120	I/D

REPORT
======

18.04= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (24) [GOLD GRAIN COUNT](24)MDN4T 121

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	A
20	20	A
20	20	A
20	20	A
20	40	I
40	60	A
40	60	I
40	60	I
40	40	A
40	60	A
40	60	A
40	40	A
40	40	I
40	80	I
60	60	A
80	80	A
80	120	A
80	100	A
80	160	I
80	80	A
80	120	I
100	160	I
100	140	A
100	120	I

REPORT
======

104.22= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (19) [GOLD GRAIN COUNT](19)MDN4T 122
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	A
20	40	I
20	420	I/D
20	40	A
40	60	A
40	60	A
40	60	A
40	60	A
40	60	A
40	40	A
40	40	A
40	40	A
60	80	A
80	120	A
80	120	A/I
120	160	A
120	220	A
160	260	A
320	400	A

REPORT
======

10.15= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (7) [GOLD GRAIN COUNT](7)MDN4T 131
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	20	A
40	40	I
60	60	I
60	60	A
120	140	I
140	180	A

REPORT
======

45.56= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (31) [GOLD GRAIN COUNT](31)MDN4T 132
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	A
20	20	A
20	20	A
20	20	A
20	20	A
20	20	A
20	20	A
20	20	A
20	60	I/D
20	20	A
40	60	A
40	40	A
40	60	I
40	40	A
40	40	A
40	60	I
40	60	A
60	100	I
60	60	I
60	60	A
60	60	A
60	100	A
60	60	A
60	80	I
80	160	A
100	160	A
100	100	A
120	160	A
140	180	A
160	160	I/D
180	280	A/I

REPORT
======

7.14= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (15) [GOLD GRAIN COUNT](15)MDN4T 133
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	I
20	40	I
20	40	I
20	20	I
20	40	I
20	40	I
20	20	A
20	20	A
40	40	I
40	40	A
40	40	I
60	80	A
60	100	A
100	100	I
100	160	I

REPORT
======

73.7= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (32) [GOLD GRAIN COUNT](32)MDN4T 134

1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	40	I
20	40	I
20	40	I
20	40	A
20	40	I
20	20	A
20	40	I
20	40	I/D
40	80	I
40	40	A
40	40	A
40	40	A
40	40	A
40	40	I
40	40	A
60	60	A
60	60	A
60	120	I
60	60	A
60	60	A
60	80	A
80	80	I
80	100	A
80	120	A
80	80	A
80	80	A
80	180	I/D
120	160	A
120	120	A
120	140	I
160	200	A
240	400	A/I

REPORT
======

64.87= ESTIMATED WEIGHT OF Au IN MICROGRAMS

C71 CHAPMAN CAMECO JUNE 3/94 (29) [GOLD GRAIN COUNT](29)MDN4T 137
1 GOLD GRAIN WIDTH IN MICRONS
2 GOLD GRAIN LENGTH IN MICRONS
3 GOLD GRAIN DESCRIPTION
4 GOLD GRAIN WIDTH IN MICRONS
5 GOLD GRAIN LENGTH IN MICRONS
6 GOLD GRAIN DESCRIPTION
7 GOLD GRAIN WIDTH IN MICRONS
8 GOLD GRAIN LENGTH IN MICRONS
9 GOLD GRAIN DESCRIPTION

W	L	D
20	20	I
20	20	I
20	40	I
20	40	I
20	60	I
20	40	I
20	20	A
20	40	I
20	40	A
20	20	A
20	20	A
20	40	I
20	40	A
20	20	I
20	20	A
20	40	A
20	20	A
40	40	I
40	40	A
40	40	A
40	60	A
40	60	A
40	40	A
60	60	I
60	60	A
140	60	A
140	340	A/I
140	160	A/I
300	300	A

ACTLABS

ACTIVATION LABORATORIES LTD

Invoice No.: 6478
Work Order: 6550
Invoice Date: 23-JUN-94
Date Submitted: 13-JUN-94
Your Reference: LETTER
Account Number: C084

CAMECO
P.O. BOX 6446
RENO, NEVADA
USA
89513
ATTENTION: D. MELROSE

CERTIFICATE OF ANALYSIS

INAA package, elements and detection limits:

AU	5.	PPB	AG	5.	PPM	AS	2.	PPM	BA	200.	PPM
BR	5.	PPM	CA	1.	%	CO	5.	PPM	CR	10.	PPM
CS	2.	PPM	FE	0.02	%	HF	1.	PPM	HG	5.	PPM
IR	50.	PPB	MO	20.	PPM	NA	500.	PPM	NI	200.	PPM
RB	50.	PPM	SB	0.2	PPM	SC	0.1	PPM	SE	20.	PPM
SR	0.2	%	TA	1.	PPM	TH	0.5	PPM	U	0.5	PPM
W	4.	PPM	ZN	200.	PPM	LA	1.	PPM	CE	3.	PPM
ND	10.	PPM	SM	0.1	PPM	EU	0.2	PPM	TB	2.	PPM
YB	0.2	PPM	LU	0.1	PPM						

CERTIFIED BY :

DR. ERIC L. HOFFMAN

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 905-648-9611 • FAX: 905-648-9613

Activation Laboratories Ltd. Work Order: 6550 Report: 6478

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA PPM	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SR %	TA PPM	TH PPM	U PPM
MDN4T 100	1750	<5	19	610	<5	6	55	6500	<2	33.3	210	<5	<50	<20	4780	<200	<50	6.2	32	<20	<0.2	6	40	21
MDN4T 101	55	<5	15	910	<5	<1	21	1900	<2	10.3	50	<5	<50	<20	13400	<200	<50	2.9	19	<20	<0.2	2	17	8.5
MDN4T 102	277	<5	17	590	<5	4	38	4500	<2	15.3	76	<5	<50	<20	9770	<200	<50	3.2	31	<20	<0.2	4	16	8.1
MDN4T 103	185	<5	18	620	<5	7	44	4400	<2	15.6	95	<5	<50	<20	10300	<200	<50	3.1	41	<20	<0.2	5	23	11
MDN4T 104	2250	<5	13	740	<5	4	32	2800	<2	10.4	54	<5	<50	<20	12600	<200	<50	2.2	29	<20	<0.2	3	14	6.3
MDN4T 113	<5	<5	5	590	<5	5	22	470	<2	5.58	19	<5	<50	<20	15200	<200	<50	1.1	23	<20	<0.2	<1	8.2	2.1
MDN4T 114	330	<5	8	450	<5	6	42	2000	<2	16.2	84	<5	<50	<20	10000	<200	<50	1.5	45	<20	<0.2	2	18	5.7
MDN4T 115	4980	<5	11	490	<5	3	27	4700	<2	11.5	130	<5	<50	<20	9310	<200	<50	2.4	19	<20	<0.2	2	18	7.3
MDN4T 116	6	<5	9	650	<5	4	29	1600	3	11.5	47	<5	<50	<20	15100	<200	<50	1.7	33	<20	<0.2	2	21	4.4
MDN4T 117	788	<5	19	1100	<5	4	24	3300	<2	10.9	78	<5	<50	<20	12500	<200	61	2.8	20	<20	<0.2	2	17	8.6
MDN4T 118	1340	<5	18	900	<5	<1	24	3700	<2	9.96	96	<5	<50	<20	11400	<200	65	2.4	19	<20	<0.2	3	22	9.9
MDN4T 119	2240	<5	31	1000	<5	4	45	7900	<2	22.3	240	<5	<50	<20	9290	<200	<50	4.4	32	<20	<0.2	7	43	22
MDN4T 120	3320	<5	11	560	<5	6	36	4900	<2	14.0	91	<5	<50	<20	9060	<200	<50	3.0	32	<20	<0.2	<1	15	5.9
MDN4T 121	999	<5	9	710	<5	3	17	1800	<2	5.52	48	<5	<50	<20	13400	<200	63	1.6	15	<20	<0.2	2	12	5.4
MDN4T 122	2000	<5	23	660	<5	5	31	4600	<2	18.7	130	<5	<50	<20	13400	<200	62	3.7	19	<20	<0.2	2	30	12
MDN4T 131	680	<5	14	660	<5	2	26	3300	<2	16.9	99	<5	<50	<20	8280	<200	<50	3.0	15	<20	<0.2	2	15	6.2
MDN4T 132	53	<5	23	820	<5	5	39	2500	<2	38.1	76	<5	<50	<20	3170	<200	<50	6.2	18	<20	<0.2	3	19	9.6
MDN4T 133	1450	<5	18	740	<5	<1	29	2800	3	26.0	89	<5	<50	<20	5790	<200	<50	3.8	14	23	<0.2	1	16	8.4
MDN4T 134	159	<5	27	640	<5	<1	39	4100	<2	30.7	120	<5	<50	<20	5330	240	<50	5.2	22	<20	<0.2	4	24	12
MDN4T 137	645	<5	24	770	<5	<1	41	6700	<2	20.1	170	<5	<50	<20	9580	380	<50	4.7	20	<20	<0.2	4	25	8.3

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEM PRECIOUS METALS ANALYSIS

Cameco U.S. Inc. PROJECT MAIDEN CREEK File # 94-1811 Page 1
P.O. Box 6446, Reno NV U.S.A. 89523 Submitted by: D. Melrose

SAMPLE#	Au** ppb
MDN4O-201	83
MDN4O-202	6
MDN4O-203	14
MDN4O-204	3
MDN4O-205	4
MDN4O-206	15
MDN4O-207	3
MDN4O-208	5
MDN4O-209	5
MDN4O-210	2
RE MDN4O-210	3
MDN4O-211	3
MDN4O-212	6
MDN4O-213	<1
MDN4O-214	2
MDN4O-215	6
MDN4O-216	2
MDN4O-217	2
MDN4O-218	2
MDN4O-219	2
MDN4O-220	2
MDN4O-221	3
MDN4O-222	2
MDN4O-223	4
MDN4B-2001	1
MDN4B-2002	2
MDN4O-2003	2
MDN4O-2004	1
MDN4O-2005	<1
MDN4B-2006	1
MDN4O-2007	4
MDN4B-2008	2
MDN4O-2009	2
MDN4O-2010	1
MDN4O-2011	2
STANDARD AU-R	488

30 GRAM SAMPLE FIRE ASSAY AND ANALYSIS BY ICP/GRAPHITE FURNACE.
- SAMPLE TYPE: ROCK

Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUN 24 1994 DATE REPORT MAILED: June 28/94 SIGNED BY C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Au** ppb
MDN4B-2012	1
MDN4O-2013	2
MDN4O-2014	2
MDN4O-2015	2
MDN4O-2016	4
RE MDN4O-2016	4
MDN4O-2017	3
MDN4O-2018	2
STANDARD AU-R	470

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ICP ANALYSIS

Cameco Corporation PROJECT MAIDEN CREEK File # 94-1385 Page 1

2121 - 11th St. West, Saskatoon SK S7M 1J3 Submitted by: KRW

SAMPLE#	As ppm	Sb ppm	Bi ppm	Ge ppm	Se ppm	Te ppm
MDN40-001	54.3	.7	<.1	<.1	.1	<.1
MDN40-002	4.3	.4	<.1	<.1	.1	.2
MDN4B-003	8.0	.5	<.1	<.1	.2	<.1
MDN40-004	4.5	.2	<.1	.1	.2	<.1
MDN40-005	23.0	1.2	.1	.3	.5	.4
MDN4F-006	3.7	.2	.2	<.1	<.1	<.1
MDN4B-007	15.3	.9	<.1	.2	.4	.2
MDN4B-008	13.4	1.2	<.1	.3	.2	.4
MDN40-009	21.4	1.2	.4	<.1	.4	<.1
MDN40-010	20.9	.5	<.1	<.1	.3	<.1
MDN40-011	.6	<.1	<.1	<.1	<.1	<.1
MDN4B-012	3.4	.2	.8	.3	.2	.2
MDN40-013	10.2	.9	<.1	.1	<.1	.1
MDN40-014	16.0	.7	<.1	.2	.3	.2
MDN40-015	2.2	.2	<.1	.2	.1	.3
MDN40-016	2.2	.2	<.1	.1	<.1	<.1
MDN40-017	6.2	.3	.1	<.1	<.1	<.1
MDN40-018	4.1	.3	<.1	.1	<.1	<.1
MDN40-019	4.0	.1	.1	<.1	<.1	<.1
MDN40-020	4.1	.1	<.1	<.1	<.1	<.1
MDN40-021	.5	.1	.3	.3	<.1	.3
MDN40-022	.5	.1	.1	.2	<.1	.4
MDN40-023	2.6	.2	.7	<.1	<.1	.1
MDN40-024	.6	.1	.3	<.1	<.1	<.1
MDN40-025	55.3	1.5	30.1	.1	1.8	.4
MDN40-026	6.1	.4	<.1	<.1	<.1	<.1
MDN40-107	3.8	.3	<.1	.3	<.1	.3
RE MDN40-107	4.0	.3	<.1	.2	.1	.1
MDN40-1000	67.7	1.9	.1	<.1	.7	<.1
MDN4B-10001	6.4	1.0	.1	.4	.4	.4
MDN40-10002	2.8	.2	.3	<.1	<.1	<.1
MDN4B-10003	1.0	.6	.2	<.1	.7	<.1
MDN40-10004	12.8	.4	.2	.1	.3	.1
MDN4B-10005	78.0	2.5	.3	.3	.3	.3
MDN4B-10006	1.6	.1	.3	<.1	<.1	.1
STANDARD C	42.8	17.5	21.4	<.1	.7	<.1

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 deg.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
ANALYSIS BY HYDRIDE ICP. GE - PARTIAL LEACHED. -
- SAMPLE TYPE: P1 TO P2 ROCK P3 SOIL Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: MAY 17 1994 **DATE REPORT MAILED:** May 26/94 **SIGNED BY** ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	As ppm	Sb ppm	Bi ppm	Ge ppm	Se ppm	Te ppm
MDN4B-10007	.6	.1	.2	<.1	.1	<.1
MDN4B-10008	.7	.1	.2	.3	<.1	.2
MDN4O-10009	2.0	.1	.5	.1	<.1	<.1
MDN4O-100010	.5	.3	.4	<.1	<.1	<.1
MDN4B-100011	9.1	.4	.1	<.1	<.1	<.1
MDN4B-100012	1.5	.1	.1	.2	.4	.1
RE MDN4B-100012	1.3	.1	.1	.2	.5	.2
MDN4B-100013	1.4	.4	.2	.3	.1	.2
MDN4B-100014	1.6	.9	.2	<.1	<.1	<.1
MDN4B-100015	.6	.1	.3	<.1	.2	<.1
MDN4O-100016	4.4	.3	.2	<.1	<.1	<.1
MDN4B-100017	.2	.1	.1	<.1	<.1	<.1
MDN4B-100018	1.1	.6	<.1	.1	<.1	.1
MDN4O-100019	14.3	.7	<.1	.1	<.1	.2
MDN4O-100020	6.7	.5	.1	<.1	<.1	<.1
MDN4B-100021	.3	.1	.4	.3	<.1	.3
MDN4O-100022	<.1	.1	.1	<.1	<.1	.1
MDN4B-100023	1.0	.1	.3	.2	<.1	.4
MDN4B-100024	<.1	.2	.5	.1	<.1	.2
STANDARD C	42.3	17.6	21.4	<.1	.7	.2

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Cameco Corporation PROJECT MAIDEN CREEK File # 94-1385 Page 1

2121 - 11th St. West, Saskatoon SK S7M 1J3 Submitted by: KRW

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	U ppm	Th ppm	Sr ppm	Cd ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Tl ppm	Hg ppb	Au** ppb
MDN4O-001	6	28	<4	30	<.3	21	4	301	2.85	<10	<2	93	<.4	64	.33	.038	5	48	.46	609	.19	3.51	.90	1.33	2	40	<2	6	2	<1	9	<5	35	52
MDN4O-002	<2	33	<4	44	<.3	24	5	305	2.10	<10	3	170	<.4	52	.52	.044	8	28	.58	967	.16	4.47	1.31	1.67	3	48	<2	8	3	<1	7	<5	15	25
MDN4B-003	<2	23	<4	51	<.3	21	4	512	2.53	<10	<2	307	.4	92	.14	.072	8	53	.12	1080	.17	4.62	.34	1.22	2	34	<2	7	2	<1	8	<5	20	3
MDN4O-004	2	27	13	30	<.3	18	3	335	1.59	<10	<2	63	<.4	37	.86	.025	4	24	.37	393	.11	2.39	.67	.75	5	23	<2	5	<2	<1	6	<5	5	5
MDN4O-005	7	26	9	40	.3	19	2	141	3.85	<10	3	177	<.4	77	.52	.039	6	70	.64	886	.21	4.92	1.09	1.77	4	41	<2	4	3	<1	10	<5	30	6
MDN4F-006	<2	13	5	10	<.3	7	<2	117	.61	<10	<2	15	<.4	7	.07	.007	2	9	.08	224	.01	.73	.23	.36	3	6	<2	<2	<2	<1	1	<5	5	2
MDN4B-007	2	22	4	46	<.3	55	9	328	2.31	<10	<2	102	.4	74	.69	.041	8	64	.61	747	.19	3.79	.96	1.02	<2	38	<2	9	2	<1	9	<5	30	3
MDN4B-008	3	23	13	36	.4	26	4	270	3.27	<10	2	112	<.4	78	.64	.042	8	81	.58	642	.24	3.81	.90	1.09	2	42	<2	7	4	<1	10	<5	40	4
MDN4O-009	8	23	<4	24	.3	17	2	128	4.13	<10	2	99	<.4	54	.28	.024	6	37	.29	542	.12	2.27	.51	.76	2	25	<2	4	2	<1	6	<5	35	1
MDN4O-010	3	24	<4	47	<.3	55	8	524	2.65	<10	2	101	.4	75	2.70	.037	8	106	.58	656	.20	3.73	.93	1.04	3	33	<2	8	2	<1	9	<5	15	15
MDN4O-011	2	83	10	87	.5	35	12	400	3.60	<10	5	749	.6	98	3.30	.139	23	49	1.11	1467	.41	8.10	2.97	2.33	<2	120	<2	7	2	<1	11	<5	<5	<1
MDN4B-012	<2	25	<4	82	<.3	10	8	828	3.90	<10	<2	457	<.4	107	1.93	.190	9	10	1.15	1841	.43	7.37	4.61	1.98	5	71	<2	7	3	<1	8	<5	5	<1
MDN4O-013	<2	20	5	55	<.3	44	11	365	2.66	<10	<2	164	.5	80	.85	.051	10	85	.70	901	.21	4.77	.99	1.55	3	31	<2	8	2	<1	9	<5	15	1
MDN4O-014	3	22	5	42	<.3	45	8	308	2.45	<10	2	74	<.4	56	.40	.028	7	62	.53	665	.16	3.11	.58	.87	<2	29	<2	6	2	<1	7	<5	105	3
MDN4O-015	<2	18	<4	48	<.3	32	8	1030	2.05	<10	3	140	<.4	65	7.44	.038	9	61	.45	780	.17	4.57	.74	1.52	<2	30	<2	8	2	<1	8	<5	20	29
MDN4O-016	<2	30	<4	86	<.3	11	8	760	3.89	<10	2	559	<.4	100	2.36	.161	13	26	1.38	1419	.35	9.10	3.00	2.14	<2	92	<2	9	3	<1	10	<5	25	88
MDN4O-017	<2	20	7	47	<.3	42	7	260	2.55	<10	3	166	<.4	74	.51	.039	7	69	.88	1057	.19	5.38	1.20	1.88	2	35	<2	6	2	<1	8	<5	20	<1
MDN4O-018	<2	23	<4	48	<.3	54	8	1254	2.47	<10	2	320	<.4	72	5.13	.043	10	86	.71	1456	.22	4.56	.99	1.27	<2	39	<2	10	2	<1	9	<5	25	24
MDN4O-019	<2	38	<4	83	<.3	13	9	852	4.14	<10	2	658	.7	108	3.08	.160	12	27	1.51	1829	.37	9.08	3.17	2.15	<2	83	<2	9	2	<1	11	<5	10	<1
MDN4O-020	<2	50	<4	91	<.3	13	8	869	3.95	<10	2	601	<.4	97	2.59	.158	12	25	1.36	2399	.34	8.46	3.07	2.10	2	87	<2	9	2	<1	10	<5	10	<1
MDN4O-021	<2	2	18	40	<.3	3	<2	686	.58	<10	5	187	<.4	2	.61	.010	8	3	.16	1432	.03	5.99	2.08	3.01	<2	37	2	5	5	1	2	<5	<5	<1
MDN4O-022	<2	2	8	33	<.3	<2	<2	369	.50	<10	4	162	<.4	<2	.54	.012	6	5	.06	1260	.03	5.40	2.25	2.99	<2	34	<2	3	3	1	1	<5	<5	<1
MDN4O-023	2	16	<4	25	<.3	28	5	277	1.28	<10	2	62	<.4	47	.19	.028	7	39	.17	525	.11	2.94	.47	.67	<2	27	<2	7	2	<1	6	<5	10	<1
MDN4O-024	<2	2	20	19	<.3	3	<2	337	.67	<10	5	164	<.4	3	.57	.009	7	4	.09	1226	.03	5.54	2.22	2.97	<2	38	<2	4	6	1	2	<5	<5	<1
MDN4O-025	4	15	15	50	1.5	21	5	2720	3.24	<10	2	417	.5	48	16.75	.096	8	25	.30	477	.09	2.16	.04	.08	2	46	6	21	2	<1	6	<5	<5	7
MDN4O-026	3	27	4	42	<.3	39	8	591	2.46	<10	2	101	<.4	60	.42	.036	9	47	.27	645	.17	3.42	.58	.93	2	34	<2	12	2	<1	10	<5	45	3
MDN4O-107	<2	26	<4	87	<.3	9	9	868	4.25	<10	<2	497	<.4	108	1.96	.198	9	11	1.19	2004	.43	7.87	4.29	1.91	2	71	<2	8	2	<1	8	<5	5	<1
RE MDN4O-107	<2	23	<4	82	<.3	8	8	853	4.14	<10	<2	486	<.4	105	1.95	.195	9	11	1.24	1962	.42	7.69	4.59	2.01	2	70	<2	8	5	<1	8	<5	5	1
MDN4O-1000	9	20	9	30	<.3	18	3	235	4.82	<10	3	117	.4	95	.62	.040	5	84	.43	580	.20	3.65	.85	.95	<2	32	<2	5	3	<1	9	<5	160	7
MDN4B-10001	<2	142	<4	75	<.3	28	20	1081	6.56	<10	<2	719	<.4	221	4.48	.137	8	59	3.02	581	.40	8.01	3.03	1.90	<2	38	<2	12	<2	<1	28	<5	<5	4
MDN4O-10002	2	27	<4	98	.6	8	9	815	4.15	<10	3	523	.5	107	2.24	.189	13	12	1.34	1307	.43	7.80	4.41	2.48	8	81	<2	9	4	<1	9	<5	5	2
MDN4B-10003	<2	99	<4	86	<.3	22	21	999	6.66	<10	2	460	<.4	235	5.01	.134	8	27	3.08	1204	.47	7.66	2.63	1.82	<2	36	<2	13	<2	<1	30	<5	5	33
MDN4O-10004	2	28	8	46	<.3	32	5	201	2.27	<10	3	66	<.4	54	.59	.036	7	50	.50	421	.19	3.01	.60	.75	<2	32	<2	6	3	<1	8	<5	25	<1
MDN4B-10005	5	25	9	34	<.3	25	5	289	5.97	<10	2	126	<.4	72	.35	.036	11	84	.46	8449	.23	3.16	.57	.82	2	35	<2	7	4	<1	9	<5	285	3
MDN4B-10006	<2	6	<4	6	<.3	<2	<2	159	.17	<10	2	101	<.4	6	16.49	.018	<2	3	8.39	77	.01	.15	.04	.04	<2	2	<2	<2	<2	<1	<1	<5	5	<1
STANDARD CT/C/AU-R	18	58	36	141	6.3	62	27	1118	4.14	<10	36	242	17.0	108	1.07	.104	36	100	1.15	945	.28	7.08	1.72	2.05	14	55	15	9	7	<1	14	<5	1800	483

ICP - .250 GRAM SAMPLE IS DIGESTED WITH 10ML HCLO4-HNO3-HCL-HF AT 200 DEG. C TO FUMING AND IS DILUTED TO 10 ML WITH DILUTED AQUA REGIA. THIS LEACH IS PARTIAL FOR MAGNETITE, CHROMITE, BARITE, OXIDES OF AL, ZR & MN AND MASSIVE SULFIDE SAMPLES. AS, CR, SB, AU SUBJECT TO LOSS BY VOLATILIZATION DURING HCLO4 FUMING.
- SAMPLE TYPE: P1 TO P2 ROCK P3 SOIL HG ANALYSIS BY FLAMELESS AA. AU** BY FIRE ASSAY & ANALYSIS BY ICP/GRAPHITE FURNACE.(30 gm)
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: MAY 17 1994 **DATE REPORT MAILED:** May 26/94. **SIGNED BY** C. Leong ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	U ppm	Th ppm	Sr ppm	Cd ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Tl ppm	Hg ppb	Au** ppb
MDN4B-10007	<2	6	8	16	.6	4	<2	204	.15	10	2	121	.8	3	25.71	.033	<2	4	6.22	29	<.01	.15	.01	.05	7	2	<2	2	<2	1	<1	<5	5	<1
MDN4B-10008	<2	98	8	105	.6	222	33	910	7.45	<10	5	212	.5	203	7.02	.180	26	291	4.87	303	1.38	7.44	1.43	.83	2	154	<2	19	16	1	27	<5	5	2
MDN4O-10009	2	28	13	89	.3	17	9	964	3.89	<10	4	556	.4	98	3.20	.154	12	23	1.82	1898	.34	10.34	2.18	1.78	2	90	<2	10	2	1	10	<5	15	2
MDN4O-100010	<2	30	7	60	<.3	23	3	237	2.57	<10	3	50	<.4	70	1.41	.033	10	58	.68	492	.19	3.32	.46	.80	<2	52	<2	11	3	1	9	<5	20	141
MDN4B-100011	4	10	4	14	<.3	19	3	164	1.03	<10	<2	22	<.4	14	.23	.009	4	21	.20	241	.07	1.43	.55	.37	3	21	<2	2	3	<1	3	<5	10	3
MDN4B-100012	2	15	19	50	.5	8	4	220	2.09	<10	5	704	.6	44	2.21	.109	18	3	.18	1358	.22	9.50	2.56	2.19	4	62	<2	9	2	2	4	<5	10	<1
RE MDN4B-100012	2	15	13	50	.4	9	4	227	2.15	<10	5	695	<.4	44	2.28	.108	17	4	.19	1340	.22	9.46	2.51	2.13	6	63	<2	9	3	2	4	<5	5	1
MDN4B-100013	<2	9	5	20	<.3	15	3	314	1.23	<10	3	174	<.4	28	1.82	.014	11	21	.88	2252	.08	1.87	.03	1.04	2	24	<2	5	2	<1	5	<5	15	3
MDN4B-100014	2	29	17	83	.4	16	7	597	3.13	<10	3	945	<.4	70	2.96	.103	14	31	1.02	1836	.32	9.84	1.95	1.89	<2	114	<2	8	2	1	7	<5	<5	1
MDN4B-100015	3	37	5	88	<.3	14	12	1071	5.38	<10	2	460	.6	191	4.44	.100	8	46	2.49	811	.45	10.96	2.11	1.54	<2	15	<2	12	<2	1	25	5	5	6
MDN4O-100016	<2	27	5	48	<.3	14	2	256	1.86	<10	3	25	<.4	46	.14	.032	8	31	.34	514	.13	2.68	.26	.79	2	36	<2	6	3	<1	6	<5	<5	4
MDN4B-100017	<2	5	9	3	<.3	9	<2	2370	.63	<10	<2	1306	<.4	5	17.68	.005	3	10	.74	1588	.01	.50	.02	.29	3	<2	<2	8	<2	<1	3	<5	<5	2
MDN4B-100018	<2	61	<4	89	.3	374	40	972	7.38	<10	2	142	.4	147	5.82	.077	11	482	6.82	1387	.94	6.17	.59	.64	2	99	<2	14	6	<1	24	<5	10	2
MDN4O-100019	<2	17	<4	25	<.3	18	3	165	2.80	<10	2	79	<.4	55	.32	.032	7	60	.42	705	.16	3.72	.49	1.00	<2	29	<2	4	<2	1	7	<5	15	4
MDN4O-100020	<2	24	10	41	.3	31	6	419	1.79	<10	<2	273	.4	55	.89	.038	9	38	.46	1497	.15	4.01	.65	1.07	4	33	<2	9	<2	<1	7	<5	10	2
MDN4B-100021	<2	3	12	31	<.3	9	2	711	.63	<10	4	164	<.4	6	.63	.015	7	12	.17	1399	.05	6.42	1.89	3.18	<2	32	<2	2	4	2	2	<5	<5	<1
MDN4O-100022	<2	2	19	28	<.3	<2	<2	479	.61	<10	4	183	<.4	2	.58	.010	7	4	.07	1439	.03	6.82	2.45	3.58	<2	28	<2	4	<2	2	1	<5	<5	<1
MDN4B-100023	2	3	22	38	.3	6	<2	422	.63	<10	5	178	<.4	2	.64	.020	8	7	.09	1402	.04	6.86	1.96	3.25	<2	30	<2	3	3	2	1	<5	5	1
MDN4B-100024	2	6	12	39	<.3	4	<2	450	.65	<10	5	185	<.4	<2	.61	.009	9	5	.07	1479	.03	6.58	2.41	3.41	<2	35	<2	4	3	1	1	<5	<5	<1
STANDARD CT/C/AU-R	15	58	33	134	6.2	61	28	1029	3.95	<10	38	225	16.1	100	1.12	.098	37	87	1.08	900	.28	7.47	1.54	1.94	13	50	12	9	3	1	14	<5	1825	485

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Au** ppb
MDN4R-135	71
MDN4R-136	14

Sample type: SOIL.

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GEOCHEM PRECIOUS METALS ANALYSIS

Cameco Corporation PROJECT MAIDEN CREEK File # 94-1386 Page 1

2121 - 11th St. West, Saskatoon SK S7M 1J3 Submitted by: KRW

SAMPLE#	Au** ppb
MDN4R-105	8
MDN4R-106	7
MDN4R-108	<1
MDN4R-109	3
MDN4R-110	1
MDN4R-111	51
RE MDN4R-111	25
MDN4R-112	40
MDN4R-123	6
MDN4R-124	40
MDN4R-125	17
MDN4R-126	182
MDN4R-127	90
MDN4R-128	6
MDN4R-129	4
MDN4R-130	4
L336N 60+50E-B	<1
L336N 61+00E-B	<1
L336N 61+50E-B	7
L336N 62+00E-B	1
L336N 62+25E-B	77
L336N 62+50E-B	127
L336N 62+75E-B	6
L336N 63+00E-B	28
L336N 63+25E-B	110
L336N 63+50E-B	20
L336N 63+75E-B	<1
L336N 64+00E-B	3
L336N 64+25E-B	13
L336N 64+50E-B	39
L336N 64+75E-B	3
L336N 65+00E-B	1
L336N 65+25E-B	1
L336N 65+50E-B	1
L336N 65+75E-B	2
STANDARD AU-S	50

30 GRAM SAMPLE FIRE ASSAY AND ANALYSIS BY ICP/GRAPHITE FURNACE.
- SAMPLE TYPE: SOIL

Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: MAY 17 1994 DATE REPORT MAILED: May 27/94 SIGNED BY........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Au** ppb
L336N 66+00E-B	1
L336N 66+25E-B	74
L336N 66+50E-B	<1
L337N 64+00E-B	76
L337N 64+50E-B	<1
L337N 65+00E-B	<1
L337N 65+50E-B	45
L336N 60+50E-C	3
L336N 61+00E-C	188
L336N 61+50E-C	99
L336N 62+00E-C	5
L336N 62+25E-C	<1
L336N 62+50E-C	19
L336N 62+75E-C	3
L336N 63+00E-C	10
L336N 63+25E-C	68
RE L336N 63+25E-C	129
L336N 63+50E-C	595
L336N 63+75E-C	3
L336N 64+00E-C	11
L336N 64+25E-C	9
L336N 64+50E-C	220
L336N 64+75E-C	11
L336N 65+00E-C	9
L336N 65+50E-C	16
L336N 65+75E-C	1
L336N 66+00E-C	5
L336N 66+25E-C	5
L336N 66+50E-C	1
L337N 64+00E-C	8
L337N 64+50E-C	92
L337N 65+00E-C	6
L337N 65+50E-C	17
STANDARD AU-S	48

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

Activation Laboratories Ltd.   Work Order: 6550   Report: 6478

Sample description	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
MDN4T 100	9	418	110	230	75	12	4.6	4	21.8	3.9	17.03
MDN4T 101	<4	219	52	110	31	7.2	2.7	<2	7.7	1.3	12.04
MDN4T 102	<4	268	70	150	59	9.4	3.4	2	9.9	1.7	20.41
MDN4T 103	11	223	90	200	64	12	4.0	<2	12.3	2.1	11.31
MDN4T 104	<4	250	59	130	44	7.6	2.7	<2	7.5	1.2	17.85
MDN4T 113	<4	<200	38	68	30	4.9	1.6	<2	4.2	0.6	9.742
MDN4T 114	<4	200	73	140	51	9.3	2.6	<2	9.4	1.5	7.149
MDN4T 115	<4	<200	89	160	65	9.6	2.9	<2	10.9	1.6	9.996
MDN4T 116	<4	<200	97	180	56	10	2.6	<2	11.1	1.5	7.376
MDN4T 117	<4	<200	67	150	42	8.0	2.9	3	8.3	1.5	10.85
MDN4T 118	6	<200	80	170	52	9.0	2.9	<2	10.0	1.9	17.23
MDN4T 119	<4	308	160	340	130	18	5.2	3	20.9	3.9	10.26
MDN4T 120	<4	<200	77	150	51	9.3	3.0	<2	9.2	1.4	8.126
MDN4T 121	<4	<200	46	97	33	5.4	1.9	<2	5.7	1.0	20.35
MDN4T 122	<4	372	110	240	73	13	4.5	2	13.5	2.4	11.02
MDN4T 131	7	<200	74	140	50	8.5	2.7	<2	8.6	1.4	9.678
MDN4T 132	7	304	83	170	58	9.1	3.2	<2	8.9	1.6	22.86
MDN4T 133	<4	308	60	130	38	6.8	2.3	<2	8.3	1.5	13.48
MDN4T 134	<4	384	99	200	67	12	4.0	2	13.0	2.2	16.55
MDN4T 137	<4	240	110	240	71	13	3.9	<2	13.9	2.2	4.004

APPENDIX III

ANALYTICAL PROCEDURES

ANALYTICAL PROCEDURES

<u>ICP Analysis</u> (Rock samples)

-250 gram sample is digested with 10 ml HClO4-HNO3-HCl-HF at 200 deg C to fuming and is diluted to 10 ml with diluted aqua regia. This leach is partial for magnetite, chromite, barite, oxides of Al, Zr, and Mn and massive sulphide samples. As, Cr, Sb, Au subject to loss by volatilization during HClO4 fuming.

-Hg analysis by flameless AA.

-Au by Fire assay and analysis by ICP/graphite furnace. (30 gm)

-As, Sb, Bi, Ge, Se, and Te - 500 gram sample is digested with 3 ml 3-1-2 HCl-HNO3-H20 at 95 deg C for one hour and is diluted to 10 ml with water. Analysis by hydride ICP. Ge partial leached.

<u>SOIL AND ROCK SAMPLES FOR Au</u>

-30 gram sample fire assay and analysis by ICP/graphite furnace.

Memo

Cameco

Date: October 25, 1994

To: D. Melrose

From: K. Wasyliuk

Subject: **Heavy Mineral Sample Analytical and Statistical Procedures**

I have a enclosed a copy of the flow diagram for heavy mineral processing of bulk samples at the Saskatchewan Research Council (SRC). A fire assay for gold was completed on a -150 mesh subsample by the SRC. The heavy mineral concentrate was sent to Activation Laboratories Ltd. (Actlabs) for a gold plus 34 element instrumental neutron activation analysis (see attached information).

Gold results from Actlabs are quoted in ppb and must be converted to ppm. The weight of gold in the heavy mineral fraction is then calculated by multiplying the assay by the heavy mineral weight.

HM Au (ppb) / 1000 = HM Au (ppm)

HM Au (ppm) * HM weight (gms) = HM Au (ugms)

The weight of gold in the heavy mineral fraction can then be added to the calculated weight of the gold grains quoted by the SRC for a total gold in the sample.

HM Au (ugms) + Calc Au (ugms) = Total Au (ugms)

The total gold in the sample can then be normalized to a 5 kg sample weight by the following formula:

[Total Au (ugms) * 5 (kg)] / Table Feed (kg) = normalized Total Au

Ken Wasyliuk

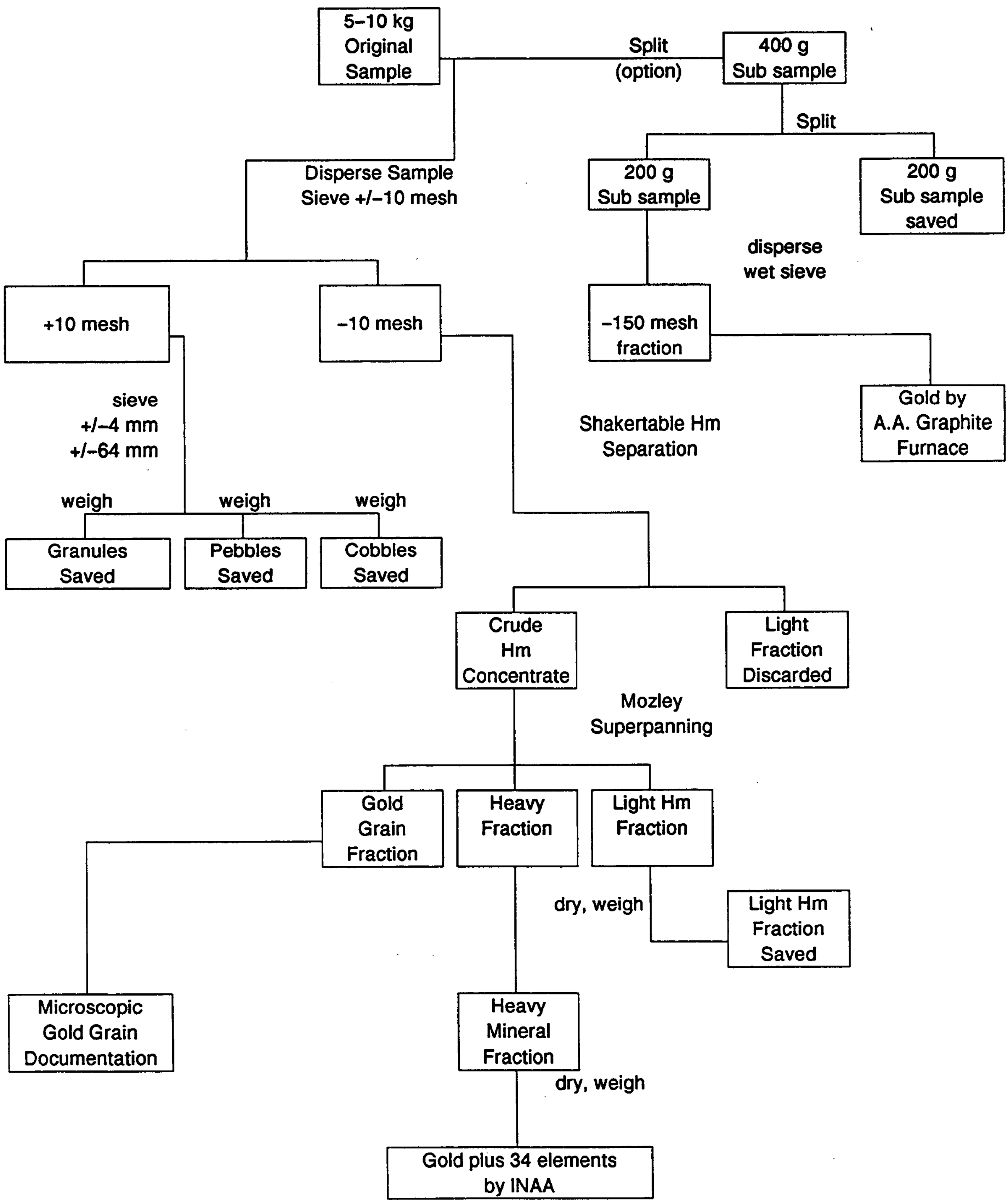
Ken Wasyliuk
Geologist/Geochemist

Attachments

TABLE 2

SRC – BULK TILL SAMPLE PROCESSING

Flow Diagram for Hm Processing



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INSTRUMENTAL NEUTRON ACTIVATION ANALYSIS (I N A A)

INAA is an analytical technique which is dependant on measuring primarily gamma radiation which is emitted by the radioactive isotopes produced by irradiating samples in a nuclear reactor. Each element which is activated, will emit a "fingerprint" of gamma radiation which can be measured and quantified. Activation Labs uses state of the art detection, electronic and computer systems to provide the most reliable analytical results available.

There are a number of advantages to using the INAA technique. These include:
1. Cost. INAA is one of the lowest cost multielement techniques.
2. No chemistry required, therefore little worry of contamination or whether the elements in question are in solution. The additional worry of whether there are abnormal amounts of a particular element which will cause chemical or instrumental interferences is also avoided with INAA.
3. INAA is a multielement technique capable of determining up to 35 elements simultaneously in most materials.
4. INAA is exceptionally sensitive to a number of trace elements including gold, the rare earths, platinum group metals and many other elements like arsenic, antimony, tantalum, uranium, thorium, etc. Many of these elements are very difficult and expensive to determine by conventional chemical procedures.
5. Trace elements including gold in organic materials such as humus or vegetation are easily determined directly with exceptionally low detection limits. The INAA technique does not require the expensive and slow ashing procedure of other chemical methods. This lack of ashing prevents potential loss of gold and improves the reliability of data due to lesser sample handling and potential human error.

INDUCTIVELY COUPLED PLASMA EMISSION SPECTROMETRY (I C P)

The ICP technique relies on placing the sample material into solution using either single acid, mixed acids or fusion techniques using fluxes. The sample solution is then introduced into a radio frequency excited plasma ($\sim$8000°K). Each element in the solution produces a characteristic spectrum. The intensity of the spectral lines are directly proportional to the quantity of the element present. The advantages of this technique include:

GEOCHEMICAL ANALYSIS

1. ROCKS, SOILS, SEDIMENTS, CORE

			CDN	US
(1A) GOLD BY FIRE ASSAY-INAA	30g req'd	1ppb	$9.00	$7.75

(1B) PLATINUM GROUP ELEMENTS - NICKEL SULPHIDE FIRE ASSAY - INAA (50g required)

Rh	0.1 ppb	Os	2 ppb
Pd	2 ppb	Ru	5 ppb
Pt	5 ppb	Re	5 ppb
Ir	0.1 ppb	Au	0.5 ppb

PRICE:	CDN	US
ALL ELEMENTS	$115.00	$97.00

*NOTE: Detection limits for Pt are increased with high Au/Pt ratios and limits for other elements will be affected by abnormally high Au, Sb and Cu content. This method was developed by one of the principals of Activation Labs.

(1C) LEAD FIRE ASSAY - ICP (30g required)

Au	1 ppb
Pt	5 ppb
Pd	3 ppb

PRICE:	CDN	US
1ST ELEMENT	$ 9.00	$ 7.85
EACH ADDITIONAL	$ 2.75	$ 2.35
ALL ELEMENTS	$12.50	$10.75

(1D) "AU + 34" THE COST EFFECTIVE MULTIELEMENT APPROACH TO GOLD, PGE & BASE METAL EXPLORATION

A 1 ASSAY TON (30g) sample is encapsulated, irradiated, and measured in a mulielement mode for Au + 34 elements. These elements which are total metal will help the geologist determine rock types, alteration and pathfinder elements. The 30 gram aliquot provides a more representative sample size than most other geochemical analyses for gold. Samples as small as 0.1 gram can also be analyzed.

Au	5 ppb	Hf	1 ppm	Se	5 ppm
Ag	5 ppm	Hg	1 ppm	Sr	0.05 %
As	2 ppm	Ir	5 ppb	Sm	0.1 ppm
Ba	100 ppm	La	1 ppm	Sn	0.01 %
Br	1 ppm	Lu	0.05 ppm	Ta	1 ppm
Ca	1 %	Mo	5 ppm	Th	0.5 ppm
Ce	3 ppm	Na	0.05 %	Tb	0.5 ppm
Co	5 ppm	Nd	5 ppm	U	0.5 ppm
Cr	10 ppm	Ni	50 ppm	W	4 ppm
Cs	2 ppm	Rb	30 ppm	Yb	0.2 ppm
Eu	0.2 ppm	Sb	0.2 ppm	Zn	50 ppm
Fe	0.02 %	Sc	0.1 ppm		

PRICE:	CDN	US
ALL ELEMENTS	$10.75	$ 9.00

APPENDIX IV

REPORT ON THE STATISTICAL ANALYSIS OF TILL AND HEAVY MINERAL SAMPLES ON THE MAIDEN CREEK PROPERTY

Memo

Cameco

Date: August 16, 1994

To: Dwayne Melrose/Rob Chapman

From: Ken Wasyliuk

Subject: **Maiden Creek Project - Heavy Mineral Sample - Statistical Analysis**

A statistical analysis of 55 heavy mineral samples, collected on the Maiden Creek property, indicates that most of the anomalous gold in the Quaternary overburden (tills, stream sediments and colluvium) is related to free, visible gold. Two distinct populations (a fine and a coarse population) of visible gold can be distinguished in all sampling mediums, including the sedimentary outcrop samples. Reproducibility problems and gold variability are a direct result of these controls, especially with the exclusion or inclusion of a coarse gold grain in a sample.

All anomalous samples in the Quaternary overburden have high visible and coarse gold factor scores. Only about 30% of the gold in the till/colluvium/stream sediments is related to non visible gold in the heavy nonmagnetic fraction. No anomalous gold values in any of the sampling medium have high trace element affinities or geochemical gold factor scores. Approximately 50% of the gold in outcrop samples is related to non visible gold in the heavy mineral concentrate, and 50 % from visible gold grains. Anomalous outcrop samples generally have high factor scores related to non visible gold in the heavy mineral concentrate.

The lack of chemical affinities, and strong correlation between anomalous values and coarse, visible gold would indicate that the gold in the Quaternary overburden is derived mechanically rather than from hydrothermal events. A mechanical breakdown and reconcentration of visible gold from the sedimentary rocks is one possible source.
Rare earth element plots from the heavy mineral concentrate data have similar patterns for all the sample media, including outcrops, and would indicate a similar source for all material.

Statistical Procedures

Statistical analyses were completed on 55 samples from the Maiden Creek project area, including 4 stream sediment samples, 8 outcrop samples, and 43 bulk till and bulk colluvium samples. Statistical procedures were completed on the entire data set as a whole, and on different subsets based on grid, sample type and sample medium. Summary statistics (arithmetic means, medians, minima, maxima and standard deviations) were calculated for each relevant Au variable. Histograms, box plots and probability plots were developed to determine the gold grain size distribution patterns. Pearson correlation matrices were used to complete principal component factor analyses to determine trace element affinities and relevant gold factors. Factor scores for each sample were then derived. A principal component analysis was also completed on the geochemical data from 52 outcrop samples, collected in 1994. All relevant tables and figures are included as Appendix I. Tables 1 - 6 summarize the relevant data, with samples sorted by grid and total gold content in Tables 4 and 6.

Size and Shape Distributions

Based on gold grain size distributions, approximately 50 - 60 % of the visible gold occurs as fine grains (<5000 um2), and ~ 25 - 30 % are coarse (>10000 um2). The remaining 10 - 25 % fall between these two size populations. Histograms, box plots and probability plots were developed for gold grain size (area um2). All media, sample types and grids contain gold grains from both size populations in slightly varying proportions. Stream sediments have a slightly higher percentage of coarse gold grains (34%) compared to the overall average of 25%. The eight outcrop samples average ~17% coarse gold, however, outcrop samples with above average total Au contents (ugms Au / 5kg > 22.97) consistently have a higher proportion of larger gold grains.

All grids, sampling media, and sample types appear to contain similar proportions of irregular and abraded grains. Samples with anomalous or above average total Au contents consistently have higher proportions of abraded gold grains.

Gold Content Distributions

Stream sediments have more coarse gold than the till/colluvium and outcrop, and therefore have a higher total Au average (77 ugms/5kg). Outcrop samples have fewer visible gold grains, and therefore a much lower total gold average (23 ugm/5kg). The till/colluvium have a high background Au content of ~43 ugms/5kg.

A principal component analysis discerned three separate gold factors. The first factor is related to visible gold grains, the second factor is related to the non visible gold in the heavy nonmagnetic mineral fraction, and the third is related to coarse gold grains. Anomalous sediment samples (colluvium/till/stream) consistently have high visible and coarse gold factors. A higher proportion of the gold in outcrop samples is related to the non visible heavy nonmagnetic fraction.

The Sabre grid has an average total Au content of 70.12 ugms / 5kg. The Maid grid has an average total gold content of 46.44, and the Trac grid has an average of 34.32.

Gold Affinities

Two weak geochemical gold factors can be discerned using correlations between various trace elements, in the heavy mineral concentrates. A weak Au-As-Cr-Ni-W-Zn association and a Au-Ba association were developed by completing a principal component factor analysis on a Pearson correlation matrix for the entire sample set. These affinities weaken, especially in till and colluvial material when the data is grouped by sample media. Samples with anomalous gold contents do not have high scores in either geochemical gold factor. Sample MDN4T-101 with a total Au content of 47.28 ugms / 5kg had a high geochemical factor score of 6.963. Sample 101 was collected from a till on the top of the Sabre grid mountain.

A factor analysis of the geochemical data in 52 outcrop samples collected in 1994 from the Maiden Creek property did not define any significant gold affinities.

Geological Controls

Outcrops on the Maiden Creek property are composed of basically two rock types. A thick sequence of sandstone and conglomerate beds make up the largest portion of outcrop on the project area. Latite dykes on the Sabre grid, and a large latite dome on the Trac grid are the only other rock types in the area.

All of the outcrop samples studied were from sedimentary rocks.

Tills and colluvial material reflect these outcrop patterns, as the largest proportion of material in either medium is of sedimentary origin. Modern stream action would then further erode the outcrop and till/colluvial material.

Rare Earth Element Study

Rare earth element plots were developed using the INAA data from the heavy nonmagnetic fraction of the samples. Plots were developed separately for till/colluvium samples from each grid, stream samples and for outcrop samples. The detection limit for terbium (Tb) does not appear adequate for the plots, and should be ignored. If terbium is ignored all sampling media appear to have similar rare earth element patterns.

Conclusions

1) A fine and a coarse gold population of gold grains occurs in all sampling media, including the sedimentary outcrops.

2) Anomalous gold values in the Quaternary overburden are generally related to coarse, visible gold with a higher percentage of abraded grains.

3) The lack of chemical affinities, coupled with the above statement indicate that anomalous gold values in the overburden are likely related to mechanical reconcentration of gold.

4) Reproducibility and gold variability are a direct result of these gold controls.

5) Rare earth data indicate a similar source for all sample media.

6) MDN4T-101 collected on the top of the Sabre grid could warrant follow-up as it was the only sample with a high geochemical gold factor score. MDN4T-102 containing 216.94 ugms /5 kg gold was also collected from the top of the Sabre grid.

Ken Wasyliuk

Ken Wasyliuk
Geochemist/Geologist

Attachments

TABLE 1

MAIDEN CREEK – 1993 SAMPLING SUMMARY

Sample No.	V.G. Norm. (gr/5 kg)	Total ugm/5 kg (HNM + SRC)	pit sample ppb,–150m	BT split ppb,–150 m?	Teck ppb,–80 m
Stream silts					
269 HM–1	3.2	18.9		3	
269 HM–2	16.3	172.7		2	
269 HM–3	7.6	20.6		2	
269 HM–4	25.8	96.3		8	
Averages	13.2	77.1			
Outcrops					
269 93C–01	6.3	20.0		56	
269 93C–02	15.4	90.1		280	
269 93C–03	1.6	1.8		3	
269 93C–04	5.1	37.5		4	
269 93C–05	3.4	2.3		3	
269 93C–06	0.9	0.5		2	
269 93C–07	5.3	28.6		3	
269 93C–08	1.9	3.0		4	
Averages	5.0	23.0			
Tills					
269 93–01	7.1	21.7	62	8	0
269 93–02	5.2	2.1	12	13	475
269 93–03	6.2	20.6	75	2	0
269 93–04	5.3	22.9	15	8	?
269 93–05	12.3	31.2	21	5	400
269 93–06	28.9	59.6	10	6	45
269 93–07	16.5	10.7	6	2	0
269 93–08	17.1	63.6	4	230	0
269 93–09	8.4	13.9	6	3	0
269 93–10	17.7	19.4	5	6	210
269 93–11	8.5	18.5	4	2	0
269 93–12	7.2	4.6	2	2	0
269 93–13	6.6	8.2	3	3	?
269 93–14	10.0	37.5	2	3	?
269 93–15	19.4	61.3	3	180	150
269 93–16	27.9	116.0	4	320	110
269 93–17	13.1	15.5	3	72	140
269 93–18	4.2	2.3	9	6	0
269 93–19	3.6	12.6	1	49	0
269 93–20	25.7	176.1	38	190	500
269 93–21	7.1	41.4	126	5	0
269 93–22	11.0	52.7	7	5	685
269 93–23	7.2	51.5	1	5	1
Averages	12.0	37.6			

TABLE 2

MAIDEN CREEK - 1994 SAMPLING SUMMARY

Sample No.	V.G.Norm. (gr/5kg)	Total ugm/5kg (HNM+SRC)	BT split ppb,-150m
Till/Colluvium			
MDN4T-100	24.5	94.85	24
MDN4T-101	11.7	47.28	16
MDN4T-102	39.2	216.94	9
MDN4T-103	4.3	2.60	8
MDN4T-104	14.4	53.69	12
MDN4T-113	1.1	0.16	7
MDN4T-114	2.8	16.49	3
MDN4T-115	15.4	55.76	5
MDN4T-116	12.8	24.79	30
MDN4T-117	17.1	12.14	11
MDN4T-118	16.8	33.51	9
MDN4T-119	27.0	57.42	5
MDN4T-120	24.4	45.00	6
MDN4T-121	17.0	27.21	11
MDN4T-122	12.7	84.17	66
MDN4T-131	5.5	13.07	17
MDN4T-132	26.5	39.98	77
MDN4T-133	16.7	29.65	10
MDN4T-134	23.2	55.31	6
MDN4T-137	20.4	47.50	9
Averages	16.7	47.88	17

TABLE 3

Malden Creek Project - Averages for Au Values

Sample Medium	# of Samples	HNM Au (ugms)	Normalized Gold Grains	Calculated Au (ugms)	Total Au (ugms)	HNM Au Calc Au	% HNM Au	-150 mesh Au (ppb)	Visible Au Factor	HNM Au Factor
alluvium	1	21.7	16.7	7.1	29.7	2.7	73.2	10.0	0.212	1.422
colluvium	11	6.2	13.7	48.3	41.3	0.3	21.1	42.2	-0.105	-0.363
till/colluvium	6	3.8	12.4	57.5	43.6	0.2	12.5	7.8	0.142	-0.592
till	25	10.4	14.7	41.5	43.0	0.7	30.4	37.8	0.087	-0.044
Grid										
Maid	19	10.8	14.9	53.4	46.4	0.6	29.3	51.8	0.118	-0.080
Sabre	8	10.9	14.9	74.0	70.1	0.6	25.1	10.5	0.500	-0.015
Trac	20	6.4	13.0	43.7	34.3	0.5	24.6	20.7	-0.060	-0.267
Sample Type										
bulk	43	8.7	14.2	44.7	42.4	0.6	26.5	34.1	0.048	-0.168
outcrop	8	15.9	5.0	10.5	23.0	3.1	48.1	44.4	-0.631	0.870
stream	4	11.8	13.2	139.8	77.1	0.5	27.5	3.8	0.744	0.065
All Samples	55	10	12.8	46.6	42.1	0.9	29.7	33.4	0.000	0.000

Notes :
1) Fines : <5000 um2
2) Mids : >=5000m2, <10000 um2
3) Coarse : >=10000 um2
4) Total Au (ugms) in 5 kg sample
5) normalized gold grains in 5 kg sample

Sample Medium	Coarse Gold Factor	Geochemical Gold Factor	Au Grains Visible	Au Grains Fines	Au Grains Mids	Au Grains Coarse	%Fines	%Mids	%Coarse
alluvium	-0.793	-0.127	15.0	12.0	1.0	2.0	80.0	6.7	13.3
colluvium	0.574	-0.197	17.5	7.5	4.4	5.6	44.4	26.1	29.6
till/colluvium	-0.243	-0.039	17.7	11.2	2.0	4.5	60.0	9.1	30.8
till	-0.233	0.167	18.6	10.2	3.2	5.1	61.4	15.7	22.9
Grid									
Maid	0.072	-0.166	21.0	10.5	4.0	6.5	54.5	18.0	27.6
Sabre	0.231	1.052	17.9	6.9	3.0	8.0	51.0	13.2	35.8
Trac	-0.077	-0.157	17.5	10.3	3.5	3.7	58.9	20.0	21.1
Sample Type									
bulk	-0.041	0.038	18.1	9.7	3.3	5.1	57.3	17.2	25.5
outcrop	-0.211	-0.266	7.0	3.5	2.0	1.5	62.4	20.9	16.7
stream	0.864	0.121	28.3	10.8	6.8	10.8	39.7	26.5	33.8
All Samples	0.000	0.000	17.2	8.9	3.4	5.0	56.7	18.4	24.8

TABLE 4

Maiden Creek Project – Size Fraction Distributions

Sample	Year	Grid	Type	OB	Total Au (ugms)	Au Grains Total	Au Grains Fines	Au Grains Mids	Au Grains Coarse	%Fines	%Mids	%Coarse
269 93C-06	1993		outcrop		0.46	1	1	0	0	100.0	0.0	0.0
269 93C-03	1993		outcrop		1.80	3	2	0	1	66.7	0.0	33.3
269 93C-05	1993		outcrop		2.32	6	3	3	0	50.0	50.0	0.0
269 93C-08	1993		outcrop		3.00	3	3	0	0	100.0	0.0	0.0
269 93C-01	1993		outcrop		19.96	12	8	0	4	66.7	0.0	33.3
269 93C-07	1993		outcrop		28.58	7	4	1	2	57.1	14.3	28.6
269 93C-04	1993		outcrop		37.54	10	3	6	1	30.0	60.0	10.0
269 93C-02	1993		outcrop		90.07	14	4	6	4	28.6	42.9	28.6
MDN4T-113	1994	Maid	bulk	till	0.16	1	1	0	0	100.0	0.0	0.0
269 93-18	1993	Maid	bulk	till	2.26	6	5	1	0	83.3	16.7	0.0
269 93-13	1993	Maid	bulk	till	8.17	10	9	0	1	90.0	0.0	10.0
MDN4T-117	1994	Maid	bulk	till	12.14	20	19	1	0	95.0	5.0	0.0
269 93-19	1993	Maid	bulk	coll	12.62	5	0	2	3	0.0	40.0	60.0
269 93-17	1993	Maid	bulk	till	15.45	18	10	5	3	55.6	27.8	16.7
MDN4T-114	1994	Maid	bulk	till	16.49	3	1	0	2	33.3	0.0	66.7
MDN4T-116	1994	Maid	bulk	till	24.79	18	14	2	2	77.8	11.1	11.1
MDN4T-121	1994	Maid	bulk	till	27.21	24	15	5	4	62.5	20.8	16.7
MDN4T-118	1994	Maid	bulk	till	33.51	23	12	5	6	52.2	21.7	26.1
269 93-14	1993	Maid	bulk	coll	37.53	14	4	5	5	28.6	35.7	35.7
MDN4T-120	1994	Maid	bulk	till	45.00	31	20	3	8	64.5	9.7	25.8
MDN4T-115	1994	Maid	bulk	till	55.76	19	9	6	4	47.4	31.6	21.1
MDN4T-119	1994	Maid	bulk	till	57.42	27	15	6	6	55.6	22.2	22.2
269 93-15	1993	Maid	bulk	coll	61.26	24	8	7	9	33.3	29.2	37.5
MDN4T-122	1994	Maid	bulk	till	84.17	19	12	3	4	63.2	15.8	21.1
269 HM-04	1993	Maid	stream	coll	96.32	60	25	12	23	41.7	20.0	38.3
269 93-16	1993	Maid	bulk	till	116.05	39	16	5	18	41.0	12.8	46.2
269 93-20	1993	Maid	bulk	coll	176.11	38	4	8	26	10.5	21.1	68.4
MDN4T-103	1994	Sabre	bulk	till	2.60	5	5	0	0	100.0	0.0	0.0
269 93-21	1993	Sabre	bulk	t/c	41.40	11	6	1	4	54.5	9.1	36.4
MDN4T-101	1994	Sabre	bulk	till	47.28	9	4	1	4	44.4	11.1	44.4
269 93-23	1993	Sabre	bulk	t/c	51.53	10	5	0	5	50.0	0.0	50.0
269 93-22	1993	Sabre	bulk	t/c	52.66	17	6	4	7	35.3	23.5	41.2
MDN4T-104	1994	Sabre	bulk	till	53.69	16	11	2	3	68.8	12.5	18.8
MDN4T-100	1994	Sabre	bulk	till	94.85	24	9	8	7	37.5	33.3	29.2
MDN4T-102	1994	Sabre	bulk	till	216.94	51	9	8	34	17.6	15.7	66.7
269 93-02	1993	Trac	bulk	coll	2.11	6	6	0	0	100.0	0.0	0.0
269 93-12	1993	Trac	bulk	till	4.58	8	5	2	1	62.5	25.0	12.5
269 93-07	1993	Trac	bulk	coll	10.65	29	18	10	1	62.1	34.5	3.4
MDN4T-131	1994	Trac	bulk	t/c	13.07	7	5	0	2	71.4	0.0	28.6
269 93-09	1993	Trac	bulk	till	13.85	17	9	5	3	52.9	29.4	17.6
269 93-11	1993	Trac	bulk	till	18.51	12	7	3	2	58.3	25.0	16.7
269 HM-01	1993	Trac	stream		18.86	9	4	2	3	44.4	22.2	33.3
269 93-10	1993	Trac	bulk	coll	19.42	25	17	5	3	68.0	20.0	12.0
269 HM-03	1993	Trac	stream		20.57	11	5	4	2	45.5	36.4	18.2
269 93-03	1993	Trac	bulk	coll	20.62	8	1	5	2	12.5	62.5	25.0
269 93-01	1993	Trac	bulk	till	21.75	8	4	1	3	50.0	12.5	37.5
269 93-04	1993	Trac	bulk	coll	22.90	9	6	1	2	66.7	11.1	22.2
MDN4T-133	1994	Trac	bulk	allv	29.65	15	12	1	2	80.0	6.7	13.3
269 93-05	1993	Trac	bulk	coll	31.16	21	11	2	8	52.4	9.5	38.1
MDN4T-132	1994	Trac	bulk	till	39.98	31	22	2	7	71.0	6.5	22.6
MDN4T-137	1994	Trac	bulk	t/c	47.50	29	25	1	3	86.2	3.4	10.3
MDN4T-134	1994	Trac	bulk	t/c	55.31	32	20	6	6	62.5	18.8	18.8
269 93-06	1993	Trac	bulk	coll	59.62	13	7	3	3	53.8	23.1	23.1
269 93-08	1993	Trac	bulk	till	63.57	26	13	7	6	50.0	26.9	23.1
269 HM-02	1993	Trac	stream		172.75	33	9	9	15	27.3	27.3	45.5
Averages												
All Samples					42.06	17.2	8.9	3.4	5.0	56.7	18.4	24.8
Grids												
Maid Grid					46.44	21.0	10.5	4.0	6.5	54.5	18.0	27.6
Sabre Grid					70.12	17.9	6.9	3.0	8.0	51.0	13.2	35.8
Trac Grid					34.32	17.5	10.3	3.5	3.7	58.9	20.0	21.1
Sample Type												
bulk samples					42.36	18.1	9.7	3.3	5.1	57.3	17.2	25.5
outcrop samples					22.97	7.0	3.5	2.0	1.5	62.4	20.9	16.7
stream samples					77.12	28.3	10.8	6.8	10.8	39.7	26.5	33.8
Sample Medium												
alluvium					29.65	15.0	12.0	1.0	2.0	80.0	6.7	13.3
colluvium					41.27	21.0	8.9	5.0	7.1	44.1	25.6	30.3
till/colluvium					43.58	17.7	11.2	2.0	4.5	60.0	9.1	30.8
till					43.05	18.6	10.2	3.2	5.1	61.4	15.7	22.9

Notes : 1) Fines : <5000 um2

2) Mids : >=5000m2, <10000 um2

3) Coarse : >=10000 um2

TABLE 5

Maiden Creek Project - Shape Distributions

Average by Grid

	% irregular gold grains	# irregular gold grains	# abraded gold grains	irregular abraded
All Samples				
Maid	46.6	9.3	11.7	1.9
Sabre	39.8	6.9	11.0	0.8
Trac	42.0	6.4	11.1	1.1
>= 40 ugms/5kg				
Maid	45.9	15.0	17.1	1.8
Sabre	36.9	7.4	12.3	0.7
Trac	31.8	8.4	18.2	0.5
>=60 ugms/5kg				
Maid	35.8	13.8	22.2	0.7
Sabre	38.5	14.0	23.5	0.6
Trac	26.4	7.5	22.0	0.4

Average by Sample Media

All Samples				
colluvium	49.0	7.1	10.4	1.6
outcrop	35.2	2.3	4.8	1.1
stream	27.4	8.8	19.5	0.4
till	42.3	7.7	10.9	1.5
>= 40 ugms/5kg				
colluvium	34.3	8.3	16.7	0.5
outcrop	28.6	4.0	10.0	0.4
stream	29.1	15.0	31.5	0.4
till	41.0	11.9	14.2	1.5
>=60 ugms/5kg				
colluvium	36.1	10.5	20.5	0.6
outcrop	28.6	4.0	10.0	0.4
stream	29.1	15.0	31.5	0.4
till	35.7	12.2	19.6	0.6

TABLE 6

Maiden Creek Project – Gold Statistics Summary

Sample	Grid	Sample Medium	Sample Type	Normalized Au grains	Total Au (ugms)	Visible Au Factor	HNM Au Factor	Coarse Gold Factor	Geochemical Gold Factor(1)	Geochemical Gold Factor(2)
269 93C-06		outcrop	outcrop	0.9	0.46	-0.908	-0.862	-1.874	-0.554	0.411
269 93C-03		outcrop	outcrop	1.6	1.80	-1.067	-0.512	-0.225	-0.27	0.459
269 93C-05		outcrop	outcrop	3.4	2.32	-0.848	-0.601	-0.016	-0.134	-0.152
269 93C-08		outcrop	outcrop	1.9	3.00	-0.129	3.305	-1.535	-0.294	-0.426
269 93C-01		outcrop	outcrop	6.3	19.96	-0.702	-0.988	-0.148	-0.299	-0.99
269 93C-07		outcrop	outcrop	5.3	28.58	-0.575	1.271	0.336	-0.149	-0.883
269 93C-04		outcrop	outcrop	5.1	37.54	-0.622	2.597	1.028	-0.258	-0.676
269 93C-02		outcrop	outcrop	15.4	90.07	-0.2	2.732	0.75	-0.172	-1.142
MDN4T-113	Maid	till	bulk	1.1	0.16	-0.639	-0.501	-1.366	-0.095	-1.503
269 93-18	Maid	till	bulk	4.2	2.26	-0.701	-0.352	-0.848	-0.539	0.42
269 93-13	Maid	till	bulk	6.6	8.17	-0.465	0.068	-1.245	0.341	-1.077
MDN4T-117	Maid	till	bulk	17.1	12.14	-0.022	0.547	-1.293	-0.217	-0.367
269 93-19	Maid	coll	bulk	3.6	12.62	-1.395	-0.822	2.855	-0.06	-0.184
269 93-17	Maid	till	bulk	13.1	15.45	-0.491	-0.785	-0.288	-0.373	0.42
MDN4T-114	Maid	till	bulk	2.8	16.49	-1.201	-0.549	1.058	-0.302	0.115
MDN4T-116	Maid	till	bulk	12.8	24.79	-0.095	-1.03	-1.048	-0.365	0.157
MDN4T-121	Maid	till	bulk	17.0	27.21	0.046	0.57	-0.613	-0.35	1.089
MDN4T-118	Maid	till	bulk	16.8	33.51	-0.102	0.63	0.416	-0.372	0.388
269 93-14	Maid	coll	bulk	10.0	37.53	-0.408	-0.53	1.311	-0.572	0.795
MDN4T-120	Maid	till	bulk	24.4	45.00	0.642	0.619	0.099	0.612	4.494
MDN4T-115	Maid	till	bulk	15.4	55.76	0.099	2.017	0.697	-0.163	0.432
MDN4T-119	Maid	till	bulk	27.0	57.42	0.816	0.551	-0.183	-0.077	0.603
269 93-15	Maid	coll	bulk	19.4	61.26	0.022	-0.335	0.781	0.341	0.048
MDN4T-122	Maid	till	bulk	12.7	84.17	0.631	-0.238	-0.497	-0.343	0.585
269 HM-04	Maid	stream	stream	25.8	96.32	1.867	-0.21	0.602	-0.191	-2.279
269 93-16	Maid	till	bulk	27.9	116.05	1.234	-0.327	-0.078	-0.13	0.399
269 93-20	Maid	coll	bulk	25.7	176.11	2.41	-0.834	1.011	-0.302	0.431
MDN4T-103	Sabre	till	bulk	4.3	2.60	-0.49	0.603	-1.595	-0.038	-1.135
269 93-21	Sabre	t/c	bulk	7.1	41.40	-0.122	-0.697	-0.245	0.573	0.657
MDN4T-101	Sabre	till	bulk	11.7	47.28	-0.407	-0.772	0.802	6.963	0.017
269 93-23	Sabre	t/c	bulk	7.2	51.53	-0.048	-0.642	0.475	0.121	0.523
269 93-22	Sabre	t/c	bulk	11.0	52.66	-0.058	-0.471	1.228	0.371	0.192
MDN4T-104	Sabre	till	bulk	14.4	53.69	0.144	1.631	0.009	-0.09	-0.958
MDN4T-100	Sabre	till	bulk	24.5	94.85	0.977	0.627	0.575	0.332	-2.423
MDN4T-102	Sabre	till	bulk	39.2	216.94	4.003	-0.399	0.601	0.187	0.436
269 93-02	Trac	coll	bulk	5.2	2.11	-0.437	0.185	-1.515	-0.308	0.765
269 93-12	Trac	till	bulk	7.2	4.58	-0.775	-0.88	-0.095	-0.327	0.276
269 93-07	Trac	coll	bulk	16.5	10.65	-0.208	-0.664	-0.685	-0.279	0.361
MDN4T-131	Trac	t/c	bulk	5.5	13.07	-0.644	-0.094	-0.377	-0.39	0.22
269 93-09	Trac	till	bulk	8.4	13.85	-0.635	0.135	-0.021	0.196	-0.118
269 93-11	Trac	till	bulk	8.5	18.51	-0.631	-0.545	0.364	-0.134	-0.159
269 HM-01	Trac	stream	stream	3.2	18.88	-0.821	-0.138	0.751	0.416	0.231
269 93-10	Trac	coll	bulk	17.7	19.42	-0.042	-0.444	-0.395	-0.128	0.227
269 HM-03	Trac	stream	stream	7.6	20.57	-0.831	0.639	1.021	0.01	-0.718
269 93-03	Trac	coll	bulk	6.2	20.62	-1.178	-0.305	2.676	-0.265	0.342
269 93-01	Trac	till	bulk	7.1	21.75	-0.806	-0.705	0.519	-0.144	0.383
269 93-04	Trac	coll	bulk	5.3	22.90	-0.419	-0.518	-0.09	-0.288	0.268
MDN4T-133	Trac	allv	bulk	16.7	29.65	0.212	1.422	-0.793	-0.127	0.615
269 93-05	Trac	coll	bulk	12.3	31.16	-0.185	-0.576	0.413	-0.149	0.219
MDN4T-132	Trac	till	bulk	26.5	39.98	0.564	-0.952	-1.145	-0.154	-0.018
MDN4T-137	Trac	t/c	bulk	20.4	47.50	0.797	-0.851	-1.555	-0.963	0.299
MDN4T-134	Trac	t/c	bulk	23.2	55.31	0.925	-0.796	-0.983	0.054	-1.668
269 93-06	Trac	coll	bulk	28.9	59.62	0.684	0.655	-0.053	-0.161	0.883
269 93-08	Trac	till	bulk	17.1	63.57	0.273	-1.067	-0.657	-0.238	0.245
269 HM-02	Trac	stream	stream	16.3	172.75	2.759	-0.034	1.083	0.247	-1.529
Averages										
All Samples				12.8	42.06	0.000	0.000	0.000	0.000	0.000
Grid										
Maid				14.9	46.44	0.118	-0.080	0.072	-0.166	0.261
Sabre				14.9	70.12	0.500	-0.015	0.231	1.052	-0.336
Trac				13.0	34.32	-0.060	-0.267	-0.077	-0.157	0.056
Sample Type										
bulk				14.2	42.36	0.048	-0.168	-0.041	0.038	0.179
outcrop				5.0	22.97	-0.631	0.870	-0.211	-0.266	-0.425
stream				13.2	77.12	0.744	0.065	0.864	0.121	-1.074
Sample Medium										
alluvium				16.7	29.65	0.212	1.422	-0.793	-0.127	0.615
colluvium				13.7	41.27	-0.105	-0.363	0.574	-0.197	0.378
till/colluvium				12.4	43.58	0.142	-0.592	-0.243	-0.039	0.037
till				14.7	43.05	0.087	-0.044	-0.233	0.167	0.108

APPENDIX I

MAIDEN CREEK PROJECT – SIZE AND SHAPE DISTRIBUTION
(project/maiden/geochem/93nutron)

Sample No.	V.G. Norm. (gr/5 kg)	# +100 micron	# –100 micron	% +100 micron	% –100 micron	# Irreg. grains	# I/A & A grains	% Irreg grains	Grid	B type	pit sample ppb,–150m	BT split ppb,–150 m?	Teck ppb,–80 m
Stream silts													
269 HM–1	3	5	4	55.6	44.4	3	6	33.3	Trac			3	
269 HM–2	16	25	8	75.8	24.2	6	27	18.2	Trac			2	
269 HM–3	8	7	4	63.6	36.4	2	9	18.2	Trac			2	
269 HM–4	26	39	21	65.0	35.0	24	36	40.0	Maid	coll		8	
Averages	13			65.0	35.0			27.4					
Outcrops													
269 93C–01	6	5	7	41.7	58.3	2	10	16.7				56	
269 93C–02	15	8	6	57.1	42.9	4	10	28.6				280	
269 93C–03	2	1	2	33.3	66.7	1	2	33.3				3	
269 93C–04	5	6	4	60.0	40.0	1	9	10.0				4	
269 93C–05	3	2	4	33.3	66.7	5	1	83.3				3	
269 93C–06	1	0	1	0.0	100.0	0	1	0.0				2	
269 93C–07	5	3	4	42.9	57.1	3	4	42.9				3	
269 93C–08	2	0	3	0.0	100.0	2	1	66.7				4	
Averages	5.0			33.5	66.5			35.2					
Tills													
269 93–01	7	4	4	50.0	50.0	5	3	62.5	Trac	till	62	8	0
269 93–02	5	0	6	0.0	100.0	5	1	83.3	Trac	coll	12	13	475
269 93–03	6	8	0	100.0	0.0	3	5	37.5	Trac	coll	75	2	0
269 93–04	5	3	6	33.3	66.7	7	2	77.8	Trac	coll	15	8	?
269 93–05	12	11	10	52.4	47.6	9	12	42.9	Trac	coll	21	5	400
269 93–06	29	6	7	46.2	53.8	4	9	30.8	Trac	coll	10	6	45
269 93–07	16	9	20	31.0	69.0	8	21	27.6	Trac	coll	6	2	0
269 93–08	17	10	16	38.5	61.5	9	17	34.6	Trac	till	4	230	0
269 93–09	8	7	10	41.2	58.8	4	13	23.5	Trac	till	6	3	0
269 93–10	18	9	16	36.0	64.0	11	14	44.0	Trac	coll	5	6	210
269 93–11	8	6	6	50.0	50.0	4	8	33.3	Trac	till	4	2	0
269 93–12	7	3	5	37.5	62.5	4	4	50.0	Trac	till	2	2	0
269 93–13	7	1	9	10.0	90.0	5	5	50.0	Maid	till	3	3	?
269 93–14	10	10	4	71.4	28.6	6	8	42.9	Maid	coll	2	3	?

MAIDEN CREEK PROJECT – SIZE AND SHAPE DISTRIBUTION

(project/maiden/geochem/93nutron)

Sample No.	V.G. Norm. (gr/5 kg)	# +100 micron	# –100 micron	% +100 micron	% –100 micron	# Irreg. grains	# I/A & A grains	% Irreg grains	Grid	B type	pit sample ppb,–150m	BT split ppb,–150 m?	Teck ppb,–80 m
269 93–15	19	16	8	66.7	33.3	11	13	45.8	Maid	coll	3	180	150
269 93–16	28	21	18	53.8	46.2	22	17	56.4	Maid	till	4	320	110
269 93–17	13	7	11	38.9	61.1	7	11	38.9	Maid	till	3	72	140
269 93–18	4	1	5	16.7	83.3	4	2	66.7	Maid	till	9	6	0
269 93–19	4	5	0	100.0	0.0	4	1	80.0	Maid	coll	1	49	0
269 93–20	26	32	6	84.2	15.8	10	28	26.3	Maid	coll	38	190	500
269 93–21	7	4	7	36.4	63.6	4	7	36.4	Saber	t/c	126	5	0
269 93–22	11	12	5	70.6	29.4	7	10	41.2	Saber	t/c	7	5	685
269 93–23	7	5	5	50.0	50.0	6	4	60.0	Saber	t/c	1	5	1
Averages	12			48.5	51.5			47.5					

notes:

1) OB type based on airphoto interpretation in Teck's files
2) +100 micron means one dimention of grain >100 microns
3) grains are actual not normalized
4) pit sample is soil sample from the BT pit; –150 mest, ACME
5) BT split is SRC split from BT prior to screening and tabling; –150 mesh, ACME
6) Teck result, –80 mesh, Chemex

MAIDEN CREEK PROJECT – SIZE AND SHAPE DISTRIBUTION
1994 SAMPLES

Sample No.	V.G.Norm. (gr/5kg)	# +100 micron	# -100 micron	% +100 micron	% -100 micron	# Irreg. grains	# Abraded grains	% Irreg. grains	Grid	B type	BT split ppb,-150m
Till/Colluvium											
MDN4T-100	24.5	14	10	58.3	41.7	10	14	41.7	Sabre	till	24
MDN4T-101	11.7	6	3	66.7	33.3	0	9	0.0	Sabre	till	16
MDN4T-102	39.2	39	12	76.5	23.5	18	33	35.3	Sabre	till	9
MDN4T-103	4.3	0	5	0.0	100.0	3	2	60.0	Sabre	till	8
MDN4T-104	14.4	6	10	37.5	62.5	7	9	43.8	Sabre	till	12
MDN4T-113	1.1	0	1	0.0	100.0	1		100.0	Maid	till	7
MDN4T-114	2.8	2	1	66.7	33.3	0	3	0.0	Maid	till	3
MDN4T-115	15.4	10	9	52.6	47.4	8	11	42.1	Maid	till	5
MDN4T-116	12.8	4	14	22.2	77.8	6	12	33.3	Maid	till	30
MDN4T-117	17.1	3	17	15.0	85.0	7	13	35.0	Maid	till	11
MDN4T-118	16.8	12	11	52.2	47.8	8	15	34.8	Maid	till	9
MDN4T-119	27.0	11	16	40.7	59.3	15	12	55.6	Maid	till	5
MDN4T-120	24.4	13	18	41.9	58.1	28	3	90.3	Maid	till	6
MDN4T-121	17.0	7	17	29.2	70.8	9	15	37.5	Maid	till	11
MDN4T-122	12.7	7	12	36.8	63.2	2	17	10.5	Maid	till	66
MDN4T-131	5.5	2	5	28.6	71.4	4	3	57.1	Trac	t/c	17
MDN4T-132	26.5	9	22	29.0	71.0	7	24	22.6	Trac	till	77
MDN4T-133	16.7	3	12	20.0	80.0	10	5	66.7	Trac	allv	10
MDN4T-134	23.2	9	23	28.1	71.9	12	20	37.5	Trac	t/c	6
MDN4T-137	20.4	4	25	13.8	86.2	11	18	37.9	Trac	t/c	9

Maiden Creek Project - Summary Statistics - Gold Grain Size

All Gold Grains

	Area	Length	Width
Number of Samples	947	947	947
Minimum	400	20	20
Maximum	176800	520	340
Mean	10599.36	105.153	71.763
Standard Deviation	16400.27	72.026	48.3
Median	4800	80	60

Alluvium Gold Grains

	Area	Length	Width
Number of Samples	15	15	15
Minimum	400	20	20
Maximum	16000	160	100
Mean	3093.333	53.333	40
Standard Deviation	4491.177	39.761	28.284
Median	800	40	20

Bulk Sample Gold Grains

	Area	Length	Width
Number of Samples	778	778	778
Minimum	400	20	20
Maximum	160000	500	320
Mean	9990.231	102.082	69.846
Standard Deviation	15092.51	69.95	46.931
Median	4800	80	60

Maid Grid Gold Grains

Number of Samples	399	399	399
Minimum	400	20	20
Maximum	160000	500	320
Mean	10371.93	107.82	71.178
Standard Deviation	15057.75	69.217	45.549
Median	6000	100	60

Colluvium Gold Grains

Number of Samples	252	252	252
Minimum	400	20	20
Maximum	160000	500	320
Mean	11738.09	115.317	77.46
Standard Deviation	15985.27	66.885	46.69
Median	7200	100	60

Outcrop Gold Grains

Number of Samples	56	56	56
Minimum	400	20	20
Maximum	61200	340	180
Mean	7707.143	91.786	65.714
Standard Deviation	9497.174	53.227	36.325
Median	5400	80	60

Sabre Grid Gold Grains

Number of Samples	143	143	143
Minimum	400	20	20
Maximum	105600	440	240
Mean	15353.84	131.189	89.091
Standard Deviation	17874.36	78.637	53.693
Median	8000	120	80

Till/Colluvium Gold Grains

Number of Samples	106	106	106
Minimum	400	20	20
Maximum	96000	400	300
Mean	11324.52	96.792	70.189
Standard Deviation	19103.91	84.544	58.7
Median	2800	60	40

Stream Sediment Gold Grains

Number of Samples	113	113	113
Minimum	400	20	20
Maximum	176800	520	340
Mean	16226.54	132.92	87.965
Standard Deviation	24669.29	86.887	58.891
Median	8000	120	80

Trac Grid Gold Grains

Number of Samples	349	349	349
Minimum	400	20	20
Maximum	176800	520	340
Mean	9375.358	93.582	66.304
Standard Deviation	17749.08	72.127	49.239
Median	4000	80	60

Till Gold Grains

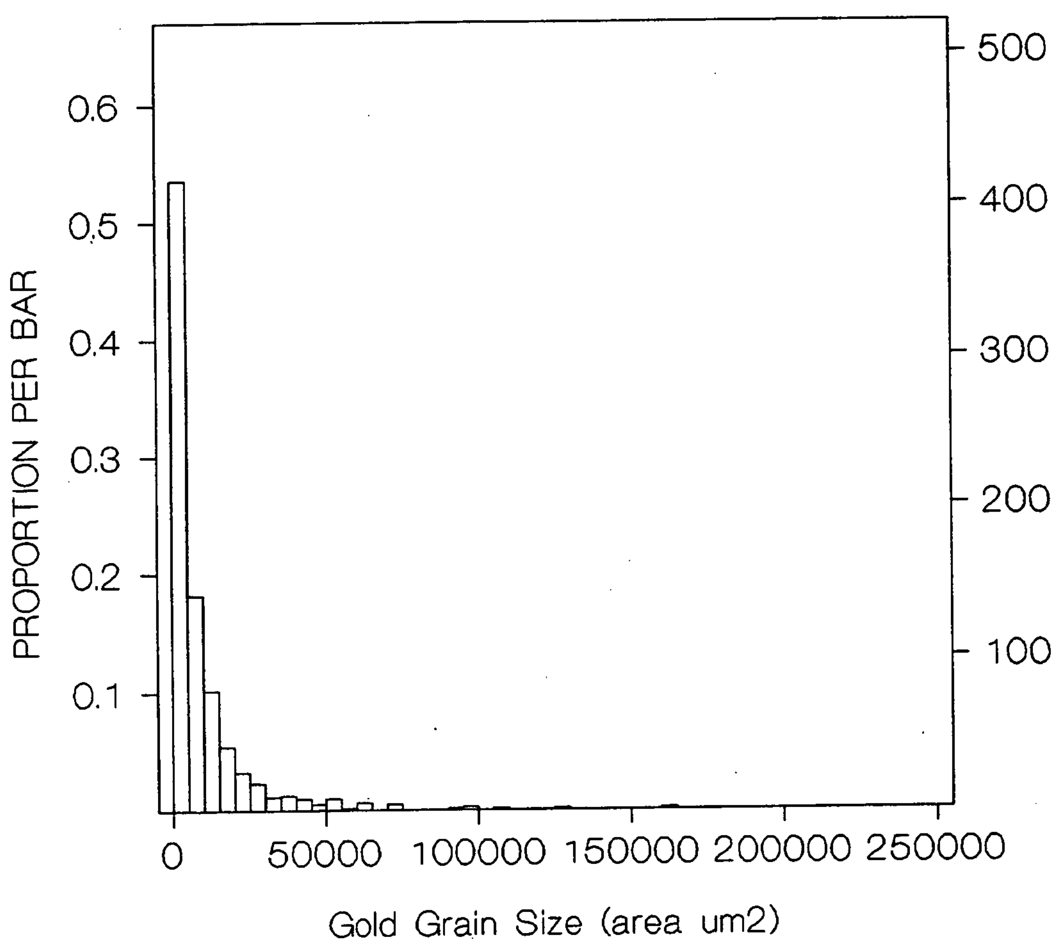
Number of Samples	465	465	465
Minimum	400	20	20
Maximum	128000	440	320
Mean	9376.344	100.43	68.215
Standard Deviation	13656.78	67.542	44.784
Median	4800	80	60

Maiden Creek Project – Size and Shape Distributions

Grid	# of Samples	Total Au Grain	Au Grains <5000 (um2)	Au Grains >10000 (um2)	Au Grains >50000 (um2)	Au Grains Abraded	Au Grain Irregular	<5000 samples	>10000 samples	>50000 samples	abraded samples	irregular samples	<5000 total	>10000 total	>50000 total	abraded total	irregular total
Maid	19	399	199	120	10	204	195	10.47	6.32	0.53	10.74	10.26	0.50	0.30	0.03	0.51	0.49
Sabre	8	143	55	64	10	85	58	6.88	8.00	1.25	10.63	7.25	0.38	0.45	0.07	0.59	0.41
Trac	20	349	206	70	12	204	145	10.30	3.50	0.60	10.20	7.25	0.59	0.20	0.03	0.58	0.42
Sample Type																	
Outcrop	8	56	28	11	1	32	24	3.50	1.38	0.13	4.00	3.00	0.50	0.20	0.02	0.57	0.43
Bulk	43	778	417	211	24	422	356	9.70	4.91	0.56	9.81	8.28	0.54	0.27	0.03	0.54	0.46
Stream	4	113	43	43	8	71	42	10.75	10.75	2.00	17.75	10.50	0.38	0.38	0.07	0.63	0.37
Medium																	
Till	25	465	256	123	12	271	194	10.24	4.92	0.48	10.84	7.76	0.55	0.26	0.03	0.58	0.42
Colluvium	12	252	107	83	8	118	134	8.92	6.92	0.67	9.83	11.17	0.42	0.33	0.03	0.47	0.53
Alluvium	1	15	12	1	0	5	10	12.00	1.00	0.00	5.00	10.00	0.80	0.07	0.00	0.33	0.67
Till/Colluvium	6	106	67	27	7	59	47	11.17	4.50	1.17	9.83	7.83	0.63	0.25	0.07	0.56	0.44

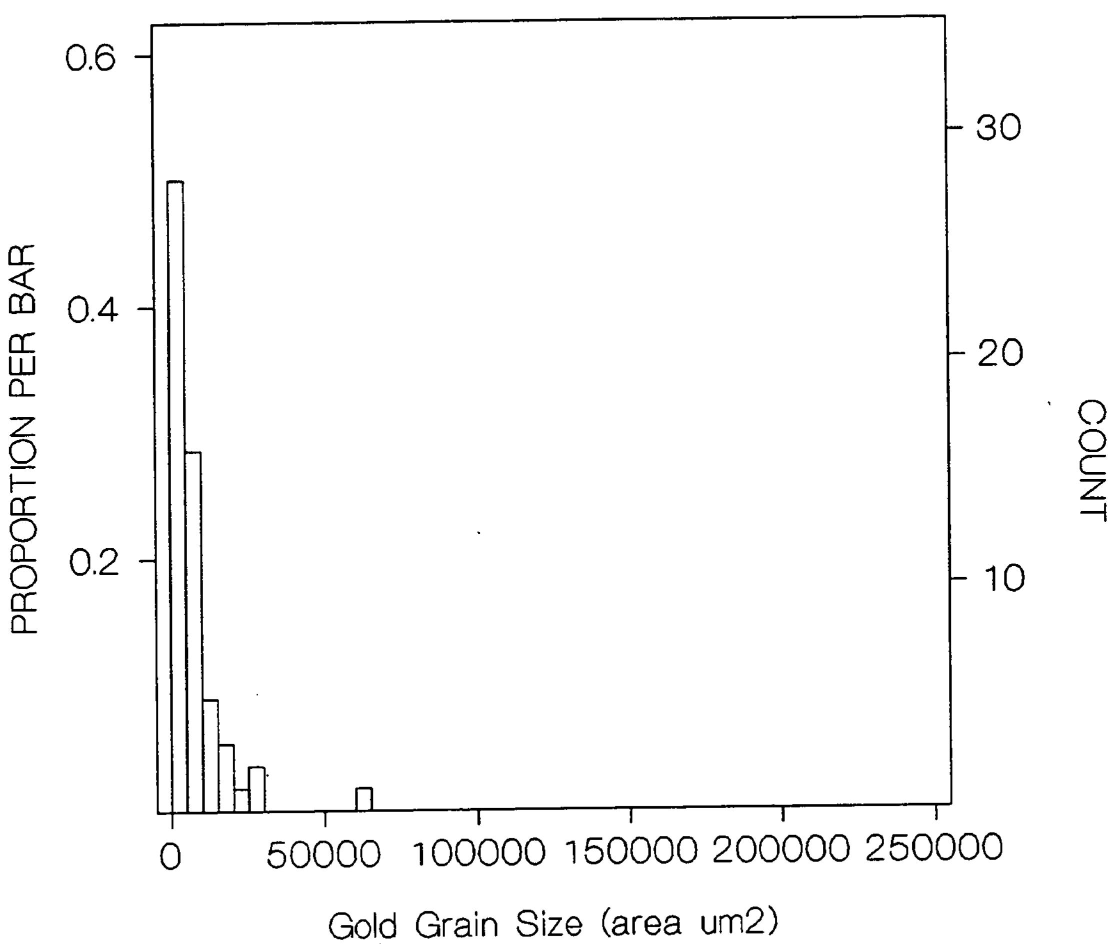
Maiden Creek Project - Histograms

BULK TILL/COLLUVIUM SAMPLES



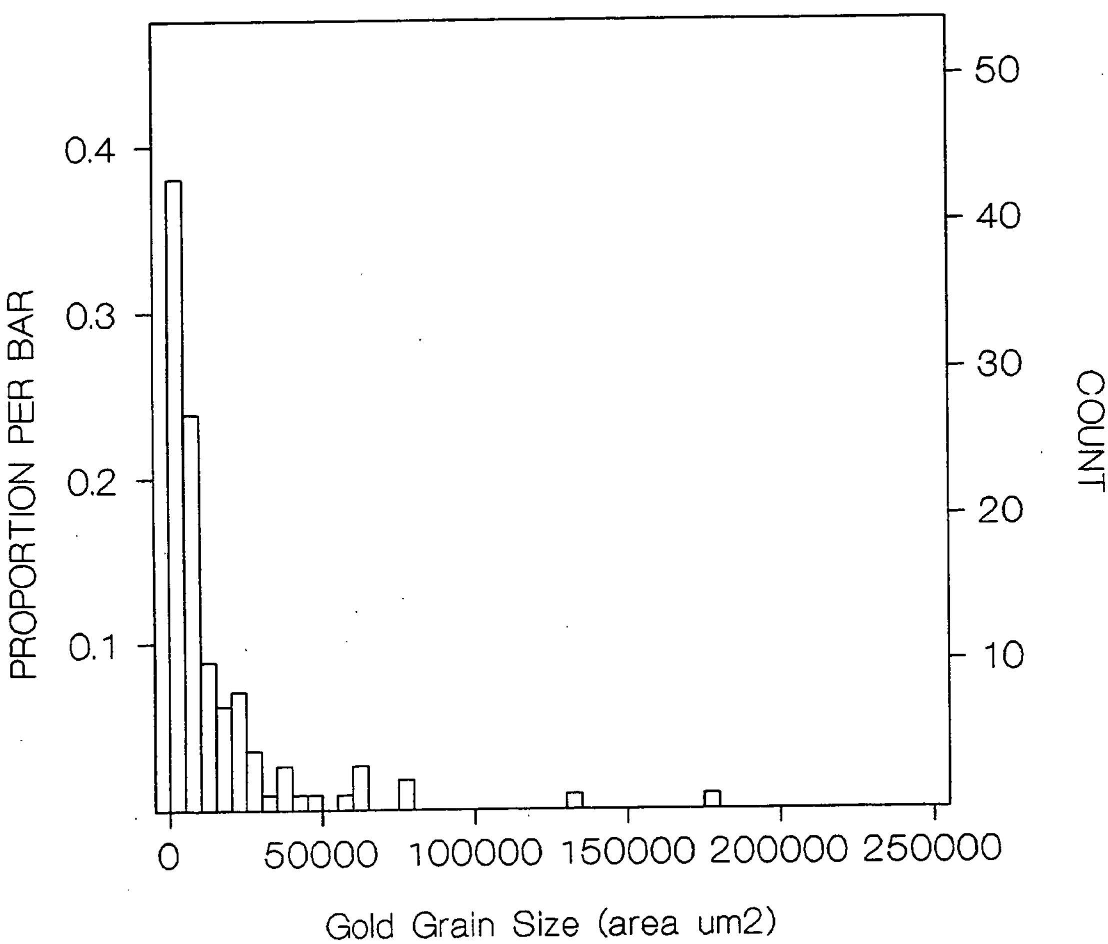
Maiden Creek Project - Histograms

OUTCROP SAMPLES



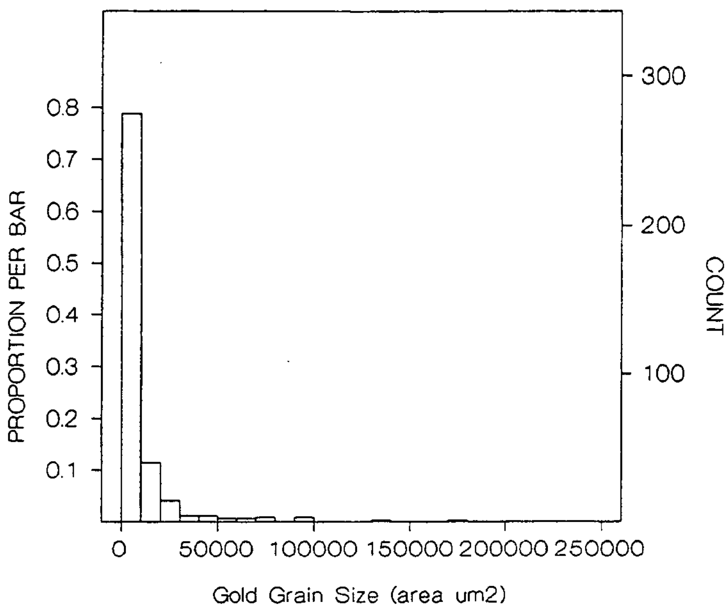
Maiden Creek Project - Histograms

STREAM SEDIMENT SAMPLES

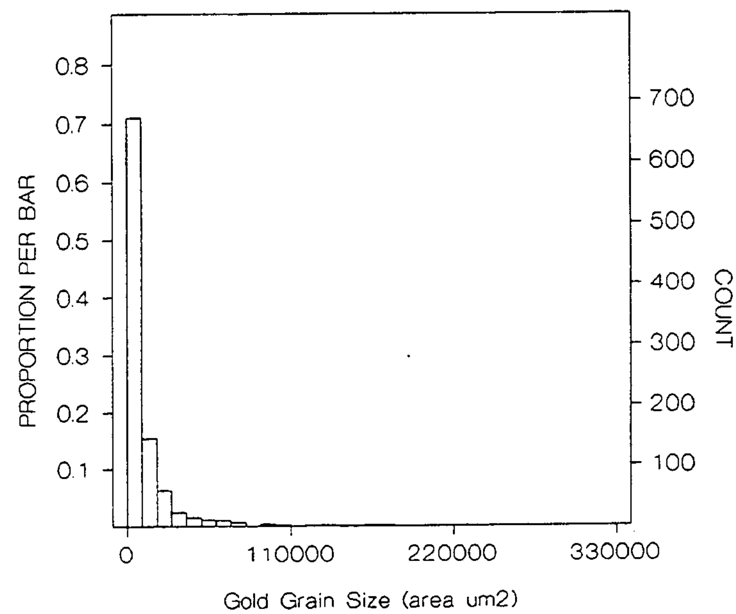


Maiden Creek Project - Histograms

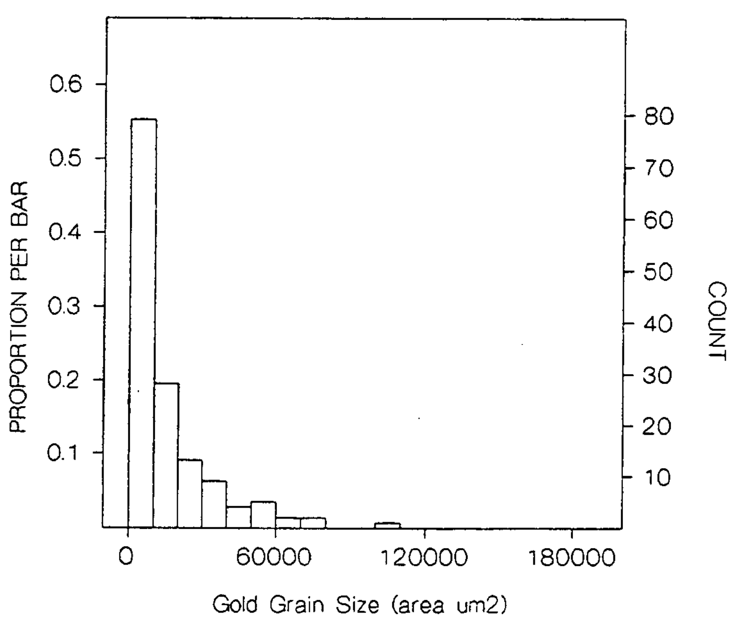
TRAC GRID



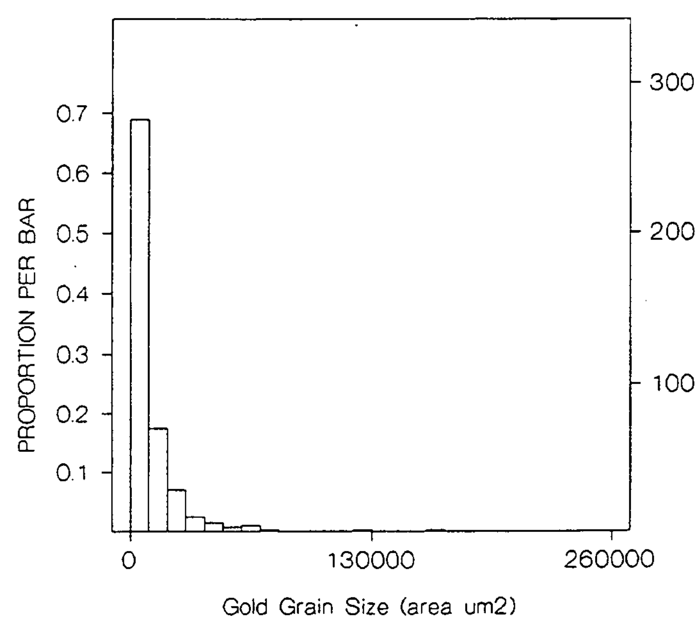
ALL SAMPLES



SABRE GRID



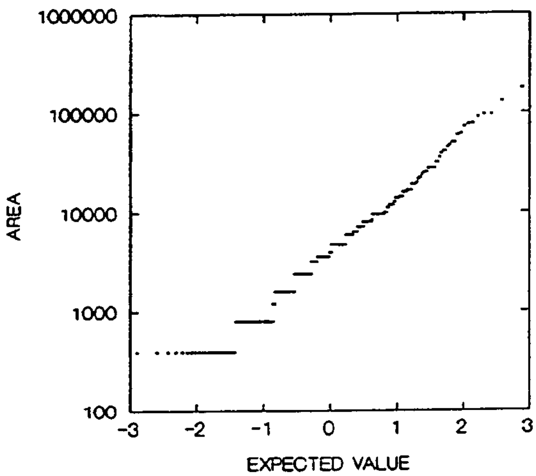
MAID GRID



MAIDEN CREEK PROJECT

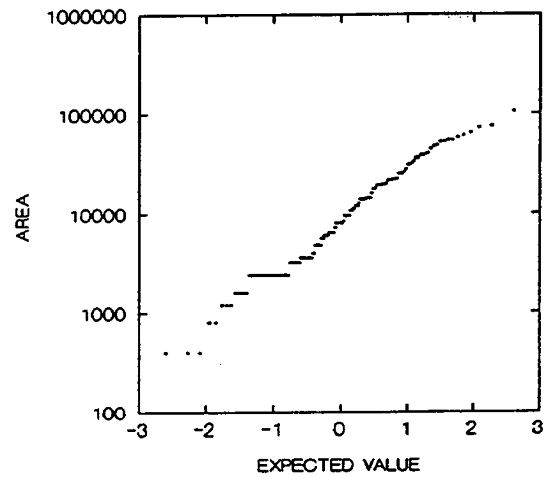
Maiden Creek Project - Probability Plots - Grids

TRAC GRID



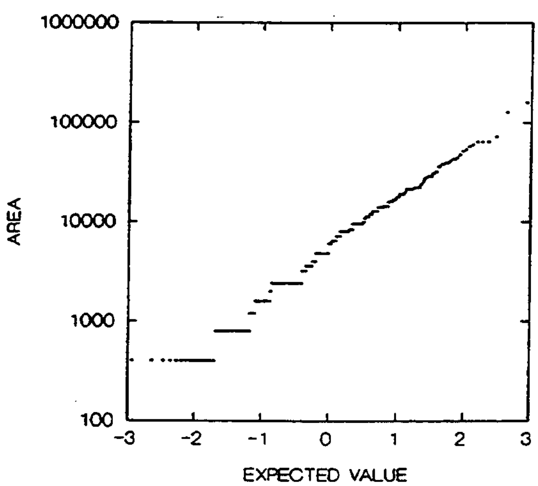
Maiden Creek Project - Probability Plots - Grids

SABRE GRID



Maiden Creek Project - Probability Plots - Grids

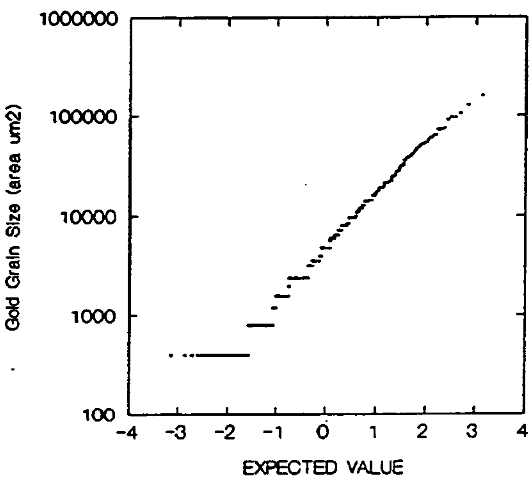
MAID GRID



MAIDEN CREEK PROJECT

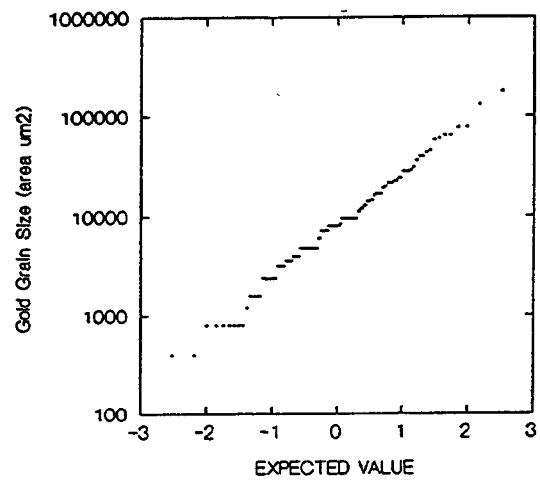
Maiden Creek Project - Probability Plots

BULK SAMPLES



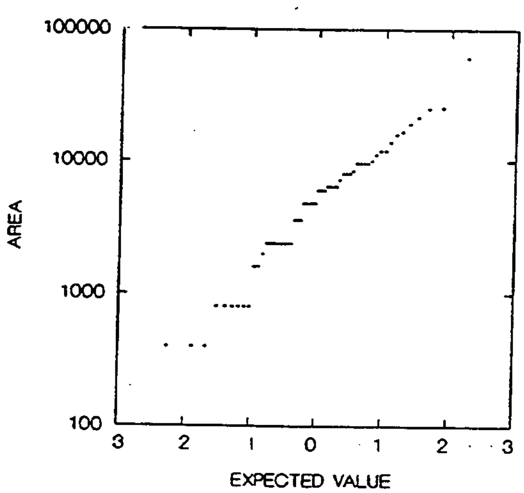
Maiden Creek Project - Probability Plots

STREAM SEDIMENT SAMPLES

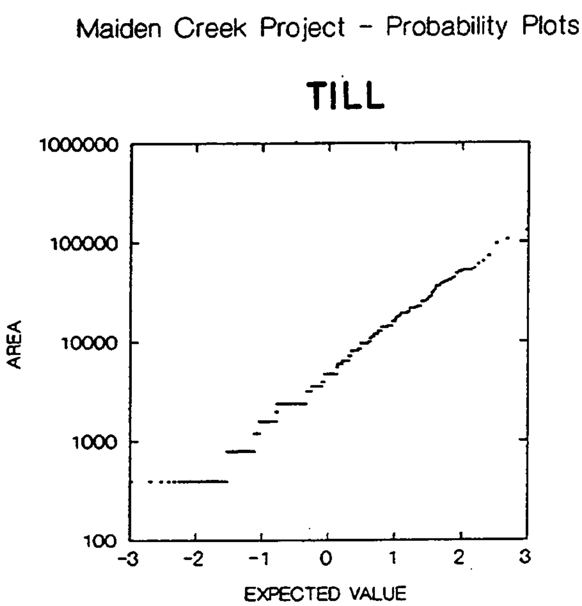


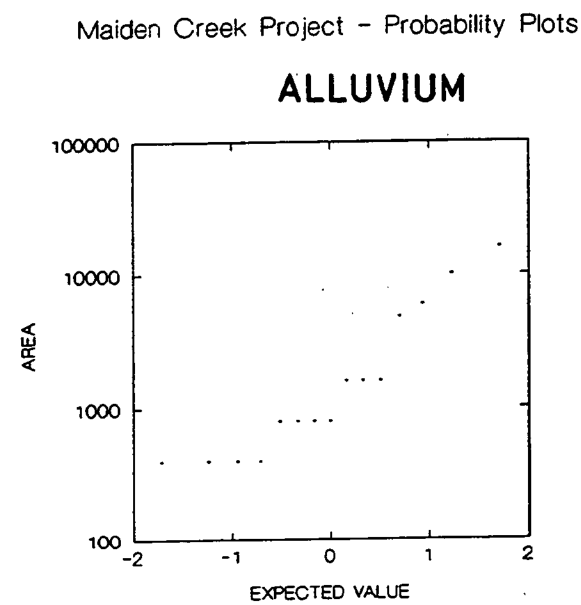
Maiden Creek Project - Probability Plots - Grids

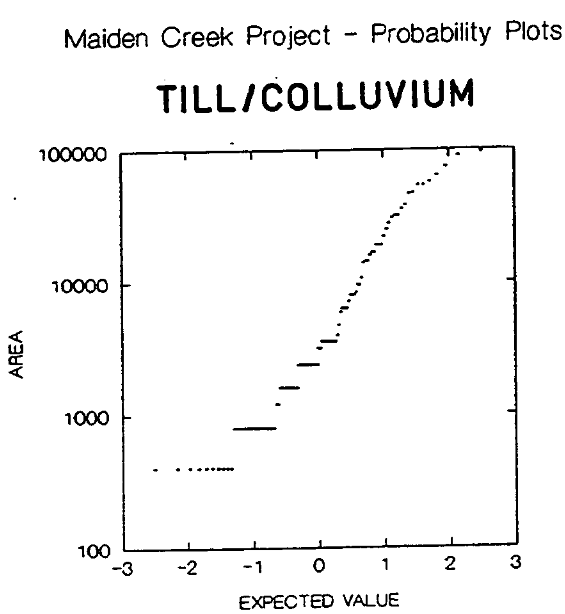
OUTCROP SAMPLES

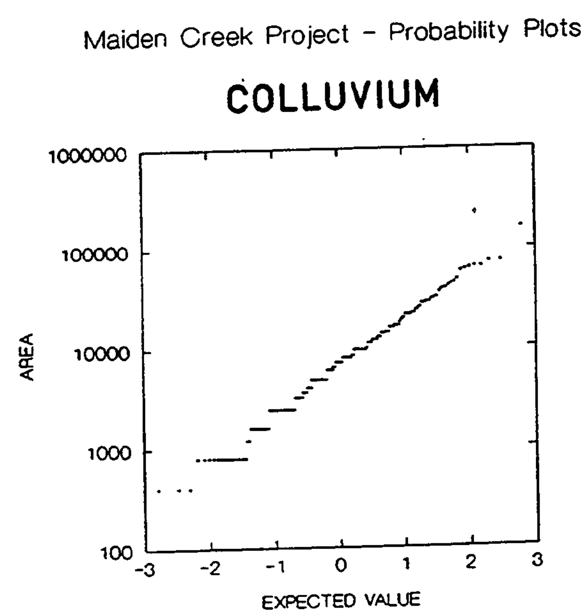


MAIDEN CREEK PROJECT



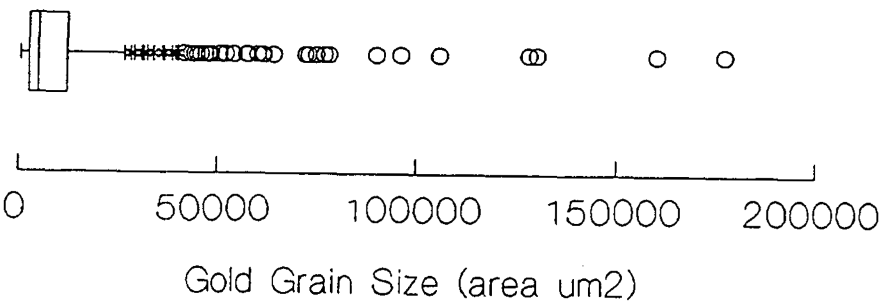




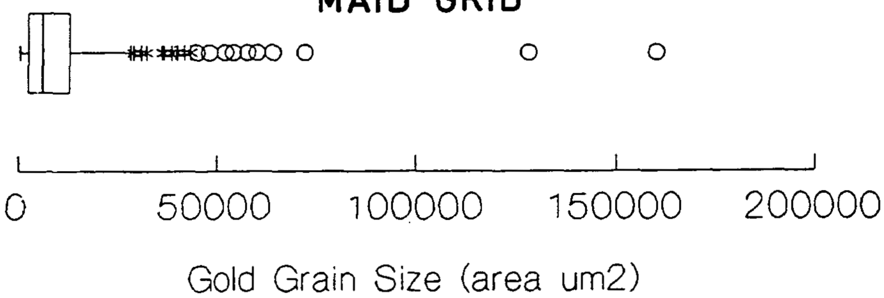


Maiden Creek Project - Box Plots

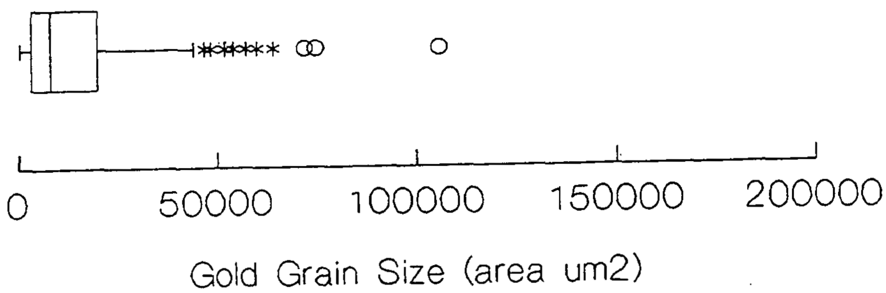
ALL SAMPLES



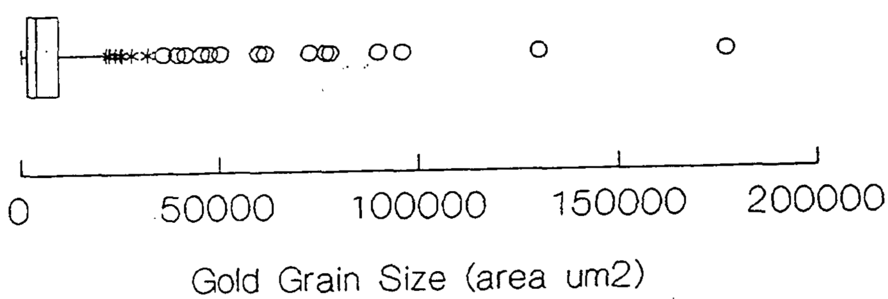
MAID GRID



SABRE GRID

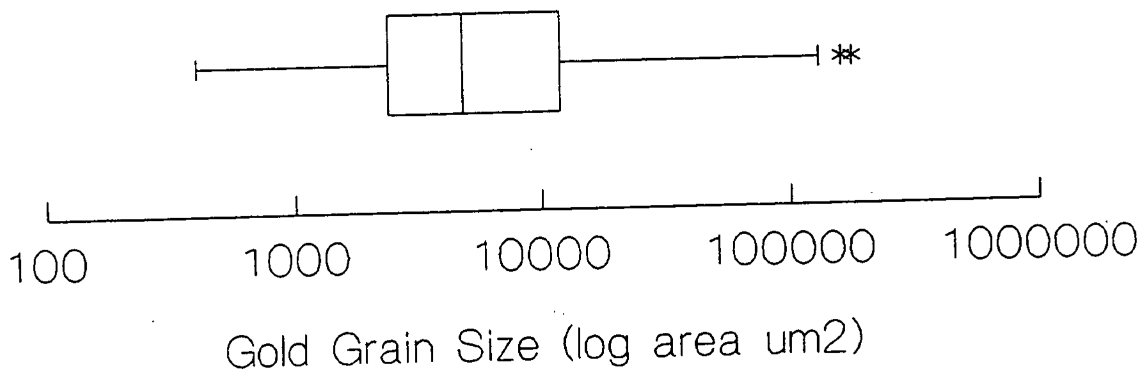


TRAC GRID



Maiden Creek Project - Box Plots

ALL SAMPLES



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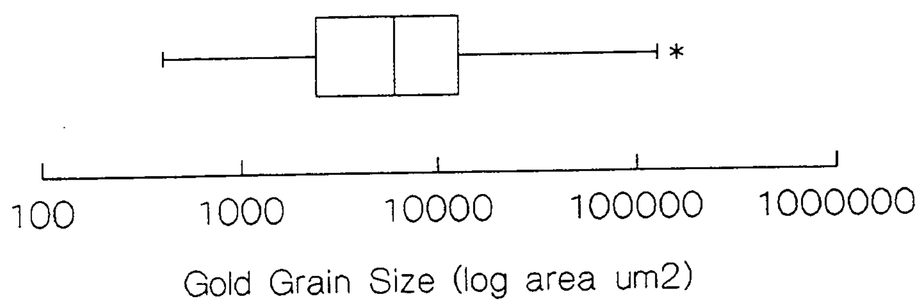

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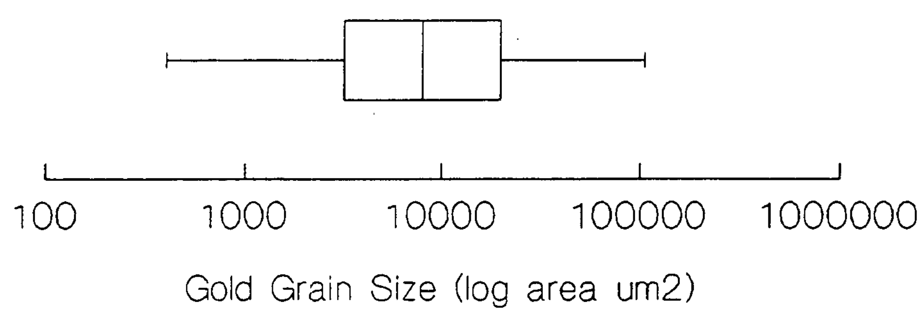

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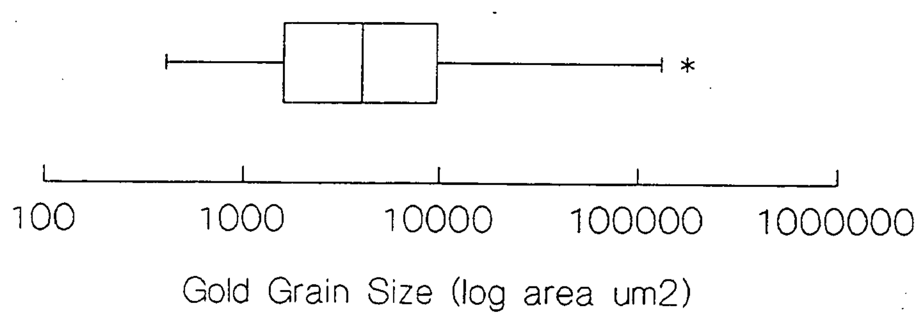
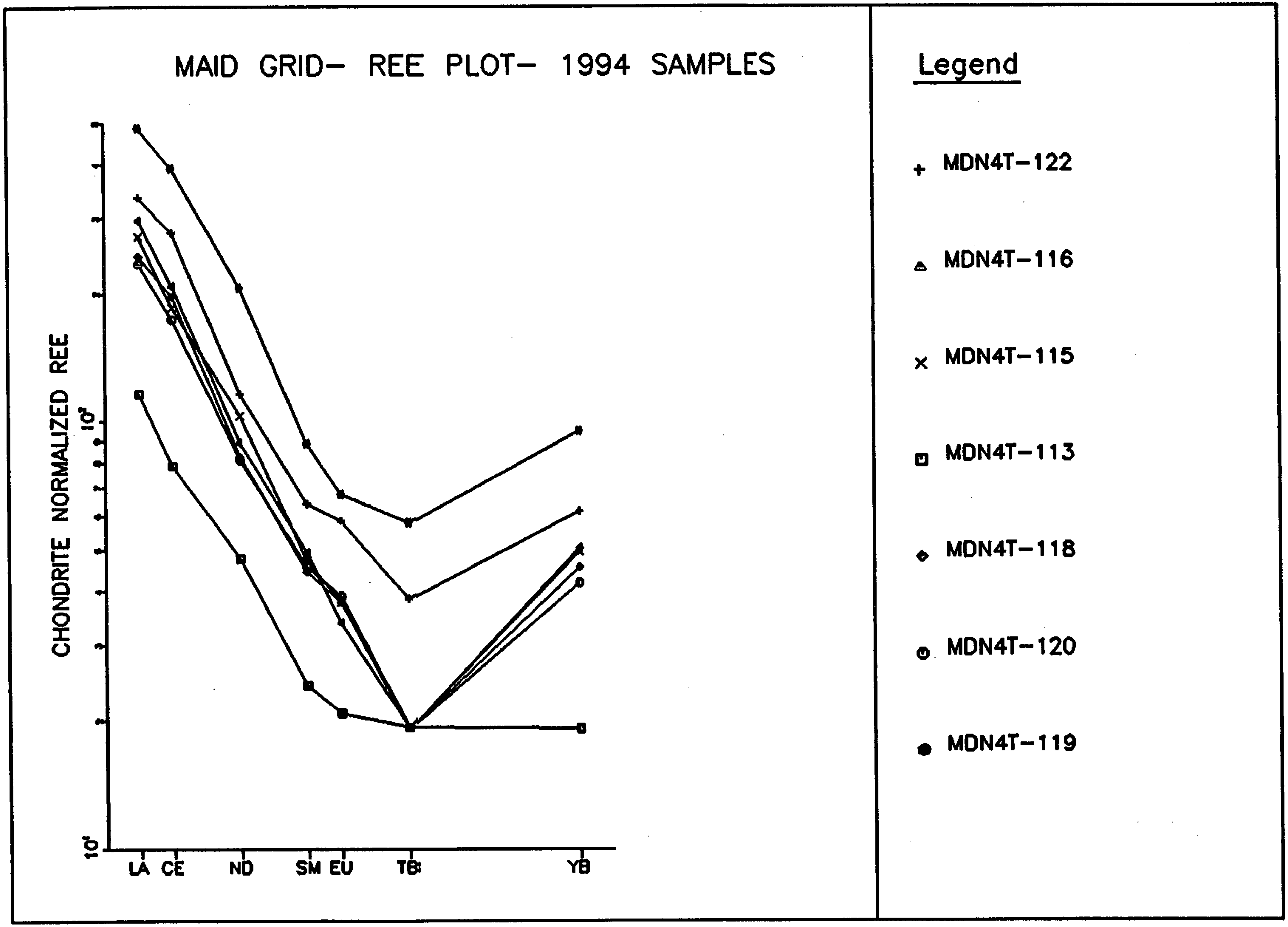
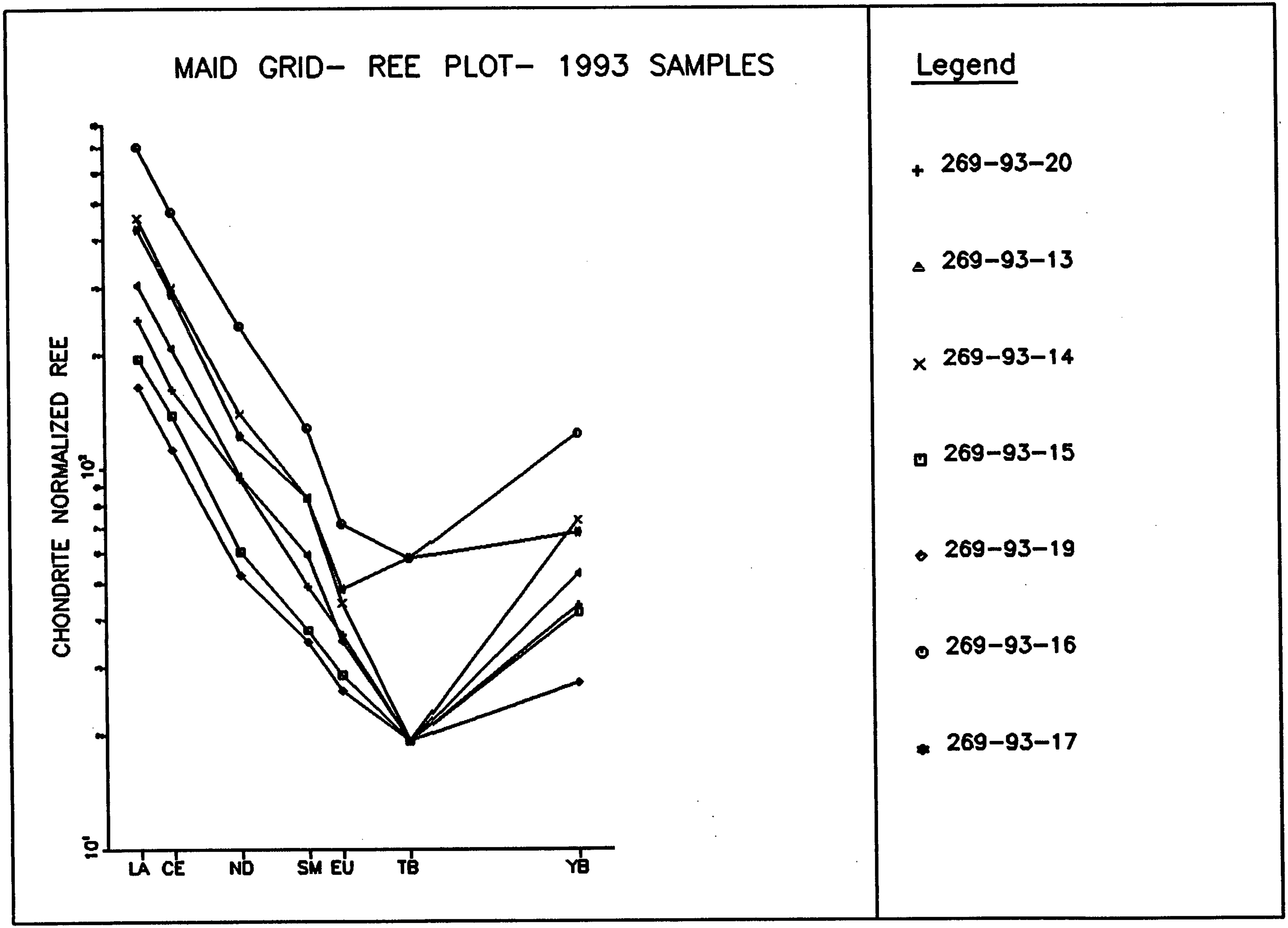
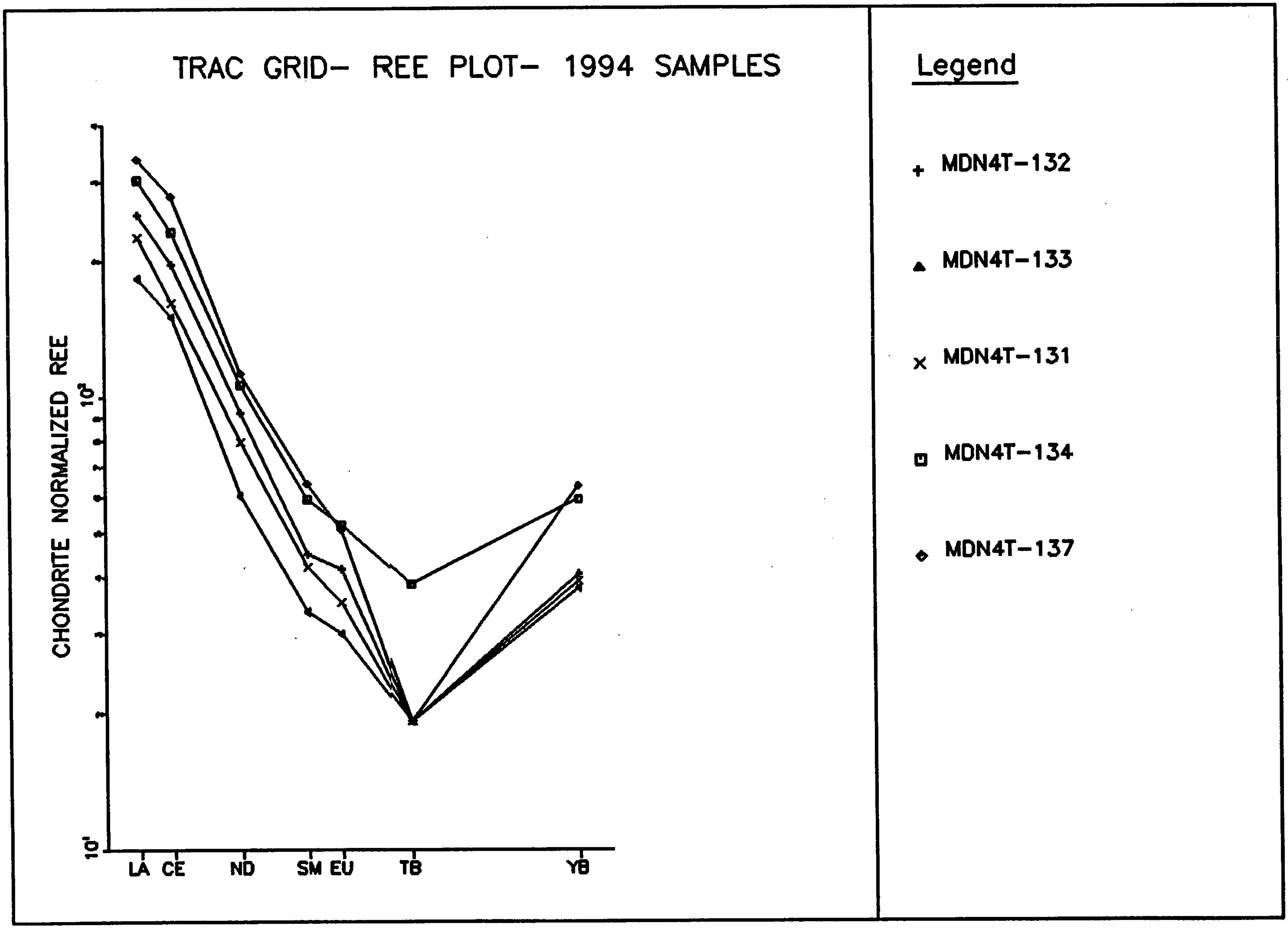
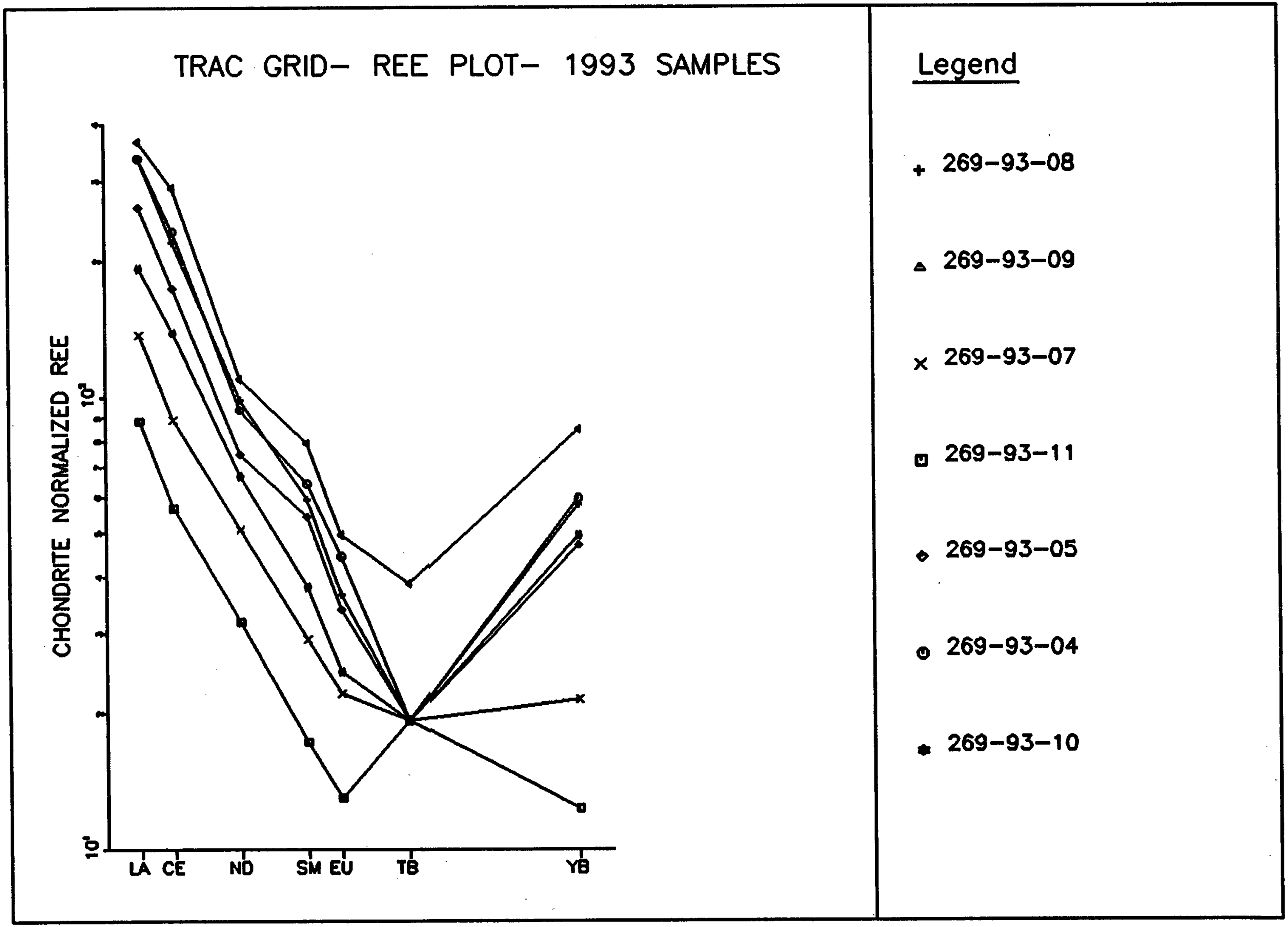


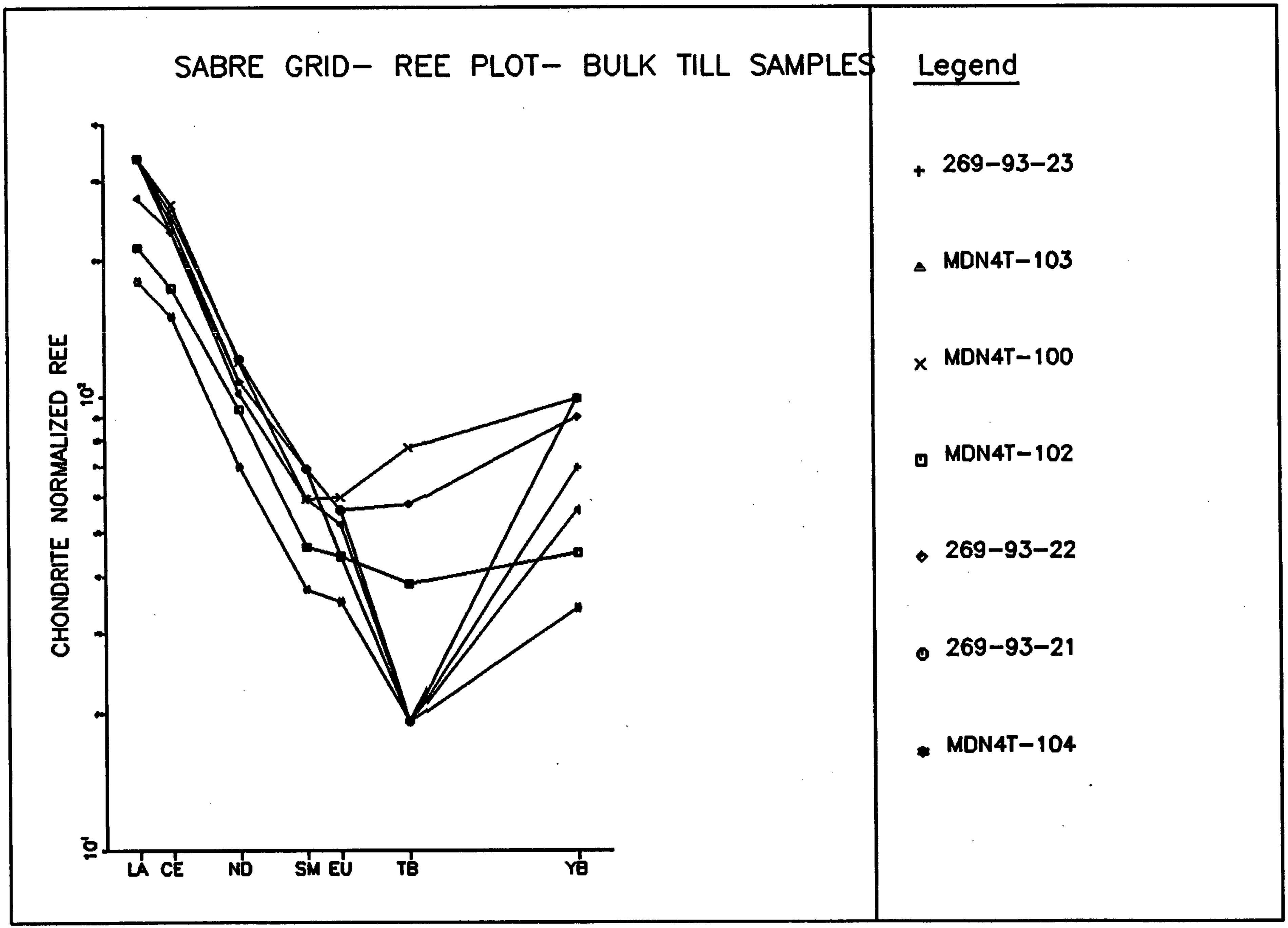

MAID GRID- REE PLOT- 1994 SAMPLES
CHONDRITE NORMALIZED REE
LA
CE
ND
SM
EU
TB
YB
Legend
MDN4T-122
MDN4T-116
MDN4T-115
MDN4T-113
MDN4T-118
MDN4T-120
MDN4T-119

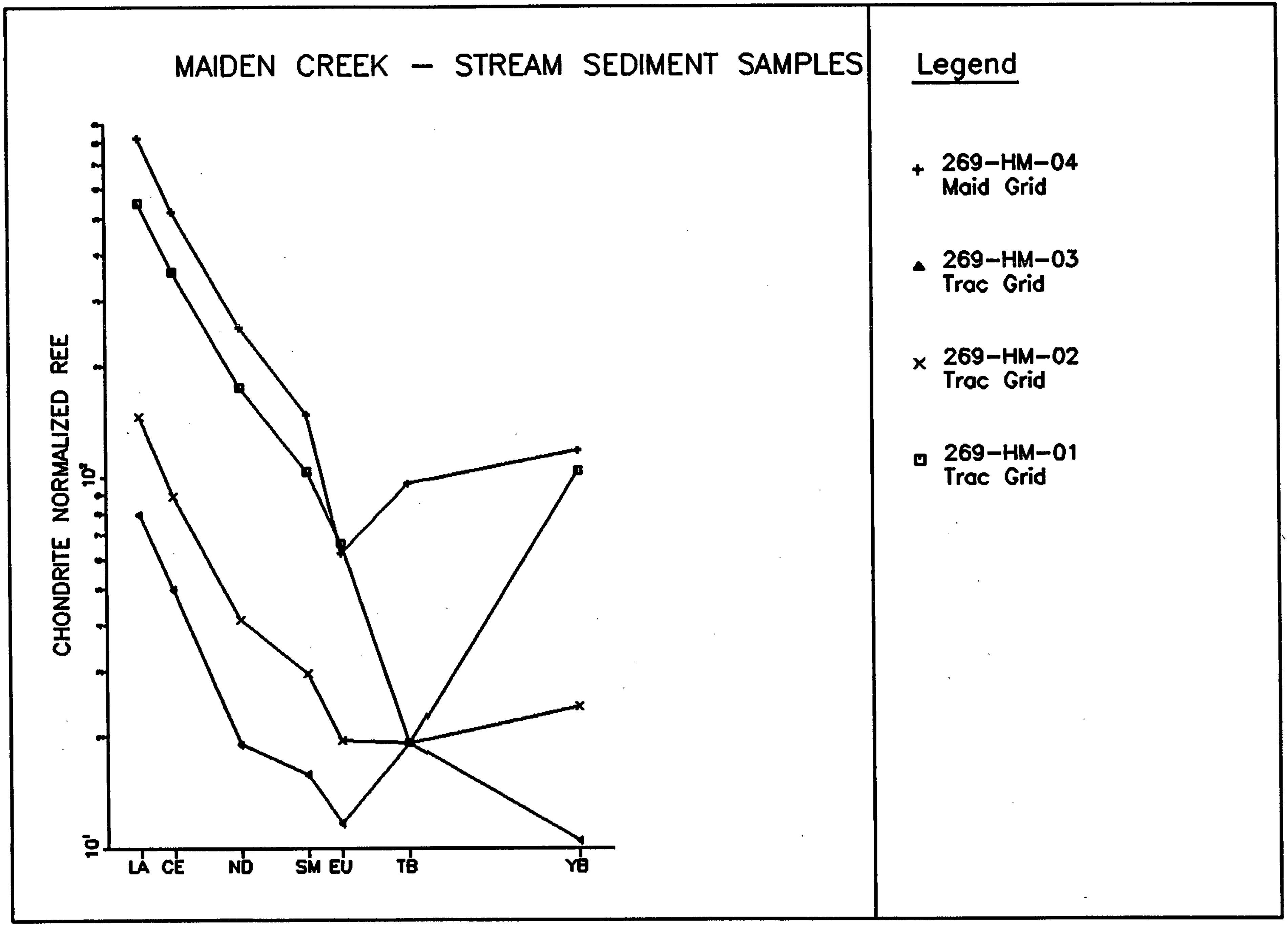

MAID GRID- REE PLOT- 1993 SAMPLES
CHONDRITE NORMALIZED REE
10²
10¹
LA
CE
ND
SM
EU
TB
YB
Legend
269-93-20
269-93-13
269-93-14
269-93-15
269-93-19
269-93-16
269-93-17

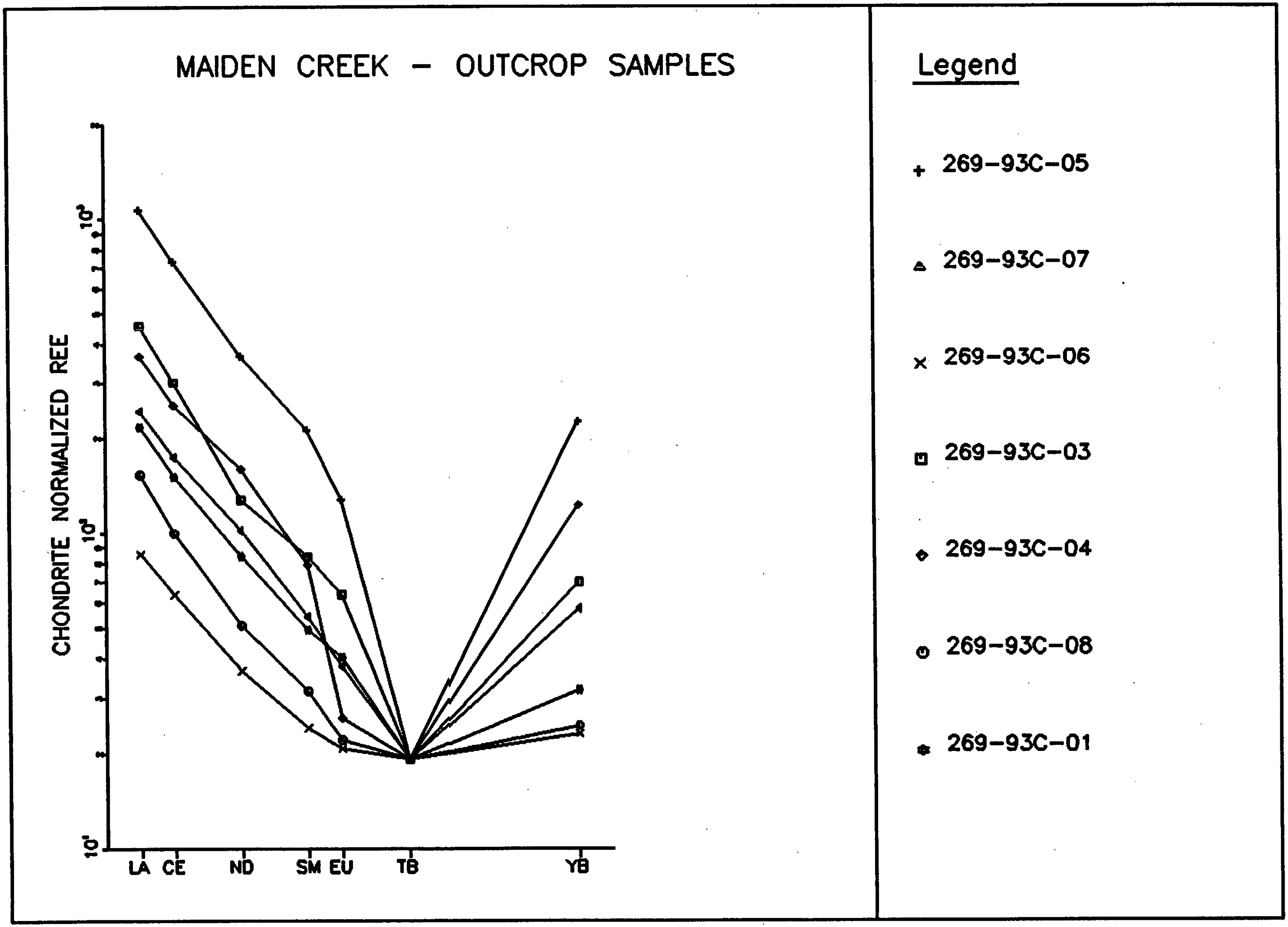

TRAC GRID- REE PLOT- 1994 SAMPLES
CHONDRITE NORMALIZED REE
10^2
10^1
LA
CE
ND
SM
EU
TB
YB
Legend
MDN4T-132
MDN4T-133
MDN4T-131
MDN4T-134
MDN4T-137



TRAC GRID- REE PLOT- 1993 SAMPLES
CHONDRITE NORMALIZED REE
10¹
10⁰
LA CE ND SM EU TB YB
Legend
269-93-08
269-93-09
269-93-07
269-93-11
269-93-05
269-93-04
269-93-10


SABRE GRID- REE PLOT- BULK TILL SAMPLES
CHONDRITE NORMALIZED REE
10²
10¹
LA
CE
ND
SM
EU
TB
YB
Legend
269-93-23
MDN4T-103
MDN4T-100
MDN4T-102
269-93-22
269-93-21
MDN4T-104


MAIDEN CREEK — STREAM SEDIMENT SAMPLES
CHONDRITE NORMALIZED REE
10^2
10^1
LA CE ND SM EU TB YB
Legend
269-HM-04 Maid Grid
269-HM-03 Trac Grid
269-HM-02 Trac Grid
269-HM-01 Trac Grid



MAIDEN CREEK - OUTCROP SAMPLES
CHONDRITE NORMALIZED REE
LA
CE
ND
SM
EU
TB
YB
Legend
269-93C-05
269-93C-07
269-93C-06
269-93C-03
269-93C-04
269-93C-08
269-93C-01

MAIDEN CREEK PROJECT – NEUTRON ACTIVATION OF H_NONMAG FRACTION

(project/maiden/geochem/93nutron)

Sample No.	Comments	Wt. Table Feed (kg)	HNMag (gms)	Au (ppm)	ugm Au (HNMag)	ugm Au (5 kg sample)	V.G. (grains)	V.G. Norm. (gr/5 kg)	Au Calc. Wt. (SRC ugm)	Total ugm/5 kg (HNM + SRC)	HNM/SRC (ugm/ugm)	% Au in HNM (ugm HNM/total)
Stream silts												
269 HM–1	D–(58 ugm)	14.25	10.03	1.700	17.05	5.98	9	3.2	36.70	18.86	0.46	31.72
269 HM–2	D–(66 ugm)	10.10	7.69	4.510	34.67	17.16	33	16.3	314.28	172.75	0.11	9.94
269 HM–3	D–(102ugm)	7.25	10.69	1.540	16.46	11.35	11	7.6	13.36	20.57	1.23	55.20
269 HM–4	MC–73	11.65	11.14	2.640	29.41	12.62	60	25.8	195.02	96.32	0.15	13.10
Averages								13.2	139.84	77.12	0.49	27.49
Outcrops												
269 93C–01		9.50	5.60	0.196	1.10	0.58	12	6.3	36.83	19.96	0.03	2.89
269 93C–02		4.55	2.45	26.400	64.60	70.99	14	15.4	17.36	90.07	3.72	78.82
269 93C–03		9.25	1.61	0.503	0.81	0.44	3	1.6	2.52	1.80	0.32	24.35
269 93C–04		9.90	2.69	23.300	62.61	31.62	10	5.1	11.73	37.54	5.34	84.22
269 93C–05		8.80	2.46	0.370	0.91	0.52	6	3.4	3.18	2.32	0.29	22.23
269 93C–06		5.55	6.52	0.008	0.05	0.05	1	0.9	0.46	0.46	0.11	10.19
269 93C–07		6.55	4.78	5.450	26.05	19.88	7	5.3	11.39	28.58	2.29	69.57
269 93C–08		8.00	6.62	0.670	4.43	2.77	3	1.9	0.36	3.00	12.31	92.49
Averages								5.0	10.5	23.0	3.1	48.1
Tills												
269 93–01	B– 0 ppb	5.65	9.23	0.281	2.59	2.30	8.00	7.1	21.98	21.75	0.12	10.56
269 93–02	A–475 ppb	5.75	5.02	0.280	1.41	1.22	6.00	5.2	1.02	2.11	1.38	57.94
269 93–03	B– 0 ppb	6.50	9.26	0.585	5.42	4.17	8.00	6.2	21.39	20.62	0.25	20.21
269 93–04	HM	8.55	3.51	2.230	7.83	4.58	9.00	5.3	31.33	22.90	0.25	19.98
269 93–05	A–400 ppb	8.55	7.27	0.905	6.58	3.85	21.00	12.3	46.71	31.16	0.14	12.35
269 93–06	A–45 ppb	2.25	2.76	4.450	12.30	27.33	13.00	28.9	14.53	59.62	0.85	45.84
269 93–07	HM– 0 ppb	8.80	8.30	0.300	2.49	1.42	29.00	16.5	16.26	10.65	0.15	13.28
269 93–08	HM– 0 ppb	7.60	5.18	1.160	6.01	3.96	26.00	17.1	90.61	63.57	0.07	6.22
269 93–09	B– 0 ppb	10.10	3.68	3.330	12.26	6.07	17.00	8.4	15.72	13.85	0.78	43.81
269 93–10	A–210 ppb	7.05	9.01	0.625	5.63	3.99	25.00	17.7	21.75	19.42	0.26	20.56
269 93–11	B–0 ppb	7.10	7.50	0.550	4.13	2.91	12.00	8.5	22.15	18.51	0.19	15.71
269 93–12	B–0 ppb	5.55	9.45	0.032	0.30	0.27	8.00	7.2	4.78	4.58	0.06	5.95
269 93–13	B– ?	7.60	6.74	0.882	5.94	3.91	10.00	6.6	6.47	8.17	0.92	47.87
269 93–14	B– ?	7.00	4.09	1.460	5.98	4.27	14.00	10.0	46.56	37.53	0.13	11.38

MAIDEN CREEK PROJECT – NEUTRON ACTIVATION OF H_NONMAG FRACTION

(project/maiden/geochem/93nutron)

Sample No.	Comments	Wt. Table Feed (kg)	HNMag (gms)	Au (ppm)	ugm Au (HNMag)	ugm Au (5 kg sample)	V.G. (grains)	V.G. Norm. (gr/5 kg)	Au Calc. Wt. (SRC ugm)	Total ugm/5 kg (HNM + SRC)	HNM/SRC (ugm/ugm)	% Au in HNM (ugm HNM/total)
269 93–15	A–150 ppb	6.20	5.26	3.220	16.95	13.67	24.00	19.4	59.01	61.26	0.29	22.31
269 93–16	A–110 ppb	7.00	4.48	7.370	33.00	23.57	39.00	27.9	129.47	116.05	0.25	20.31
269 93–17	A–140 ppb,(HM)	6.85	4.62	0.574	2.65	1.94	18.00	13.1	18.52	15.45	0.14	12.52
269 93–18	B–0 ppb	7.20	6.10	0.185	1.13	0.78	6.00	4.2	2.13	2.26	0.53	34.65
269 93–19	HM– 0 ppb	6.90	10.45	0.103	1.08	0.78	5.00	3.6	16.34	12.62	0.07	6.18
269 93–20	A–500	7.40	8.46	0.499	4.22	2.85	38.00	25.7	256.42	176.11	0.02	1.62
269 93–21	B–0 ppb	7.75	2.15	2.520	5.43	3.50	11.00	7.1	58.75	41.40	0.09	8.45
269 93–22	A–685 ppb	7.70	3.56	2.58	9.18	5.96	17.00	11.0	71.91	52.66	0.13	11.33
269 93–23	B–1 ppb	6.95	3.37	1.850	6.23	4.48	10.00	7.2	65.40	51.53	0.10	8.69
Averages								12.0	45.18	37.56	0.31	19.90

Notes:

1) Heavy non mag fraction weights from neutron activation lab report

2) comments HM – sample taken from vicinity of a HM silt site

3) comments – A is soil anomaly site; B is background site

4) comments D–(50 ugm) is Discovery HM silt site reduced form 10 kg to normalized to 5 kg

MAIDEN CREEK PROJECT – NEUTRON ACTIVATION OF H_NONMAG FRACTION
1994 SAMPLES

Sample No.	Comments	Wt. Table Feed (kg)	HNMag (gms)	Au (ppm)	ugm Au (HNMag)	ugm Au (5 kg sample)	V.G. (grains)	V.G.Norm. (gr/5kg)	Au Calc. Wt. (SRC ugm)	Total ugm/5kg (HNM+SRC)	HNM/SRC (ugm/ugm)	% Au in HNM (ugm HNM/total)
Till/Colluvium												
MDN4T-100		4.9	17.03	1.75	29.80	30.41	24	24.5	63.15	94.85	0.47	32.06
MDN4T-101		3.85	12.04	0.055	0.66	0.86	9	11.7	35.74	47.28	0.02	1.82
MDN4T-102		6.5	20.41	0.277	5.65	4.35	51	39.2	276.37	216.94	0.02	2.00
MDN4T-103		5.85	11.31	0.185	2.09	1.79	5	4.3	0.95	2.60	2.20	68.77
MDN4T-104		5.55	17.85	2.25	40.16	36.18	16	14.4	19.43	53.69	2.07	67.40
MDN4T-113		4.65	9.742	0.005	0.05	0.05	1	1.1	0.10	0.16	0.49	32.76
MDN4T-114		5.3	7.149	0.33	2.36	2.23	3	2.8	15.12	16.49	0.16	13.50
MDN4T-115		6.15	9.996	4.98	49.78	40.47	19	15.4	18.80	55.76	2.65	72.59
MDN4T-116		7.05	7.376	0.006	0.04	0.03	18	12.8	34.91	24.79	0.00	0.13
MDN4T-117		5.85	10.85	0.788	8.55	7.31	20	17.1	5.65	12.14	1.51	60.21
MDN4T-118		6.85	17.23	1.34	23.09	16.85	23	16.8	22.82	33.51	1.01	50.29
MDN4T-119		5	10.26	2.24	22.98	22.98	27	27.0	34.44	57.42	0.67	40.02
MDN4T-120		6.35	8.126	3.32	26.98	21.24	31	24.4	30.17	45.00	0.89	47.21
MDN4T-121		7.05	20.35	0.999	20.33	14.42	24	17.0	18.04	27.21	1.13	52.98
MDN4T-122		7.5	11.02	2	22.04	14.69	19	12.7	104.22	84.17	0.21	17.46
MDN4T-131		6.4	9.678	0.68	6.58	5.14	7	5.5	10.15	13.07	0.65	39.33
MDN4T-132		5.85	22.86	0.053	1.21	1.04	31	26.5	45.56	39.98	0.03	2.59
MDN4T-133		4.5	13.48	1.45	19.55	21.72	15	16.7	7.14	29.65	2.74	73.24
MDN4T-134		6.9	16.55	0.159	2.63	1.91	32	23.2	73.70	55.31	0.04	3.45
MDN4T-137		7.1	4.004	0.645	2.58	1.82	29	20.4	64.87	47.50	0.04	3.83
Averages								16.7	44.07	47.88	0.85	34.08

Malden Creek Project – Summary Statistics

All Samples

	Irreg. Au grains	Abrad. Au grains	%Irreg. Au grains	Irr/Abd	+100 Au grains	–100 Au grains	%coarse Au grains	%fine Au grains	Crse/Fine	norm. Au grains	HNM_Au (ug)	Calc_Au (ug)	HNM/Calc	%HNM_Au	Total_Au	–150 mesh Au(ppb)
Number of Samples	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Minimum	0	0	0	0	0	0	0	0	0	0.901	0.03	0.1	0	0.13	0.16	2
Maximum	36	28	100	10	39	25	100	100	10	39.231	70.99	314.28	12.31	92.49	216.94	320
Mean	10.345	6.873	42.274	1.303	8.218	9	42.888	57.112	1.318	12.767	9.95	46.613	0.919	29.711	42.064	33.382
Standard Deviation	8.323	5.732	22.231	1.968	8.574	6.371	23.989	23.989	1.957	8.608	13.267	67.501	1.876	25.43	44.968	70.133
Median	9	6	38.889	0.64	6	7	41.177	58.824	0.7	11.688	4.17	21.75	0.25	20.31	28.58	6

Maid Grid Sample

Number of Samples	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Minimum	0	0	0	0	0	0	0	0	0	1.075	0.03	0.1	0	0.13	0.16	3
Maximum	36	28	100	10	39	21	100	100	10	27.657	40.47	256.42	2.65	72.59	176.11	320
Mean	11.684	9.316	46.637	1.851	10.579	10.421	45.478	54.522	1.626	14.908	10.772	53.379	0.591	29.321	46.443	51.789
Standard Deviation	9.111	7.754	24.748	2.889	10.415	6.44	26.497	26.497	2.378	8.682	10.87	70.06	0.661	21.328	45.229	86.077
Median	12	7	42.105	0.73	7	11	41.936	58.065	0.72	15.447	7.31	22.82	0.29	22.31	33.51	9

Sabre Grid Samples

Number of Samples	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Minimum	2	0	0	0	0	3	0	23.529	0	4.274	0.86	0.95	0.02	1.82	2.6	5
Maximum	33	18	60	1.5	39	12	76.471	100	3.25	39.231	36.18	276.37	2.2	68.77	216.94	24
Mean	11	6.875	39.781	0.789	10.75	7.125	49.49	50.51	1.403	14.928	10.941	73.963	0.638	25.065	70.119	10.5
Standard Deviation	9.621	5.41	18.721	0.5	12.245	3.182	24.819	24.819	1.084	11.604	13.973	85.49	0.936	28.174	64.358	6.698
Median	9	6.5	41.422	0.705	6	6	54.167	45.833	1.2	11.364	4.415	60.95	0.115	10.01	52.095	8.5

Trac Grid Samples

Number of Samples	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Minimum	1	2	18.182	0.22	0	0	0	0	0	3.158	0.27	1.02	0.03	2.59	2.11	2
Maximum	27	12	83.333	5	25	25	100	100	10	28.889	27.33	314.28	2.74	73.24	172.75	230
Mean	11.05	6.4	41.966	1.062	7	10.45	41.526	58.474	1.256	12.98	6.41	43.7	0.49	24.586	34.322	20.65
Standard Deviation	7.87	3.068	18.868	1.212	5.191	7.359	22.069	22.069	2.168	7.713	7.361	68.055	0.665	20.997	37.039	51.932
Median	9	5.5	37.5	0.6	6.5	7.5	37.981	62.019	0.61	10.366	3.975	21.865	0.22	17.845	21.185	6

43 Bulk Till Samples

Number of Samples	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Minimum	0	0	0	0	0	0	0	0	0	1.075	0.03	0.1	0	0.13	0.16	2
Maximum	33	28	100	10	39	25	100	100	10	39.231	40.47	276.37	2.74	73.24	216.94	320
Mean	10.535	7.558	44.976	1.421	8.163	9.93	42.571	57.429	1.378	14.173	8.681	44.664	0.562	26.497	42.356	34.093
Standard Deviation	7.573	5.413	21.322	2.098	7.653	6.405	24.178	24.178	2.168	8.687	10.52	57.631	0.719	22.391	43.291	66.179
Median	10	7	41.667	0.71	7	9	38.889	61.111	0.64	12.766	3.99	22.15	0.25	19.98	31.16	8

8 Outcrop Samples

Number of Samples	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Minimum	1	0	0	0	0	1	0	40	0	0.901	0.05	0.36	0.03	2.89	0.46	2
Maximum	10	5	83.333	5	8	7	60	100	1.5	15.385	70.99	36.83	12.31	92.49	90.07	280
Mean	4.75	2.25	35.179	1.12	3.125	3.875	33.542	66.458	0.661	4.988	15.856	10.479	3.051	48.095	22.966	44.375
Standard Deviation	4.2	1.669	26.361	1.69	2.949	1.959	22.868	22.868	0.546	4.632	25.162	12.326	4.223	36.634	30.555	96.987
Median	3	2	30.952	0.45	2.5	4	37.5	62.5	0.605	4.23	1.675	7.285	1.305	46.96	11.48	3.5

4 Stream Sediment Samples

Number of Samples	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Minimum	6	2	18.182	0.22	5	4	55.556	24.242	1.25	3.158	5.98	13.36	0.11	9.94	18.86	2
Maximum	36	24	40	0.67	39	21	75.758	44.444	3.12	25.751	17.16	314.28	1.23	55.2	172.75	8
Mean	19.5	8.75	27.424	0.403	19	9.25	64.987	35.013	1.995	13.208	11.778	139.84	0.488	27.49	77.125	3.75
Standard Deviation	14.387	10.308	11.014	0.222	16.083	8.057	8.302	8.302	0.796	9.995	4.6	141.55	0.519	20.823	73.271	2.872
Median	18	4.5	25.758	0.36	16	6	64.318	35.682	1.805	11.961	11.985	115.86	0.305	22.41	58.445	2.5

Maiden Creek Project – Statistical Analysis of Au Values

Pearson Correlation Matrix

	HNM Au (ugms)	Normalized Gold Grains	Calc. Au (ugms)	Total Au (ugms)	HNM Au Calc Au	% HNM Au	Coarse Gold Grains	Fine Gold Grains	Irregular Gold Grains	–150 mesh Au (ppb)
HNM Au (ugms)	1									
Normalized Gold Grains	0.321	1								
Calculated Gold	0.014	0.566	1							
Total Au (5kg)	0.334	0.719	0.912	1						
HNM Au/Calc Au	0.318	–0.197	–0.241	–0.142	1					
% HNM Au	0.582	–0.158	–0.416	–0.227	0.744	1				
Coarse Gold Grains	0.2	0.244	0.457	0.505	–0.263	–0.305	1			
Fine Gold Grains	–0.2	–0.244	–0.457	–0.505	0.263	0.305	–1	1		
Irregular Gold Grains	–0.087	–0.124	–0.223	–0.24	0.12	0.203	–0.283	0.283	1	
–150 mesh Au (ppb)	0.349	0.323	0.267	0.402	–0.025	–0.077	0.196	–0.196	–0.071	1

Factor Score Coefficients

	Visible Gold Factor	HNM Gold Factor	Coarse Gold Factor	Factor(4)	Factor(5)
Total Au (5kg)	0.412	0.074	–0.026	–0.018	0.096
Calculated Gold	0.439	–0.02	–0.048	–0.035	0.254
Normalized Gold Grains	0.408	0.024	–0.186	–0.047	–0.04
% HNM Au	0.002	0.44	0.026	–0.036	0.085
HNM Au/Calc Au	0.083	0.422	–0.011	0.037	0.231
HNM Au (ugms)	–0.007	0.336	0.106	0.06	–0.289
Fine Gold Grains	0.112	–0.03	–0.535	0.08	–0.048
Coarse Gold Grains	–0.112	0.03	0.535	–0.08	0.048
Irregular Gold Grains	0.057	–0.024	0.11	–1.036	–0.013
–150 mesh Au (ppb)	–0.142	–0.125	–0.078	–0.02	–0.921

Factor Scores

	Visible Gold Factor	HNM Gold Factor	Coarse Gold Factor	Factor(4)	Factor(5)
MDN4T-100	0.977	0.627	0.575	-0.084	-0.187
MDN4T-101	-0.407	-0.772	0.802	1.808	0.317
MDN4T-102	4.003	-0.399	0.601	-0.225	1.493
MDN4T-103	-0.49	0.603	-1.595	-0.516	0.401
MDN4T-104	0.144	1.631	0.009	0.061	-0.13
MDN4T-113	-0.639	-0.501	-1.366	-2.352	0.104
MDN4T-114	-1.201	-0.549	1.058	1.874	0.411
MDN4T-115	0.099	2.017	0.697	0.056	0.015
MDN4T-116	-0.095	-1.03	-1.048	0.548	-0.109
MDN4T-117	-0.022	0.547	-1.293	0.498	0.182
MDN4T-118	-0.102	0.63	0.416	0.292	0.165
MDN4T-119	0.816	0.551	-0.183	-0.633	-0.002
MDN4T-120	0.642	0.619	0.099	-2.255	0.028
MDN4T-121	0.046	0.57	-0.613	0.31	0.09
MDN4T-122	0.631	-0.238	-0.497	1.489	-0.358
MDN4T-131	-0.644	-0.094	-0.377	-0.564	0.088
MDN4T-132	0.564	-0.952	-1.145	0.907	-0.693
MDN4T-133	0.212	1.422	-0.793	-0.946	0.122
MDN4T-134	0.925	-0.796	-0.983	0.238	0.365
MDN4T-137	0.797	-0.851	-1.555	0.334	0.235
269 HM-1	-0.821	-0.136	0.751	0.377	0.448
269 HM-2	2.759	-0.034	1.083	0.747	1.503
269 HM-3	-0.831	0.639	1.021	1.024	0.454
269 HM-4	1.867	-0.21	0.602	-0.181	0.828
269 93C-01	-0.702	-0.968	-0.148	1.222	-0.336
269 93C-02	-0.2	2.732	0.75	0.714	-4.013
269 93C-03	-1.067	-0.512	-0.225	0.541	0.281
269 93C-04	-0.622	2.597	1.028	1.568	0.621
269 93C-05	-0.848	-0.601	-0.016	-1.797	0.234
269 93C-06	-0.908	-0.862	-1.874	2.336	0.109
269 93C-07	-0.575	1.271	0.336	0.06	0.357
269 93C-08	-0.129	3.305	-1.535	-0.64	1.76
269 93-01	-0.606	-0.705	0.519	-0.954	0.244
269 93-02	-0.437	0.185	-1.515	-1.613	0.192
269 93-03	-1.178	-0.305	2.676	-0.117	0.543
269 93-04	-0.419	-0.518	-0.09	-1.552	0.213
269 93-05	-0.185	-0.576	0.413	-0.093	0.368
269 93-06	0.684	0.855	-0.053	0.5	-0.111
269 93-07	-0.208	-0.664	-0.685	0.751	0.212
269 93-08	0.273	-1.067	-0.657	0.265	-2.455
269 93-09	-0.635	0.135	-0.021	0.904	0.361
269 93-10	-0.042	-0.444	-0.395	-0.058	0.185
269 93-11	-0.631	-0.545	0.364	0.398	0.34
269 93-12	-0.775	-0.88	-0.095	-0.275	0.2
269 93-13	-0.465	0.066	-1.245	-0.118	0.261
269 93-14	-0.408	-0.53	1.311	-0.207	0.48
269 93-15	0.022	-0.335	0.781	-0.401	-1.958
269 93-16	1.234	-0.327	-0.078	-0.906	-3.737
269 93-17	-0.491	-0.785	-0.288	0.17	-0.664
269 93-18	-0.701	-0.352	-0.848	-0.926	0.197
269 93-19	-1.395	-0.822	2.855	-2.091	-0.119
269 93-20	2.41	-0.834	1.011	0.182	-0.916
269 93-21	-0.122	-0.697	-0.245	0.336	0.388
269 93-22	-0.058	-0.471	1.228	-0.141	0.537
269 93-23	-0.048	-0.642	0.475	-0.86	0.455

Maiden Creek Project – Pearson Correlation Matrices

Activation Labs – Neutron Activation Geochemical Data

All Sample Types

	AS	AU	BA	CA	CE	CO	CR	EU	FE	HF	LA	LU	MASS
AS	1												
AU	0.838	1											
BA	0.257	0.615	1										
CA	−0.128	−0.13	−0.109	1									
CE	0.284	0.295	0.057	0.372	1								
CO	0.627	0.644	0.265	0.229	0.762	1							
CR	0.834	0.703	0.038	0.017	0.615	0.822	1						
EU	0.253	0.176	−0.084	0.367	0.937	0.731	0.626	1					
FE	0.059	0.193	0.214	0.102	0.583	0.66	0.28	0.545	1				
HF	0.546	0.58	0.235	0.131	0.895	0.87	0.786	0.823	0.571	1			
LA	0.219	0.253	0.06	0.372	0.987	0.722	0.555	0.899	0.58	0.879	1		
LU	0.45	0.491	0.235	0.236	0.906	0.853	0.739	0.895	0.603	0.938	0.865	1	
MASS	−0.24	−0.303	−0.154	0.171	−0.286	−0.366	−0.34	−0.204	−0.174	−0.425	−0.328	−0.316	1
NA	−0.366	−0.408	−0.25	0.094	−0.445	−0.618	−0.45	−0.372	−0.682	−0.599	−0.448	−0.539	0.329
ND	0.209	0.277	0.148	0.368	0.973	0.708	0.523	0.905	0.572	0.879	0.972	0.868	−0.262
NI	0.62	0.463	−0.049	−0.23	0.269	0.532	0.819	0.263	0.169	0.416	0.203	0.311	−0.232
RB	−0.081	−0.016	−0.05	−0.15	−0.092	−0.185	−0.031	−0.078	−0.211	−0.059	−0.097	−0.056	0.152
SB	−0.02	0.193	0.476	0.025	0.532	0.509	0.192	0.547	0.787	0.553	0.525	0.655	−0.214
SC	0.075	0.089	−0.017	0.721	0.619	0.617	0.304	0.585	0.33	0.473	0.611	0.501	−0.12
SM	0.288	0.302	0.094	0.352	0.984	0.762	0.598	0.913	0.568	0.912	0.988	0.889	−0.363
TA	0.125	0.113	0.042	0.398	0.659	0.481	0.321	0.655	0.357	0.578	0.616	0.637	0.02
TB	0.203	0.213	−0.061	0.3	0.456	0.409	0.347	0.41	0.227	0.415	0.421	0.373	0.098
TH	0.249	0.335	0.174	0.322	0.96	0.753	0.546	0.857	0.605	0.897	0.961	0.884	−0.303
U	0.34	0.425	0.249	0.227	0.929	0.807	0.625	0.871	0.652	0.933	0.91	0.945	−0.266
W	0.484	0.348	−0.069	−0.007	0.151	0.404	0.485	0.16	0.301	0.28	0.1	0.244	−0.045
YB	0.455	0.492	0.232	0.247	0.94	0.869	0.731	0.895	0.602	0.974	0.915	0.977	−0.358
ZN	0.523	0.361	−0.074	0.212	0.523	0.629	0.694	0.637	0.379	0.544	0.431	0.644	0.148

	NA	ND	NI	RB	SB	SC	SM	TA	TB	TH	U	W	YB	ZN
AS														
AU														
BA														
CA														
CE														
CO														
CR														
EU														
FE														
HF														
LA														
LU														
MASS														
NA	1													
ND	−0.426	1												
NI	−0.248	0.179	1											
RB	0.363	−0.095	−0.034	1										
SB	−0.526	0.586	−0.03	−0.063	1									
SC	−0.145	0.592	0.155	−0.222	0.148	1								
SM	−0.466	0.973	0.246	−0.098	0.543	0.623	1							
TA	−0.191	0.885	0.143	−0.127	0.371	0.555	0.644	1						
TB	−0.172	0.429	0.22	−0.082	−0.004	0.474	0.414	0.45	1					
TH	−0.479	0.953	0.273	−0.075	0.562	0.614	0.957	0.636	0.479	1				
U	−0.545	0.927	0.282	−0.039	0.653	0.532	0.922	0.647	0.482	0.961	1			
W	−0.259	0.065	0.283	0.027	0.124	0.061	0.139	0.129	0.103	0.107	0.174	1		
YB	−0.644	0.924	0.357	−0.086	0.62	0.562	0.942	0.642	0.42	0.935	0.965	0.233	1	
ZN	−0.281	0.448	0.414	−0.092	0.272	0.299	0.451	0.458	0.373	0.44	0.543	0.362	0.583	1

Elements analyzed but Consistently below threshold:

All Sample Types: Ag,Br,Ce,Hg,Ir,Mo,Se,Sr

Maiden Creek Project – Pearson Correlation Matrix

52 Outcrop Samples – Acme Analytical Labs – ICP Geochemical Data

	AG	AL	AS	AU	BA	BE	BI	CA	CD	CO	CR	CU	FE	GE	HG	K	LA	MG	MN	MO	NA	NB	NI	P	PB	SB	SC	SE	SN	SR	TE	TH	TI	V	W	Y	ZN	ZR
AG	1																																					
AL	-0.075	1																																				
AS	0.276	-0.272	1																																			
AU	-0.069	-0.006	0.02	1																																		
BA	-0.122	0.157	0.364	-0.091	1																																	
BE	-0.022	0.193	-0.155	-0.108	0.054	1																																
BI	0.9	-0.129	0.374	-0.016	-0.08	-0.039	1																															
CA	0.503	-0.212	-0.049	-0.043	-0.161	-0.116	0.374	1																														
CD	0.401	0.019	-0.076	-0.123	-0.079	-0.007	0.13	0.517	1																													
CO	0.07	0.36	-0.145	-0.021	-0.007	-0.18	-0.044	0.101	0.079	1																												
CR	0.014	0.044	0.078	0	-0.001	-0.169	-0.055	0.026	-0.032	0.813	1																											
CU	0.038	0.348	-0.06	0.09	-0.026	-0.237	-0.071	0.015	0.094	0.743	0.409	1																										
FE	0.099	0.457	0.274	0.062	0.246	-0.28	0.031	-0.064	0.011	0.763	0.587	0.766	1																									
GE	-0.054	0.095	0.056	-0.165	0.263	0.165	-0.083	-0.123	-0.128	0.124	0.06	0.211	0.205	1																								
HG	-0.105	-0.183	0.765	0.01	0.656	-0.111	-0.058	-0.178	-0.126	-0.087	0.113	-0.052	0.282	0.182	1																							
K	-0.195	0.572	-0.332	-0.062	0.2	0.502	-0.205	-0.382	-0.055	-0.067	-0.28	-0.045	-0.128	0.152	-0.209	1																						
LA	0.199	0.508	-0.154	0.049	0.239	0.065	-0.026	-0.136	0.239	0.521	0.343	0.482	0.489	0.169	-0.031	0.277	1																					
MG	0.069	0.035	-0.194	-0.04	-0.147	-0.17	-0.07	0.63	0.331	0.557	0.461	0.367	0.312	-0.027	-0.139	-0.301	0.071	1																				
MN	0.539	0.197	0.016	-0.012	0.054	-0.073	0.599	0.511	0.051	0.288	0.085	0.19	0.247	0.006	-0.19	-0.024	0.12	0.082	1																			
MO	0.053	-0.192	0.75	0.01	0.045	-0.121	0.119	-0.127	-0.116	-0.186	0.059	-0.07	0.247	0.02	0.534	-0.317	-0.228	-0.162	-0.154	1																		
NA	-0.076	0.702	-0.284	-0.049	0.201	0.178	-0.161	-0.235	0.091	0.178	-0.201	0.279	0.296	0.284	-0.22	0.704	0.404	-0.076	0.123	-0.208	1																	
NB	0.132	0.13	-0.077	-0.055	0.025	0.073	-0.06	-0.008	0.042	0.496	0.525	0.254	0.327	0.377	0.001	0.084	0.504	0.269	0.049	-0.062	0.113	1																
NI	0.048	0.043	-0.042	-0.037	-0.046	-0.124	-0.03	0.072	-0.004	0.843	0.976	0.395	0.518	0.029	-0.008	-0.232	0.359	0.496	0.131	-0.062	-0.166	0.545	1															
P	0.233	0.622	-0.126	0.037	0.132	-0.129	0.081	0.065	0.271	0.52	0.123	0.574	0.667	0.15	-0.152	0.184	0.619	0.235	0.353	-0.161	0.718	0.223	0.146	1														
PB	0.228	0.139	-0.024	-0.185	0.12	0.545	0.205	-0.013	0.008	-0.277	-0.211	-0.299	-0.322	0.102	-0.049	0.451	0.067	-0.232	0.047	-0.06	0.094	0.16	-0.165	-0.209	1													
SB	0.197	-0.234	0.849	-0.038	0.386	-0.218	0.284	-0.106	-0.15	0.001	0.191	0.106	0.416	0.206	0.749	-0.367	-0.104	-0.131	-0.027	0.682	-0.278	-0.065	0.052	-0.109	-0.039	1												
SC	0.008	0.481	0.001	0.125	-0.007	-0.274	-0.055	0.01	-0.015	0.837	0.568	0.87	0.879	0.164	0.016	-0.123	0.407	0.41	0.271	0.008	0.204	0.3	0.53	0.545	-0.361	0.166	1											
SE	0.727	-0.096	0.552	-0.031	-0.069	-0.027	0.829	0.254	0.045	0.016	-0.023	0.117	0.257	0.027	0.168	-0.269	-0.077	-0.077	0.448	0.406	-0.125	-0.114	-0.061	0.097	0.132	0.545	0.159	1										
SN	0.901	-0.133	0.378	-0.017	-0.085	-0.04	0.999	0.376	0.134	-0.039	-0.048	-0.065	0.034	-0.086	-0.056	-0.21	-0.025	-0.069	0.601	0.121	-0.168	-0.063	-0.025	0.078	0.201	0.289	-0.05	0.832	1									
SR	0.152	0.469	-0.211	-0.069	0.201	0.027	0.069	0.302	0.194	0.165	-0.16	0.308	0.244	0.012	-0.207	0.218	0.363	0.05	0.601	-0.222	0.476	-0.111	-0.125	0.569	0.112	-0.152	0.213	0.059	0.072	1								
TE	0.258	-0.006	0.193	-0.133	0.154	0.194	0.315	-0.019	-0.124	-0.073	-0.039	0.018	0.018	0.733	0.121	0.167	-0.029	-0.163	0.159	0.094	0.101	0.162	-0.082	-0.08	0.29	0.309	-0.022	0.327	0.315	-0.08	1							
TH	0.031	0.28	-0.26	-0.105	0.029	0.468	-0.094	-0.179	0.063	-0.064	-0.078	-0.086	-0.22	0.176	-0.17	0.634	0.436	-0.15	-0.134	-0.164	0.296	0.438	-0.031	-0.045	0.674	-0.338	-0.21	-0.152	-0.101	0.039	0.214	1						
TI	0.101	0.464	-0.069	0.025	0.051	-0.179	-0.085	0.016	0.122	0.894	0.728	0.695	0.821	0.196	-0.036	-0.045	0.696	0.459	0.216	-0.086	0.314	0.662	0.73	0.689	-0.238	-0.004	0.79	-0.035	-0.064	0.214	-0.061	0.034	1					
V	0.021	0.552	0.024	0.127	0.034	-0.29	-0.056	-0.033	0.025	0.769	0.45	0.853	0.911	0.172	0.034	-0.064	0.456	0.34	0.262	0.022	0.358	0.237	0.402	0.709	-0.403	0.176	0.96	0.172	-0.053	0.3	-0.053	-0.239	0.791	1				
W	0.102	-0.179	-0.114	-0.121	-0.128	0.076	-0.064	0.343	0.448	-0.167	-0.157	-0.155	-0.213	0	-0.144	-0.224	-0.178	0.114	-0.138	-0.04	0.003	-0.106	-0.124	0.01	0.056	-0.142	-0.212	-0.011	-0.065	0.031	-0.101	-0.109	-0.125	-0.161	1			
Y	0.516	0.319	0.09	0.196	0.006	-0.212	0.485	0.218	0.077	0.67	0.461	0.567	0.656	0.018	-0.055	-0.172	0.518	0.215	0.651	-0.112	0.062	0.306	0.48	0.551	-0.15	0.131	0.691	0.458	0.489	0.309	0.034	-0.137	0.656	0.671	-0.192	1		
ZN	0.13	0.744	-0.203	0.137	0.125	-0.137	0.005	-0.089	0.147	0.668	0.331	0.634	0.726	0.083	-0.156	0.27	0.706	0.218	0.307	-0.243	0.643	0.273	0.343	0.686	-0.161	-0.117	0.676	0.015	0.004	0.452	-0.082	0.061	0.775	0.776	-0.166	0.629	1	
ZR	0.192	0.514	-0.138	0.085	0.159	-0.066	0.004	-0.113	0.193	0.58	0.415	0.487	0.567	0.094	-0.108	0.245	0.661	0.169	0.171	-0.164	0.512	0.503	0.442	0.751	0.054	-0.102	0.411	-0.077	0.003	0.405	-0.071	0.306	0.766	0.488	-0.17	0.49	0.812	1

Maiden Creek Project – Pearson Correlation Matrices

Activation Labs – Neutron Activation Geochemical Data

43 Bulk Till/Colluvium Samples

	AS	AU	BA	CA	CE	CO	CR	EU	FE	HF	LA	LU	MASS	NA	ND	NI	RB	SB	SC	SM	TA	TB	TH	U	W	YB	ZN
AS	1																										
AU	0.407	1																									
BA	0.114	-0.109	1																								
CA	-0.179	0.125	-0.266	1																							
CE	0.718	0.633	-0.093	0.277	1																						
CO	0.632	0.528	-0.283	0.275	0.773	1																					
CR	0.722	0.688	-0.109	0.106	0.847	0.793	1																				
EU	0.781	0.57	0.024	0.289	0.928	0.811	0.854	1																			
FE	0.669	0.367	-0.119	-0.053	0.561	0.75	0.484	0.568	1																		
HF	0.729	0.731	-0.16	0.023	0.881	0.829	0.919	0.825	0.643	1																	
LA	0.642	0.651	-0.189	0.261	0.98	0.762	0.843	0.865	0.552	0.893	1																
LU	0.765	0.645	-0.061	0.205	0.941	0.827	0.897	0.939	0.61	0.927	0.906	1															
MASS	-0.128	-0.305	0.393	0.121	-0.306	-0.355	-0.38	-0.145	-0.183	-0.471	-0.391	-0.249	1														
NA	-0.497	-0.314	0.328	0.146	-0.4	-0.558	-0.458	-0.324	-0.76	-0.605	-0.456	-0.461	0.251	1													
ND	0.684	0.658	-0.092	0.263	0.968	0.741	0.823	0.907	0.525	0.872	0.951	0.925	-0.263	-0.383	1												
NI	0.402	0.067	-0.146	-0.331	0.143	0.325	0.242	0.212	0.267	0.226	0.091	0.193	-0.255	-0.1	0.116	1											
RB	0.094	-0.024	0.264	-0.129	-0.035	-0.204	-0.064	-0.03	-0.238	-0.05	-0.089	-0.01	0.222	0.214	-0.082	0.1	1										
SB	0.851	0.406	-0.001	-0.134	0.615	0.7	0.625	0.678	0.893	0.691	0.568	0.696	-0.142	-0.665	0.564	0.361	-0.148	1									
SC	0.086	0.21	-0.347	0.708	0.48	0.681	0.39	0.516	0.185	0.357	0.46	0.465	-0.202	-0.043	0.454	0.029	-0.203	0.072	1								
SM	0.665	0.638	-0.224	0.261	0.975	0.806	0.849	0.883	0.559	0.906	0.985	0.908	-0.428	-0.458	0.947	0.133	-0.092	0.583	0.526	1							
TA	0.274	0.224	0.123	0.275	0.417	0.371	0.308	0.46	0.205	0.327	0.34	0.455	0.07	-0.035	0.453	0.078	-0.102	0.226	0.417	0.378	1						
TB	0.363	0.283	0.177	0.282	0.462	0.43	0.462	0.573	0.268	0.458	0.393	0.56	0.073	-0.137	0.486	-0.117	0.036	0.338	0.349	0.423	0.519	1					
TH	0.704	0.603	-0.181	0.215	0.957	0.808	0.84	0.89	0.6	0.902	0.951	0.955	-0.343	-0.448	0.921	0.205	-0.019	0.64	0.474	0.947	0.386	0.437	1				
U	0.791	0.594	-0.02	0.116	0.894	0.799	0.85	0.901	0.649	0.908	0.861	0.971	-0.211	-0.513	0.877	0.187	0.016	0.728	0.389	0.867	0.434	0.559	0.948	1			
W	0.103	-0.012	-0.128	0.017	0.03	0.156	-0.031	0.019	0.41	0.073	0.007	0.067	-0.002	-0.294	-0.022	-0.109	-0.137	0.393	-0.025	0.033	0.109	0.003	0.049	0.086	1		
YB	0.751	0.662	-0.147	0.18	0.936	0.863	0.916	0.922	0.618	0.953	0.918	0.985	-0.354	-0.486	0.912	0.236	-0.054	0.698	0.495	0.929	0.413	0.528	0.96	0.953	0.066	1	
ZN	0.518	0.188	0.232	0.235	0.477	0.456	0.442	0.656	0.435	0.368	0.385	0.568	0.321	-0.187	0.469	0.106	-0.129	0.517	0.242	0.376	0.406	0.469	0.458	0.556	0.006	0.501	1

Elements analyzed but Consistently below threshold:

Till/Colluvium: Br,Hg,Ir,Mo and Sr

Maiden Creek Project – Pearson Correlation Matrices

Activation Labs – Neutron Activation Geochemical Data

8 Outcrop Samples

	AS	AU	BA	CA	CE	CO	CR	EU	FE	HF	LA	LU	MASS	NA	ND	NI	RB	SB	SC	SM	TA	TB	TH	U	W	YB	ZN
AS	1																										
AU	0.846	1																									
BA	0.106	0.587	1																								
CA	-0.218	-0.377	-0.183	1																							
CE	0.348	0.18	-0.014	0.628	1																						
CO	0.872	0.797	0.288	0.104	0.695	1																					
CR	0.952	0.692	-0.116	-0.084	0.517	0.864	1																				
EU	0.242	-0.031	-0.261	0.667	0.962	0.544	0.466	1																			
FE	0.089	0.262	0.534	0.518	0.632	0.531	0.065	0.462	1																		
HF	0.628	0.533	0.182	0.387	0.913	0.888	0.723	0.798	0.599	1																	
LA	0.235	0.091	-0.005	0.673	0.993	0.618	0.411	0.962	0.664	0.867	1																
LU	0.512	0.443	0.214	0.485	0.951	0.832	0.615	0.841	0.674	0.987	0.924	1															
MASS	-0.452	-0.459	-0.283	-0.061	-0.729	-0.721	-0.515	-0.644	-0.559	-0.719	-0.716	-0.741	1														
NA	-0.635	-0.679	-0.445	-0.184	-0.621	-0.878	-0.591	-0.422	-0.785	-0.794	-0.578	-0.767	0.602	1													
ND	0.168	0.109	0.122	0.69	0.966	0.578	0.323	0.908	0.698	0.86	0.981	0.927	-0.666	-0.565	1												
NI	0.966	0.701	-0.144	-0.212	0.284	0.767	0.96	0.24	-0.078	0.527	0.168	0.399	-0.329	-0.499	0.07	1											
RB	-0.191	-0.06	-0.142	-0.318	-0.188	-0.271	-0.087	-0.153	-0.368	-0.13	-0.187	-0.165	0.138	0.34	-0.129	-0.143	1										
SB	-0.305	0.019	0.637	0.475	0.474	0.155	-0.314	0.325	0.802	0.398	0.544	0.514	-0.365	-0.412	0.665	-0.503	-0.102	1									
SC	0.438	0.3	0.087	0.543	0.986	0.779	0.571	0.921	0.678	0.932	0.971	0.964	-0.811	-0.702	0.938	0.351	-0.259	0.471	1								
SM	0.288	0.143	0.012	0.662	0.997	0.654	0.457	0.957	0.646	0.898	0.996	0.946	-0.703	-0.596	0.983	0.217	-0.178	0.529	0.975	1							
TA	0.211	0.113	0.053	0.721	0.93	0.568	0.368	0.872	0.614	0.87	0.931	0.915	-0.49	-0.559	0.963	0.135	-0.092	0.595	0.879	0.949	1						
TB	0.966	0.701	-0.144	-0.212	0.284	0.767	0.96	0.24	-0.078	0.527	0.168	0.399	-0.329	-0.499	0.07	1	-0.143	-0.503	0.351	0.217	0.135	1					
TH	0.3	0.274	0.21	0.584	0.96	0.688	0.431	0.865	0.716	0.928	0.958	0.972	-0.706	-0.673	0.982	0.183	-0.088	0.65	0.948	0.97	0.957	0.183	1				
U	0.394	0.385	0.286	0.517	0.946	0.769	0.493	0.826	0.749	0.954	0.935	0.988	-0.749	-0.755	0.955	0.261	-0.149	0.635	0.956	0.95	0.924	0.261	0.991	1			
W	0.918	0.687	-0.182	-0.296	0.235	0.698	0.939	0.2	-0.176	0.494	0.119	0.356	-0.294	-0.411	0.036	0.965	0.121	-0.532	0.284	0.171	0.111	0.965	0.161	0.222	1		
YB	0.508	0.432	0.202	0.49	0.955	0.83	0.614	0.847	0.674	0.986	0.928	1	-0.74	-0.766	0.929	0.397	-0.176	0.511	0.967	0.95	0.917	0.397	0.972	0.987	0.352	1	
ZN	0.866	0.55	-0.19	0.201	0.67	0.861	0.952	0.632	0.193	0.813	0.578	0.729	-0.468	-0.638	0.496	0.882	-0.204	-0.185	0.694	0.622	0.57	0.882	0.573	0.615	0.831	0.731	1

Elements analyzed but Consistently below threshold:
Outcrop: Ag,Br,Cs,Hg,Ir,Mo,Se,Sr

Maiden Creek Project – Pearson Correlation Matrices

Activation Labs – Neutron Activation Geochemical Data

4 Stream Sediment Samples

	AS	AU	BA	CA	CE	CO	CR	EU	FE	HF	LA	LU	MASS	NA	ND	NI	RB	SB	SC	SM	TA	TB	TH	U	W	YB	ZN
AS	1																										
AU	–0.346	1																									
BA	0.871	–0.329	1																								
CA	0.407	–0.319	–0.078	1																							
CE	0.263	–0.198	–0.237	0.985	1																						
CO	0.635	–0.283	0.179	0.959	0.912	1																					
CR	0.942	–0.377	0.659	0.69	0.572	0.858	1																				
EU	0.583	–0.275	0.114	0.974	0.937	0.998	0.822	1																			
FE	0.708	–0.229	0.27	0.916	0.861	0.992	0.9	0.983	1																		
HF	0.323	–0.164	–0.18	0.986	0.996	0.936	0.621	0.957	0.895	1																	
LA	0.238	–0.182	–0.262	0.98	1	0.901	0.551	0.928	0.849	0.995	1																
LU	0.798	–0.304	0.402	0.868	0.79	0.972	0.953	0.954	0.989	0.828	0.774	1															
MASS	0.091	–0.885	–0.092	0.573	0.517	0.432	0.271	0.453	0.336	0.464	0.511	0.344	1														
NA	0.353	–0.335	0.759	–0.624	–0.751	–0.458	0.044	–0.51	–0.395	–0.731	–0.768	–0.257	–0.13	1													
ND	0.268	–0.191	–0.233	0.985	1	0.914	0.576	0.939	0.864	0.997	1	0.793	0.509	–0.751	1												
NI	–0.382	0.021	–0.779	0.686	0.791	0.47	–0.049	0.527	0.375	0.749	0.806	0.249	0.445	–0.94	0.788	1											
RB	0.675	–0.113	0.94	–0.399	–0.533	–0.138	0.388	–0.203	–0.033	–0.475	–0.554	0.098	–0.35	0.869	–0.528	–0.939	1										
SB	0.991	–0.273	0.806	0.49	0.36	0.711	0.966	0.663	0.762	0.423	0.337	0.857	0.069	0.231	0.366	–0.284	0.597	1									
SC	0.186	–0.153	–0.314	0.968	0.997	0.877	0.505	0.907	0.821	0.989	0.999	0.74	0.5	–0.8	0.996	0.836	–0.597	0.288	1								
SM	0.269	–0.183	–0.233	0.984	1	0.914	0.577	0.939	0.865	0.998	0.999	0.794	0.501	–0.753	1	0.787	–0.527	0.367	0.996	1							
TA	0.253	–0.261	–0.24	0.987	0.997	0.904	0.564	0.93	0.846	0.989	0.997	0.778	0.577	–0.731	0.997	0.796	–0.543	0.344	0.993	0.996	1						
TB	–0.382	0.021	–0.779	0.686	0.791	0.47	–0.049	0.527	0.375	0.749	0.806	0.249	0.445	–0.94	0.788	1	–0.939	–0.284	0.836	0.787	0.796	1					
TH	0.026	–0.128	–0.459	0.921	0.971	0.788	0.361	0.827	0.717	0.952	0.977	0.621	0.52	–0.862	0.97	0.914	–0.719	0.129	0.987	0.97	0.972	0.914	1				
U	0.246	–0.182	–0.255	0.981	1	0.905	0.557	0.931	0.853	0.996	1	0.779	0.508	–0.764	1	0.801	–0.547	0.345	0.998	1	0.997	0.801	0.975	1			
W	0.994	–0.439	0.85	0.457	0.309	0.668	0.954	0.619	0.729	0.363	0.284	0.82	0.198	0.34	0.313	–0.333	0.631	0.982	0.232	0.313	0.306	–0.333	0.077	0.292	1		
YB	0.445	–0.238	–0.046	0.994	0.981	0.974	0.72	0.987	0.943	0.991	0.976	0.894	0.484	–0.631	0.982	0.657	–0.358	0.535	0.963	0.982	0.975	0.657	0.907	0.977	0.485	1	
ZN	0.994	–0.439	0.85	0.457	0.309	0.668	0.954	0.619	0.729	0.363	0.284	0.82	0.198	0.34	0.313	–0.333	0.631	0.982	0.232	0.313	0.306	–0.333	0.077	0.292	1	0.485	1

Elements analyzed but Consistently below threshold:
Stream Sediment: Br,Hg,Ir,Mo,Se,Sr

Maiden Creek Project - Factor Score Coefficients

Activation Labs - Neutron Activation Geochemical Data

All Sample Types (55 samples)

Element	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
ND	0.122	-0.069	-0.041	0.042	-0.041
CE	0.116	-0.033	-0.054	0.005	-0.039
LA	0.123	-0.06	-0.064	0.05	-0.034
SM	0.118	-0.044	-0.067	0.062	-0.032
TH	0.111	-0.049	-0.042	0.061	-0.029
EU	0.113	-0.021	-0.022	-0.107	-0.082
U	0.091	-0.021	0.029	0.008	-0.078
YB	0.083	0.012	-0.008	0.04	-0.049
LU	0.077	0.016	0.032	-0.007	-0.082
HF	0.075	0.042	-0.027	0.076	-0.073
TA	0.067	-0.026	-0.001	-0.126	0.07
CO	-0.011	0.107	0.061	0.024	0.117
SC	0.039	-0.02	-0.127	0.042	0.355
SB	0.017	-0.117	0.354	-0.035	-0.14
AS	-0.062	0.26	-0.08	0.066	0.044
CR	0.011	0.204	-0.09	-0.02	-0.051
AU	-0.058	0.185	-0.027	0.203	0.048
NI	-0.02	0.207	-0.105	-0.005	-0.031
W	-0.087	0.183	0.197	-0.282	-0.025
ZN	-0.014	0.155	0.104	-0.331	-0.017
FE	-0.037	-0.047	0.389	-0.139	0.032
NA	0.083	-0.035	-0.301	-0.044	-0.125
MASS	-0.037	0.012	0.144	-0.428	-0.006
BA	-0.057	-0.025	0.139	0.31	0.081
RB	0.147	-0.012	-0.175	-0.117	-0.559
CA	0.027	-0.061	-0.084	-0.072	0.357
TB	0.022	0.064	-0.098	-0.098	0.186

43 Till/Colluvium Samples

Element	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
HF	0.104	-0.077	-0.082	0	-0.05
LA	0.112	-0.014	-0.076	-0.039	-0.114
CE	0.097	-0.006	-0.01	-0.051	-0.061
YB	0.079	0.001	-0.01	-0.024	0.012
SM	0.099	0.017	-0.075	-0.037	-0.066
LU	0.079	-0.015	0.039	-0.025	-0.017
TH	0.087	0.001	-0.029	-0.037	-0.011
ND	0.1	-0.007	-0.005	-0.061	-0.079
CR	0.095	-0.041	-0.043	-0.064	0.012
U	0.076	-0.051	0.052	0.003	-0.023
EU	0.054	0.032	0.1	-0.051	0.054
AU	0.131	-0.108	-0.113	-0.051	-0.204
CO	-0.006	0.155	-0.008	0.075	0.166
AS	0.037	-0.138	0.094	0.027	0.157
SB	-0.016	-0.08	0.086	0.224	0.105
FE	-0.036	-0.009	0.042	0.288	0.064
SC	-0.04	0.379	0.007	-0.054	0.14
CA	-0.027	0.332	0.064	-0.011	-0.141
MASS	-0.071	-0.015	0.334	0.048	-0.07
ZN	-0.052	0.076	0.302	0.052	0.133
BA	0.033	-0.24	0.267	-0.097	-0.097
TB	0.027	0.033	0.203	-0.013	-0.119
TA	-0.037	0.166	0.208	-0.016	0.091
W	-0.064	0.009	0.034	0.386	-0.203
NA	-0.007	0.074	0.091	-0.292	0.087
NI	-0.075	0.066	-0.015	-0.122	0.693
RB	0.084	-0.218	0.052	-0.237	-0.003

Maiden Creek Project - Factor Score Coefficients

Activation Labs - Neutron Activation Geochemical Data

8 Outcrop Samples

Element	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
ND	0.093	-0.037	-0.014	-0.062	-0.002
LA	0.09	-0.036	-0.083	0.024	0.135
SM	0.089	-0.022	-0.065	-0.004	0.061
CE	0.085	-0.015	-0.079	0.014	0.102
TA	0.098	0.006	0.02	-0.134	-0.35
TH	0.084	-0.015	0.037	-0.12	-0.049
EU	0.099	-0.029	-0.188	0.039	0.192
SC	0.066	-0.014	-0.058	0.075	0.213
U	0.068	-0.005	0.062	-0.076	-0.019
YB	0.065	0.018	0.035	-0.055	-0.046
LU	0.064	0.019	0.041	-0.065	-0.052
HF	0.057	0.045	0.046	-0.097	-0.098
CA	0.079	-0.018	-0.059	0.17	-0.529
FE	0.012	-0.04	0.177	0.184	-0.06
MASS	-0.025	0.066	0.066	-0.074	-0.89
SB	0.044	-0.092	0.216	-0.078	-0.101
CO	-0.004	0.081	0.081	0.065	0.026
NA	0.015	-0.061	-0.187	-0.12	0.167
ZN	0.023	0.121	-0.063	0.038	-0.196
TB	-0.029	0.146	-0.039	0.057	-0.057
NI	-0.029	0.146	-0.039	0.057	-0.057
W	-0.011	0.146	-0.027	-0.152	-0.088
AS	-0.037	0.135	0.043	0.047	-0.032
CR	0.002	0.12	-0.052	-0.024	0.027
AU	-0.057	0.105	0.242	-0.103	-0.058
BA	-0.056	-0.019	0.37	-0.042	-0.024
RB	0.07	-0.001	0.044	-0.792	-0.115

4 Stream Sediment Samples

Element	Factor 1	Factor 2	Factor 3
SC	0.063	-0.009	-0.01
LA	0.061	-0.003	-0.004
U	0.061	-0.002	-0.006
TH	0.063	-0.031	0.012
SM	0.061	0.001	-0.011
ND	0.061	0.001	-0.006
CE	0.06	-0.001	0
HF	0.063	0.011	-0.034
TA	0.056	-0.006	0.04
YB	0.056	0.025	-0.016
CA	0.05	0.014	0.042
EU	0.05	0.044	-0.022
TB	0.06	-0.078	0.024
NI	0.06	-0.078	0.024
NA	-0.08	0.052	0.171
CO	0.048	0.052	-0.027
FE	0.048	0.068	-0.073
LU	0.037	0.079	-0.043
RB	-0.048	0.109	-0.05
AS	-0.005	0.121	-0.031
W	-0.009	0.113	0.025
ZN	-0.009	0.113	0.025
SB	0.007	0.122	-0.079
BA	-0.041	0.117	0.02
CR	0.015	0.102	-0.017
AU	0.058	0.017	-0.52
MASS	-0.026	-0.057	0.487

Maiden Creek Project - Factor Score Coefficients

Acme Analytical Labs - ICP Geochemical Data

1994 Outcrop Samples (52 samples)

Element	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
NI	0.191	-0.114	-0.014	-0.027	-0.066
CR	0.187	-0.112	-0.022	0.007	-0.053
CO	0.139	-0.013	-0.007	-0.025	-0.012
TI	0.125	0.015	-0.014	-0.003	-0.026
SC	0.071	0.052	-0.01	0.03	0.067
NB	0.164	-0.082	-0.011	-0.003	-0.184
FE	0.057	0.067	-0.001	0.095	0.055
CU	0.053	0.064	-0.008	0.016	0.054
V	0.034	0.095	-0.01	0.042	0.092
MG	0.114	-0.072	0.011	-0.108	0.029
Y	0.054	0.04	0.096	-0.006	0.016
NA	-0.077	0.179	-0.024	0.013	-0.026
P	-0.029	0.154	0.029	-0.011	0.055
AL	-0.039	0.158	-0.022	0.012	-0.023
ZN	0.007	0.136	0.003	-0.003	0.026
SR	-0.087	0.154	0.053	-0.041	0.051
LA	0.059	0.064	0	0.005	-0.095
K	-0.057	0.114	-0.043	0.012	-0.137
SN	-0.019	-0.008	0.188	0	-0.034
BI	-0.02	-0.007	0.188	0	-0.035
AG	0.01	-0.014	0.186	-0.036	-0.06
SE	-0.026	0.01	0.158	0.068	-0.001
MN	-0.023	0.062	0.138	-0.043	0.011
CA	0.026	-0.052	0.121	-0.135	0.037
SB	0.004	-0.021	0.034	0.197	0.027
HG	0.003	-0.017	-0.031	0.198	0.01
AS	-0.013	-0.023	0.051	0.184	0.023
MO	-0.009	-0.027	0.009	0.155	0.036
BA	-0.032	0.064	-0.027	0.144	-0.036
TH	0.045	-0.009	-0.011	-0.016	-0.24
PB	0.002	-0.014	0.051	0.007	-0.217
BE	0.002	-0.002	0.001	-0.007	-0.176
TE	0.021	-0.014	0.056	0.092	-0.158
GE	0.044	0.005	-0.016	0.096	-0.134
AU	-0.025	0.03	-0.014	0.004	0.082
W	-0.012	-0.026	0.024	-0.087	0.03
CD	0.007	0.001	0.065	-0.104	0.009

Maiden Creek Project - Factor Scores - All Data

Sample	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
269 HM-1	0.185	0.416	-0.187	0.231	-0.563
269 HM-2	-0.067	0.247	1.243	-1.529	-0.119
269 HM-3	-0.794	0.01	1.18	-0.718	-0.262
269 HM-4	-0.612	-0.191	2.442	-2.279	0.491
269 93-01	-1.267	-0.144	-0.326	0.383	-0.183
269 93-02	-0.528	-0.308	-0.469	0.765	-0.362
269 93-03	-0.856	-0.265	-0.518	0.342	-0.004
269 93-04	0.128	-0.288	0.184	0.268	0.436
269 93-05	-0.536	-0.149	0.731	0.219	-0.288
269 93-06	1.9	-0.161	0.255	0.883	-0.218
269 93-07	-0.947	-0.279	-0.337	0.361	0.099
269 93-08	-0.338	-0.238	1.743	0.245	-0.265
269 93-09	0.187	0.196	1.483	-0.118	-0.211
269 93-10	-0.314	-0.128	-0.214	0.227	-1.561
269 93-11	-1.021	-0.134	-0.574	-0.159	-0.127
269 93-12	-0.999	-0.327	-0.51	0.276	0.306
269 93-13	-0.521	0.341	1.634	-1.077	0.439
269 93-14	0.527	-0.572	0.82	0.795	-0.021
269 93-15	-0.899	0.341	1.841	0.048	0.031
269 93-16	2.009	-0.13	-0.448	0.399	0.991
269 93-17	0.614	-0.373	-0.791	0.42	1.666
269 93-18	-0.141	-0.539	-1.24	0.42	2.624
269 93-19	-0.811	-0.06	-0.273	-0.184	0.775
269 93-20	-0.415	-0.302	0.377	0.431	-0.328
269 93-21	0.584	0.573	0.185	0.657	-0.301
269 93-22	0.432	0.371	0.436	0.192	0.623
269 93-23	0.61	0.121	-0.665	0.523	-1.781
269 93C-01	-0.447	-0.299	-0.998	-0.99	-1.164
269 93C-02	0.707	-0.172	-0.726	-1.142	-1.104
269 93C-03	-0.375	-0.27	-0.507	0.459	1.089
269 93C-04	1.431	-0.256	-0.263	-0.676	0.456
269 93C-05	-0.593	-0.134	0.304	-0.152	-0.073
269 93C-06	-0.086	-0.554	-1.252	0.411	0.689
269 93C-07	0.04	-0.149	-0.575	-0.883	-1.726
269 93C-08	0.032	-0.294	-1.185	-0.426	-0.558
MDN4T-100	0.561	0.332	1.496	-2.423	1.216
MDN4T-101	0.402	6.963	-0.958	0.017	0.357
MDN4T-102	0.198	0.187	-0.581	0.436	-2.182
MDN4T-103	0.066	-0.038	-0.095	-1.135	1.348
MDN4T-104	-0.504	-0.09	-0.436	-0.958	0.721
MDN4T-113	-0.242	-0.095	0.03	-1.503	0.91
MDN4T-114	-0.284	-0.302	-0.743	0.115	1.652
MDN4T-115	-0.268	-0.163	-0.477	0.432	0.158
MDN4T-116	-0.864	-0.365	-1.215	0.157	0.791
MDN4T-117	-0.541	-0.217	-0.307	-0.367	-0.321
MDN4T-118	-1.023	-0.372	0.927	0.388	0.354
MDN4T-119	-1.086	-0.077	-0.173	0.603	-0.242
MDN4T-120	-0.119	0.612	2.982	4.494	0.315
MDN4T-121	0.452	-0.35	0.024	1.089	-0.366
MDN4T-122	-0.43	-0.343	-0.682	0.585	0.012
MDN4T-131	2.339	-0.39	-1.627	0.22	1.897
MDN4T-132	-0.865	-0.154	-1.295	-0.018	-1.645
MDN4T-133	-0.535	-0.127	-0.973	0.615	-1.722
MDN4T-134	1.592	0.054	0.323	-1.668	-2.003
MDN4T-137	4.334	-0.963	0.979	0.299	-0.747

Maiden Creek Project - Factor Scores - Grouped Data

Sample	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
269 93C-01	-0.509	-0.422	-0.813	0.371	-0.3
269 93C-02	0.184	2.453	-0.177	0.178	0.081
269 93C-03	-0.028	-0.514	-0.553	0.596	2.161
269 93C-04	-0.089	-0.194	2.39	0.07	0.306
269 93C-05	2.3	-0.531	-0.252	0.175	-0.583
269 93C-06	-0.923	-0.262	-0.408	0.193	-0.371
269 93C-07	-0.223	-0.191	-0.24	-2.396	-0.004
269 93C-08	-0.712	-0.338	0.052	0.813	-1.29
269 93-01	-1.202	-0.835	-0.787	-0.228	-0.42
269 93-02	-0.332	-0.861	-0.742	-0.518	-0.305
269 93-03	-0.809	-0.44	-0.685	-0.425	-0.384
269 93-04	0.347	0.145	0.057	0.071	0.167
269 93-05	-0.188	-0.795	-0.809	0.946	-0.342
269 93-06	3.24	-0.207	-1.182	-0.101	-0.813
269 93-07	-0.969	-0.255	-0.815	-0.214	-0.406
269 93-08	0.184	-0.819	-0.997	1.893	-0.248
269 93-09	0.968	-0.751	-0.413	1.989	-0.719
269 93-10	0.032	-1.679	-0.636	-0.45	-0.301
269 93-11	-1.357	-0.339	0.242	-0.442	-0.415
269 93-12	-1.108	-0.065	-0.754	-0.301	-0.452
269 93-13	-0.382	0.638	-0.483	2.61	-0.72
269 93-14	0.982	-0.26	-0.862	0.571	-0.161
269 93-15	-0.439	-0.641	-0.848	1.867	1.147
269 93-16	3.042	1.041	-0.274	-0.593	-1.278
269 93-17	0.625	1.944	-0.659	-0.213	-0.151
269 93-18	-0.739	3.274	-1.041	-0.468	0.023
269 93-19	-1.016	0.86	-0.563	0.203	-0.155
269 93-20	-0.09	-0.751	-0.817	0.32	0.045
269 93-21	0.893	0.494	-0.962	0.006	3.856
269 93-22	1.151	-0.158	0.564	0.225	0.14
269 93-23	0.741	-0.871	-0.74	-1.198	2.096
MDN4T-100	0.602	1.063	2.663	1.538	-0.398
MDN4T-101	-0.7	-0.635	0.785	-0.611	0.179
MDN4T-102	-0.545	0.861	1.563	-0.128	0.166
MDN4T-103	-0.298	1.718	0.901	0.443	-0.143
MDN4T-104	-0.675	0.529	0.966	-0.654	-0.153
MDN4T-113	-1.228	0.7	-0.391	-0.96	-0.308
MDN4T-114	-0.628	1.898	-0.369	-0.412	0.16
MDN4T-115	0.27	-0.288	-0.905	-0.606	-1
MDN4T-116	-0.386	0.895	-0.359	-1.131	-0.156
MDN4T-117	-0.016	-1.032	1.216	-1.472	-0.676
MDN4T-118	0.082	-1.491	0.785	-1.049	-0.602
MDN4T-119	1.75	0.101	1.997	-0.74	-0.355
MDN4T-120	-0.117	0.64	-0.806	-0.387	-0.606
MDN4T-121	-0.709	-0.84	0.64	-1.455	-0.611
MDN4T-122	0.691	-0.487	1.323	-1.236	-0.217
MDN4T-131	-0.435	-0.514	-0.259	0.442	-0.544
MDN4T-132	-0.715	-0.206	1.97	2.081	-0.043
MDN4T-133	-0.542	-1.017	0.592	0.733	0.082
MDN4T-134	-0.172	-0.239	1.742	0.679	1.927
MDN4T-137	0.2	-0.327	0.149	-0.624	3.096
269 HM-1	0.248	1.46	0.237		
269 HM-2	-0.557	-0.195	-1.379		
269 HM-3	-0.982	-0.511	1.012		
269 HM-4	1.29	-0.754	0.13		

Maiden Creek Project - Factor Scores - 1994 Outcrop Data

Sample	Number	Factor 1	Factor 2	Factor 3	Factor 4	Factor 5
MDN4O	1	-0.283	-0.529	-0.313	1.014	1.005
MDN4O	2	-0.185	-0.151	-0.366	-0.169	0.171
MDN4O	3	-0.26	-0.02	-0.256	0.014	0.726
MDN4O	4	-0.406	-0.828	-0.199	-0.606	0.378
MDN4O	5	0.035	-0.511	0.04	1.458	-0.213
MDN4F	6	-0.633	-1.326	-0.481	-0.541	0.588
MDN4B	7	0.169	-0.419	-0.108	0.459	0.339
MDN4B	8	0.331	-0.567	-0.002	1.016	-0.629
MDN4O	9	-0.327	-0.838	-0.191	1.182	0.915
MDN4O	10	0.164	-0.488	-0.118	0.036	0.721
MDN4O	11	0.244	1.611	0.044	-0.685	-0.506
MDN4B	12	-0.436	1.553	-0.11	-0.053	0.22
MDN4O	13	0.166	-0.181	-0.241	-0.127	0.53
MDN4O	14	0.074	-0.708	-0.279	0.79	0.32
MDN4O	15	0.046	-0.241	-0.013	-0.231	-0.046
MDN4O	16	-0.338	1.573	-0.28	-0.197	0.874
MDN4O	17	-0.051	-0.176	-0.498	-0.142	0.122
MDN4O	18	0.072	-0.021	-0.014	-0.324	0.655
MDN4O	19	-0.28	1.626	0.08	-0.675	0.757
MDN4O	20	-0.337	1.618	-0.195	-0.187	0.707
MDN4O	21	-0.467	-0.141	-0.295	-0.041	-2.117
MDN4O	22	-0.749	-0.201	-0.448	-0.049	-1.27
MDN4O	23	-0.22	-0.753	-0.386	-0.365	0.56
MDN4O	24	-0.537	-0.37	-0.473	-0.421	-1.671
MDN4O	25	-0.463	-0.383	6.705	0.56	-0.508
MDN4O	26	0.073	-0.385	-0.225	0.052	0.677
MDN4O	107	-0.211	1.613	-0.215	0.164	0.105
MDN4O	1000	-0.073	-0.767	0.128	2.726	0.644
MDN4B	10001	0.906	1.83	0.305	0.748	0.639
MDN4O	10002	-0.201	1.719	0.185	-0.578	0.176
MDN4B	10003	0.665	1.766	0.293	0.098	1.586
MDN4O	10004	0.048	-0.64	-0.281	-0.043	0.195
MDN4B	10005	0.207	-0.372	-0.167	4.535	-0.214
MDN4B	10006	-0.049	-1.857	-0.016	-1.537	0.911
MDN4B	10007	-0.149	-1.927	1.011	-2.69	0.879
MDN4B	10008	4.788	0.261	0.341	-0.575	-1.851
MDN4O	10009	-0.142	1.36	-0.024	-0.341	-0.106
MDN4O	10010	0.041	-0.241	-0.378	-0.245	0.714
MDN4B	10011	-0.418	-1.275	-0.471	-0.17	0.576
MDN4B	10012	-0.495	0.893	0.272	-0.601	-1.853
MDN4B	10013	-0.235	-0.696	-0.398	0.126	-0.341
MDN4B	10014	-0.419	1.213	0.034	-0.103	-0.212
MDN4B	10015	0.214	1.769	-0.04	-0.218	1.111
MDN4O	10016	-0.138	-0.638	-0.429	-0.296	0.276
MDN4B	10017	-0.928	-0.47	0.953	-1.352	0.803
MDN4B	10018	4.452	-1.027	-0.225	-0.53	0.191
MDN4O	10019	-0.196	-0.671	-0.423	0.192	0.469
MDN4O	10020	-0.219	-0.323	-0.181	-0.282	0.377
MDN4B	10021	-0.423	-0.249	-0.424	-0.057	-2.404
MDN4O	10022	-0.977	0.04	-0.458	-0.413	-1.822
MDN4B	10023	-0.663	-0.104	-0.299	-0.047	-2.829
MDN4B	10024	-0.786	0.05	-0.469	-0.278	-1.323

APPENDIX V

A LOGISTICAL REPORT ON THE MAID GRID INDUCED POLARIZATION SURVEY

BY PETER WALCOTT & ASSOC. LTD.

PETER E. WALCOTT
& ASSOCIATES LTD

A LOGISTICAL REPORT

ON AN

INDUCED POLARIZATION SURVEY

Clinton Area, B.C.

50° 48', 121° 33'
N.T.S. 92 I/13E

FOR

CAMECO CORPORATION

Saskatoon, Saskatchewan

BY

PETER E. WALCOTT & ASSOCIATES LIMITED

Vancouver, British Columbia

JULY 1994

INTRODUCTION.

Between July 13th and 18th, 1994, Peter E. Walcott & Associates Limited carried out a small induced polarization (I.P.) surveying programme over parts of the Maid property, located in the Clinton area of British Columbia, for Cameco Corporation.

The surveying was conducted over three east-west cut lines previously established by contract linecutters.

Measurements (first to sixth separation) of apparent chargeability (the I.P. response parameter) and resistivity were made every 25 metres along the lines using the pole - dipole method of surveying with a 25 metre dipole.

The survey was initially planned for coverage with the dipole - dipole method of surveying but this method had to be abandoned when the low background resistivities encountered made measurements of the larger separations unattainable despite injection currents of the order of 2 amperes.

The data are presented on individual coloured pseudo- sections at a scale of 1:2500. For distinction L3300N has been labelled L330N on the aborted dipole - dipole survey.

SURVEY SPECIFICATIONS.

The induced polarization (I.P.) survey was conducted using a pulse type system, the principal components of which are manufactured by Phoenix Geophysics Limited of Metropolitan Toronto, Ontario, and BRGM Instruments of Orleans, France.

The system consists basically of three units, a receiver (BRGM), a transmitter and a motor generator (Phoenix). The transmitter, which provided a maximum of 2.0kw d.c. to the ground, obtains its power from a 2.0 kw 400 c.p.s. three phase alternator driven by a gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2, the primary voltages (V) appearing between any two potential electrodes, P_1 through P_7, during the "current-on" part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 100 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor - the sample window is actually the total of ten individual windows of 100 millisecond widths.

The apparent resistivity (ρ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values wich that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C_1, and the potential electrodes, P_1 through P_7, are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C_2, is kept constant at "infinity". The distance, "na" between C_1 and the nearest potential electrode generally controls the the depth to be explored by the particular separation, "n", traverse.

On this survey a 25 metre dipole was employed and first to sixth separation readings were obtained.

The survey was orginally started using the dipole-dipole method of surveying, but this method was abandoned in favour of the pole-dipole one with its more favourable geometric constants when the low resistivities encountered precluded the collection of meaningful data from the larger separations.

SURVEY SPECIFICATIONS CON'TD

In all some 6.0 kilometres of surveying were completed using the former method, while some 0.7 kilometres were done with the latter before abandonment.

PETER E. WALCOTT
& ASSOCIATES LTD

PERSONNEL EMPLOYED ON SURVEY.

Name	Occupation	Address	Dates
Peter E. Walcott	Geophysicist	Peter E. Walcott & Assoc. 605 Rutland Court, Coquitlam, B.C. V3J 3T8	July 27th - 29th, 1994
G. MacMillan	Geophysical Operator	" "	July 13th - 19th, 1994
D. Hewitt	"	" "	"
R. Nuisker	Geophysical Assistant	" "	"
K. Walcott	Typing	" "	July 31st, 1994

APPENDIX VI

REPORT ON THE MAID GRID INDUCED POLARIZATION SURVEY

BY DR. RON MATTHEWS

Introduction

A geophysical program was carried out in July, 1994, on the Maiden Creek project, located approximately 100 km west of Kamloops, British Columbia by Peter E. Walcott and Associates Ltd, of Vancouver, under contract number 471. The program included 6.7 km of IP-resistivity coverage on the Maid property and was designed to follow up geochemical sampling carried out during the summer, and help delineate alteration zones any significant structural trends that could represent suitable targets for drilling. Previous work, including magnetics, VLF and soil sampling had been carried by Teck.

The present coverage was carried out on three east-west lines (lines 330, 333 and 336+00N). A dipole spacing of 25 m was used and n = 1 to 6 dipoles were recorded using an IRIS Instruments (BRGM) ELREC 6 time domain IP receiver in conjunction with a 2 Kw Phoenix IPT-1 transmitter. The dipole-dipole array was used initially on line 330+00N but was changed to a pole-dipole set up in view of the low resistivities encountered within the conglomerate unit. In total of 0.7 km of dipole-dipole and 6 km of pole-dipole coverage were completed. The contractor's logistics report, attached as Appendix 1, includes more detailed information on the equipment used and the specifications of the survey.

Discussion of Results

The IP and resistivity pseudosections are included with the logistics report in Appendix 1 at a scale of 1:2500. The interpreted anomalous IP and resistivity zones and trends are plotted in Figure 1. This figure is plotted at a scale of 1:5000 and an idealised grid has been used for the base. Also plotted on Figure 1 is an indication of the relative coverage for the dipole-dipole and pole-dipole arrays, as well as contacts and breaks inferred from the resistivity data.

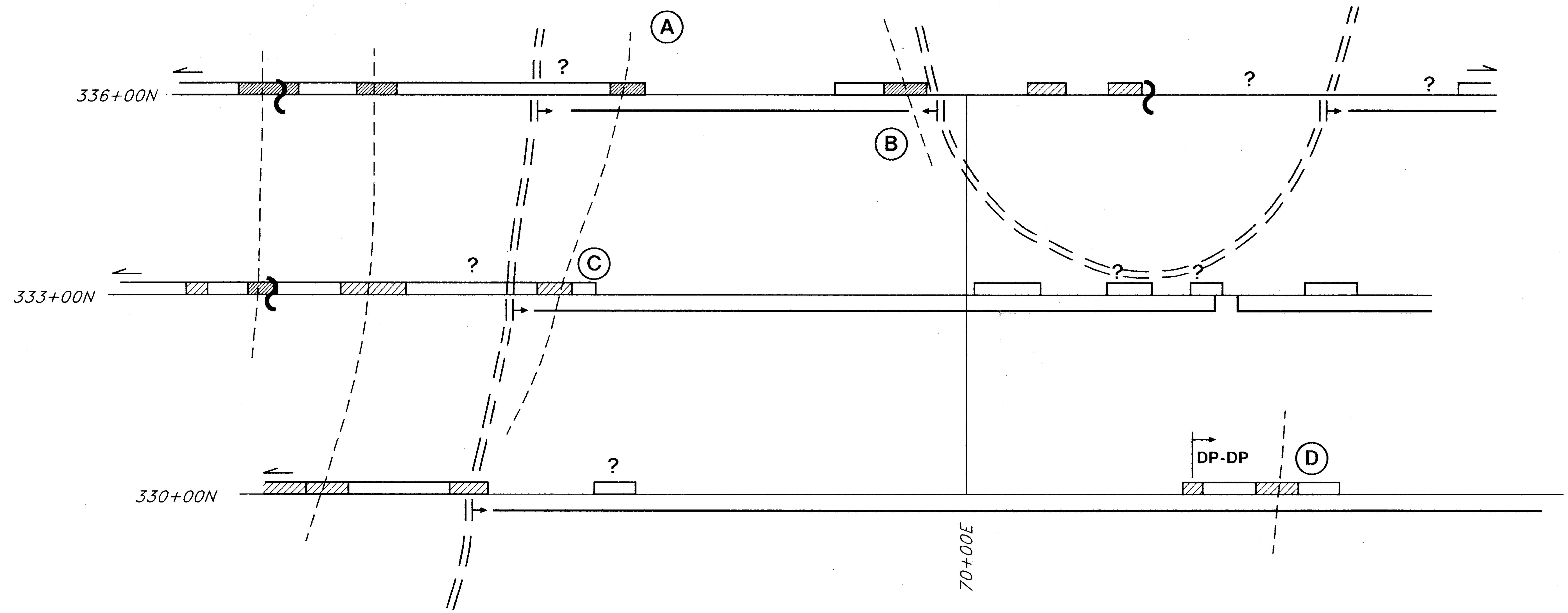
The area is in general characterised by a low resistivity background, of the order of 40 ohm-metres. More resistive units are indicated to the west and north-east. A number of weak to moderate IP anomalies are defined and potential target areas are also shown on Figure 1. These areas, however, represent weak targets and would need to be upgraded by other methods before being considered for drilling. The anomalies are poorly resolved and generally have a shallow signature. Although a series of anomalous IP trends are interpreted in the west the overall pattern is more typical of an increased chargeability background. A north-south structural control in this area may be inferred from the IP/resistivity data. The coverage is, however, too limited to derive any trends with confidence. Areas B and D represent more discrete zones but again the overall signature is relatively poor.

Conclusions and Recommendations

The present geophysical program has located a series of weak IP anomalies and trends within a low resistivity background. The coverage is very limited and if any additional encouraging results are obtained additional IP-resistivity coverage should be considered.

R. Matthews
Chief Geophysicist

December 14 1994



GEOLOGICAL BRANCH
ASSESSMENT REPORT

23,752

0 100 200 300m
Scale 1:5000

LEGEND

DP-DP — Break between P-DP and DP-DP coverage

IP Anomalies and Trends (⟶ = Open)

Restivity Contact (Arrow points to more conductive unit)

Restivity Breaks

(A) Target Area

Cameco

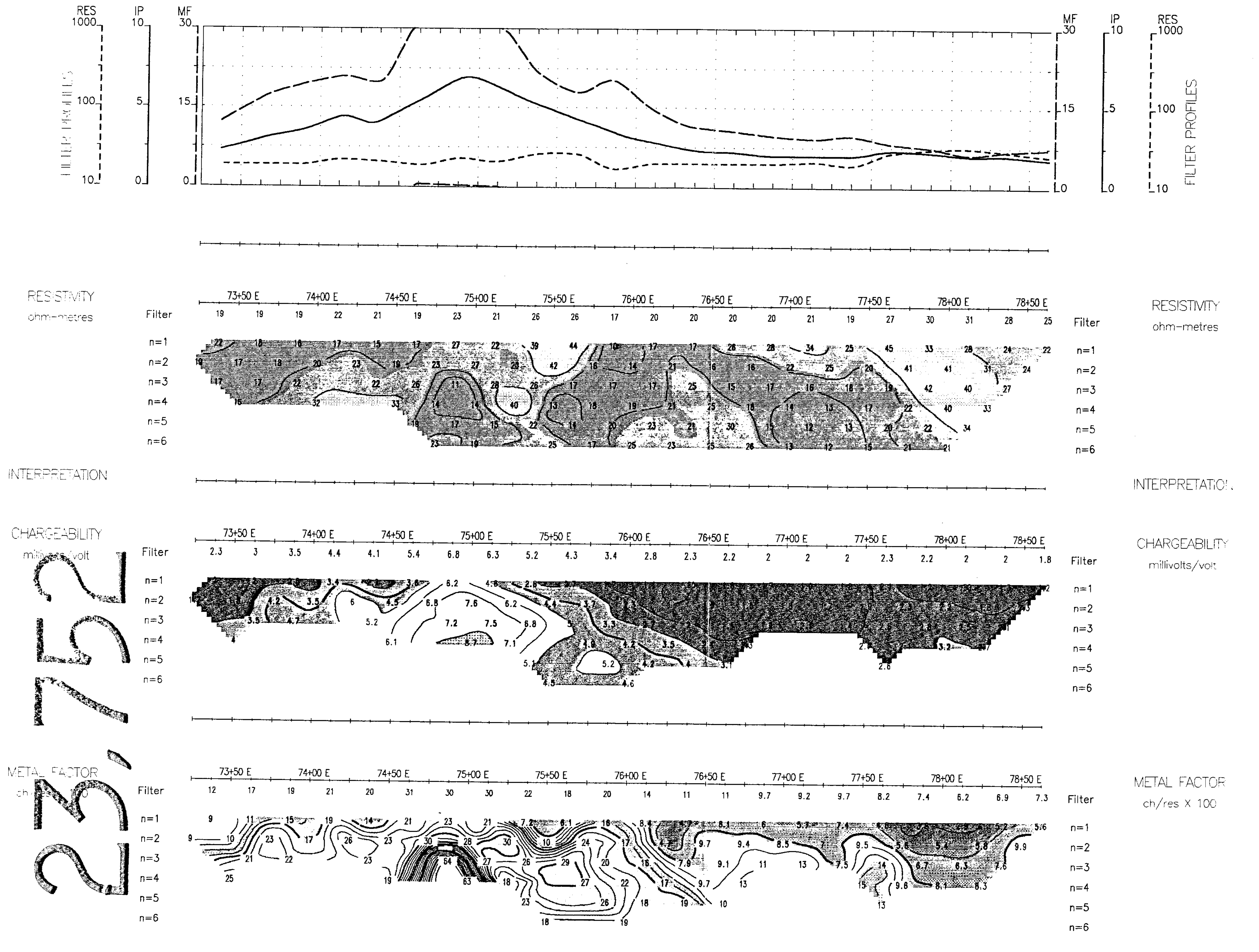
MAIDEN CREEK PROJECT

IP - RESISTIVITY INTERPRETATION

Compiled By: RON MATTHEWS 95/01/30
Drafted By: WALLY HARILDSTAD
Scale: 1:5,000
N.T.S.:
Disposition(s):

Dwg No.: WCG94002

FIG. 1



Line 330 N

Dipole-Dipole Array

a na a

Filter

a = 25 M

plot point

Instrument:
Phoenix IPT1 Tx., BRGM Elrec 6 Rx.
Frequency: 0.125 Hz.
Operators: G.M. , D.H.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.

Scale 1:2500

25 0 25 50 75 100 125 150

(meters)

FIG. 1

CAMECO CORPORATION

MAID PROPERTY
CLINTON AREA, BRITISH COLUMBIA
INDUCED POLARIZATION SURVEY

Date: July 1994 N.T.S.: 92 I/13E
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.

Line 33000 N

Dipole–Pole Array

Filter

a = 25 M

plot point

Instrument:
Phoenix IPT1 Tx., BRGM Elrec 6 Rx.
Frequency: 0.125 Hz.
Operators: G.M. , D.H.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.

Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

FIG. 2

CAMECO CORPORATION

MAID PROPERTY
CLINTON AREA, BRITISH COLUMBIA
INDUCED POLARIZATION SURVEY

Date: July 1994 N.T.S.: 92 I/13E
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.

Line 33300 N

Dipole-Pole Array

Filter

Instrument:
Phoenix IPT1 Tx., BRGM Elrec 6 Rx.
Frequency: 0.125 Hz.
Operators: G.M. , D.H.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.

Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

FIG. 3

CAMECO CORPORATION

MAID PROPERTY
CLINTON AREA, BRITISH COLUMBIA
INDUCED POLARIZATION SURVEY

Date: July 1994 N.T.S.: 92 I/13E
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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Line 33600 N

Dipole–Pole Array

Filter

Instrument:
Phoenix IPT1 Tx., BRGM Elrec 6 Rx.
Frequency: 0.125 Hz.
Operators: G.M. , D.H.

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

Well defined, strong increase in polarization with or without marked decrease in resistivity.

Fairly well defined moderate increase in polarization.

Poorly defined polarization increase.

Resistivity feature.

Scale 1:2500

25 0 25 50 75 100 125 150
(meters)

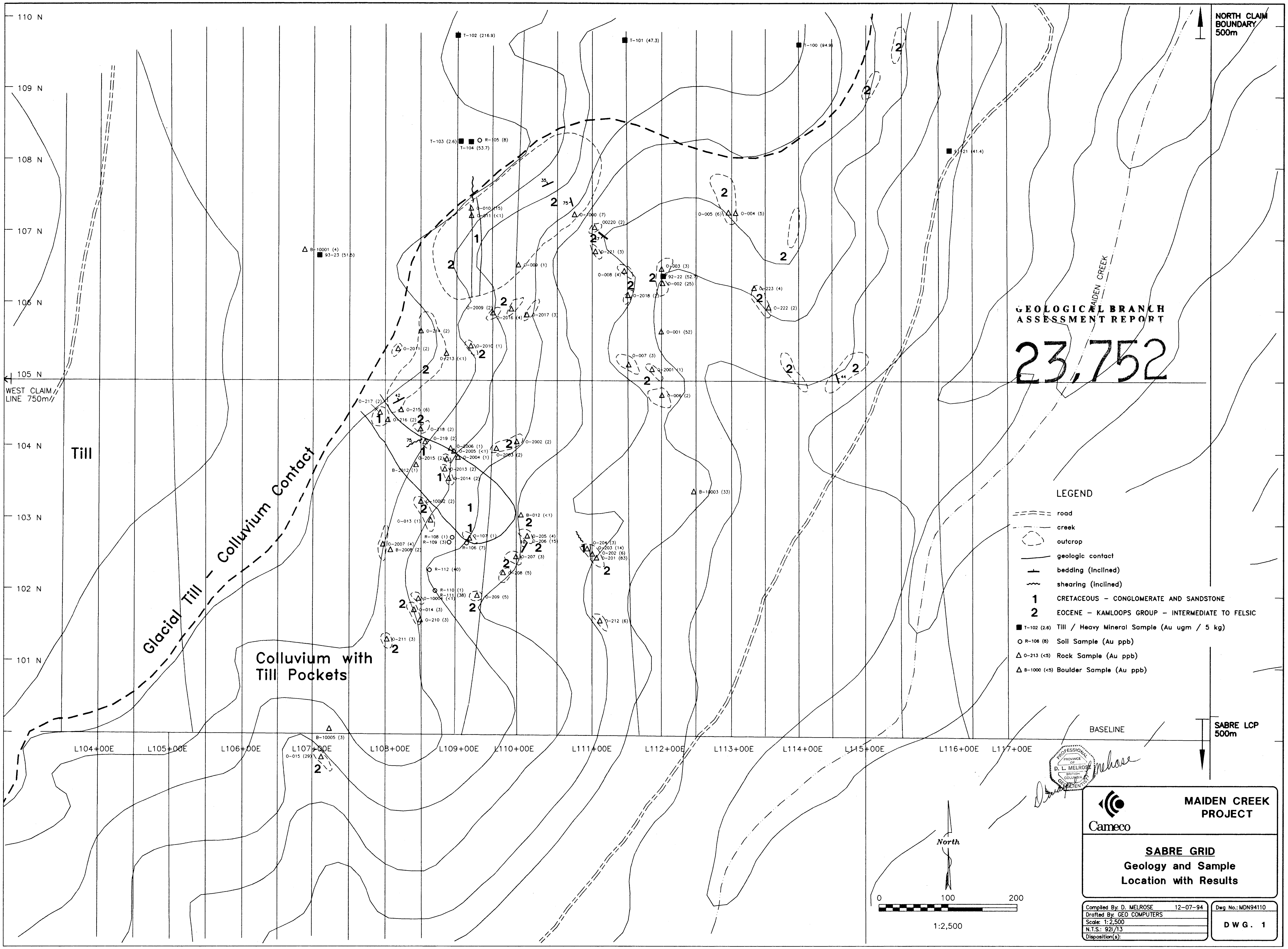
FIG. 4

CAMECO CORPORATION

MAID PROPERTY
CLINTON AREA, BRITISH COLUMBIA
INDUCED POLARIZATION SURVEY

Date: July 1994 N.T.S.: 92 I/13E
Interpretation:

PETER E. WALCOTT & ASSOC. LTD.



NORTH CLAIM BOUNDARY 500m
WEST CLAIM LINE 750m
SABRE LCP 500m
BASELINE
110 N
109 N
108 N
107 N
106 N
105 N
104 N
103 N
102 N
101 N
L104+00E
L105+00E
L106+00E
L107+00E
L108+00E
L109+00E
L110+00E
L111+00E
L112+00E
L113+00E
L114+00E
L115+00E
L116+00E
L117+00E
Till
Glacial Till - Colluvium Contact
Colluvium with Till Pockets
MAIDEN CREEK
GEOLOGICAL BRANCH ASSESSMENT REPORT
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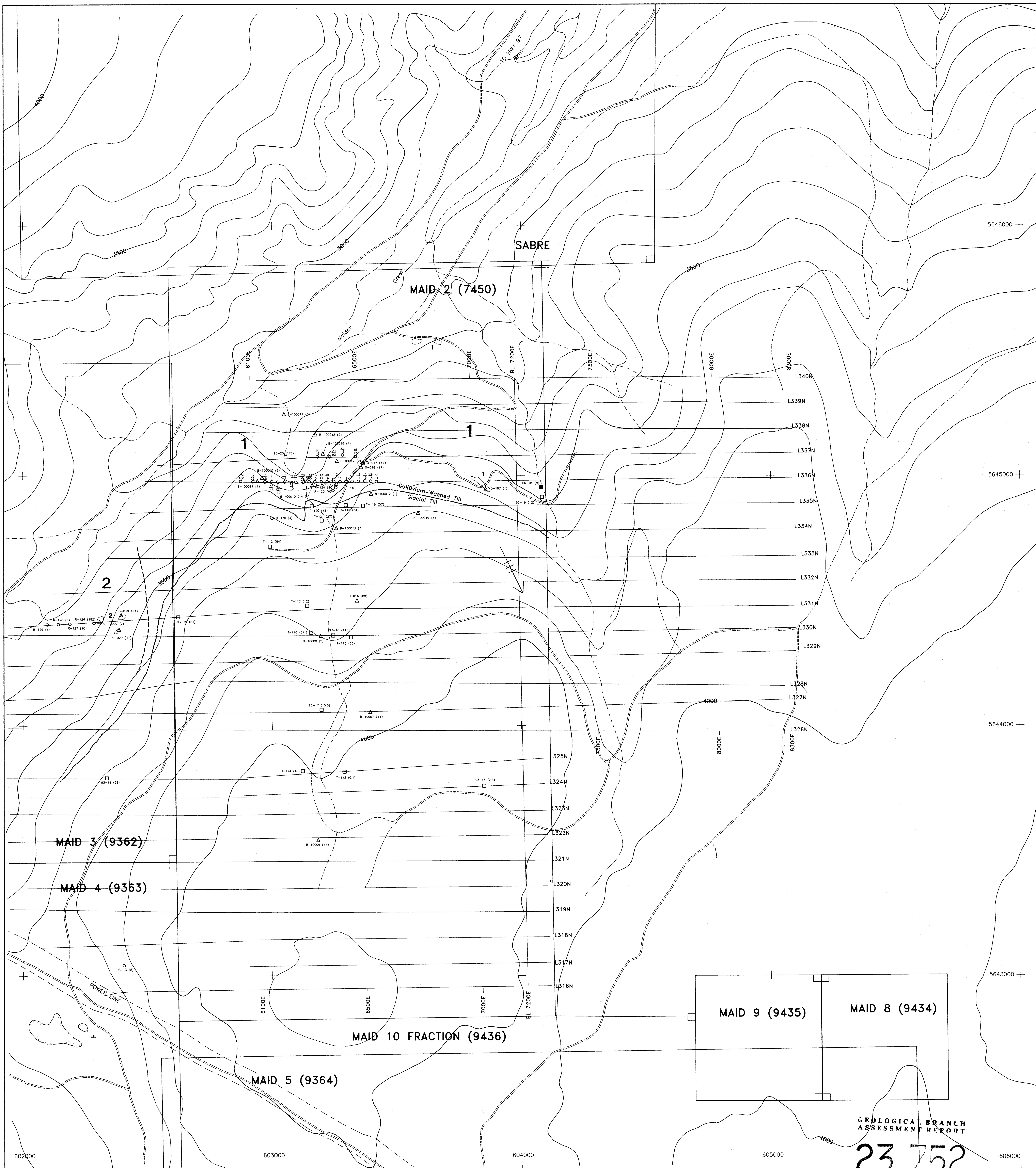
LEGEND
road
creek
outcrop
geologic contact
bedding (inclined)
shearing (inclined)
1 CRETACEOUS - CONGLOMERATE AND SANDSTONE
2 EOCENE - KAMLOOPS GROUP - INTERMEDIATE TO FELSIC
T-102 (2.6) Till / Heavy Mineral Sample (Au ugm / 5 kg)
R-106 (8) Soil Sample (Au ppb)
0-213 (<5) Rock Sample (Au ppb)
B-1000 (<5) Boulder Sample (Au ppb)
North
0 100 200
1:2,500
PROFESSIONAL PROVINCE OF D. L. MELROSE BRITISH COLUMBIA GEOSCIENTIST
Cameco
MAIDEN CREEK PROJECT
SABRE GRID
Geology and Sample Location with Results
Compiled By: D. MELROSE 12-07-94
Drafted By: GEO COMPUTERS
Scale: 1:2,500
N.T.S.: 92I/13
Disposition(s):
Dwg No.: MDN94110
DWG. 1



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND

□	legal corner post
	claim boundary
	road, trail
	stream
	swamp
	outcrop
	geologic contact
	till / washed till – colluvium contact
1	EOCENE – KAMLOOPS GROUP – BASALT TO RHYOLITE
2	CRETACEOUS – CONGLOMERATE AND SANDSTONE
	ice direction

△ 0–123 (<5)	Outcrop Sample O– Outcrop Sample Number (Au ppb) B– Boulder Sample Number (Au ppb)
■ HM–04 (9)	Heavy Mineral / Till Sample (Au / 10 kg)
□ 93–18 (2.3)	Heavy Mineral / Till Sample (Au / 5 kg)
○ 93–13 (8) 10/20	Soil Sample C_1 Horizon (Au ppb) C_2 Horizon (Au ppb)

PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
D. L. MELROSE

Dwayne L. Melrose

0 100 200 300 metres

1:5,000

North

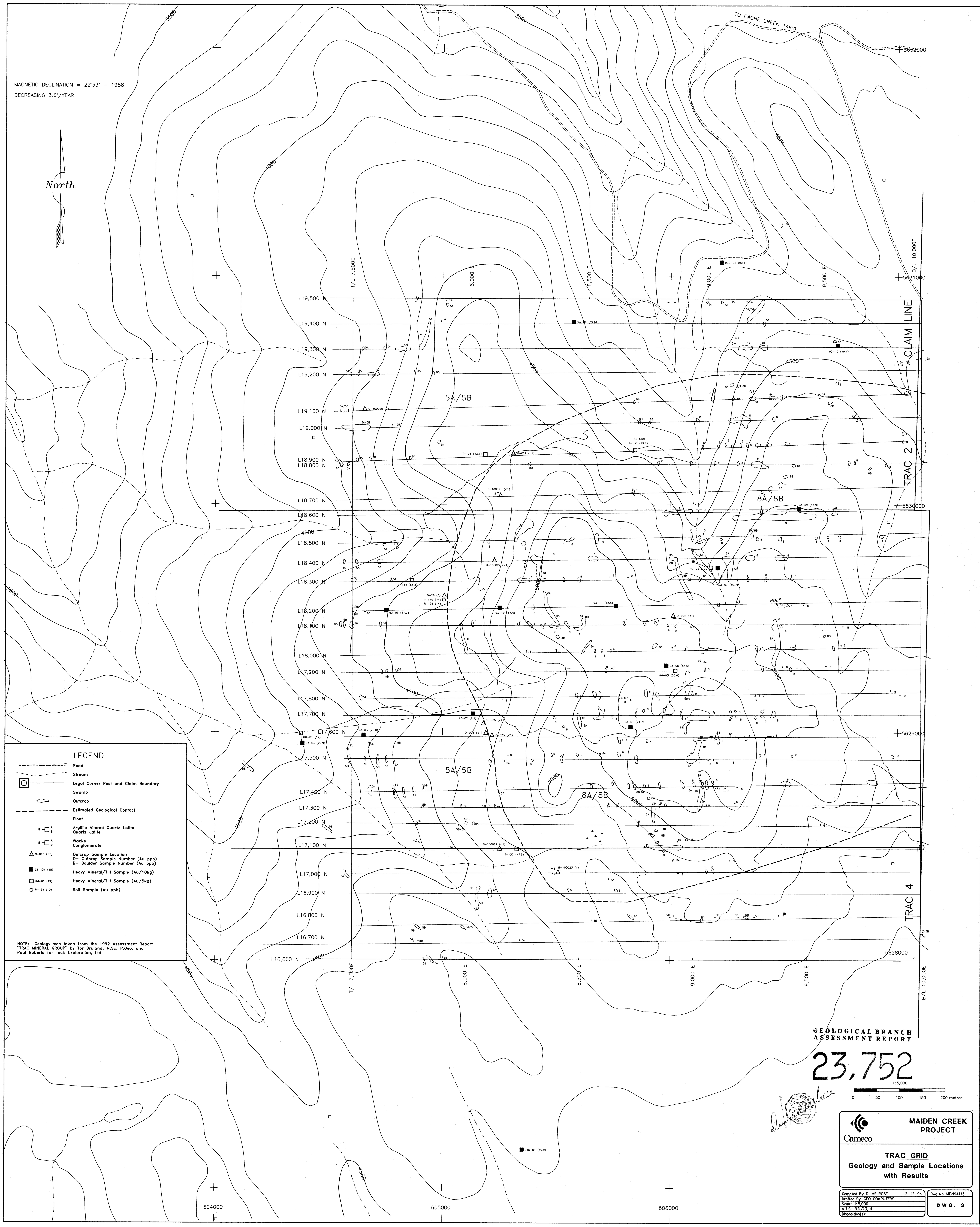
Cameco

MAIDEN CREEK PROJECT

MAID GRID

Geology and Sample Locations with Results

Compiled By: D. MELROSE 12–08–94	Dwg No.: MDN94107
Drafted By: GEO COMPUTERS	DWG. 2
Scale: 1:5,000	
N.T.S.: 92–1/13E	
Disposition(s):	


MAGNETIC DECLINATION = 22°33' - 1988
DECREASING 3.6'/YEAR
North
TO CACHE CREEK 14km
CLAIM LINE
TRAC 2
TRAC 4
5A/5B
8A/8B
T/L 7,500E
8,000 E
8,500 E
9,000 E
9,500 E
B/L 10,000E
5632000
5631000
5630000
5629000
5628000
604000
605000
606000
L19,500 N
L19,400 N
L19,300 N
L19,200 N
L19,100 N
L19,000 N
L18,900 N
L18,800 N
L18,700 N
L18,600 N
L18,500 N
L18,400 N
L18,300 N
L18,200 N
L18,100 N
L18,000 N
L17,900 N
L17,800 N
L17,700 N
L17,600 N
L17,500 N
L17,400 N
L17,300 N
L17,200 N
L17,100 N
L17,000 N
L16,900 N
L16,800 N
L16,700 N
L16,600 N
LEGEND
Road
Stream
Legal Corner Post and Claim Boundary
Swamp
Outcrop
Estimated Geological Contact
Float
Argillic Altered Quartz Latite
Quartz Latite
Wacke
Conglomerate
O-025 (<5) Outcrop Sample Location
O- Outcrop Sample Number (Au ppb)
B- Boulder Sample Number (Au ppb)
93-131 (15) Heavy Mineral/Till Sample (Au/10kg)
HM-01 (19) Heavy Mineral/Till Sample (Au/5kg)
R-131 (10) Soil Sample (Au ppb)
NOTE: Geology was taken from the 1992 Assessment Report "TRAC MINERAL GROUP" by Tor Bruland, M.Sc, P.Geo. and Paul Roberts for Teck Exploration, Ltd.
GEOLOGICAL BRANCH
ASSESSMENT REPORT
23,752
1:5,000
0
50
100
150
200 metres
PROFESSIONAL
PROVINCE OF
D. L. MELROSE
BRITISH COLUMBIA
GEOSCIENTIST
Cameco
MAIDEN CREEK PROJECT
TRAC GRID
Geology and Sample Locations with Results
Compiled By: D. MELROSE 12-12-94
Drafted By: GEO COMPUTERS
Scale: 1:5,000
N.T.S.: 92I/13,14
Disposition(s):
Dwg No.: MDN94113
DWG. 3